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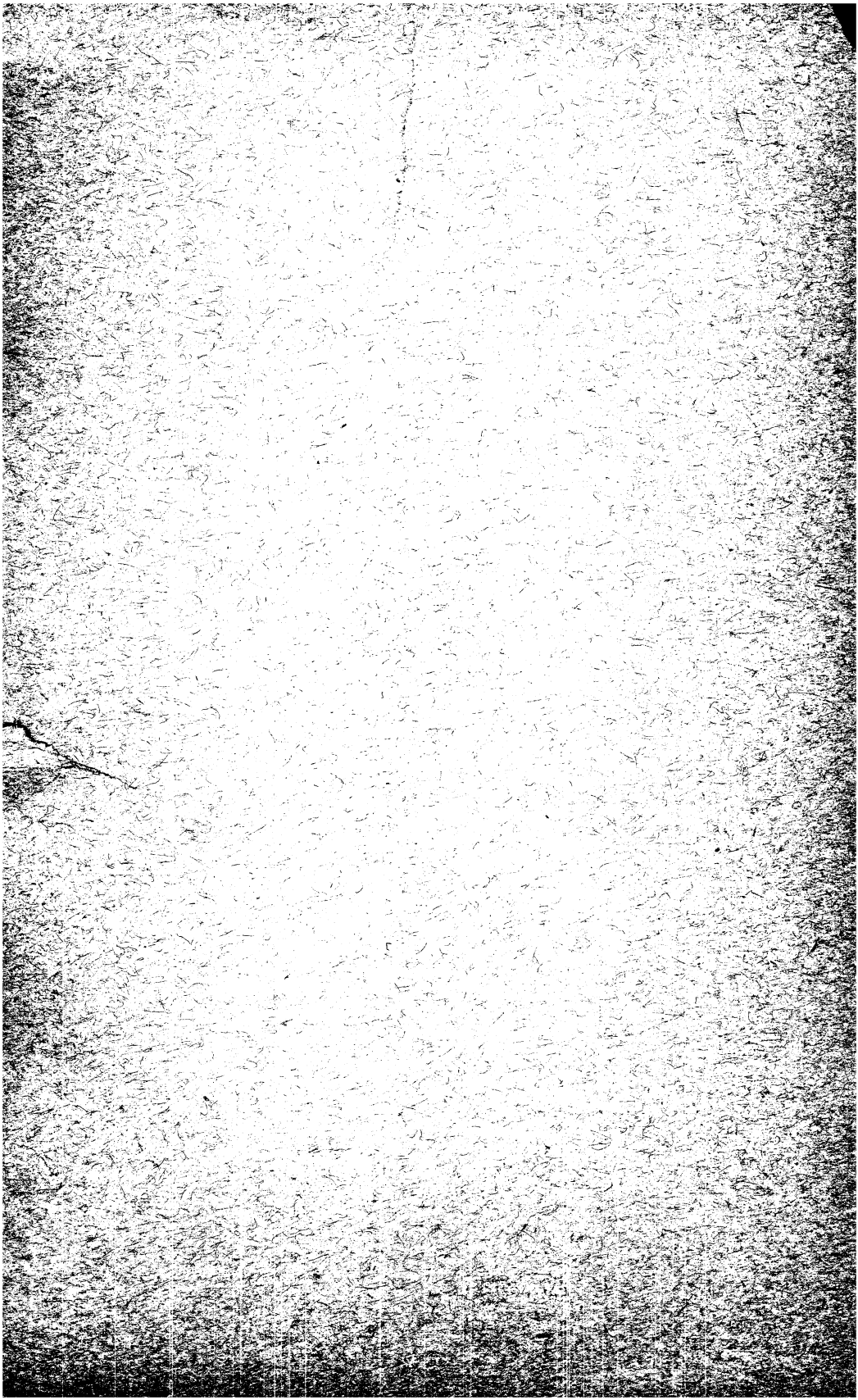
SURFACE WATER SUPPLY *of* NEW JERSEY

STREAM FLOW RECORDS

October 1, 1934 to September 30, 1940

New Jersey State Library

1944



STATE OF NEW JERSEY

STATE WATER POLICY COMMISSION

HOWARD T. CRITCHLOW Engineer in Charge

In cooperation with the United States Geological Survey

GLENN L. PARKE, Chief Hydraulic Engineer

SPECIAL REPORT 9

SURFACE WATER SUPPLY

of NEW JERSEY

STREAM FLOW RECORDS

October 1, 1934 to September 30, 1940

BY

O. W. HARTWELL

1944

28 WEST STATE STREET

TRENTON, N. J.

NEW JERSEY STATE WATER POLICY COMMISSION

28 West State Street, Trenton, N. J.

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Howard T. Critchlow, Engineer in Charge

LETTER OF TRANSMITTAL

April 5, 1944

Mr. George S. Burgess, Chairman
State Water Policy Commission
Trenton, New Jersey

Dear Sir:

I am transmitting herewith a report on surface water supply of New Jersey prepared by Mr. O. W. Hartwell, District Engineer, U. S. Geological Survey. The report covers the six-year period from October 1, 1934 to September 30, 1940. Similar records for earlier years are available in Special Report 5 published by the State Water Policy Commission in 1936, and Bulletin 33 published by the New Jersey Department of Conservation and Development in 1929.

The investigational work on the flow of streams in the State has been done under a cooperative agreement with the Survey made from year to year, under which each party contributes funds for the work and may publish the results. The report contains records of 90 gaging stations in New Jersey, 74 of which record the stream flow and 16 stations the elevation of the water. The Survey publishes some of the records annually in their Water Supply Papers together with records of streams in other states of the North Atlantic Slope Basins.

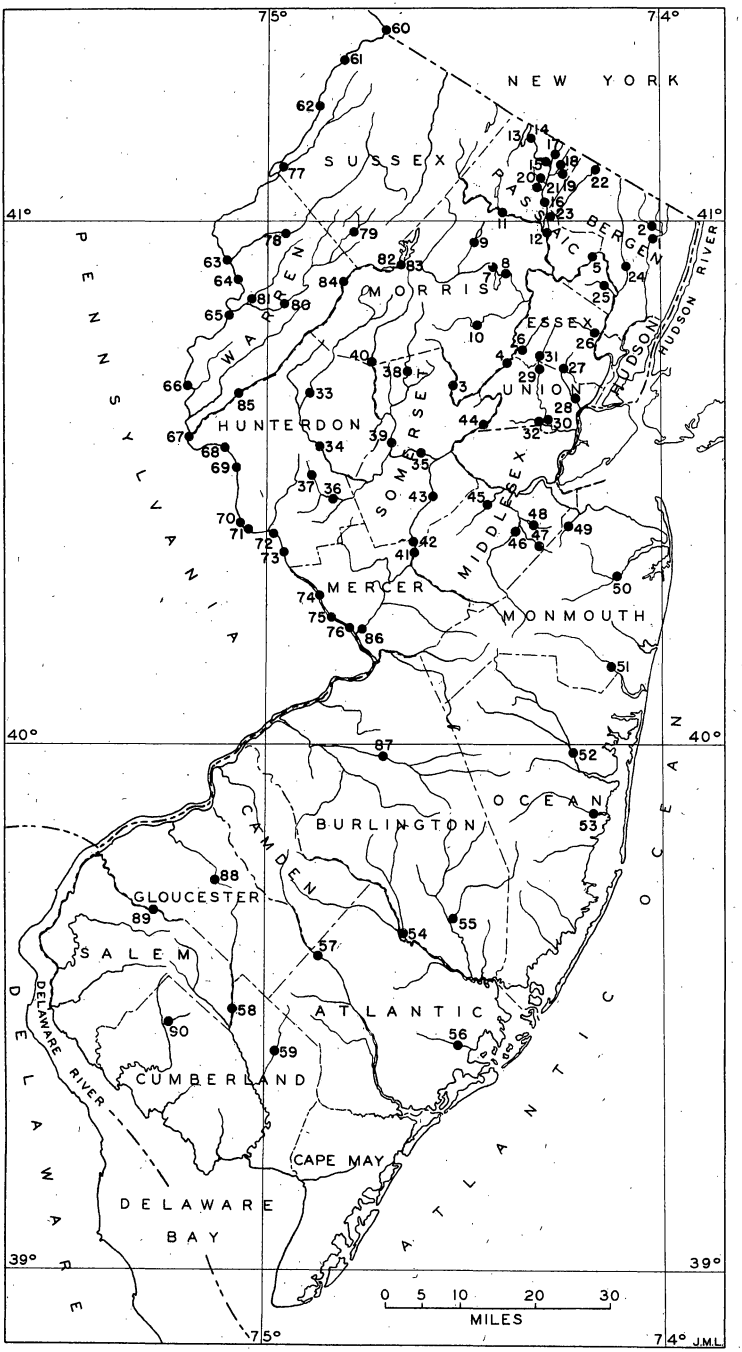
The present report assembles the records of New Jersey streams for the six-year period and makes a convenient reference for those who are in need of accurate information on the flow of streams in connection with problems on water works, dams, reservoirs, bridges, flood control works, drainage works and other projects.

I therefore recommend that this report of the Surface Water Supply of New Jersey be published as Special Report 9 of the Commission in order that information contained therein may be made available to the people of the State.

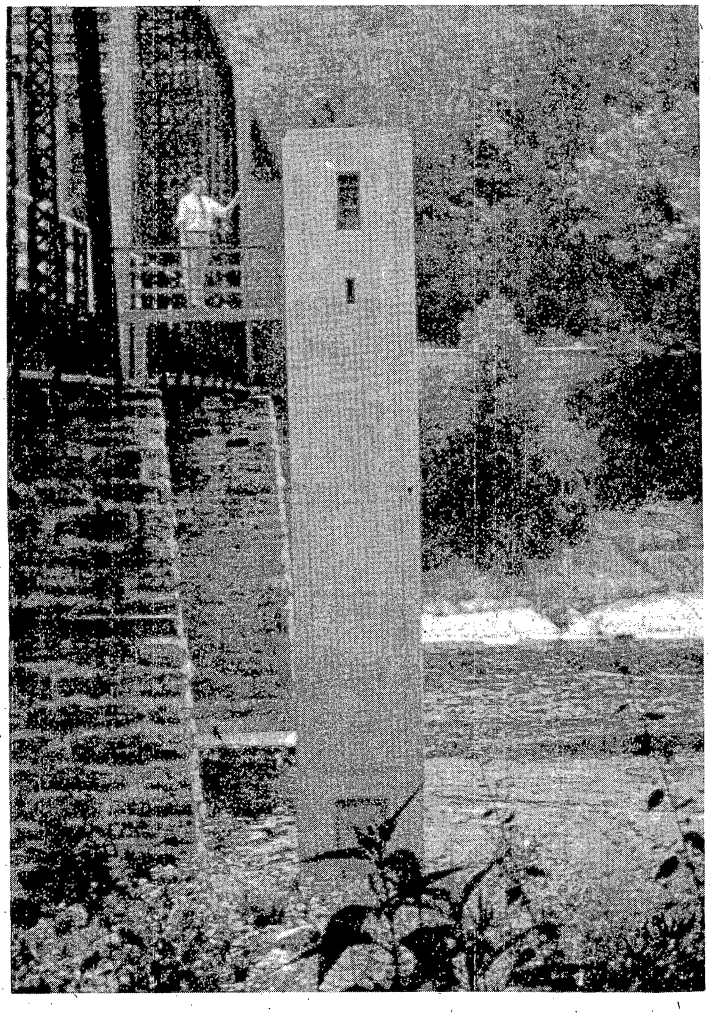
Respectfully submitted,
Howard T. Critchlow,
Engineer in Charge.

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Map Showing Location of Gaging Stations



Gaging Station on Delaware River at Montague

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STREAM FLOW RECORDS

OCTOBER 1, 1934 to SEPTEMBER 30, 1940

By O. W. Hartwell, District Engineer

INTRODUCTION

Stream-flow records are being collected in the State by the United States Geological Survey under a cooperative agreement with the State Water Policy Commission which has been in force since the organization of the Commission in July 1929. Prior to that time the records were obtained in cooperation with the State Department of Conservation and Development, beginning in 1921. Many other Federal and State departments and commissions, municipalities, water companies, power companies, industries, and other private parties have also furnished data or rendered valuable assistance.

The purpose of this report is to present in one volume the records of stream flow for streams in New Jersey that were made during the period October 1, 1934, to September 30, 1940. Records to September 30, 1928, are published in Bulletin 33 of the State Department of Conservation and Development and those for October 1, 1928, to September 30, 1934, are published in Special Report 5 of the State Water Policy Commission. A few records for periods prior to October 1, 1934, that have not been published in previous State reports, are included in this report.

Records, in greater detail than presented in this report, for some of the gaging stations for the floods of March 1936 and September 1938 are published in Water Supply Papers 799 and 867 of the United States Geological Survey. Records for the following stations that are not published in State reports may be found in Water Supply Papers of the United States Geological Survey:

Passaic River at Two Bridges (Mountain View), 1901-3

Rockaway River near Boonton, 1903-4

Pompton River at Two Bridges (Mountain View), 1901-3

Raritan River at Bound Brook, 1903-9

North Branch of Raritan River near Pluckemin, 1903-6

Paulins Kill at Columbia, 1908-9

STREAM GAGING

The records for 90 gaging stations in New Jersey are presented in this report. Fifty-seven of the stations were in operation on October 1, 1934. During the period of this report, 33 gaging stations were established or re-established and 4 stations were discontinued. On September 30, 1940, the end of the period covered by this report, 86 gaging stations were being operated.

Records of discharge are presented for 74 gaging stations; all of these stations were equipped with water-stage recorders. For the remaining 16 gaging stations, records of gage heights are presented; 3 of these stations were equipped with water-stage recorders, 12 with wire-weight gages, and one with a staff gage.

Records for the station on Crosswicks Creek at Extonville, that was established on August 10, 1940, are not published in this report and the station is not included in the enumeration above.

DEFINITION OF TERMS

The units in which stream-flow data are presented in this report and other items used herein are defined as follows:

"Second-feet" is an abbreviation for "cubic feet per second". A second-foot is the rate of discharge of a stream whose channel is 1 square foot in cross-sectional area and whose average velocity

is 1 foot per second. It is equivalent to a discharge of 646,317 gallons per day.

"Second-feet per square mile" is the average number of cubic feet of water flowing per second from each square mile of area drained, on the assumption that the run-off is distributed uniformly both as regards time and area.

"Run-off in inches" is the depth to which an area would be covered if all the water draining from it in a given period were uniformly distributed on its surface. It is used for comparing run-off with rainfall, which is usually expressed in inches.

"Second-foot-day" is the volume of water represented by a flow of 1 second-foot for 24 hours. It is equivalent to 86,400 cubic feet or 646,317 gallons and represents a run-off of 0.0372 inch from 1 square mile.

"Stage-discharge relation" is an abbreviation for the term "relation between gage height and discharge".

"Control" is a term used to designate a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural section, a reach of the channel, or an artificial structure.

EXPLANATION OF DATA

Run-off data are given in many reports by water years ending September 30. At the beginning of January much of the precipitation in the preceding three months has been stored in the form of snow or ice, or in ponds, lakes, and swamps, or as ground water, and this stored water reaches the streams some time later, much of it during the spring break-up. At the end of September, on the other hand, the only stored water available for run-off is possibly a small quantity in the ground; therefore the run-off for the year beginning October 1 is practically all derived from precipitation within that year. In this report the annual discharge and run-off figures are given for both years ending September 30 and December 31.

The base data collected at most of the gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the records of stage and discharge measurements in determining the daily flow. The records of stage are obtained either from direct readings on a staff or wire-weight gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of discharge are made with a current meter by the general methods which have been developed by the United States Geological Survey and are outlined in standard textbooks on the measurement of river discharge.

Rating curves and rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily mean gage height to these rating tables gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the "shifting-control method", in which correction factors based on individual discharge measurements are used in applying the gage heights to the rating table.

At many gaging stations in New Jersey the stage-discharge relation is affected by ice during the winter, which makes it impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and engineers, and records of discharge for stations which are not affected by ice in the same or comparable basins. The days included in the periods of ice effect are indicated in the tables by symbols referring to footnotes.

For most of the gaging stations the data presented comprise a description of the station, tables showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-

off. For some of the stations the data comprise only a station description and tables showing the daily gage heights of the stream.

The description of the station gives the type of gage, its latitude and longitude determined from the best available maps, the size of the drainage area, length of record available, and information in regard to diversions that decrease the flow at the gage, and artificial regulation from pondage or storage. Under "Average discharge" is given the average discharge for the number of years indicated. It is given only for stations for which there are 5 or more complete years of record. Under "Extremes" are generally given for the period indicated the maximum discharge and gage height; the minimum discharge; the minimum daily discharge if there is extensive regulation; and the minimum gage height (unless it is of no importance). Unless otherwise qualified, the maximum discharge and gage height corresponds to the crest stage, obtained by use of a water-stage recorder or a nonrecording gage read at the time of the crest. Likewise the minimum discharge and gage height represents the lowest stage unless qualified. Selected peak discharges and gage heights with the times of their occurrence are given for the period covered by this report. This supplementary information is generally omitted for stations having drainage areas of less than 10 square miles or if the peak discharges usually exceeded the corresponding mean discharge for the day by less than 10 percent.

The table of daily discharge gives the discharge corresponding to the daily mean gage height, except those on streams subject to sudden or rapid fluctuation. For stations subject to such fluctuation the daily mean gage height may not indicate the true daily mean discharge, which must be obtained by averaging the discharge for parts of the day or by using the discharge integrator, an instrument for obtaining the daily mean discharge from a continuous gage-height graph and containing as an essential element a curve representing the stage-discharge relation.

In the table of monthly and annual discharge the column headed "Second-foot-days" gives the sum for each month of the figures given in the table of daily discharge. The column headed "Maximum" gives the maximum daily discharge and not the momentary discharge when the water surface was at crest stage. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" gives the average flow in cubic feet per second during the month. On this average flow are based computations recorded in the remaining columns. In special tables the columns headed "Observed" give the quantities as explained above; the columns headed "Adjusted" give the discharge adjusted for diversion and the effect of storage above the station.

The monthly mean for any station may represent with a high degree of accuracy the quantity of water flowing past the gage, but the figures showing the discharge per square mile and run-off in inches may be subject to errors caused by the inclusion of noncontributing districts in the measured drainage area, by lack of information concerning water diverted, by inability to interpret the effect of artificial regulation of the flow, by increase or decrease in evaporation due to artificial causes, or other factors.

ACKNOWLEDGMENTS

Valuable assistance was rendered or records furnished by the United States Geological Survey, Albany, N. Y.; United States Weather Bureau; Corps of Engineers, United States Army; North Jersey District Water Supply Commission; Delaware River Joint Toll Bridge Commission; Morris Canal & Banking Co.; Essex County Park Commission; Passaic County Park Commission; Union County Park Commission; Second River Joint Meeting; municipalities of Atlantic City, Irvington, Jersey City, Morristown, Newark, New Brunswick, Pompton Lakes, Princeton, and Trenton; Commonwealth Water Co.; E. I. du Pont de Nemours & Co.; Hackensack Water Co.; Jersey Central Power & Light Co.; Monmouth Consolidated Water Co.; Princeton University; Taylor-Wharton Iron & Steel Co.; and The Society for Establishing Useful Manufactures.

Since the beginning of the work in 1921, the writer had the advantage of the wise counsel and

hearty cooperation of H. T. Critchlow, Engineer in Charge, State Water Policy Commission, in connection with the establishment and maintenance of the gaging stations.

The voluminous computations required for reducing the field reports to these tables of discharge and the work of assembling material for this report were performed under the immediate supervision of Otto Lauterhahn, Associate Engineer. Mr. Lauterhahn was assisted by E. G. Barron, J. T. Tucker, R. W. Thompson, Jr., Everett Miller, R. H. Tice, A. C. Lendo, W. T. Sittner, J. M. Ludlow, Mrs. A. B. Savidge, and Miss H. P. Stidworthy.

GAGING-STATION RECORDS

Hackensack River at New Milford

Location.- Water-stage recorder above masonry dam, lat. 40°56'52", long. 74°01'34", at pumping plant of Hackensack Water Co., New Milford, Bergen County, 3½ miles downstream from Dwars Kill. Datum of gage is 6.25 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 113 square miles.

Records available.- October 1921 to September 1940.

Average discharge.- 19 years, 177 second-feet (adjusted for storage and diversions).

Extremes.- 1921-40: Maximum discharge, 2,800 second-feet Mar. 12 and 13, 1936 (gage height, 5.08 feet).

Peak gage height and discharge during period of this report.-
1936: Jan. 3 (1:30 p.m.) 3.17 ft., 1,200 sec.-ft.; Mar. 12-13 (10 p.m. to 2 a.m.) 5.08 ft., 2,800 sec.-ft.; Mar. 19 (noon) 3.40 ft., 1,410 sec.-ft.; Mar. 21 (10 a.m.) 3.23 ft., 1,260 sec.-ft.; Apr. 7 (5 a.m.) 3.36 ft., 1,360 sec.-ft.; Dec. 21 (2 a.m.) 3.13 ft., 1,200 sec.-ft.
1937: Oct. 20 (2 p.m.) 3.42 ft., 1,410 sec.-ft.
1938: Jan. 25 (6 p.m.) 3.50 ft., 1,490 sec.-ft.; June 28 (11 a.m.) 3.48 ft., 1,490 sec.-ft.; July 24 (11 a.m. to 2 p.m.) 4.51 ft., 2,350 sec.-ft.; Sept. 21 (6 p.m.) 4.72 ft., 2,190 sec.-ft.; Dec. 6 (2 a.m.) 3.13 ft., 1,200 sec.-ft.
1939: Feb. 3 (7 p.m.) 3.14 ft., 1,200 sec.-ft.; Feb. 28 (6 p.m.) 3.14 ft., 1,200 sec.-ft.
1940: Mar. 4 (6 p.m.) 3.23 ft., 1,260 sec.-ft.; Mar. 16 (1 a.m.) 4.01 ft., 1,930 sec.-ft.; Apr. 9 (2 p.m.) 3.79 ft., 1,740 sec.-ft.; June 1 (3 a.m.) 3.41 ft., 1,420 sec.-ft.

Remarks.- Figures of daily discharge represent only flow over waste weirs. Flow regulated by Oradell Reservoir, 1 mile above station (capacity, 381,000,000 cubic feet) and Woodcliff Lake, 9 miles above station (capacity, 112,000,000 cubic feet). Water for municipal supply diverted at New Milford and at West Nyack, N. Y.

Cooperation.- Gage-height record collected in cooperation with Hackensack Water Co. and records of diversions and storage furnished by that company.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	881	61	433	185	50	216	111	90	0	73	0	0
2	253	58	260	353	45	188	80	38	0	37	0	0
3	211	64	135	226	48	241	104	50	0	18	0	0
4	109	155	216	115	48	329	98	64	0	3	0	0
5	183	207	256	104	55	169	85	79	0	0	0	25
6	676	222	202	86	61	192	128	96	0	0	0	58
7	500	266	139	86	64	325	110	156	0	0	0	61
8	236	178	104	104	54	309	58	160	0	0	0	3
9	134	178	104	168	90	156	375	160	0	0	0	0
10	135	165	100	226	48	169	77	119	17	34	0	0
11	165	139	72	261	40	197	139	80	52	9	0	0
12	169	139	36	182	16	314	135	53	28	0	0	0
13	81	126	10	96	36	440	183	42	29	0	0	0
14	23	104	9	151	272	358	236	55	17	0	0	0
15	39	77	22	132	532	298	192	53	4	0	0	0
16	53	37	42	104	407	211	122	31	0	0	0	0
17	53	44	42	96	614	165	96	28	0	0	0	0
18	55	61	45	77	580	188	96	24	24	0	0	0
19	67	64	310	67	422	207	53	18	39	0	0	1
20	58	77	450	72	364	197	60	3	71	0	0	1
21	55	113	246	130	190	207	93	0	53	0	0	0
22	91	130	183	167	80	221	93	1	61	4	0	0
23	75	100	183	231	194	183	111	0	62	27	0	0
24	37	64	152	126	151	165	61	0	28	82	0	0
25	61	64	111	31	207	156	64	0	28	102	0	0
26	147	75	121	68	341	135	42	2	3	87	0	0
27	192	96	174	115	364	115	30	0	50	0	0	0
28	188	93	101	115	192	136	40	0	63	0	0	0
29	143	73	86	86	-	261	55	0	11	0	0	0
30	85	186	122	64	-	207	90	0	39	0	0	0
31	61	-	122	61	-	169	-	0	-	0	0	-

Hackensack River at New Milford--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	35	158	248	96	4.2	14.9	0	0
2	0	0	8.1	0	41	172	195	85	0	6.2	0	0
3	0	0	65	500	41	209	322	138	0	0	0	0
4	0	0	77	651	48	224	298	401	0	0	0	0
5	0	0	29	323	50	284	204	243	0	0	0	0
6	0	0	0	172	50	284	982	150	0	0	0	0
7	0	0	1.3	248	37	224	1 160	158	0	0	0	0
8	0	0	5.6	172	19.4	152	810	133	0	0	0	0
9	0	0	3.3	490	10.5	78	540	104	0	0	0	0
10	0	0	5.7	492	8.8	390	553	55	0	0	0	0
11	0	0	18.6	251	14.2	1 060	580	53	0	0	0	0
12	0	0	25	172	15.6	2 270	507	78	0	0	0	0
13	0	1.2	25	195	42	2 610	444	147	53	0	0	0
14	0	0	21	216	166	1 900	444	388	322	.4	0	0
15	0	0	20	230	303	1 080	413	128	248	0	0	0
16	0	0	31	383	314	680	366	90	117	0	0	0
17	0	0	54	263	298	491	310	65	85	0	0	0
18	0	.5	57	290	82	871	253	59	255	.3	0	0
19	0	0	36	225	96	1 320	209	64	196	2.8	0	0
20	0	0	9.8	203	78	1 110	199	67	100	0	0	0
21	0	0	0	116	56	1 150	199	52	358	0	0	0
22	0	0	0	108	43	872	195	43	158	0	0	0
23	0	0	0	120	33	319	141	30	69	0	0	0
24	0	0	0	104	28	43	104	26	60	0	0	0
25	0	0	0	78	45	227	108	12.9	44	0	0	0
26	0	0	0	68	71	241	150	2.8	21	0	0	0
27	0	0	0	55	115	292	141	21	25	0	0	0
28	0	0	0	33	133	430	89	24	24	0	0	0
29	0	0	0	31	137	425	102	13.6	18.6	0	0	0
30	0	0	0	33	-	338	129	8.6	18.0	0	0	0
31	0	-	0	31	-	263	-	5.6	-	0	0	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	4.2	3.6	238	508	124	108	182	59	48	0	29
2	0	0	0	248	676	124	88	157	65	40	0	58
3	0	0	135	392	114	116	96	104	62	15.4	0	38
4	0	0	76	332	96	112	133	63	65	24	0	38
5	0	3.8	74	248	284	112	133	53	50	28	0	64
6	0	39	100	190	150	112	474	127	36	23	0	37
7	0	48	258	274	137	112	360	578	62	11.4	0	29
8	0	48	184	253	199	116	222	259	56	2.4	0	24
9	0	51	71	243	172	133	289	225	45	.8	0	22
10	0	52	136	253	154	141	269	173	38	0	0	9.2
11	0	50	284	210	154	112	248	122	43	0	0	14.2
12	0	53	444	163	142	92	146	107	22	2.0	0	13.0
13	0	34	228	158	108	68	108	88	10.2	.2	0	499
14	0	27	167	129	275	80	116	349	18.6	3.0	0	854
15	0	10.4	124	328	322	190	186	1 060	31	120	0	262
16	0	.2	124	316	253	354	186	681	26	66	0	204
17	92	18.2	214	248	104	284	116	533	17.4	18.4	0	199
18	500	18.8	186	635	100	219	59	433	21	28	0	154
19	196	21	76	518	164	224	124	342	24	17.2	0	124
20	90	8.0	931	332	92	258	72	235	19.0	2.4	0	94
21	74	.3	846	332	98	488	117	178	37	6.4	0	36
22	78	0	344	482	842	316	582	137	494	2.2	3.6	49
23	81	0	401	720	753	258	428	150	158	0	390	.4
24	53	13.8	270	684	494	214	290	178	116	0	395	0
25	17.4	18.6	199	918	386	181	225	122	64	0	269	.4
26	11.6	22	163	782	289	243	230	119	53	0	305	.2
27	19.2	20	137	278	199	186	444	112	59	0	289	.2
28	50	20	137	284	181	145	349	104	62	0	243	0
29	41	9.6	133	384	-	158	230	96	56	0	145	0
30	29	0	120	196	-	154	225	62	48	0	124	.8
31	23	-	188	358	-	129	-	56	-	0	78	-

Hackensack River at New Milford--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	88	431	108	251	50	124	62	33	407	204	28
2	0	88	354	129	163	48	124	41	20	360	114	23
3	0	73	214	167	163	76	96	41	98	258	36	15.9
4	0	38	186	133	233	88	50	38	70	172	108	12.7
5	0	38	158	104	233	195	14.4	29	65	104	120	10.5
6	0	38	158	81	214	176	5.6	31	37	78	129	4.3
7	0	38	365	438	312	129	165	31	59	65	124	4.6
8	0	38	274	580	300	96	198	27	411	40	210	13.0
9	0	38	190	344	238	70	526	11.9	103	37	342	5.6
10	0	38	137	163	238	50	462	43	36	92	137	1.7
11	0	38	112	186	219	a50	316	56	255	63	752	2.2
12	0	41	112	219	176	a53	263	48	208	96	281	2.1
13	0	580	84	163	163	a65	195	37	290	155	120	.3
14	0	760	50	120	163	a228	141	22	514	181	120	0
15	0	331	50	120	123	295	92	615	224	343	78	.7
16	0	190	64	78	196	209	92	466	154	163	12.2	14.6
17	0	190	219	71	120	209	92	228	65	120	15.6	12.9
18	0	195	425	88	120	209	198	233	78	87	15.6	10.2
19	1.3	154	407	92	120	209	540	141	104	180	32	151
20	637	96	263	92	229	190	269	116	78	223	36	609
21	389	150	228	88	258	141	186	85	48	466	35	1 650
22	195	150	190	88	176	92	186	81	45	1 150	33	2 000
23	163	116	129	96	176	71	141	129	38	1 900	30	1 260
24	204	96	145	124	195	71	88	133	22	2 160	26	781
25	176	96	228	1 040	219	71	85	a181	60	1 010	13.5	515
26	116	96	209	1 120	137	74	85	a116	109	656	12.0	232
27	104	96	137	a614	133	78	65	a253	469	580	12.9	199
28	175	445	137	a469	141	74	62	154	1 110	475	14.1	195
29	248	794	133	a295	-	74	62	88	647	383	12.8	158
30	190	546	120	190	-	71	65	81	431	322	10.0	74
31	110	-	96	262	-	85	-	33	-	289	7.4	-

a Discharge computed on basis of partial gage-height record.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	89	116	133	200	887	366	195	15.2	21	0	0
2	78	62	112	104	243	635	782	145	8.3	19.4	0	0
3	78	62	116	100	683	450	670	116	1.8	0	0	0
4	74	63	415	104	942	360	450	62	0	0	0	0
5	74	44	731	104	420	366	401	54	1.4	0	0	0
6	127	32	1 150	475	571	471	444	104	0	0	0	0
7	143	29	881	594	450	344	824	104	0	0	0	0
8	54	28	735	494	305	310	635	62	0	0	0	0
9	33	172	566	316	284	310	553	88	0	0	0	0
10	34	92	475	284	354	310	438	167	0	0	0	0
11	48	92	384	214	533	274	360	120	.4	0	0	0
12	55	92	322	172	372	322	305	88	.4	0	0	0
13	55	64	233	167	366	289	152	59	0	0	0	0
14	56	40	233	150	366	349	195	80	.3	0	0	0
15	56	42	209	120	450	425	263	63	0	0	0	0
16	56	41	154	100	642	780	224	42	0	0	0	0
17	55	43	150	108	419	699	224	50	0	0	0	0
18	37	42	150	120	372	540	305	47	0	0	0	0
19	25	110	150	124	354	419	481	35	0	0	0	0
20	25	238	150	120	322	344	540	31	0	0	0	0
21	111	204	145	120	300	199	507	36	0	0	0	0
22	78	92	118	100	295	206	425	77	0	0	0	0
23	78	88	56	108	263	224	349	76	0	1.0	0	0
24	336	81	78	108	172	209	248	78	0	0	.3	0
25	263	118	112	88	167	214	142	42	0	.3	0	0
26	94	163	116	85	410	228	115	36	0	.1	0	0
27	48	120	449	50	96	228	190	35	0	0	0	0
28	81	158	277	45	740	401	190	34	0	0	0	0
29	91	204	141	50	-	378	199	12.4	.1	0	0	0
30	116	172	224	342	-	384	209	16.0	0	0	0	0
31	116	-	195	464	-	425	-	12.6	-	0	0	-

Hackensack River at New Milford--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	32	399	162	1 180	112	0	346
2	0	0	0	0	0	28	284	273	720	93	5.4	89
3	0	0	0	0	0	40	284	316	628	36	0	0
4	0	0	0	0	0	612	305	295	438	137	0	44
5	0	0	0	0	0	721	279	243	327	105	0	35
6	0	0	0	0	0	269	195	195	240	58	0	15.9
7	0	0	0	0	0	307	176	158	141	30	0	14.4
8	0	0	0	0	0	368	417	145	116	22	0	.2
9	0	0	0	0	0	159	1 640	137	116	21	0	0
10	0	0	0	0	0	57	959	137	120	15.0	0	6.5
11	0	0	0	0	0	239	587	112	116	21	0	3.3
12	0	0	0	0	0	224	687	129	108	89	0	0
13	0	0	0	0	0	219	770	112	80	48	0	0
14	0	0	0	0	24	214	628	124	89	15.2	0	0
15	0	0	0	47	133	1 540	522	85	48	1.2	0	0
16	0	0	0	215	133	1 340	390	287	81	19.9	0	0
17	0	0	0	199	49	694	279	762	65	27	0	0
18	0	0	0	158	8.8	605	305	391	30	12.1	0	0
19	0	0	0	214	72	370	239	253	46	3.6	0	0
20	0	0	0	197	228	214	673	209	37	.5	0	68
21	0	0	0	62	146	309	794	172	2.7	2.4	0	145
22	0	0	0	10.0	65	366	871	163	.5	1.3	0	41
23	0	0	0	0	48	224	614	258	18.7	0	0	.3
24	0	0	0	0	47	219	500	157	190	0	0	0
25	0	0	0	0	48	214	344	137	204	.6	0	0
26	0	0	0	0	45	188	243	186	245	.4	0	0
27	0	0	0	0	41	133	190	154	281	0	0	0
28	0	0	0	0	41	104	195	252	115	0	299	0
29	0	0	0	0	41	88	163	265	213	0	246	0
30	0	0	0	0	-	170	68	787	154	0	0	0
31	0	-	0	0	-	450	-	940	-	0	0	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	5 216	881	23	168	211	1.87	2.16
November	3 416	266	37	114	153	1.44	1.61
December	4 588	450	9	148	199	1.76	2.03
Calendar year 1934	54 892	1 380	0	150	203	1.80	24.34
January 1935	4 085	353	31	132	183	1.62	1.87
February	5 565	614	15	199	255	2.26	2.35
March	6 824	440	115	220	270	2.39	2.76
April	3 215	375	30	107	163	1.44	1.61
May	1 402	160	0	45.2	96.6	.855	.99
June	679	71	0	22.6	84.1	.744	.83
July	476	102	0	15.3	64.1	.567	.65
August	0	0	0	0	30.7	.272	.31
September	149	61	0	5.0	52.7	.466	.52
Water year 1934-35	35 615	881	0	97.6	147	1.30	17.69
October 1935	0	0	0	0	35.5	.314	.36
November	1.7	1.2	0	.1	91.6	.811	.90
December	492.4	77	0	15.9	67.5	.597	.69
Calendar year 1935	22 889.1	614	0	62.7	115	1.02	13.84
January 1936	6 253	651	0	202	251	2.22	2.56
February	2 410.5	314	8.8	83.1	99.7	.882	.95
March	20 167	2 610	43	651	741	6.56	7.56
April	10 395	1 160	89	346	403	3.57	3.98
May	2 941.5	401	2.8	94.9	148	1.31	1.51
June	2 175.8	358	0	72.5	130	1.15	1.28
July	24.6	14.9	0	.8	50.7	.449	.52
August	0	0	0	0	42.7	.378	.44
September	0	0	0	0	49.1	.435	.49
Water year 1935-36	44 861.5	2 610	0	123	176	1.56	21.24

* Adjusted for change in contents in Oradell Reservoir and Woodcliff Lake and for diversions at New Milford and West Nyack, N. Y.

Hackensack River at New Milford--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	1 355.2	500	0	43.7	112	0.991	1.14
November	590.9	53	0	19.7	71.3	.631	.70
December	6 753.6	931	0	218	270	2.39	2.76
Calendar year 1936	53 067.1	2 610	0	145	198	1.75	23.89
January 1937	11 126	918	129	359	400	3.54	4.08
February	7 446	842	92	266	324	2.87	2.99
March	5 555	488	68	179	234	2.07	2.39
April	6 653	582	59	222	277	2.45	2.73
May	7 185	1 060	53	232	289	2.56	2.95
June	1 917.2	494	10.2	63.9	120	1.06	1.18
July	458.8	120	0	14.8	65.6	.581	.67
August	2 241.6	395	0	72.3	134	1.19	1.37
September	2 852.4	854	0	95.1	140	1.24	1.38
Water year 1936-37	54 134.7	1 060	0	148	203	1.80	24.34
October 1937	2 708.3	637	0	87.4	137	1.21	1.40
November	5 675	794	38	189	240	2.12	2.36
December	6 005	431	50	194	246	2.18	2.51
Calendar year 1937	59 823.3	1 060	0	164	217	1.92	26.01
January 1938	7 862	1 120	71	254	300	2.65	3.06
February	5 409	312	120	193	244	2.16	2.25
March	3 597	295	48	116	174	1.54	1.78
April	4 988.0	540	5.6	166	219	1.94	2.16
May	3 650.9	615	11.9	118	170	1.50	1.73
June	5 881	1 110	20	196	252	2.23	2.49
July	12 615	2 160	37	407	451	3.99	4.60
August	3 193.1	752	7.4	103	164	1.45	1.67
September	7 986.3	2 000	0	266	314	2.78	3.10
Water year 1937-38	69 570.6	2 160	0	191	242	2.14	29.11
October 1938	2 653	336	25	85.6	132	1.17	1.35
November	2 877	238	28	95.9	146	1.29	1.44
December	9 343	1 130	56	301	353	3.12	3.60
Calendar year 1938	70 055.3	2 160	0	192	243	2.15	29.23
January 1939	5 663	594	45	183	231	2.04	2.35
February	11 091	942	96	396	449	3.97	4.13
March	11 980	887	199	386	437	3.87	4.46
April	11 186	824	115	373	431	3.81	4.25
May	2 187.0	195	12.4	69.9	129	1.14	1.31
June	27.9	15.2	0	.93	59.7	.528	.59
July	41.8	21	0	1.35	43.3	.383	.44
August	.3	.3	0	.01	51.3	.454	.52
September	0	0	0	0	32.8	.290	.32
Water year 1938-39	57 030.0	1 150	0	156	206	1.82	24.76
October 1939	0	0	0	0	45.7	.404	.47
November	0	0	0	0	77.0	.681	.76
December	0	0	0	0	60.2	.533	.61
Calendar year 1939	42 157.0	942	0	115	169	1.50	20.21
January 1940	1 102.0	215	0	35.5	108	.956	1.10
February	1 169.8	228	0	40.3	99.7	.882	.95
March	10 717	1 540	28	346	406	3.59	4.14
April	14 000	1 640	68	467	523	4.63	5.17
May	7 996	940	85	258	308	2.73	3.15
June	6 149.9	1 180	.5	205	264	2.34	2.61
July	871.2	137	0	28.1	86.3	.764	.88
August	550.4	299	0	17.8	72.7	.643	.74
September	808.6	346	0	27.0	78.1	.691	.77
Water year 1939-40	43 364.9	1 640	0	118	177	1.57	21.35

* Adjusted for change in contents in Oradell Reservoir and Woodcliff Lake and for diversions at New Milford and West Nyack, N. Y.

Pascack Brook at Westwood

Location.- Water-stage recorder and concrete control, lat. 40°59'33", long. 74°01'19", 75 feet upstream from Harrington Avenue in Westwood, Bergen County, and 500 feet downstream from Musquapsink Creek. Datum of gage is 28.62 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 29.6 square miles.

Records available.- September 1934 to September 1940.

Average discharge.- 6 years, 47.7 second-feet (adjusted for storage).

Extremes.- 1934-40: Maximum discharge, 1,190 second-feet Mar. 12, 1936 (gage height, 5.53 feet), from rating curve extended above 500 second-feet; minimum daily, 7.2 second-feet June 3 and 4, 1935.

Peak gage height and discharge during period of this report.-
1936: Mar. 12 (9 to 10 a.m.) 5.53 ft., 1,190 sec.-ft.
1937: May 15 (1 p.m.) 3.92 ft., 547 sec.-ft.
1938: Jan. 25 (9 p.m.) 4.14 ft., 636 sec.-ft.; July 24 (9 to 10 a.m.) 4.05 ft., 600 sec.-ft.; Sept. 22 (2 a.m.) 5.37 ft., 1 120 sec.-ft.; Dec. 6 (11 a.m.) 3.77 ft., 496 sec.-ft.
1940: Mar. 15 (5 p.m.) 4.81 ft., 893 sec.-ft.; Apr. 9 (11 a.m.) 4.12 ft., 625 sec.-ft.; June 1 (3 a.m.) 3.91 ft., 550 sec.-ft.

Remarks.- Flow regulated by Woodcliff Lake (capacity, 112,000,000 cubic feet), 3 miles above station.

Cooperation.- Gage-height record collected in cooperation with and storage record furnished by Hackensack Water Co.

Daily discharge, in second-feet, 1934-40

1934

Sept. 26	26	Sept. 29	48
27	24	30	310
28	21		

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	174	34	114	66	30	52	41	31	9.7	23	13.0	7.8
2	77	41	100	81	29	55	41	30	7.8	25	17.6	8.2
3	51	38	60	56	26	73	40	28	7.2	13.5	17.0	10.0
4	42	46	60	39	27	70	36	30	7.2	10.5	11.9	26
5	97	55	56	32	a30	60	36	34	8.2	13.0	11.4	42
6	141	70	46	28	a35	66	37	36	13.5	10.9	13.5	46
7	159	79	40	39	a35	68	35	47	13.5	13.0	10.5	38
8	90	55	36	48	a31	61	36	63	16.4	10.1	9.7	21
9	59	43	31	56	a29	52	59	63	52	14.2	9.3	17.0
10	43	39	25	70	29	52	74	44	43	28	8.9	18.8
11	50	40	28	73	30	60	61	25	29	25	10.9	14.6
12	40	35	21	51	27	89	54	17.0	20.0	17.0	10.1	15.2
13	27	31	23	40	23	109	64	22	17.0	17.6	11.4	13.5
14	30	35	25	39	24	89	63	27	16.4	12.4	10.1	10.9
15	32	31	25	29	97	67	50	25	16.4	12.4	11.9	10.1
16	32	25	26	32	127	61	43	18.8	11.9	13.5	8.9	11.9
17	32	29	31	31	142	60	41	22	10.5	18.2	7.8	9.3
18	32	28	31	35	122	55	39	16.4	25	16.4	8.9	8.5
19	31	30	53	29	84	51	38	17.0	40	15.8	8.2	9.3
20	29	24	129	35	72	60	36	17.6	35	28	7.8	10.1
21	28	31	80	41	59	66	35	17.0	27	30	8.2	9.7
22	34	31	51	59	50	67	34	11.4	21	22	8.5	8.9
23	36	25	41	59	51	55	34	10.1	18.8	20	10.5	10.1
24	31	39	38	47	49	49	31	10.1	14.6	25	8.5	8.5
25	30	37	35	38	56	44	28	9.7	13.0	21	7.8	8.2
26	35	33	46	39	92	42	24	9.3	11.9	23	7.8	8.5
27	49	30	55	35	93	39	23	8.9	17.8	19.4	7.8	8.5
28	42	25	42	34	63	47	23	8.5	34	16.4	8.5	8.9
29	34	32	38	31	-	73	22	8.2	26	14.1	8.2	8.9
30	25	50	39	31	-	60	32	7.8	26	13.0	8.5	8.9
31	27	-	32	31	-	46	-	8.5	-	10.1	8.5	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.

Pascack Brook at Westwood--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.5	43	41	13.5	21	51	83	49	21	17.0	10.1	11.4
2	9.3	35	29	14.1	21	50	88	46	17.0	15.8	9.3	10.9
3	8.5	27	23	175	20	51	120	50	18.2	15.2	8.8	18.2
4	8.5	17.0	21	191	20	56	95	110	11.4	14.6	8.5	15.2
5	8.5	14.6	16.4	75	23	59	76	93	10.5	15.2	10.1	11.4
6	8.9	13.0	14.1	44	22	54	298	61	10.5	18.0	25	11.9
7	10.9	13.5	15.8	37	18.8	50	307	50	12.2	13.5	19.7	10.5
8	8.5	17.0	13.5	32	18.0	49	159	47	10.9	12.4	11.9	10.5
9	8.5	12.4	18.8	58	22	51	114	42	10.5	11.9	9.7	9.3
10	9.7	13.5	19.4	127	21	68	142	37	10.9	16.4	9.7	8.9
11	15.8	14.1	18.8	82	21	a249	148	39	10.9	12.4	10.9	8.9
12	16.4	17.6	19.4	52	21	a951	127	39	11.9	10.9	10.1	8.9
13	16.4	16.4	19.4	47	22	a463	125	52	a48	10.5	10.1	8.9
14	20	22	16.4	46	29	205	139	97	a102	12.2	10.5	8.5
15	26	17.6	18.8	45	26	150	110	64	a91	12.4	11.4	8.5
16	26	17.0	25	89	24	135	102	46	50	10.1	14.6	8.9
17	26	42	25	73	33	120	90	34	31	9.3	10.9	9.3
18	18.5	46	23	50	46	257	81	31	45	14.0	9.7	28
19	8.9	39	21	48	44	392	78	34	54	41	9.3	53
20	8.5	36	17.0	48	43	242	73	34	38	25	9.3	36
21	8.5	28	16.4	34	42	263	72	30	96	25	8.9	24
22	9.3	24	11.9	37	41	227	68	33	60	17.0	8.9	18.8
23	9.3	25	12.4	32	41	137	63	24	36	14.1	15.3	22
24	9.3	21	12.4	32	40	116	60	23	27	27	50	20
25	8.9	18.8	11.9	31	42	114	55	22	24	22	27	10.9
26	8.9	15.2	12.4	31	47	102	55	21	27	15.2	22	9.7
27	8.9	15.8	13.0	26	54	105	54	25	20	13.5	14.6	9.3
28	9.3	26	12.4	28	54	174	50	27	21	12.4	10.9	9.7
29	8.9	69	11.9	26	51	135	51	17.6	19.4	11.9	16.7	10.5
30	15.2	60	11.9	25	-	99	51	19.4	17.0	11.9	31	14.1
31	43	-	12.4	25	-	90	-	21	-	10.5	16.4	-

a Faulty gage-height record; discharge computed on basis of recorder charts, gage height of crest stage, and records for Saddle River at Lodi.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	14.6	11.9	78	146	48	42	50	36	29	10.5	30
2	47	14.1	19.0	65	102	48	37	49	31	23	9.7	26
3	28	15.2	51	97	61	48	43	44	37	20	13.5	25
4	19.4	23	44	104	59	48	41	43	34	19.4	10.9	24
5	16.4	23	34	63	59	49	39	42	32	18.2	9.7	21
6	15.2	19.4	23	49	59	50	123	78	30	17.6	9.7	21
7	14.1	20	63	55	59	47	126	176	38	15.2	9.3	21
8	14.1	24	55	76	56	46	68	96	32	15.2	11.4	20
9	14.1	25	32	67	60	49	60	66	29	15.2	10.5	20
10	17.3	28	38	64	70	47	70	55	20	14.1	13.0	21
11	21	18.2	47	68	61	46	58	49	22	16.4	30	25
12	15.2	15.8	79	56	51	43	50	47	25	15.9	87	25
13	11.4	21	58	51	50	42	44	40	22	21	81	69
14	61	16.4	40	48	72	36	43	125	25	18.8	46	200
15	31	15.8	27	71	89	47	46	476	26	40	26	335
16	17.6	19.4	25	100	66	82	49	214	23	44	14.1	246
17	134	13.0	50	73	54	89	43	104	21	34	11.9	42
18	159	15.8	52	152	49	76	41	97	25	20	13.5	41
19	73	15.8	38	120	47	73	41	82	22	15.2	15.2	40
20	43	14.1	260	81	46	70	35	74	23	13.5	10.9	15.6
21	25	14.1	236	78	49	114	49	67	37	15.8	10.9	11.4
22	25	14.6	87	123	242	92	155	60	142	12.4	37	10.9
23	21	14.1	54	181	178	61	137	66	81	10.5	240	10.5
24	20	15.2	47	131	92	51	81	60	39	10.5	180	10.5
25	15.2	14.1	46	188	73	60	59	51	24	10.1	68	10.5
26	16.4	17.0	44	170	64	73	51	47	19.4	10.9	43	14.1
27	22	22	44	105	59	59	78	46	22	17.6	39	12.4
28	16.4	15.8	44	82	51	51	122	44	28	15.2	42	15.8
29	14.1	13.5	41	78	-	47	97	44	27	10.1	36	19.4
30	15.8	13.0	40	78	-	43	59	42	24	9.3	28	14.6
31	18.2	-	52	93	-	42	-	39	-	11.4	21	-

Pascack Brook at Westwood--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14.1	28	78	42	79	36	43	34	h20	54	56	28
2	16.4	25	60	44	60	38	43	33	h18.2	46	56	18.8
3	17.0	29	52	46	55	44	38	35	h42	41	a49	20
4	14.6	26	48	42	74	35	32	26	h44	28	a43	15.8
5	15.2	19.4	47	40	64	36	28	30	a35	28	a46	15.2
6	25	21	65	39	58	63	34	a25	h28	23	47	19.4
7	20	22	98	129	95	56	37	a24	h24	25	41	15.2
8	19.4	23	72	155	82	47	54	a22	h61	20	47	20
9	21	24	55	78	63	42	154	a23	h51	30	54	14.6
10	16.4	23	47	52	67	40	146	a35	a32	37	47	11.4
11	14.6	24	41	46	58	38	79	a30	49	35	116	14.1
12	17.0	21	36	43	50	39	58	a26	56	54	90	11.9
13	18.2	108	28	44	55	34	50	a22	74	81	51	17.0
14	18.2	234	28	43	68	54	47	26	81	60	39	14.6
15	13.5	106	28	41	58	74	43	219	57	54	a29	27
16	14.1	66	40	41	47	60	42	171	32	42	a32	18.2
17	14.1	49	66	40	42	76	38	72	32	32	a28	15.8
18	14.1	44	118	40	42	70	63	44	34	28	a27	19.4
19	18.8	39	102	36	52	55	137	31	32	38	a33	49
20	115	38	68	27	79	48	87	a34	24	55	24	195
21	113	49	56	36	66	46	61	h28	23	135	24	562
22	61	46	49	40	51	43	54	a40	17.0	313	32	808
23	47	39	47	32	52	42	49	h54	20	339	24	232
24	42	30	44	44	70	38	43	h47	20	518	26	102
25	37	34	55	416	61	40	42	h46	18.2	209	19.4	67
26	30	29	56	355	50	38	39	h38	36	112	23	54
27	23	35	47	a104	48	35	34	h70	142	85	17.6	49
28	58	122	43	a64	44	37	40	a60	362	74	17.0	47
29	79	318	41	a50	-	30	35	a40	172	72	22	43
30	51	129	38	50	-	35	38	a35	82	93	17.0	41
31	37	-	39	67	-	40	-	h28	-	70	17.0	-

a Fragmentary or no gage-height record; discharge computed on basis of records for Saddle River at Lodi.
h Computed on basis of daily staff-gage reading.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	26	39	42	90	271	100	70	a19	59	11.9	17.6
2	38	24	37	43	61	142	240	61	a17	33	10.1	13.0
3	36	28	35	44	149	102	190	59	17.0	21	9.3	10.5
4	35	24	103	43	281	92	110	54	14.6	17.6	11.4	9.7
5	32	28	221	43	125	104	90	50	17.6	14.1	10.1	10.5
6	32	34	452	175	87	135	122	a54	18.8	12.4	8.9	9.3
7	48	27	201	154	81	120	289	a56	16.4	14.1	8.2	8.2
8	42	30	102	87	78	89	152	a52	15.8	17.0	8.2	11.8
9	35	39	92	64	81	81	110	a60	17.6	16.4	9.3	14.1
10	28	39	109	59	89	85	100	a72	15.8	12.4	10.9	11.4
11	30	40	92	59	139	76	97	a62	14.1	10.9	9.3	10.1
12	31	42	78	52	122	79	112	a50	14.6	10.5	8.2	9.3
13	30	31	68	49	93	90	97	41	15.2	10.5	8.2	8.9
14	23	29	61	51	90	93	82	28	37	13.3	8.2	8.5
15	29	25	56	48	115	104	79	28	33	13.3	7.5	8.2
16	24	25	49	47	184	223	76	33	23	17.6	7.5	8.2
17	30	32	48	47	100	199	72	31	18.2	a11	7.8	8.2
18	25	26	51	46	82	129	105	25	15.8	8.5	7.8	8.2
19	30	31	54	44	84	100	164	a30	14.6	8.5	9.8	7.8
20	30	66	50	43	87	92	250	a26	15.8	8.5	30	7.8
21	58	52	48	42	89	82	127	a27	16.4	8.2	23	10.1
22	49	38	46	44	84	79	98	34	15.8	8.2	14.6	8.9
23	36	36	41	43	72	78	89	36	16.4	8.2	11.9	8.2
24	32	40	42	41	63	78	79	37	18.2	8.9	18.2	7.8
25	46	41	42	41	59	78	a74	a34	15.8	8.5	24	7.5
26	39	30	41	35	118	78	a72	a29	13.0	8.5	18.8	7.8
27	34	36	110	36	233	73	a82	a20	12.4	9.7	13.5	8.2
28	31	36	110	31	178	122	a92	a20	12.4	20	10.9	8.2
29	35	38	67	25	-	125	84	a22	13.0	21	10.1	7.8
30	35	39	49	85	-	107	76	a20	40	16.4	14.6	8.9
31	25	-	43	138	-	131	-	a17	-	13.5	14.1	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for Saddle River at Lodi.

Pascack Brook at Westwood--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.7	51	10.5	a10	8.0	18.4	116	64	398	46	17.8	46
2	14.2	36	13.6	a9	9.5	17.8	71	76	164	37	15.4	69
3	19.0	19.7	18.4	a9	9.0	22	60	96	107	26	13.1	47
4	23	19.0	17.8	a9	9.0	89	93	87	74	41	12.0	35
5	15.4	33	16.0	a9	9.0	107	87	71	78	50	12.0	22
6	11.0	60	14.8	a9	10.0	81	64	56	66	41	12.5	15.4
7	9.5	46	13.6	a9	12.5	74	54	51	55	28	13.1	17.2
8	8.5	30	15.3	a9	12.0	62	104	44	48	22	a14	17.2
9	8.5	19.0	30	a9	11.5	56	517	45	46	28	18.4	14.8
10	8.5	19.7	17.2	a9	13.6	60	207	47	46	19.7	17.2	21
11	9.0	16.0	21	a9	25	48	112	45	58	19.0	11.5	15.4
12	8.0	13.1	17.8	9.5	26	41	124	46	48	36	10.0	12.5
13	8.5	12.5	16.0	10.0	21	30	236	41	42	44	9.5	11.0
14	8.0	18.4	18.4	27	17.8	46	162	38	31	35	9.5	11.0
15	8.5	13.6	16.0	261	b18	632	114	35	37	22	9.5	12.5
16	7.6	11.5	14.8	172	17.2	374	96	67	38	26	9.5	12.0
17	7.6	11.0	14.8	55	15.4	121	93	f200	28	19.7	10.5	10.5
18	8.0	10.0	14.2	b24	14.8	96	94	122	28	20	12.0	10.5
19	8.0	10.5	13.6	b18	24	98	98	55	34	21	17.8	13.1
20	8.0	12.5	18.4	b16	44	117	142	39	26	17.8	21	11.0
21	8.0	12.0	27	b14	40	109	256	35	26	24	16.6	13.6
22	17.2	11.5	24	b13	37	87	221	34	22	17.2	13.6	13.6
23	16.0	9.5	18.4	b12	31	74	139	39	28	13.6	14.0	10.5
24	12.5	10.5	14.8	b11	27	60	109	38	53	13.1	14.2	10.0
25	12.0	11.0	12.0	b9	24	50	96	31	85	14.2	11.5	39
26	15.4	10.5	11.0	b8	22	42	85	34	95	16.0	19.3	42
27	10.5	10.0	a10	b8	19.7	42	81	40	115	24	19.7	35
28	12.5	10.0	a10	b8	19.0	46	74	47	66	23	81	20
29	12.5	9.5	a10	7.6	19.0	55	67	58	69	18.4	104	14.8
30	17.6	9.5	all	7.6	-	71	64	36	56	16.1	61	13.1
31	38	-	all	8.5	-	146	-	239	-	21	42	-

a No gage-height record; discharge computed on basis of weather records and records for Saddle River at Lodi.
b Stage-discharge relation affected by ice.
f Computed on basis of partly estimated gage-height record.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	1 639	174	25	52.9	48.5	1.64	1.89
November	1 141	79	24	38.0	38.6	1.30	1.45
December	1 457	129	21	47.0	46.5	1.57	1.81
Calendar year	-	-	-	-	-	-	-
January 1935	1 354	81	28	43.7	43.7	1.48	1.71
February	1 562	142	23	55.8	56.4	1.91	1.99
March	1 898	109	39	61.2	61.0	2.06	2.38
April	1 210	74	22	40.3	40.1	1.35	1.51
May	723.3	63	7.8	23.3	24.9	.841	.97
June	609.8	52	7.2	20.3	21.5	.726	.81
July	551.5	30	10.1	17.8	17.5	.591	.68
August	311.6	17.6	7.8	10.0	9.78	.330	.38
September	437.3	46	7.8	14.6	14.6	.493	.55
Water year 1934-35	12 894.5	174	7.2	35.3	35.1	1.19	16.15
October 1935	411.8	43	8.5	13.3	11.1	.375	.43
November	776.5	69	12.4	25.9	25.9	.875	.98
December	554.8	41	11.9	17.9	17.6	.595	.69
Calendar year 1935	10 400.6	142	7.2	28.5	28.5	.963	13.08
January 1936	1 673.6	191	13.5	54.0	54.2	1.83	2.11
February	927.8	54	18.0	32.0	28.9	.976	1.05
March	5 265	951	49	170	173	5.84	6.73
April	3 134	307	50	104	104	3.51	3.92
May	1 318	110	17.6	42.5	42.0	1.42	1.64
June	962.3	102	10.5	32.1	34.9	1.18	1.32
July	488.3	41	9.3	15.8	15.8	.534	.62
August	451.3	50	8.5	14.6	14.6	.493	.57
September	446.1	53	8.5	14.9	15.4	.520	.58
Water year 1935-36	16 409.5	951	8.5	44.8	44.9	1.52	20.64

* Adjusted for change in contents in Woodcliff Lake.

Pascack Brook at Westwood--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	1 010.9	159	11.4	32.6	29.4	0.993	1.14
November	525.0	28	13.0	17.5	17.5	.591	.66
December	1 781.9	260	11.9	57.5	58.3	1.97	2.27
Calendar year 1936	17 984.2	951	8.5	49.1	49.2	1.66	22.61
January 1937	2 845	188	48	91.8	92.6	3.13	3.61
February	2 124	242	46	75.9	74.6	2.52	2.62
March	1 777	114	36	57.3	57.3	1.94	2.24
April	1 987	155	35	66.2	66.2	2.24	2.50
May	2 573	476	39	83.0	83.0	2.80	3.23
June	996.4	142	19.4	33.2	32.9	1.11	1.24
July	559.5	44	9.3	18.0	17.8	.601	.69
August	1 148.7	240	9.3	37.1	37.3	1.26	1.45
September	1 395.7	333	10.5	46.5	46.3	1.56	1.74
Water year 1936-37	18 724.1	476	9.3	51.3	51.0	1.72	23.39
October 1937	1 014.7	115	13.5	32.7	33.0	1.11	1.28
November	1 800.4	318	19.4	60.0	60.6	2.05	2.29
December	1 692	118	28	54.6	54.3	1.83	2.11
Calendar year 1937	19 913.4	476	9.3	54.6	54.5	1.84	25.00
January 1938	2 326	416	27	75.0	75.3	2.54	2.93
February	1 690	95	42	60.4	60.1	2.03	2.11
March	1 409	76	30	45.5	45.2	1.53	1.76
April	1 688	154	28	56.3	56.3	1.90	2.12
May	1 448	219	22	46.7	46.7	1.58	1.82
June	1 718.4	362	17.0	57.3	57.6	1.95	2.18
July	2 831	518	20	91.3	91.3	3.08	3.55
August	1 194.0	116	17.0	38.5	38.2	1.29	1.49
September	2 565.4	808	11.4	85.5	85.8	2.90	3.24
Water year 1937-38	21 376.9	808	11.4	58.6	58.6	1.98	26.88
October 1938	1 067	58	23	34.4	34.1	1.15	1.33
November	1 032	66	24	34.4	34.4	1.16	1.29
December	2 637	452	35	85.1	85.4	2.89	3.33
Calendar year 1938	21 605.8	808	11.4	59.2	59.2	2.00	27.15
January 1939	1 801	175	25	58.1	58.3	1.97	2.27
February	3 114	281	59	111	113	3.82	3.98
March	3 437	271	73	111	110	3.72	4.29
April	3 510	289	72	117	117	3.95	4.41
May	1 238	72	17	39.9	39.4	1.33	1.53
June	544.3	40	12.4	18.1	18.7	.632	.71
July	460.7	59	8.2	14.9	14.1	.476	.55
August	376.3	30	7.5	12.1	12.4	.419	.48
September	284.7	17.6	7.5	9.49	8.97	.303	.34
Water year 1938-39	19 502.0	452	7.5	53.4	53.4	1.80	24.51
October 1939	383.7	38	7.6	12.4	13.2	.446	.51
November	566.5	60	9.5	18.9	18.1	.611	.68
December	491.4	30	10	15.9	16.1	.544	.63
Calendar year 1939	16 207.6	289	7.5	44.4	44.4	1.50	20.38
January 1940	799.2	261	7.6	25.8	25.8	.872	1.01
February	566.0	44	8.0	19.5	19.8	.669	.72
March	2 972.2	632	17.8	95.9	97.0	3.28	3.78
April	3 836	517	54	128	127	4.29	4.79
May	1 956	239	31	63.1	65.2	2.20	2.54
June	2 067	398	22	68.9	66.7	2.25	2.51
July	799.8	50	13.1	25.8	25.5	.861	.99
August	663.2	104	9.5	21.4	21.4	.723	.83
September	635.7	69	10.0	21.2	20.9	.706	.79
Water year 1939-40	15 736.7	632	7.6	43.0	43.0	1.45	19.78

* Adjusted for change in contents in Woodcliff Lake.

Passaic River near Millington

Location.- Water-stage recorder and concrete control, lat. 40°40'48", long. 74°31'40", in Somerset County, at Davis Bridge, 1 mile upstream from Millington, Morris County, and 1½ miles downstream from Black Brook. Datum of gage is 215.60 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 55.4 square miles (revised).

Records available.- November 1921 to September 1940. November 1903 to July 1906 at Millington, three-quarters of a mile downstream.

Average discharge.- 19 years (1921-40). 84.4 second-feet.

Extremes.- 1903-6, 1921-40: Maximum discharge, 2,000 second-feet Mar. 8, 1904 (gage height, 7.50 feet, site and datum then in use); minimum, 0.9 second-foot on several days in August 1932.

Peak gage height and discharge during period of this report.-

1935: Feb. 17 (8 to 12 p.m.) 6.44 ft., 504 sec.-ft.

1936: Jan. 3 (9 to 11 p.m.) 6.88 ft., 651 sec.-ft.; Jan. 10 (noon) 6.43 ft., 504 sec.-ft.; Mar. 12 (5 to 9 p.m.) 9.18 ft., 1,480 sec.-ft.; Mar. 19 (8 a.m. to 8 p.m.) 6.84 ft., 631 sec.-ft.; Mar. 21-22 (8 p.m. to 4 a.m.) 6.50 ft., 520 sec.-ft.; Apr. 6 (9 to 12 p.m.) 6.95 ft., 654 sec.-ft.; Dec. 20 (6 to 10 p.m.) 6.73 ft., 602 sec.-ft.

1937: Feb. 22 (6 to 8 p.m.) 6.47 ft., 504 sec.-ft.

1938: Jan. 25-26 (10 p.m. to 2 a.m.) 6.83 ft., 602 sec.-ft.; June 29 (6 a.m. to 1 p.m.) 6.60 ft., 521 sec.-ft.; July 24 (10 a.m. to noon) 7.21 ft., 719 sec.-ft.; Sept. 22 (4 to 10 a.m.) 8.11 ft., 1,040 sec.-ft.; Dec. 6 (4 to 8 p.m.) 6.72 ft., 553 sec.-ft.

1939: Feb. 4 (4 to 8 p.m.) 6.79 ft., 585 sec.-ft.; Mar. 1 (6 to 10 a.m.) 6.56 ft., 506 sec.-ft.; Apr. 20 (8 a.m.) 6.51 ft., 493 sec.-ft.

1940: Mar. 15 (6 p.m.) 7.82 ft., 938 sec.-ft.; Apr. 9 (9 a.m. to 2 p.m.) 6.95 ft., 634 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	350	34	240	93	a40	145	68	46	18.6	13.7	13.7	a7.4
2	271	46	229	149	a38	131	63	36	15.2	11.2	12.7	7.2
3	236	40	189	138	a37	185	58	35	13.7	10.3	13.2	7.9
4	183	51	169	97	36	189	52	34	14.2	9.9	13.7	23
5	127	111	158	60	a47	161	51	32	18.6	9.0	10.8	56
6	227	113	133	55	a40	176	51	35	16.7	10.3	9.9	98
7	371	104	109	59	a35	187	49	56	14.2	9.5	10.3	77
8	298	88	88	75	a31	161	44	68	13.2	12.0	10.8	54
9	246	71	64	101	31	134	94	48	31	91	9.9	42
10	194	59	44	147	36	120	189	39	31	170	9.0	32
11	147	56	39	152	37	133	a170	37	19.8	172	11.7	a25
12	111	55	28	101	38	203	a134	32	15.7	104	13.7	a15
13	84	50	32	b80	38	300	129	30	14.2	54	11.2	a11.5
14	71	49	35	63	58	271	127	29	12.7	35	10.3	a10.5
15	61	43	36	b52	250	208	102	28	11.7	24	9.9	a10
16	56	41	36	43	349	165	91	24	a10.3	22	9.9	9.9
17	51	38	41	36	443	140	80	22	9.0	19.8	9.0	9.7
18	49	36	40	b54	443	116	68	22	12.8	16.2	8.6	9.5
19	44	33	81	33	395	104	60	20	29	14.2	8.6	9.5
20	39	36	215	35	287	101	55	19.2	42	14.2	8.6	9.5
21	37	38	189	52	234	120	52	17.3	31	14.7	9.0	9.0
22	51	48	151	86	161	151	49	17.3	22	15.7	9.5	8.6
23	58	52	115	74	127	125	47	17.3	22	19.2	8.2	7.9
24	48	56	91	49	115	109	43	17.3	16.7	46	7.6	7.2
25	41	60	84	b50	138	92	40	16.7	13.7	63	6.5	7.6
26	40	50	104	a48	202	81	36	16.2	11.2	75	a5.8	7.6
27	42	46	171	a46	210	71	31	15.7	10.3	51	a7.0	7.6
28	42	47	104	a46	208	72	33	14.7	13.7	31	a10.0	7.6
29	38	49	88	a47	-	115	32	14.2	11.7	21	a8.0	7.6
30	35	120	b80	a52	-	99	39	14.2	11.2	16.7	a6.3	7.6
31	33	-	b60	a44	-	77	-	15.2	-	15.2	a8.0	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.

Passaic River near Millington--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.6	258	183	17.3	a35	a180	136	51	18.2	20	8.7	7.5
2	7.6	192	151	17.9	35	a175	125	39	17.0	18.2	9.1	6.8
3	7.6	145	111	399	34	a160	142	42	14.6	15.8	4.3	6.5
4	7.6	97	b65	585	34	a200	129	115	13.6	15.2	3.6	6.2
5	7.6	70	b65	536	34	a350	111	125	13.6	14.1	3.6	5.6
6	7.6	58	55	393	33	a330	454	86	14.6	12.1	4.1	5.3
7	9.5	49	42	264	33	260	602	64	14.6	10.3	4.7	4.7
8	9.5	52	44	194	33	215	474	56	13.6	9.9	4.4	4.7
9	9.0	52	60	231	a33	206	328	49	15.8	9.9	4.1	5.6
10	9.0	44	71	474	a31	280	290	40	13.6	9.9	4.1	5.0
11	9.0	40	64	383	a30	820	287	36	15.8	8.3	4.0	4.4
12	9.0	42	59	322	a30	1 450	267	34	34	9.5	5.9	4.4
13	8.6	56	51	240	a32	1 370	250	46	39	9.5	5.5	4.4
14	8.2	113	49	206	a40	1 040	227	72	63	9.1	3.8	4.1
15	8.6	108	52	185	67	669	183	51	89	8.7	4.1	3.8
16	8.2	77	97	287	68	413	170	37	96	7.9	7.5	4.7
17	8.2	113	89	232	64	311	151	31	75	7.5	6.5	5.0
18	8.6	254	b58	191	b52	498	129	29	68	7.5	5.0	7.3
19	9.0	254	55	b110	b45	634	113	29	102	7.5	3.8	27
20	9.5	229	52	b120	a40	568	102	44	109	9.1	3.8	16.5
21	10.3	198	b36	a112	a40	504	94	33	83	10.3	3.8	11.1
22	14.7	154	a27	a80	a40	489	86	24	58	9.1	3.9	9.1
23	18.6	115	24	a60	b41	383	78	22	39	8.3	11.6	7.5
24	28	99	22	a60	b42	282	74	17.6	33	8.3	43	7.1
25	28	a90	18.6	a64	b45	234	67	15.8	31	8.3	36	6.5
26	25	a85	b17.8	a57	b50	198	64	16.4	25	7.5	17.0	5.9
27	24	a85	b17.2	a50	b70	202	63	17.6	21	6.8	13.6	5.6
28	24	a100	b17.0	a45	b100	295	59	19.5	21	6.8	12.6	5.9
29	27	a250	b17.0	a41	b180	248	58	17.6	23	6.8	11.6	5.9
30	54	230	b17.0	a37	-	198	55	16.4	17.0	5.9	11.6	7.3
31	228	-	b17.0	a35	-	163	-	18.8	-	6.7	9.9	-

a No gage-height record; discharge computed on basis of records for Whippany River at Morristown and Black River near Pottersville.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	12.6	7.9	185	264	b89	61	152	26	56	9.1	47
2	60	12.6	16.9	167	202	83	59	118	24	59	8.3	39
3	33	12.6	90	221	a156	78	56	99	23	37	7.9	34
4	21	12.6	97	256	a125	72	51	86	23	27	6.8	31
5	17.0	22	64	202	a104	71	50	75	22	23	6.5	43
6	14.6	25	51	154	88	67	142	71	23	21	6.5	47
7	14.1	18.8	179	152	80	63	200	65	36	18.8	6.8	40
8	14.1	17.6	187	154	75	59	151	58	30	17.0	7.1	32
9	14.1	27	129	219	80	67	118	56	24	15.2	11.8	27
10	19.5	28	97	210	94	56	127	55	20	13.6	11.5	23
11	19.5	22	115	248	77	51	111	50	23	12.6	11.2	19.5
12	14.6	18.2	192	215	b65	41	89	45	23	13.6	32	17.6
13	12.1	17.6	189	178	64	46	75	43	20	13.6	34	30
14	10.3	16.4	145	147	89	45	68	90	25	13.1	24	60
15	9.9	15.8	104	174	118	47	67	196	27	45	18.2	54
16	9.9	14.6	81	225	94	102	65	198	20	88	14.1	36
17	59	13.1	165	196	b78	160	59	142	17.0	80	12.1	27
18	104	12.1	174	295	65	163	54	97	17.6	52	10.7	24
19	86	9.9	133	305	59	165	56	75	27	31	13.2	21
20	58	9.9	478	240	59	167	52	65	23	21	46	18.8
21	41	10.7	504	240	63	244	58	58	25	17.0	32	16.4
22	32	11.6	398	254	402	236	208	51	98	15.2	40	14.6
23	26	10.3	271	368	413	191	260	50	122	14.1	112	14.1
24	23	9.9	194	333	314	147	221	50	91	13.1	208	13.1
25	19.5	10.7	143	380	225	127	158	41	59	12.1	196	13.1
26	18.2	13.1	125	368	b160	134	111	39	37	11.1	183	13.6
27	17.6	13.6	111	275	134	115	216	39	29	14.1	169	12.6
28	15.8	10.3	99	204	b108	97	314	30	28	13.1	143	12.1
29	14.6	9.9	84	169	-	83	287	32	29	10.7	104	13.1
30	14.1	9.5	75	149	-	72	213	31	21	9.9	72	13.1
31	13.1	-	110	164	-	67	-	28	-	9.5	58	-

a No gage-height record; discharge computed on basis of records for nearby streams.
b Stage-discharge relation affected by ice.

Passaic River near Millington--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.1	69	268	64	b145	b55	69	44	29	402	203	27
2	10.7	57	212	72	b125	78	59	40	26	312	170	27
3	9.5	50	160	86	108	76	56	37	24	236	145	20
4	9.1	47	120	b65	125	b50	49	35	24	178	120	18.8
5	9.5	41	102	b58	125	52	46	33	22	125	97	17.0
6	17.6	39	109	53	113	83	44	32	21	84	97	16.4
7	19.5	36	138	126	156	83	46	28	19.5	60	194	15.8
8	13.1	34	b115	174	169	66	72	24	118	49	205	15.8
9	11.6	32	b95	b130	145	60	219	24	170	45	170	15.2
10	12.1	31	b75	b100	136	55	279	30	134	44	145	14.1
11	13.6	27	53	75	120	46	230	32	92	41	138	13.6
12	13.6	23	41	64	97	50	160	29	113	50	138	13.6
13	12.6	153	35	60	a100	56	116	27	151	56	113	14.6
14	12.6	416	30	57	a125	104	94	26	169	52	88	14.6
15	12.1	416	29	52	a95	201	83	114	161	78	74	15.2
16	11.6	362	34	42	a80	210	70	160	120	97	63	17.0
17	11.6	290	63	49	a75	244	63	124	86	83	59	15.2
18	12.1	215	160	41	a75	238	86	78	109	66	56	15.2
19	21	160	185	36	94	199	192	53	a90	57	52	34
20	84	129	158	36	179	161	178	47	a70	78	46	200
21	120	118	120	38	192	134	129	45	a60	133	40	624
22	101	104	96	37	167	113	101	41	a50	275	36	1 000
23	99	89	91	36	156	101	89	40	44	492	33	895
24	109	75	78	56	187	91	78	38	46	702	30	753
25	94	68	108	448	169	80	70	47	40	618	28	569
26	66	64	111	569	140	72	64	41	48	521	27	402
27	52	63	96	430	113	74	60	72	246	430	27	288
28	90	161	83	324	84	64	56	80	430	349	27	163
29	120	312	75	205	-	59	52	63	521	301	25	125
30	115	301	66	147	-	56	47	44	475	279	21	94
31	92	-	64	158	-	62	-	34	-	240	21	-

a No gage-height record; discharge computed on basis of gage heights for preceding and following days, weather records, and records for station near Chatham.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75	56	78	75	242	490	223	116	18.8	21	11.1	6.5
2	60	48	80	72	268	402	344	108	18.2	14.6	9.1	6.2
3	52	45	72	75	331	301	349	96	17.6	11.6	7.9	6.2
4	45	41	194	70	553	225	290	84	17.6	11.1	12.9	5.9
5	41	41	362	68	521	203	206	75	17.6	10.7	13.1	5.9
6	41	44	537	223	430	236	207	a70	16.4	10.7	a9.9	5.9
7	59	44	506	301	312	228	402	a64	15.2	10.3	a7.9	5.9
8	63	42	402	a258	268	192	349	a58	14.6	10.3	7.1	5.6
9	53	44	312	210	246	167	279	a55	14.1	10.3	7.9	7.5
10	46	46	268	169	238	151	206	a70	13.6	9.9	7.5	6.5
11	41	41	227	142	324	127	174	a60	16.4	9.1	5.9	6.5
12	39	38	183	118	312	111	176	a52	16.4	8.3	5.6	6.2
13	38	35	156	72	279	163	161	a46	15.8	7.9	5.6	5.9
14	35	34	129	53	215	236	136	a46	47	7.5	7.1	6.2
15	34	30	104	68	230	279	122	46	34	7.1	7.9	5.6
16	33	28	b84	64	336	375	111	40	21	6.8	6.5	5.0
17	31	29	74	68	258	375	104	38	17.6	6.5	6.8	4.7
18	29	38	74	60	a240	312	131	37	15.8	6.5	7.1	4.7
19	27	42	75	57	a220	228	233	34	14.1	7.1	7.1	4.4
20	29	84	72	49	a200	179	460	30	17.6	7.1	28	4.4
21	48	94	64	53	a160	154	362	32	16.4	4.4	29	7.4
22	56	84	b55	56	a140	136	254	48	13.1	3.6	15.0	9.1
23	45	70	b50	46	a120	122	194	47	11.6	3.8	9.9	7.1
24	39	64	46	47	a110	113	154	41	16.4	4.7	11.5	6.2
25	52	40	46	46	a96	104	134	34	13.6	4.7	29	6.2
26	56	53	44	33	156	97	122	32	12.1	4.7	20	6.2
27	47	56	170	32	301	91	122	28	11.6	10.4	11.1	6.2
28	56	60	210	26	328	147	136	a25	11.6	25	9.1	6.2
29	70	64	188	28	-	172	136	a24	10.7	17.0	7.9	6.2
30	76	70	118	110	-	190	125	22	21	15.8	10.1	8.7
31	68	-	92	221	-	258	-	20	-	14.1	11.6	-

a Faulty or no gage-height record; discharge computed on basis of records for station near Chatham.
b Stage-discharge relation affected by ice.

Passaic River near Millington--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.6	68	11.1	9.1	6.2	40	238	83	405	59	24	a200
2	15.8	38	15.8	8.3	6.2	34	208	81	a400	44	19.5	397
3	14.6	22	23	7.9	a6.2	42	172	81	a400	36	17.6	346
4	12.1	18.2	22	7.9	a6.2	192	174	96	a350	49	15.8	281
5	9.9	37	17.6	7.5	a6.5	294	183	97	275	49	14.6	228
6	8.7	108	16.4	5.6	a6.5	319	154	78	201	38	14.6	174
7	7.9	120	15.2	5.6	a7.0	294	120	66	138	31	25	115
8	8.3	88	14.6	5.6	12.6	254	214	47	101	27	21	a70
9	7.9	63	13.6	5.3	12.6	208	608	63	139	23	17.0	a60
10	8.7	45	12.1	5.3	14.6	179	547	60	258	22	15.2	a50
11	8.2	38	15.2	5.3	46	161	408	49	214	24	a13	41
12	5.3	33	16.4	5.3	68	128	315	47	143	145	11.1	39
13	6.2	28	13.6	5.6	64	101	352	44	101	181	14.3	34
14	7.5	28	14.6	32	37	115	334	35	78	133	34	31
15	7.5	18.8	16.4	210	18.2	765	279	40	66	96	21	28
16	7.1	17.0	16.4	238	18.8	816	214	68	60	68	15.2	26
17	7.5	16.4	16.4	187	18.2	634	174	210	57	52	17.6	25
18	7.9	16.4	16.4	140	17.6	442	152	212	45	44	14.6	21
19	7.9	15.2	16.4	96	28	319	154	170	49	34	17.7	18.8
20	7.9	14.6	30	a35	75	254	267	124	57	29	34	18.8
21	8.3	14.6	64	a20	129	215	419	102	40	27	23	18.8
22	11.1	14.1	48	a17	161	187	451	120	37	24	15.8	17.6
23	12.1	14.1	29	a16	160	156	370	120	34	24	13.6	14.6
24	9.9	13.6	19.5	a15	136	124	268	118	44	23	11.6	12.6
25	7.9	13.6	16.4	13.6	a110	106	197	104	70	23	10.3	92
26	8.3	13.6	14.6	13.1	a90	77	161	106	68	25	28	165
27	9.1	12.6	11.6	a12	74	70	140	104	99	25	33	140
28	17.0	12.1	9.9	a8	55	69	122	181	91	45	80	102
29	18.2	11.6	9.5	a7	44	75	102	227	115	47	125	75
30	13.1	11.6	9.9	a6.5	-	91	91	194	84	40	120	56
31	36	-	9.9	6.2	-	203	-	323	-	32	97	-

a No gage-height record; discharge computed on basis of records for station near Chatham.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	3 681	371	33	119	2.15	2.48
November	1 720	120	33	57.3	1.03	1.15
December	3 243	240	28	104	1.88	2.17
Calendar year 1934	33 880.0	897	6.8	92.8	1.68	22.83
January 1935	2 197	152	33	70.9	1.28	1.48
February	4 104	443	31	147	2.65	2.76
March	4 442	300	71	143	2.58	2.97
April	2 137	189	31	71.2	1.28	1.43
May	868.3	68	14.2	28.0	.505	.58
June	527.1	42	9.0	17.6	.318	.35
July	1 190.8	172	9.0	38.4	.693	.80
August	301.4	13.7	5.8	9.72	.175	.20
September	602.9	98	7.2	20.1	.363	.40
Water year 1934-35	25 014.5	443	5.8	68.5	1.24	16.77
October 1935	651.1	228	7.6	21.0	.379	.44
November	3 709	258	40	124	2.24	2.50
December	1 703.6	183	17.0	55.0	.993	1.14
Calendar year 1935	22 434.2	443	5.8	61.5	1.11	15.05
January 1936	6 028.2	585	17.3	194	3.50	4.04
February	1 411	180	30	48.7	.879	.95
March	13 325	1 450	160	430	7.76	8.95
April	5 368	602	55	179	3.23	3.60
May	1 294.7	125	15.8	41.8	.755	.87
June	1 191.0	109	13.6	39.7	.717	.80
July	304.8	20	5.9	9.83	.177	.20
August	275.2	43	3.6	8.88	.160	.18
September	211.4	27	3.8	7.05	.127	.14
Water year 1935-36	35 473.0	1 450	3.6	96.9	1.75	23.81

Passaic River near Millington--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	869.6	104	9.9	28.1	0.507	0.58
November	448.0	28	9.5	14.9	.269	.30
December	4 808.8	504	7.9	155	2.80	3.23
Calendar year 1936	35 535.7	1 450	3.6	97.1	1.75	23.84
January 1937	7 047	380	147	227	4.10	4.73
February	3 855	413	59	138	2.49	2.59
March	3 205	244	41	103	1.86	2.14
April	3 757	314	50	125	2.26	2.52
May	2 285	198	28	73.7	1.33	1.53
June	1 012.6	122	17.0	33.8	.610	.68
July	797.4	88	9.5	25.7	.464	.53
August	1 614.8	208	6.5	52.1	.940	1.08
September	806.7	60	12.1	26.9	.486	.54
Water year 1936-37	30 506.9	504	6.5	83.6	1.51	20.45
October 1937	1 387.6	120	9.1	44.8	.809	.93
November	3 982	416	23	133	2.40	2.68
December	3 170	268	29	102	1.84	2.12
Calendar year 1937	32 920.1	416	6.5	90.2	1.63	22.07
January 1938	3 888	569	36	125	2.26	2.61
February	3 595	192	75	128	2.31	2.40
March	3 073	244	46	99.1	1.79	2.06
April	2 957	279	44	98.6	1.78	1.99
May	1 562	160	24	50.4	.910	1.05
June	3 708.5	521	19.5	124	2.24	2.50
July	6 533	702	41	211	3.81	4.39
August	2 688	205	21	86.7	1.56	1.80
September	5 453.1	1 000	13.6	182	3.29	3.67
Water year 1937-38	41 997.2	1 000	9.1	115	2.08	28.20
October 1938	1 484	76	27	47.9	.865	1.00
November	1 505	94	28	50.2	.906	1.01
December	5 072	537	44	164	2.96	3.41
Calendar year 1938	41 518.6	1 000	13.6	114	2.06	27.89
January 1939	2 970	301	26	95.8	1.73	1.99
February	7 434	553	96	266	4.80	5.00
March	6 564	490	91	212	3.83	4.42
April	6 402	460	104	213	3.84	4.28
May	1 578	116	20	50.9	.919	1.06
June	517.5	47	10.7	17.2	.310	.35
July	302.6	25	3.6	9.76	.176	.20
August	346.2	29	5.6	11.2	.202	.23
September	185.2	9.1	4.4	6.17	.111	.12
Water year 1938-39	34 360.5	553	3.6	94.1	1.70	23.07
October 1939	330.5	36	5.3	10.7	.193	.22
November	964.1	120	11.6	32.1	.579	.65
December	575.5	64	9.5	18.6	.336	.39
Calendar year 1939	28 169.6	553	3.6	77.2	1.39	18.91
January 1940	1 156.7	238	5.3	37.3	.673	.78
February	1 434.4	161	6.2	49.5	.894	.96
March	6 964	816	34	225	4.06	4.68
April	7 588	608	91	253	4.57	5.10
May	3 450	323	35	111	2.00	2.31
June	4 219	405	34	141	2.55	2.84
July	1 519	181	22	49.0	.884	1.02
August	934.1	125	10.3	30.1	.543	.63
September	2 897.2	397	12.6	96.6	1.74	1.94
Water year 1939-40	32 032.5	816	5.3	87.5	1.58	21.52

Passaic River near Chatham

Location.- Water-stage recorder and, after Sept. 19, 1938, concrete control, lat. 40°43'31", long. 74°23'23", 150 feet downstream from Stanley Avenue Bridge in Chatham, Morris County, and 3 miles upstream from Canoe Brook. Datum of gage is 193.51 feet above mean sea level (United States Coast and Geodetic Survey datum). Chain gage used 1903-11 was on the bridge, at different datum.

Drainage area.- 100 square miles (revised).

Records available.- February 1903 to December 1911, December 1937 to September 1940.

Extremes.- 1903-11, 1937-40: Maximum discharge observed, about 3,000 second-feet Jan. 9, 1905 (gage height, 8.3 feet, datum then in use); minimum, 2 second-feet many days in May and June 1903, August and October 1905, September and October 1906.

Peak gage height and discharge during period of this report.-
1938: Jan. 25 (8 a.m.) 4.85 ft., 1,060 sec.-ft.; July 23 (1 p.m.) 6.51 ft., 1,840 sec.-ft.; Sept. 21 (6 p.m.) 6.86 ft., 1,910 sec.-ft.
1939: Feb. 5 (1 p.m.) 5.62 ft., 972 sec.-ft.
1940: Mar. 15 (5 a.m.) 5.79 ft., 1,090 sec.-ft.; Mar. 17 (1 a.m.) 5.79 ft., 1,090 sec.-ft.; Apr. 10 (6 to 9 a.m.) 5.69 ft., 1,020 sec.-ft.; May 31 (noon) 5.69 ft., 1,020 sec.-ft.

Daily discharge, in second-feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	102	b250	84	102	62	a65	692	390	h27
2			-	122	b200	122	91	60	a50	608	261	h32
3			-	148	191	110	80	55	a45	511	186	h29
4			-	b100	198	b80	73	52	a40	401	142	h26
5			-	b95	200	93	66	50	a37	241	114	h23
6			-	b90	171	146	62	48	a35	140	152	h20
7			-	330	260	152	65	46	a35	96	159	h19
8			-	360	283	120	104	43	a230	75	236	h17
9			-	245	230	103	436	41	a330	65	210	h19
10			-	169	216	93	549	44	a280	58	166	h19
11			-	b130	189	80	492	50	a180	55	163	h19
12			-	b120	150	90	335	49	a220	61	142	h17
13			-	113	152	96	204	45	a300	72	124	h18
14			-	105	189	202	154	45	a320	69	102	h18
15			b50	93	b170	406	129	270	a300	78	84	h20
16			59	93	b120	439	110	283	a250	132	71	h19
17			86	77	b110	492	94	193	a180	152	61	h19
18			248	b80	111	474	192	124	a230	130	60	h19
19			332	b65	133	390	511	84	a200	91	56	h110
20			278	b60	343	286	397	68	a150	105	48	518
21			198	b60	355	223	250	62	a120	248	44	1 190
22			150	b60	278	182	180	61	a100	549	h38	1 410
23			135	b60	260	154	148	59	58	1 340	h36	1 490
24			126	b90	332	135	118	57	61	1 500	h34	1 370
25			189	850	299	118	102	65	72	1 400	h31	1 180
26			200	915	202	105	91	a65	64	1 220	h29	994
27			154	824	178	105	84	a140	200	1 080	h27	784
28			126	714	146	97	77	a150	659	915	h28	576
29			113	530	-	86	72	a120	692	736	h26	337
30			105	294	-	80	66	a100	736	608	h25	160
31			97	283	-	87	-	a80	-	492	h25	-

a No gage-height record; discharge computed on basis of precipitation records and records for station near Millington.
b Stage-discharge relation affected by ice.
h Computed on basis of twice-daily staff-gage readings; concrete control was being constructed.

Passaic River near Chatham--Continued

Daily discharge, in second-feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	111	76	136	126	468	724	406	166	25	41	16.8	22
2	89	65	136	116	452	743	558	149	23	28	12.3	13.5
3	h74	58	121	114	636	636	564	133	22	18.2	10.2	10.2
4	h61	54	426	108	795	506	529	116	22	14.7	28	9.2
5	h55	52	606	100	875	406	421	106	22	12.3	23	9.7
6	h56	54	782	375	841	416	378	96	22	11.8	18.2	9.2
7	80	55	814	479	737	396	594	91	20	11.8	12.9	9.2
8	89	55	743	457	630	313	636	80	19.7	12.3	10.2	9.2
9	78	62	655	382	558	252	564	77	18.2	11.8	10.2	9.7
10	53	64	570	296	529	225	442	94	18.9	11.2	9.7	11.8
11	37	59	468	244	600	188	313	94	20	10.2	8.7	11.8
12	45	54	354	194	576	166	300	77	21	9.7	7.8	9.2
13	48	51	263	152	518	279	263	66	23	8.7	7.0	8.7
14	49	47	211	76	437	392	211	66	51	8.7	8.7	8.7
15	47	43	169	108	396	479	182	66	65	8.2	8.7	8.7
16	45	40	118	114	506	618	160	61	41	8.2	9.2	7.4
17	42	43	126	112	484	612	149	56	26	7.4	8.2	6.6
18	40	47	116	102	406	564	267	52	22	6.6	7.8	5.8
19	38	69	116	96	336	462	420	48	19.7	6.6	19.8	5.5
20	38	149	112	89	284	326	600	44	22	7.0	41	7.0
21	53	149	100	80	252	232	680	44	25	8.2	45	9.2
22	65	126	78	80	225	194	588	68	22	6.6	45	7.0
23	61	108	64	77	185	175	447	74	18.9	4.8	28	10.2
24	57	106	80	71	144	155	271	65	15.3	4.2	16.0	9.2
25	71	83	72	72	138	144	200	58	18.2	4.2	68	7.8
26	75	86	64	65	272	133	175	47	15.3	5.1	87	7.0
27	72	100	350	a45	479	124	175	41	13.5	7.4	57	7.0
28	87	108	372	a40	602	250	208	37	13.5	14.7	27	7.0
29	90	114	252	a60	-	300	225	35	13.5	31	16.8	6.6
30	92	121	236	a200	-	318	185	31	38	26	16.0	14.7
31	85	-	160	a300	-	432	-	28	-	22	22	-

a Faulty gage-height record; discharge computed on basis of records for station near Millington.
h Control obstructed because of construction work; discharge computed on basis of recorder graph and twice-daily readings of staff gage below control site.

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	124	17.5	a16	a12	70	a400	119	724	114	36	302
2	32	116	20	a15	a12	62	a350	119	762	74	30	432
3	37	71	31	a14	a12	78	a300	119	737	58	25	479
4	29	42	42	a13	a12	421	h344	144	661	58	21	468
5	22	92	37	a13	h12.9	512	354	163	553	84	20	406
6	17.5	300	30	a10	a13	558	284	131	426	66	21	305
7	13.5	300	26	a9	a15	529	208	106	259	48	26	190
8	11.2	200	24	a9	h23	496	330	87	155	41	35	121
9	10.2	124	19.7	h9.2	a25	452	875	87	132	34	28	94
10	9.2	86	19.7	a9	a40	382	1 010	98	432	30	22	89
11	8.7	66	21	a9	a80	228	888	82	447	42	18.2	74
12	9.7	55	22	h8.7	112	152	788	74	335	73	16.0	58
13	7.0	47	24	a9	114	136	756	70	188	178	17.8	49
14	6.2	43	26	a50	74	183	692	64	124	172	24	43
15	6.6	38	26	a400	44	930	600	56	96	124	37	40
16	7.0	31	30	387	38	1 060	479	120	86	102	25	36
17	6.6	28	26	358	44	1 020	336	479	79	72	22	33
18	6.6	26	25	a300	49	902	263	437	70	58	24	31
19	7.4	26	24	a200	65	756	252	313	66	48	26	28
20	7.8	24	34	a80	209	594	490	211	77	40	31	25
21	8.7	24	94	a35	275	a450	692	172	70	33	40	24
22	10.7	23	104	a30	309	a350	788	197	54	31	29	24
23	10.7	23	70	a27	305	a300	743	240	48	26	21	24
24	12.3	23	42	a26	259	a220	612	222	65	26	18.2	21
25	10.7	23	43	a25	200	a180	457	191	100	26	16.0	159
26	9.7	22	30	a23	169	a130	292	204	133	29	32	326
27	9.7	21	24	a21	126	h110	214	211	141	37	47	288
28	14.7	19.7	a18	a15	92	a110	182	358	131	49	88	184
29	14.1	18.9	a17	a13	77	a120	152	426	228	68	133	116
30	19.7	18.2	a17	a12	-	a150	131	406	208	54	152	84
31	56	-	a17	h12.3	-	a300	-	742	-	44	131	-

a No gage-height record; discharge computed on basis of records for station near Millington.
h Computed on basis of staff-gage readings.

Passaic River near Chatham--Continued

Monthly and annual discharge, in second-feet, 1937-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December 15-31, 1937	2 646	332	50	156	1.56	0.99
Calendar year	-	-	-	-	-	-
January 1938	7 377	915	60	238	2.38	2.74
February	5 916	355	110	211	2.11	2.20
March	5 430	492	80	175	1.75	2.02
April	5 434	549	62	181	1.81	2.02
May	2 671	283	41	86.2	.862	.99
June	6 239	736	35	208	2.08	2.32
July	13 920	1 500	55	449	4.49	5.18
August	3 270	390	25	105	1.05	1.21
September	10 499	1 490	17	350	3.50	3.90
Water year 1937-38	-	-	-	-	-	-
October 1938	1 983	111	37	64.0	.640	.74
November	2 298	149	40	76.6	.766	.85
December	8 870	814	64	286	2.86	3.30
Calendar year 1938	73 907	1 500	17	202	2.02	27.47
January 1939	4 930	479	40	159	1.59	1.83
February	13 361	875	138	477	4.77	4.97
March	11 160	743	124	360	3.60	4.15
April	11 111	680	149	370	3.70	4.13
May	2 266	166	28	73.1	.731	.84
June	716.7	65	13.5	23.9	.239	.27
July	388.6	41	4.2	12.5	.125	.14
August	706.2	87	7.0	22.8	.228	.27
September	278.8	22	5.5	9.29	.093	.10
Water year 1938-39	58 069.3	875	4.2	159	1.59	21.59
October 1939	456.2	56	6.2	14.7	.147	.17
November	2 054.8	300	18.2	68.5	.685	.76
December	1 000.9	104	17	32.3	.323	.37
Calendar year 1939	48 430.2	875	4.2	133	1.33	18.00
January 1940	2 158.2	400	8.7	69.6	.696	.80
February	2 817.9	309	12	97.2	.972	1.05
March	11 941	1 060	62	385	3.85	4.44
April	14 262	1 010	131	475	4.75	5.30
May	6 448	742	56	208	2.08	2.40
June	7 587	762	48	253	2.53	2.82
July	1 939	178	26	62.5	.625	.72
August	1 212.2	152	16.0	39.1	.391	.45
September	4 553	479	21	152	1.52	1.70
Water year 1939-40	56 430.2	1 060	6.2	154	1.54	20.98

Passaic River at Paterson

Location.-Water-stage recorder upstream from dam, lat. 40°54'50" long. 74°10'51", at hydroelectric plant of The Society for Establishing Useful Manufactures in Paterson, Passaic County. Datum of gage is at mean sea level (New Jersey Geological Survey datum).

Drainage area.- 785 square miles.

Records available.- January 1898 to September 1940.

Average discharge.- 42 years, 1,460 second-feet (adjusted for storage and diversions).

Extremes.- 1898-1940: Maximum daily discharge, 28,000 second-feet Oct. 10, 1903; no flow July 3-5, 1904, July 16, 23, 1905 (caused by regulation).

Remarks.- Daily discharge is sum of flow over dam, through power plant, and in raceway and represents total flow just above Great Falls. Water is diverted by city of East Orange from wells; by Commonwealth Water Co. from Canoe Brook and wells in Canoe Brook area; and for municipal supply from Passaic River at Little Falls and from Rockaway, Pequannock, and Wanaque Rivers. Flow regulated by reservoirs on Rockaway, Pequannock, and Wanaque Rivers, and in Greenwood Lake, which have a combined capacity of 6,814,000,000 cubic feet.

Cooperation.- Records collected in cooperation with John H. Cook, governor of The Society for Establishing Useful Manufactures.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 900	558	3 140	1 500	624	1 880	1 260	683	188	270	240	75
2	2 220	649	3 880	1 460	628	1 910	1 200	618	184	225	141	107
3	2 070	626	3 520	1 500	611	1 990	1 150	556	101	153	172	86
4	2 060	724	3 250	1 360	631	1 930	984	540	162	154	189	247
5	1 930	1 370	3 070	1 180	598	1 910	927	544	222	236	165	394
6	2 850	1 540	2 790	1 310	607	1 970	905	572	168	45	165	671
7	3 480	1 690	2 520	1 220	532	2 110	812	677	215	159	129	647
8	2 870	1 660	2 220	1 300	468	2 150	780	892	231	194	121	636
9	2 570	1 590	1 900	1 440	569	1 980	1 040	895	354	238	129	564
10	2 420	1 480	1 630	1 940	619	1 870	1 510	766	356	645	103	566
11	2 230	1 360	1 390	2 960	626	1 870	1 600	652	329	744	153	440
12	2 050	1 270	1 130	2 720	621	2 160	1 680	627	285	794	72	319
13	1 860	1 140	1 040	2 310	571	2 620	1 820	538	249	978	134	197
14	1 640	1 080	901	2 110	712	2 540	1 880	508	227	1 160	155	188
15	1 480	982	834	1 590	1 860	2 390	1 800	501	185	1 180	118	193
16	1 350	860	733	1 620	2 630	2 360	1 690	488	173	1 160	142	215
17	1 190	740	680	1 540	3 040	2 410	1 600	406	165	1 050	156	68
18	1 060	727	685	1 420	2 930	2 330	1 490	292	257	950	140	70
19	995	706	973	1 140	2 590	2 130	1 320	274	564	820	83	108
20	897	654	1 460	1 130	2 460	2 020	1 150	259	541	769	101	134
21	828	636	2 200	1 230	2 300	1 980	1 060	247	558	656	105	116
22	768	652	1 970	1 380	2 190	2 030	931	248	497	633	102	140
23	762	685	1 940	1 420	2 100	1 850	893	249	447	509	54	109
24	735	835	1 820	989	1 960	1 780	806	236	343	480	81	98
25	650	989	1 720	1 030	1 930	1 580	749	188	253	490	75	76
26	629	847	1 710	1 190	2 090	1 340	722	238	221	567	74	124
27	648	758	1 740	1 150	2 300	1 300	615	231	234	622	75	117
28	608	729	1 440	1 000	2 010	1 230	578	128	241	580	42	118
29	584	729	1 500	934	-	1 380	556	218	240	464	42	157
30	559	1 200	1 440	823	-	1 400	600	158	278	356	82	65
31	539	-	1 130	730	-	1 270	-	196	-	225	107	-

Passaic River at Paterson--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	83	1 140	2 150	363	691	1 720	2 750	913	200	404	134	163
2	98	1 070	2 060	284	619	1 760	2 510	885	250	363	80	151
3	64	1 140	1 910	1 880	558	1 800	2 460	853	245	285	86	158
4	77	1 200	1 760	3 880	589	1 840	2 290	1 480	248	235	89	138
5	99	1 270	1 560	3 660	576	2 370	2 020	1 680	262	242	122	109
6	113	1 170	1 370	3 390	522	2 330	4 060	1 500	250	162	147	146
7	104	1 080	1 140	3 360	509	2 380	6 220	1 360	221	168	122	116
8	141	893	992	3 260	513	2 350	6 600	1 280	153	174	124	72
9	131	782	917	3 160	486	2 350	5 930	1 160	198	129	147	90
10	89	666	949	3 060	430	2 660	5 270	998	200	153	116	69
11	81	557	914	2 960	503	5 720	4 850	851	184	232	108	81
12	87	479	886	2 860	509	11 800	4 540	780	220	169	103	95
13	171	557	856	2 770	454	18 200	4 400	885	729	162	95	142
14	73	949	785	2 680	493	18 200	4 330	1 170	1 280	201	72	98
15	65	1 050	758	2 610	582	14 500	3 940	1 060	1 250	201	109	122
16	138	1 030	926	3 140	617	11 300	3 600	988	1 030	173	102	113
17	37	1 170	1 180	2 780	650	9 180	3 150	868	861	138	162	78
18	127	1 470	1 050	2 300	678	8 630	2 760	716	884	198	113	212
19	104	1 530	975	1 980	569	10 400	2 420	695	923	334	114	351
20	150	1 560	845	1 580	685	11 900	2 160	829	961	285	113	363
21	115	1 670	688	1 460	664	11 800	1 920	804	1 560	211	85	313
22	102	1 780	433	1 220	622	10 700	1 730	708	1 450	196	130	241
23	81	1 730	523	1 200	565	9 310	1 570	610	1 180	160	174	216
24	139	1 650	440	1 120	476	7 410	1 370	491	1 070	158	426	159
25	84	1 490	375	1 150	535	5 850	1 170	372	968	193	525	144
26	107	1 390	406	1 000	681	4 690	1 020	291	819	201	409	90
27	168	1 300	276	1 030	1 060	3 870	1 050	305	669	127	341	160
28	91	1 230	313	978	1 450	4 240	982	278	536	138	238	75
29	120	1 990	285	889	1 580	3 730	985	232	429	145	211	125
30	167	2 340	265	856	-	3 310	937	281	388	107	261	155
31	880	-	327	768	-	3 090	-	263	-	108	223	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	449	217	137	1 690	3 080	2 140	1 350	2 640	446	369	167	924
2	493	216	266	1 640	2 840	1 840	1 240	2 410	447	554	146	786
3	553	237	559	2 030	2 410	1 630	1 160	2 090	408	610	90	635
4	486	238	810	2 320	2 190	1 510	1 090	1 820	372	519	143	507
5	413	307	766	2 100	1 970	1 440	1 030	1 590	367	422	122	435
6	227	347	739	1 930	1 770	1 390	1 760	1 430	595	362	175	552
7	258	393	1 210	1 970	1 620	1 320	3 130	1 550	691	286	162	532
8	233	361	1 360	2 210	1 500	1 220	2 860	1 510	723	272	137	408
9	223	393	1 220	2 140	1 430	1 160	2 610	1 340	585	210	150	381
10	270	421	1 140	2 110	1 440	1 110	2 440	1 200	465	206	158	288
11	287	371	1 230	2 200	1 370	960	2 360	1 100	421	212	305	272
12	209	327	1 600	2 090	1 260	868	2 070	926	410	139	602	226
13	230	300	1 610	1 960	1 090	806	1 840	771	388	198	871	501
14	207	311	1 450	1 860	1 240	788	1 660	1 470	386	222	739	1 550
15	198	330	1 330	2 010	1 350	848	1 580	3 640	305	267	434	1 730
16	180	266	1 230	2 280	1 310	1 270	1 520	4 200	299	451	327	1 240
17	769	273	1 430	2 150	1 240	1 400	1 400	3 480	297	597	259	834
18	1 470	227	1 560	2 850	1 130	1 410	1 220	3 050	280	532	275	610
19	1 280	226	1 400	2 870	1 010	1 460	1 160	2 710	314	411	217	539
20	1 020	244	4 100	2 640	1 190	1 540	1 020	2 410	311	307	158	435
21	867	238	5 250	2 640	917	2 000	994	2 040	337	293	277	382
22	774	217	4 140	3 050	3 240	2 220	1 840	1 750	886	211	371	361
23	610	179	3 110	3 810	5 370	2 170	2 540	1 550	1 220	158	1 390	289
24	518	210	2 800	3 740	4 490	2 160	2 380	1 420	992	143	1 860	193
25	392	248	2 620	4 380	3 520	2 180	2 240	1 250	889	159	1 560	279
26	354	291	2 460	4 750	3 160	2 300	2 090	1 010	788	161	1 310	261
27	316	268	2 230	4 370	2 880	2 140	2 330	889	600	156	1 240	212
28	305	224	1 970	3 770	2 540	1 940	3 100	685	480	157	1 340	237
29	281	248	1 690	3 340	-	1 790	3 220	644	419	216	1 290	304
30	264	213	1 500	2 980	-	1 640	2 910	553	376	174	1 160	239
31	238	-	1 460	2 820	-	1 440	-	488	-	197	1 040	-

Passaic River at Paterson--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	199	959	2 820	1 100	3 280	958	1 020	634	533	3 340	3 200	236
2	254	865	2 640	1 150	2 740	1 100	1 030	576	459	2 980	2 940	279
3	237	740	2 530	1 220	2 390	1 010	934	551	430	2 730	2 670	236
4	161	687	2 330	1 210	2 320	884	799	466	410	2 400	2 420	247
5	187	695	2 110	1 050	2 120	915	741	459	342	2 100	2 140	202
6	283	674	2 080	964	1 910	1 090	679	437	382	1 840	2 120	207
7	323	547	2 290	1 520	2 220	1 310	721	380	416	1 640	1 940	149
8	291	466	2 050	2 180	2 340	1 160	968	357	645	1 420	1 730	205
9	290	492	1 800	2 000	2 070	1 100	1 750	370	737	1 210	1 590	197
10	260	449	1 620	1 690	2 020	960	2 200	339	702	951	1 490	158
11	255	448	1 460	1 570	1 890	856	2 080	395	919	807	1 790	248
12	186	462	1 210	1 430	1 770	828	2 080	377	1 020	573	1 820	389
13	256	1 800	883	1 310	1 660	807	2 030	345	1 100	563	1 540	332
14	176	4 880	786	1 210	1 730	987	1 920	310	1 100	649	1 340	204
15	160	4 520	818	1 110	1 790	1 400	1 720	1 030	944	612	1 220	244
16	204	3 700	779	982	1 490	1 480	1 540	1 630	846	602	1 010	214
17	216	3 450	1 020	859	1 330	1 740	1 330	1 460	788	520	806	214
18	189	3 190	1 720	828	1 190	1 870	1 370	1 310	791	486	452	219
19	178	2 900	2 410	594	1 280	1 940	2 000	1 110	713	494	522	469
20	560	2 700	2 200	743	1 580	1 910	2 090	928	614	566	522	1 920
21	1 160	2 500	1 980	687	1 650	1 820	2 010	800	557	1 220	479	4 590
22	956	2 170	1 830	750	1 520	1 700	1 940	682	478	3 320	390	7 020
23	1 030	1 860	1 720	704	1 620	1 590	1 780	731	397	5 100	383	9 140
24	1 070	1 620	1 570	769	1 780	1 470	1 580	676	380	6 310	334	8 810
25	1 010	1 490	1 580	4 060	1 740	1 350	1 410	702	396	6 880	288	7 210
26	867	1 330	1 570	6 890	1 660	1 190	1 280	708	587	6 450	261	5 480
27	760	1 170	1 500	6 900	1 540	1 080	1 150	972	1 590	5 640	260	4 300
28	892	1 680	1 410	5 440	1 450	976	1 030	1 030	3 620	5 070	247	3 480
29	1 300	3 440	1 340	4 420	-	916	942	985	4 400	4 580	258	2 940
30	1 250	3 220	1 180	3 800	-	857	787	800	4 020	4 110	224	2 510
31	1 130	-	1 070	3 580	-	878	-	651	-	3 630	234	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 180	571	1 010	1 470	1 700	4 440	2 930	1 930	337	420	268	150
2	1 860	531	1 040	1 320	1 790	4 570	3 960	1 760	239	442	196	190
3	1 610	486	987	1 200	2 560	4 400	4 850	1 650	255	385	188	133
4	1 320	478	1 610	1 100	4 030	4 080	4 480	1 510	271	308	204	134
5	1 050	478	2 880	1 030	3 410	3 840	3 980	1 400	270	208	196	119
6	866	497	4 610	1 920	3 430	3 940	3 760	1 300	244	227	184	99
7	964	550	5 670	2 860	3 430	3 800	4 960	1 170	181	224	137	95
8	943	622	5 290	2 720	3 300	3 310	4 850	991	193	189	122	115
9	884	664	4 870	2 520	3 290	2 960	4 480	987	197	165	121	154
10	779	685	4 880	2 360	3 100	2 840	3 980	1 180	207	144	123	150
11	713	631	4 620	2 270	3 370	2 530	3 640	1 040	240	135	120	130
12	603	552	4 090	2 090	3 260	2 330	3 550	879	225	150	138	149
13	560	550	3 620	1 860	2 970	2 400	3 330	760	221	145	90	124
14	517	528	3 130	1 750	2 900	2 360	2 860	642	388	97	124	99
15	451	509	2 730	1 580	2 910	2 320	2 550	617	487	136	54	113
16	464	456	2 360	1 410	3 820	3 290	2 310	674	392	92	105	134
17	412	497	2 030	1 320	3 570	3 840	2 040	663	275	87	96	122
18	450	698	1 850	1 210	3 280	3 740	2 230	616	255	102	120	127
19	421	828	1 700	1 120	3 140	3 540	3 040	532	241	69	182	79
20	409	1 190	1 580	1 110	2 960	3 260	4 940	529	253	84	435	99
21	564	1 240	1 430	1 000	2 890	2 990	5 320	480	238	75	455	115
22	802	1 140	1 370	960	2 750	2 640	4 820	535	211	135	335	117
23	745	974	1 160	617	2 380	2 350	4 200	736	257	115	215	127
24	700	950	1 060	893	2 090	2 130	3 630	901	204	108	160	133
25	867	966	1 000	923	1 870	2 030	3 180	773	200	111	209	117
26	934	947	935	588	2 110	2 000	2 790	605	164	90	277	145
27	823	978	1 670	651	2 860	1 960	2 540	538	149	161	245	104
28	788	956	1 960	579	3 250	2 350	2 430	480	191	262	222	132
29	813	964	1 680	573	-	2 710	2 330	400	179	449	138	115
30	771	983	1 680	1 110	-	2 690	2 060	403	301	291	150	134
31	640	-	1 610	1 970	-	3 060	-	335	-	217	181	-

Passaic River at Paterson--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	178	527	135	138	202	495	4 310	1 850	4 780	1 140	354	1 150
2	237	615	175	144	177	479	3 860	1 730	5 030	897	272	1 950
3	251	533	243	127	173	476	3 200	1 710	5 020	885	235	1 850
4	250	355	255	144	171	1 260	3 200	1 690	4 440	661	209	1 750
5	228	421	253	106	181	1 830	3 170	1 620	3 950	796	187	1 630
6	184	846	237	126	172	1 800	2 860	1 530	3 470	787	192	1 540
7	197	1 010	260	119	208	1 850	2 540	1 380	3 050	607	239	1 450
8	152	887	166	117	271	1 880	2 800	1 210	2 640	500	236	1 300
9	158	775	190	110	249	1 910	5 310	1 140	2 360	467	196	1 150
10	126	614	186	139	266	1 920	5 310	959	2 180	367	176	1 020
11	127	508	200	103	489	1 770	4 670	946	1 880	351	158	829
12	116	370	214	120	744	1 590	4 660	764	1 720	589	137	681
13	109	330	225	163	679	1 390	5 300	704	1 620	972	166	545
14	87	292	245	445	556	1 200	5 160	664	1 500	982	153	517
15	128	289	210	2 260	235	4 680	4 520	616	1 280	809	222	514
16	144	224	202	2 570	484	5 070	4 050	799	1 060	635	237	453
17	102	186	219	1 610	478	3 980	3 670	2 330	840	496	132	471
18	113	189	214	1 290	455	3 780	3 340	2 390	717	387	210	327
19	134	200	179	1 280	556	3 830	3 200	2 090	634	344	231	224
20	112	204	261	1 070	1 080	4 150	3 380	1 990	647	309	263	265
21	110	216	406	920	1 340	4 350	4 480	1 920	597	232	293	221
22	158	201	475	787	1 230	4 140	5 120	1 840	523	237	183	254
23	206	158	416	572	1 190	3 630	5 260	1 830	381	202	188	177
24	137	159	299	447	1 200	3 030	4 740	1 840	544	215	155	189
25	131	159	269	348	1 140	2 610	4 180	1 780	873	244	142	410
26	133	177	255	288	983	2 190	3 650	1 800	1 160	204	234	798
27	156	163	150	232	828	1 900	3 150	1 790	1 460	219	291	920
28	190	186	177	223	740	1 750	2 760	2 050	1 300	346	627	860
29	172	203	178	215	552	1 870	2 380	2 080	1 190	350	1 080	775
30	193	137	183	197	-	2 000	2 110	2 010	1 250	321	938	605
31	325	-	162	191	-	3 190	-	3 880	-	356	746	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	47 430	3 480	539	1 530	1 839	2.34	2.70
November	29 466	1 690	558	982	1 297	1.65	1.84
December	56 356	3 880	680	1 818	2 077	2.65	3.06
Calendar year 1934	460 990	5 520	41	1 263	1 562	1.99	26.99
January 1935	44 626	2 960	730	1 440	1 718	2.19	2.52
February	40 807	3 040	468	1 457	1 750	2.23	2.32
March	59 670	2 620	1 230	1 925	2 221	2.83	3.26
April	34 108	1 880	556	1 137	1 407	1.79	2.00
May	13 625	895	128	440	629	.801	.92
June	8 468	564	101	282	499	.636	.71
July	17 506	1 180	45	565	802	1.02	1.18
August	3 647	240	42	118	197	.251	.30
September	7 045	671	65	235	392	.499	.56
Water year 1934-35	362 754	3 880	42	994	1 235	1.57	21.37
October 1935	4 086	880	37	132	257	.327	.38
November	37 333	2 340	479	1 244	1 807	2.30	2.57
December	28 314	2 150	265	913	1 189	1.51	1.74
Calendar year 1935	299 235	3 040	37	820	1 067	1.36	18.46
January 1936	63 628	3 880	284	2 053	2 518	3.21	3.70
February	18 866	1 580	430	651	874	1.11	1.20
March	209 390	18 200	1 720	6 755	7 297	9.30	10.72
April	88 994	6 600	937	2 966	3 212	4.09	4.56
May	25 586	1 680	232	825	994	1.27	1.46
June	19 618	1 560	153	654	887	1.13	1.26
July	6 152	404	107	198	262	.334	.39
August	5 281	525	72	170	231	.294	.34
September	4 545	363	69	152	211	.269	.30
Water year 1935-36	511 793	18 200	37	1 398	1 650	2.10	28.62

* Adjusted for change in contents in reservoirs on Rockaway, Pequannock, and Wanaque Rivers and in Greenwood Lake and for diversions for municipal supply.

Passaic River at Paterson--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	14 374	1 470	180	464	618	0.787	0.91
November	8 341	421	179	278	397	.506	.56
December	54 377	5 250	137	1 754	2 503	3.19	3.68
Calendar year 1936	519 152	18 200	69	1 418	1 677	2.14	29.08
January 1937	82 700	4 750	1 640	2 668	3 363	4.28	4.93
February	58 557	5 370	917	2 091	2 543	3.24	3.37
March	48 090	2 300	788	1 551	1 823	2.32	2.68
April	58 144	3 220	994	1 938	2 216	2.82	3.15
May	53 616	4 200	488	1 730	1 984	2.53	2.92
June	15 497	1 220	280	517	731	.931	1.04
July	9 171	610	139	296	428	.545	.63
August	18 475	1 860	90	596	856	1.09	1.26
September	16 142	1 730	193	538	696	.887	.99
Water year 1936-37	437 484	5 370	90	1 199	1 510	1.92	26.12
October 1937	16 290	1 300	160	526	822	1.05	1.21
November	55 104	4 880	448	1 837	2 418	3.08	3.44
December	52 306	2 820	779	1 687	1 931	2.46	2.84
Calendar year 1937	484 092	5 370	90	1 326	1 645	2.10	28.46
January 1938	62 720	6 900	594	2 023	2 303	2.93	3.38
February	52 080	3 280	1 190	1 860	2 089	2.66	2.77
March	38 132	1 940	807	1 230	1 508	1.92	2.21
April	42 911	2 200	679	1 430	1 718	2.19	2.44
May	22 201	1 630	310	716	961	1.22	1.41
June	30 316	4 400	342	1 011	1 350	1.72	1.92
July	78 793	6 880	486	2 542	2 789	3.55	4.09
August	36 620	3 200	224	1 181	1 361	1.73	1.99
September	62 049	9 140	149	2 068	2 441	3.11	3.47
Water year 1937-38	549 522	9 140	149	1 506	1 803	2.30	31.17
October 1938	25 903	2 180	409	836	1 019	1.30	1.50
November	22 099	1 240	456	737	962	1.23	1.37
December	76 112	5 670	935	2 455	2 836	3.61	4.16
Calendar year 1938	549 936	9 140	149	1 507	1 777	2.26	30.71
January 1939	44 084	2 860	573	1 422	1 684	2.15	2.48
February	82 420	4 030	1 700	2 944	3 284	4.18	4.35
March	94 700	4 570	1 960	3 055	3 312	4.22	4.86
April	106 020	5 320	2 040	3 534	3 779	4.81	5.37
May	27 016	1 930	335	871	1 098	1.40	1.61
June	7 465	487	149	249	374	.476	.53
July	5 823	449	69	188	259	.330	.38
August	5 790	455	54	187	269	.343	.40
September	3 754	190	79	125	166	.211	.24
Water year 1938-39	501 186	5 670	54	1 373	1 576	2.01	27.25
October 1939	5 044	325	87	163	255	.325	.37
November	11 134	1 010	137	371	545	.694	.77
December	7 239	475	135	234	387	.493	.57
Calendar year 1939	400 489	5 320	54	1 097	1 269	1.62	21.93
January 1940	16 601	2 570	103	536	792	1.01	1.16
February	17 029	1 340	171	587	842	1.07	1.15
March	76 000	5 070	476	2 452	3 445	4.39	5.06
April	116 340	5 310	2 110	3 878	4 747	6.05	6.75
May	50 932	3 880	616	1 643	2 065	2.63	3.03
June	58 096	5 030	381	1 937	2 153	2.74	3.06
July	15 907	1 140	202	513	687	.875	1.01
August	9 082	1 080	132	293	482	.614	.71
September	24 825	1 950	177	828	1 070	1.36	1.52
Water year 1939-40	408 229	5 310	87	1 115	1 452	1.85	25.16

* Adjusted for change in contents in reservoirs on Rockaway, Pequannock, and Wanaque Rivers and in Greenwood Lake and for diversions for municipal supply.

Canoe Brook near Summit

Location.- Water-stage recorder and concrete control, lat. 40°44'40", long. 74°21'20", in Essex County, just downstream from intake to pumping plant of Commonwealth Water Co., half a mile upstream from mouth, and 2 miles north of Summit, Union County.

Drainage area.- 11 square miles.

Records available.- February 1930 to September 1940.

Remarks.- Figures of discharge represent only flow over control. Water for municipal supply diverted from brook just above control by Commonwealth Water Co. Water pumped from wells in the basin may also affect the flow in the stream.

Cooperation.- Water-stage recorder inspected by employee of Commonwealth Water Co.

Daily discharge, in second-feet, 1930-40

1930

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	3.4	4.8	3.3	4.0	3.4	0.1	0.2
2					-	6.3	4.7	4.3	3.6	2.8	.1	.2
3					-	3.0	3.6	3.9	3.5	1.6	.1	.2
4					-	2.9	3.5	2.8	2.8	.9	.1	.1
5					-	3.0	3.5	3.2	1.5	.6	.1	.1
6					-	2.7	3.9	3.1	.7	.4	.1	.2
7					-	2.6	c	3.3	3.2	.4	.1	.2
8					-	c	c	2.6	3.4	.3	.1	.1
9					-	c	5.9	1.5	3.6	.2	.2	.1
10					5.3	c	3.8	3.0	41	.4	.1	.1
11					4.4	c	5.2	3.5	15	.4	.1	d
12					4.0	c	3.5	3.5	4.8	.3	.1	d
13					19	c	4.9	3.5	4.1	.3	.1	d
14					24	3.5	3.8	3.3	2.6	.3	.1	a
15					3.9	2.2	2.1	5.2	2.6	.3	.4	a
16					4.6	1.7	6.6	3.8	1.8	.2	.2	a
17					a	2.1	5.5	4.0	1.5	.2	.2	a
18					a	2.6	6.2	4.4	1.8	.2	.2	a
19					5.5	4.0	4.8	4.6	2.2	.2	.1	a
20					4.7	4.2	2.9	6.0	d	.2	.1	a
21					5.0	4.0	3.0	4.8	d	.2	.1	a
22					2.5	3.4	3.3	4.2	d	1.1	.1	a
23					3.8	4.3	2.1	4.1	.2	.4	1.8	a
24					4.8	4.2	4.6	3.6	.2	.9	.4	a
25					5.2	8.5	3.4	2.2	.2	.7	2.0	a
26					c	7.4	5.4	3.6	.2	.3	2.4	a
27					c	3.0	4.8	3.6	.5	.3	1.4	a
28					7.5	5.7	4.2	3.9	.2	.2	.2	a
29					-	2.6	3.4	4.2	.2	.2	.2	a
30					-	3.2	3.0	4.2	.1	.2	.2	a
31					-	4.0	-	4.3	-	.1	.2	-

a No gage-height record.
c No discharge record; stage-discharge relation indefinite because weir was submerged by backwater from Passaic River.
d Drain through weir open.

Canoe Brook near Summit--Continued

Daily discharge, in second-feet, 1930-40--Continued

1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a	0.2	a	a	m	m	c	1.0	c	0.2	0.1	0.1
2	a	.2	a	a	m	m	c	3.7	c	.2	0	.2
3	a	.2	a	1.9	m	m	c	2.4	8.2	.2	.1	2.0
4	a	.2	a	1.9	a	m	c	1.4	6.0	.2	.1	2.0
5	a	.6	a	4.3	a	m	2.0	.2	3.1	.2	.1	d
6	a	.3	1.2	m	a	m	2.2	1.4	3.2	1.2	.1	d
7	a	.2	1.2	a	a	m	2.3	0	2.8	2.4	.1	d
8	a	.2	a	a	a	m	21	5.0	c	2.1	.1	d
9	a	.2	a	m	a	a	5.4	11	c	1.5	d	d
10	a	.2	a	m	a	a	1.2	3.4	c	3.9	d	d
11	a	.2	a	m	a	a	1.6	6.3	c	3.4	d	d
12	a	.3	a	m	a	a	1.9	14	c	2.6	d	d
13	a	.3	a	m	a	a	.5	23	8.4	.8	.1	d
14	a	.4	a	m	a	a	1.4	33	3.8	.4	.2	d
15	a	1.4	a	m	a	m	.5	25	2.7	.2	.3	d
16	0.2	2.5	a	m	a	m	1.0	18	10	.2	.3	d
17	.2	7.5	a	m	a	1.8	1.6	4.0	c	.1	.2	d
18	.2	38	a	m	m	.8	1.2	2.1	c	.1	.2	d
19	.1	3.9	a	m	m	.1	1.4	3.0	9.0	.1	.3	d
20	.2	.6	.1	m	m	1.6	1.3	.6	4.9	.1	.2	d
21	.2	.8	.1	m	m	2.8	.7	1.3	1.6	.1	.1	d
22	.2	1.9	.4	m	m	1.4	.3	2.5	2.9	.2	.2	d
23	.1	.7	.2	m	m	.2	5.8	c	2.2	.2	.2	d
24	.1	1.9	.2	m	m	1.0	4.4	c	2.6	.2	.2	d
25	.1	1.7	.2	m	m	2.2	.4	6.0	1.8	.2	.2	d
26	.1	1.4	.3	m	m	2.5	18	9.5	1.3	.2	.2	d
27	.1	1.2	a	m	m	.7	21	5.6	1.1	.2	.2	d
28	.1	a	a	m	m	.8	3.4	1.3	.8	.2	.2	d
29	.2	h1.3	a	m	-	c	1.4	3.3	.4	.2	.2	d
30	.2	a	a	m	-	c	.7	2.6	.3	.2	.2	d
31	.3	-	a	m	-	c	-	5.2	-	.1	.2	-

1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	d	0.2	0.7	0.4	0.1	0.1	c	9.2	0.7	0.2	0	d
2	d	.2	.6	10	0	.4	c	8.8	.7	.8	0	d
3	d	.2	.6	10	.4	0	5.2	1.2	.5	1.3	0	d
4	d	.1	.8	.4	15	.7	1.2	1.1	.4	.8	d	d
5	d	.1	.5	0	c	2.0	2.6	1.2	.1	.7	d	d
6	d	.1	.7	15	7.5	28	1.5	.4	.1	.4	d	d
7	d	.1	.7	c	1.4	73	.4	1.1	.1	.2	d	d
8	d	.1	.6	c	3.1	6.0	.5	2.4	.1	.1	d	d
9	d	.1	.5	c	1.8	.7	1.4	3.1	0	.1	d	d
10	d	.1	.5	c	.9	2.2	10	.7	0	0	d	d
11	d	d	.2	c	33	2.1	33	1.7	0	0	d	d
12	d	d	.3	1.1	11	1.3	c	1.6	.1	.2	d	d
13	d	d	.6	4.1	3.6	1.1	c	3.1	.2	.2	d	d
14	d	d	0	2.8	.1	.3	c	1.4	d	.2	d	d
15	d	d	0	1.7	1.0	.2	6.4	1.8	0	.1	d	d
16	d	d	0	.6	1.0	2.0	4.7	4.1	0	0	d	d
17	0.6	d	0	1.3	2.1	1.7	2.4	3.0	.1	0	d	d
18	.5	d	0	.4	2.0	3.2	.7	2.1	.6	0	d	d
19	.5	d	0	1.3	1.0	1.4	1.6	1.6	.4	0	d	d
20	.2	d	.2	.4	.7	.9	1.3	1.3	.2	0	d	d
21	1.2	d	0	.2	.3	1.0	.4	1.1	.1	0	d	d
22	.4	d	0	.4	.8	18	1.4	.9	2.0	0	d	d
23	.1	d	0	.3	.7	7.4	4.4	.8	4.0	0	d	d
24	.1	d	0	1.6	0	1.8	2.3	.8	.5	0	d	d
25	0	d	.3	1.0	0	1.4	3.1	.8	.2	0	d	d
26	0	d	.4	.2	.4	1.5	3.5	1.3	.1	0	d	d
27	1.0	d	.4	1.6	.7	3.0	3.4	1.3	.1	0	d	d
28	.5	.1	.3	1.6	.4	c	4.6	2.5	1.0	0	d	d
29	1.4	.3	.5	.3	.5	c	3.6	1.6	.7	0	d	d
30	.8	.7	.7	1.4	-	c	3.0	.8	.8	0	d	d
31	.9	-	.6	1.2	-	c	-	.7	-	0	d	-

a No gage-height record.
c No discharge record; stage-discharge relation indefinite because weir was submerged by backwater from Passaic River.
d Drain through weir open.
h Computed on basis of hook gage reading.
m No discharge record; flashboards on weir.

Canoe Brook near Summit--Continued

Daily discharge, in second-feet, 1930-40--Continued

1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	d	c	a	1.6	0.8	9.3	16	3.9	3.9	0.5	0	0.5
2	d	c	a	1.2	2.2	8.7	a	3.3	3.4	6.6	0	.9
3	d	c	1.0	4.7	1.5	9.3	a	6.8	3.1	5.2	0	4.4
4	d	1.6	.8	7.8	1.7	9.0	a	10	5.5	4.1	0	c
5	0	.2	.5	4.0	4.3	7.2	a	5.2	5.5	3.1	.1	c
6	0	.4	.9	1.0	a	5.7	a	8.4	16	1.7	.1	c
7	.4	c	2.0	.9	a	15	a	49	8.9	.8	0	c
8	.1	c	3.3	.4	a	c	c	6.4	8.0	.4	0	c
9	.4	c	3.0	9.1	a	c	23	4.2	3.6	.2	0	3.0
10	.2	c	2.8	22	a	c	15	13	4.7	.2	.3	2.7
11	0	c	2.6	9.0	11	12	12	12	3.2	.1	.7	2.1
12	0	c	a	5.8	a	9.7	c	10	3.2	.1	.6	1.3
13	0	c	a	1.6	a	8.5	c	8.0	7.7	.1	.6	.7
14	0	c	a	2.2	a	c	c	6.3	3.2	.1	1.0	6.6
15	0	c	a	3.0	a	c	c	5.0	3.0	.2	1.3	c
16	0	c	h1.9	1.8	a	9.4	c	5.5	1.7	.4	.8	c
17	0	1.5	a	2.1	a	5.3	c	14	1.5	1.4	.6	c
18	c	.8	a	2.1	8.3	9.0	c	10	2.1	1.0	.6	c
19	c	c	a	4.2	15	11	c	7.0	2.5	.4	.3	c
20	1.8	c	a	6.3	c	c	c	4.6	1.9	.2	0	c
21	.4	c	a	4.2	c	c	c	3.5	1.2	.2	.1	c
22	0	a	2.4	5.8	c	c	17	2.3	.6	.2	6.7	c
23	.6	a	3.0	10	c	a	14	3.8	.3	.2	c	c
24	1.3	a	5.1	8.0	c	a	8.4	2.9	.3	.2	c	4.3
25	.9	a	14	4.6	c	c	4.8	3.0	.2	.2	c	3.6
26	.8	4.9	16	9.7	22	a	3.8	2.7	.2	.2	c	2.7
27	2.6	a	6.2	14	16	a	2.9	2.0	.2	.2	c	2.3
28	.9	a	c	11	10	a	2.4	3.8	.2	.1	c	2.1
29	.1	a	c	7.8	-	15	4.3	4.0	.2	0	c	2.2
30	.3	a	c	4.9	-	11	4.4	8.8	.2	0	c	2.0
31	1.2	-	3.6	2.0	-	8.1	-	7.1	-	0	c	-

1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	0.8	0.5	a		a	c	2.8	5.4	1.2	0	0
2	3.4	.8	.4	a		a	c	3.5	4.6	.6	0	0
3	2.9	.7	.3	a		a	c	c	3.4	.5	0	0
4	1.8	.7	.5	a		a	c	c	1.7	.6	0	0
5	1.4	.6	.8	a		a	c	c	.7	.4	0	0
6	1.9	.8	1.2	a		c	c	12	.8	.3	0	0
7	1.5	1.6	1.5	a		c	c	12	.9	.2	0	0
8	1.0	1.7	1.6	a		c	c	9.0	.7	.3	0	17
9	.9	1.4	1.4	c		c	21	7.2	d	.5	d	c
10	.7	1.2	1.0	c		c	7.2	6.0	d	d	d	4.4
11	.6	.8	.7	c		c	6.7	8.5	.5	d	d	6.3
12	.5	.8	.5	c		3.5	c	8.0	.6	0	0	4.1
13	.5	.7	.3	5.3		7.1	c	6.0	.9	0	0	3.5
14	.6	.8	.3	11		9.3	c	4.9	.8	0	0	2.6
15	.5	1.1	.3	4.1	a	7.1	c	6.4	.7	0	0	3.8
16	.5	.8	.5	4.4		6.0	c	13	.7	0	3.3	3.6
17	1.5	.5	2.3	3.9		6.7	c	5.8	.6	0	2.8	c
18	6.8	.5	5.0	4.4		7.5	c	4.9	.5	.2	1.4	c
19	3.9	.7	4.1	5.3		7.5	23	4.6	c	.3	1.1	c
20	2.3	.7	3.5	4.0		5.0	22	4.1	9.0	.2	.7	5.5
21	1.5	.7	16	3.6		5.2	19	4.7	5.2	.1	.3	3.8
22	1.2	.7	5.0	3.3		5.3	13	6.2	4.3	0	.2	3.8
23	d	.6	4.1	23		a	7.2	31	3.3	0	.2	6.2
24	d	.3	3.9	12		a	5.0	5.7	2.8	0	.3	5.2
25	d	.5	2.6	5.5		a	11	c	2.5	0	.2	4.2
26	d	.5	3.5	8.2		6.3	4.9	c	2.2	0	.2	3.8
27	2.4	.5	3.9	4.1		7.8	5.2	c	1.9	0	.1	2.9
28	1.8	.7	3.6	4.7		c	6.7	10	2.3	0	.1	2.1
29	1.3	.6	a	7.0		c	8.3	10	1.9	0	.1	2.2
30	1.1	.5	a	2.6		c	6.0	9.0	1.9	0	0	c
31	.9	-	a	a		c	-	7.4	-	0	0	-

a No gage-height record.
c No discharge record; stage-discharge relation indefinite because weir was submerged by backwater from Passaic River.
d Drain through weir open.
h Computed on basis of hook-gage reading.

Canoe Brook near Summit--Continued

Daily discharge, in second-feet, 1930-40--Continued

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	c	1.7	c	32		a	5.2	5.2	0.1	0.6	0.1	0
2	c	1.9	c	34		19	2.9	3.3	.1	.4	.1	0
3	5.0	2.0	5.8	4.0		16	5.3	3.0	.1	.2	.1	0
4	5.2	4.0	8.2	3.8		6.7	5.2	2.8	.2	.2	.1	0
5	3.4	5.9	5.3	4.1		6.2	6.0	2.5	d	.1	0	0
6	c	4.8	4.6	4.7		7.7	5.3	3.2	d	.1	0	c
7	c	5.7	6.4	4.9		5.7	5.0	7.5	0	0	0	5.4
8	c	3.4	8.0	6.4		4.1	4.4	3.9	0	0	d	3.0
9	c	4.4	5.5	6.3		3.4	c	4.1	1.3	.2	d	2.2
10	c	4.9	3.9	9.0		3.9	44	4.2	1.8	.7	d	1.2
11	6.4	4.7	2.8	5.0		7.4	26	3.5	1.4	.7	d	.7
12	4.9	4.6	2.0	2.9		14	18	2.7	1.0	.7	d	.5
13	3.4	4.1	2.2	5.8		c	19	2.2	.8	.8	d	.4
14	2.7	3.5	2.4	6.6		c	15	2.1	.7	.7	d	.3
15	2.0	2.9	2.3	4.1	a	c	8.0	1.9	.5	.7	d	.2
16	.3	2.6	2.2	3.8		7.2	3.5	1.4	.5	.6	0	.2
17	.4	2.4	2.7	3.9		7.2	3.4	1.0	.4	.6	.2	.2
18	.8	2.2	2.6	4.3		6.8	5.7	.2	.6	.3	.1	.2
19	1.1	2.1	13	4.0		6.6	6.7	.1	.6	.1	0	.2
20	1.0	2.0	43	4.3		6.7	5.9	0	.6	.1	0	.2
21	.9	2.0	5.7	5.5		18	5.4	0	.5	.1	0	.1
22	3.5	2.6	4.4	a		26	5.0	0	.7	.1	0	.1
23	4.1	3.0	4.2	a		15	4.6	0	.7	.1	0	0
24	2.7	8.0	3.3	a		11	4.1	0	.7	.1	0	0
25	2.1	10	3.6	a		6.0	3.5	0	.7	.2	0	0
26	2.1	6.7	8.3	a		7.0	3.0	.1	.7	.4	0	0
27	2.7	5.0	7.0	a		5.3	2.7	.1	.7	.4	0	0
28	2.8	4.6	3.9	a		7.2	2.4	.1	.8	.4	0	0
29	2.1	4.8	4.7	a		20	2.7	.1	.7	.4	0	0
30	1.7	32	5.2	a		6.8	4.4	.1	.7	.3	0	0
31	1.7	-	4.0	a		5.0	-	.1	-	.2	0	-

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	c	3.0	a	h2.4	c	10	a	0.2	2.3	0	0.2
2	0	c	4.0	a	a	a	7.8	h2.2	.5	.7	0	.2
3	0	3.8	2.8	c	a	a	9.0	2.9	.8	1.1	0	.2
4	0	2.4	4.8	c	a	c	4.3	36	.2	.7	0	.2
5	0	1.6	4.2	c	a	c	7.2	12	.1	.5	0	.2
6	0	1.2	3.2	c	a	c	c	11	.4	.4	0	.2
7	0	1.0	2.3	c	a	c	c	7.5	.3	.3	0	.1
8	0	.9	2.4	c	h1.8	c	c	6.3	.2	.3	0	.1
9	0	1.1	4.1	c	a	c	c	4.6	.2	.2	a	0
10	0	1.2	6.0	c	h1.6	c	c	3.1	.3	.3	a	0
11	0	1.1	5.4	c	a	c	c	2.4	.4	h.2	a	0
12	0	1.0	4.0	c	a	c	c	2.1	1.4	a	a	0
13	0	1.7	3.2	c	a	c	c	2.4	8.1	a	a	0
14	0	7.2	3.1	c	a	c	c	10	7.7	a	h.8	0
15	0	6.3	3.8	c	1.9	c	14	5.8	c	a	.2	0
16	0	4.0	6.3	c	2.0	c	8.7	3.0	5.2	a	.5	0
17	0	11	5.9	c	2.3	c	14	a	5.7	a	.3	0
18	0	c	3.0	c	3.4	c	11	a	33	h0	.1	1.4
19	d	c	4.8	5.3	a	c	9.7	a	15	0	.1	.8
20	d	c	4.4	6.6	a	c	8.2	a	2.2	.2	0	3.2
21	d	c	3.1	a	a	c	7.4	a	c	.5	0	5.9
22	d	3.2	2.1	a	a	c	6.2	a	15	d	0	.2
23	d	5.3	a	a	a	c	5.2	.5	2.5	d	.3	.6
24	d	5.7	a	a	a	c	4.6	.5	2.6	d	c	.2
25	d	4.8	a	h5.2	a	c	3.9	.3	4.0	0	4.1	.8
26	d	4.9	a	a	a	4.7	a	.2	2.9	0	1.8	.2
27	d	5.7	a	a	c	8.1	a	.4	2.3	0	.9	.2
28	d	10	h1.1	a	c	c	a	.7	2.3	0	.6	.1
29	0	c	a	a	c	c	a	.5	2.3	0	.4	.1
30	0	c	a	a	-	7.1	a	.3	2.9	0	.4	.2
31	c	-	a	h2.5	-	14	-	.2	-	0	.2	-

a No gage-height record.
c No discharge record: stage-discharge relation indefinite because weir was submerged by backwater from Passaic River.
d Drain through weir open.
h Computed on basis of hook-gage reading.

Canoe Brook near Summit--Continued

Daily discharge, in second-feet, 1930-40--Continued
1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	0.6	0.1	22	c	5.5	5.7	5.0	0.1	3.2	0	3.0
2	11	.6	1.9	6.3	4.2	5.4	5.7	7.2	.1	2.8	0	1.3
3	3.6	.5	39	82	8.7	6.3	5.4	8.1	.2	1.2	0	.3
4	.2	.6	14	28	3.3	16.4	4.4	7.0	.1	.7	0	.1
5	2.2	1.5	8.6	6.1	3.9	8.2	4.1	6.0	d	.4	0	1.3
6	.5	1.5	18	4.0	4.5	6.6	60	6.2	d	.4	0	3.3
7	.6	1.2	c	59	6.7	4.6	28	5.7	3.1	.3	0	1.8
8	.5	1.2	6.5	c	6.8	2.7	6.3	4.3	.2	.2	0	.9
9	.5	2.5	2.7	14	6.6	5.7	5.7	4.2	.2	.2	0	.4
10	1.3	1.4	3.5	34	6.1	5.6	4.3	4.7	.2	.2	0	.2
11	.2	2.3	32	29	5.6	3.3	9.6	3.5	.3	.1	0	.2
12	2.2	.2	47	9.1	5.7	3.0	8.0	2.8	.5	.3	d	.2
13	.5	1.7	7.9	4.9	6.2	h3.5	6.7	2.7	.7	d	0	8.9
14	.4	2.1	4.6	5.3	15	a	6.2	31	2.2	d	a	24
15	.4	1.1	3.6	c	5.6	a	4.4	c	14	3.8	a	14
16	.5	.7	6.3	22	6.9	a	5.9	11	8.6	7.7	a	8.0
17	106	.5	c	25	6.8	a	4.7	6.1	.7	3.2	a	5.5
18	22	.5	4.4	c	5.3	12	4.2	8.2	.6	1.5	a	2.9
19	8.3	.4	5.2	c	5.3	9.9	5.8	4.9	2.3	.5	a	1.6
20	5.2	.4	c	c	5.1	8.2	4.4	1.0	1.4	.2	a	.8
21	3.5	.2	c	7.6	7.7	c	8.7	.2	2.7	.1	a	.5
22	2.6	.1	c	c	c	c	c	.2	42	.1	.9	.3
23	2.1	.1	c	c	c	5.1	25	9.3	23	.1	c	.2
24	1.8	.5	c	c	c	4.4	5.3	3.9	6.7	0	18	.2
25	1.4	.7	5.7	c	c	7.1	5.4	2.3	.2	0	13	.3
26	1.2	1.0	5.4	c	11	5.9	12	1.8	.1	0	8.1	.4
27	1.3	1.2	4.2	c	8.7	5.7	c	1.4	.1	0	5.5	.4
28	.9	1.0	3.1	c	6.4	7.5	c	1.3	.2	0	5.6	.5
29	.9	.8	5.7	5.4	-	7.7	c	.8	3.7	0	1.8	.3
30	.8	.6	4.3	2.8	-	6.7	c	.1	.2	0	1.5	.2
31	.7	-	29	69	-	6.0	-	.1	-	0	2.8	-

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	3.0	c	7.0	8.7	2.6	4.0	3.0	1.3	c	9.0	0.4
2	.2	1.9	5.7	9.1	4.1	2.7	5.3	2.7	1.2	c	4.8	.4
3	.2	1.0	5.2	12	6.3	6.6	4.2	2.1	1.2	c	3.9	.4
4	.2	.7	5.8	6.9	7.5	5.1	5.1	1.8	1.1	3.2	3.4	.4
5	.2	.5	7.4	6.2	5.8	5.6	4.6	1.6	1.1	4.3	2.4	.3
6	.2	.5	23	5.5	7.5	5.8	3.6	1.6	1.3	2.3	77	.2
7	.2	.4	10	c	22	6.6	4.9	1.3	10	2.7	25	.2
8	.2	.4	3.8	25	4.2	6.5	16	.9	40	4.1	33	.3
9	.1	.4	6.2	6.6	5.7	3.2	c	.8	5.2	a	28	d
10	.1	.3	5.3	5.1	8.3	4.8	c	2.6	3.4	a	6.1	d
11	.1	.3	3.9	8.5	4.1	6.4	8.2	2.5	8.6	a	21	0
12	.1	.4	2.8	8.3	4.1	6.5	4.9	1.8	8.7	a	10	0
13	.1	c	2.4	8.0	8.3	3.5	3.3	1.6	23	a	8.8	.2
14	.1	c	2.1	6.8	7.5	21	3.4	1.6	9.8	a	5.2	.2
15	.1	c	2.1	5.9	4.4	40	4.1	c	4.2	a	3.4	.3
16	.3	c	4.5	4.9	2.0	28	4.3	3.7	4.9	1.6	2.3	.3
17	0	c	10	5.5	4.7	c	5.6	4.5	3.8	1.2	1.7	.3
18	0	8.5	33	3.9	5.7	16	c	3.2	12	.8	1.7	.3
19	0	9.5	8.5	a	7.8	4.7	c	2.4	5.3	.7	1.7	2.9
20	3.9	11	5.1	a	c	6.0	12	2.4	2.6	1.3	1.3	c
21	4.6	9.0	4.6	a	6.8	6.6	3.9	2.4	1.7	12	1.0	c
22	1.2	7.4	5.2	3.8	5.9	4.6	6.4	2.3	1.7	c	.8	c
23	14	5.0	3.7	3.8	9.7	3.4	4.8	2.0	1.4	c	.7	c
24	13	4.1	4.3	15	12	3.2	6.4	2.8	1.5	c	.4	c
25	6.8	3.9	18	c	3.3	4.9	7.4	5.4	1.2	c	.4	c
26	3.1	3.9	3.6	c	7.1	5.7	6.4	2.8	6.3	c	.2	c
27	2.4	4.3	6.2	c	8.9	3.1	5.5	7.7	25	c	.3	c
28	c	c	7.5	c	5.9	2.4	4.9	3.3	c	c	.3	c
29	11	c	6.7	c	-	2.0	4.2	3.7	c	c	.3	3.6
30	5.5	c	5.6	4.7	-	1.9	3.3	2.3	c	c	.3	2.3
31	4.2	-	6.3	30	-	5.2	-	1.7	-	9.2	.3	-

a No gage-height record.
c No discharge record; stage-discharge relation indefinite because weir was submerged by backwater from Passaic River.
d Drain through weir open.
h Computed on basis of hook-gage reading.

Canoe Brook near Summit--Continued

Daily discharge, in second-feet, 1930-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	a	7.6	7.7	a	c	h16	15	0.6	11	0.4	0.8
2	1.5	a	5.8	7.8	a	c	c	6.4	.6	2.7	.4	.5
3	1.3	a	7.4	8.3	a	c	c	9.0	.7	1.2	.4	.6
4	1.3	a	c	8.0	a	c	c	7.7	.7	.9	1.0	.5
5	1.3	2.3	c	7.0	c	24	12	6.4	.7	.8	.8	.7
6	1.5	1.5	c	c	c	c	c	7.5	.7	.8	.7	.5
7	3.9	1.5	a	c	c	34	c	3.1	.6	.8	.7	.4
8	3.7	1.7	a	c	c	14	c	4.4	.7	.8	.7	.4
9	2.9	2.9	a	8.0	c	15	c	4.8	.7	.6	.6	.4
10	2.2	4.4	c	5.9	c	12	16	6.3	.5	.7	.6	.5
11	1.7	3.8	9.4	8.1	c	13	14	4.0	.6	.7	.6	.4
12	1.4	2.9	8.1	6.3	c	22	25	6.2	.5	.6	.7	.4
13	1.0	2.4	7.2	3.2	c	50	13	4.8	.7	.6	.7	.4
14	.9	2.1	11	7.2	22	c	11	3.9	.8	.6	.8	.4
15	.9	2.0	7.3	a	c	c	8.9	.7	.6	.5	1.2	.3
16	.8	1.7	7.2	a	c	c	6.0	.8	.5	.5	2.1	.3
17	.8	1.8	7.1	a	11	c	8.5	1.8	.5	.5	1.3	.4
18	.9	2.4	7.8	a	8.5	c	38	2.1	.5	.4	1.2	.3
19	.8	5.2	8.1	a	8.1	a	c	2.1	.5	.4	1.4	.3
20	.9	12.8	7.5	a	8.1	a	c	1.7	.5	.3	42	.4
21	3.1	6.6	6.4	h5.0	5.7	a	c	1.7	.5	.2	2.1	.5
22	3.8	5.7	6.6	a	6.7	a	c	4.0	.5	.3	1.6	.4
23	2.6	7.2	3.1	a	10	a	12	4.6	.6	.2	1.2	.2
24	2.8	7.5	2.2	a	9.0	a	7.7	4.0	.6	.2	1.0	.3
25	5.6	6.8	2.1	a	7.7	h6.6	4.4	3.0	.6	.2	1.0	.3
26	5.4	7.4	2.2	a	c	a	10	2.3	.5	.2	1.4	.3
27	3.6	7.8	c	a	c	a	9.8	1.2	.5	.6	1.2	.3
28	2.1	9.0	c	h2.1	c	a	12	1.2	.5	.7	1.0	.5
29	2.8	8.1	3.1	a	-	a	9.1	.7	.5	.6	.9	.3
30	a	9.3	3.1	a	-	a	7.2	.7	12	.6	.9	.8
31	a	-	5.9	a	-	a	-	.7	-	.5	.8	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	7.6	0.4	0.4	0.3	a	a	7.7	c	2.2	0.1	c
2	.7	2.8	.5	.4	.3	4.0	a	8.5	c	.8	0	4.9
3	.9	2.0	.7	.4	.3	4.0	a	9.7	c	.2	.1	2.7
4	.8	1.1	.9	.5	a	c	a	8.5	c	3.4	.1	3.1
5	.7	35	.8	.5	a	c	a	12	c	4.4	.1	2.1
6	.7	27	.7	.5	a	c	a	14	6.7	2.9	.1	1.5
7	.6	5.1	.7	a	a	c	a	8.1	2.6	1.8	.2	.4
8	.6	4.4	.8	a	a	c	a	6.0	2.4	1.2	.2	.3
9	.4	2.4	.7	a	a	c	a	5.5	2.3	.6	.1	2.1
10	.4	1.6	.7	a	a	c	a	5.7	c	.2	.1	1.4
11	.4	1.7	.8	a	6.0	9.0	a	5.8	c	3.9	.1	.8
12	.4	1.3	.8	a	5.1	7.7	a	4.7	5.8	31	.1	.5
13	.5	1.1	.8	.2	3.7	4.6	a	4.8	4.8	4.2	.2	.4
14	.4	1.0	1.5	8.2	2.6	17	a	4.7	2.5	3.8	.2	.3
15	.3	.9	1.3	c	1.7	c	a	3.4	1.0	3.6	.1	.3
16	.3	.8	1.1	10	1.5	c	a	30	.5	4.3	.1	.2
17	.5	.7	1.1	a	d	c	a	c	.5	4.4	.3	.2
18	.5	.7	1.1	a	d	c	a	c	.9	2.6	.3	.2
19	.5	.7	.9	a	d	c	a	6.3	1.1	2.0	.2	.2
20	.5	.6	1.8	h2.6	25	c	a	3.8	2.8	.9	.3	.2
21	.5	.6	5.2	a	7.7	9.7	a	4.2	2.3	.2	.1	.2
22	.9	.6	3.1	a	4.3	10	a	4.9	.3	.2	d	.3
23	.8	.6	1.9	.3	2.1	a	a	9.9	.2	.2	0	.2
24	.7	.5	1.3	.3	a	a	a	6.8	2.3	.2	0	1.4
25	.8	.5	1.0	.3	a	a	a	3.2	5.2	.3	.1	15
26	.4	.5	.8	.3	a	a	a	3.6	8.9	.3	.4	3.1
27	.4	.5	.6	.3	a	a	15	4.2	6.1	.4	.5	1.8
28	.8	.5	.5	.3	a	a	4.7	c	2.3	.5	5.3	2.4
29	.6	.4	.5	.3	a	a	5.8	c	3.1	.4	7.9	3.1
30	.7	.4	.4	.3	-	a	11	c	2.1	.4	4.0	1.6
31	8.8	-	.4	.3	-	a	-	a	-	.2	3.2	-

a No gage-height record.
c No discharge record; stage-discharge relation indefinite because weir was submerged by backwater from Passaic River.
d Drain through weir open.
h Computed on basis of hook-gage reading.

Rockaway River above reservoir, at Boonton

Location.- Water-stage recorder and concrete control, lat. 40°54'06", long. 74°24'40", at Morris Avenue in Boonton, Morris County, 1.8 miles upstream from Boonton Reservoir Dam. Datum of gage is 364.47 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 116 square miles.

Records available.- October 1937 to September 1940.

Extremes.- 1937-40: Maximum discharge, 2,390 second-feet Mar. 15, 1940 (gage height, 5.76 feet); minimum, 1.5 second-feet Mar. 1, 1938 (gage height, 1.26 feet).

Peak gage height and discharge during period of this record.-
1937: Nov. 14 (8 a.m.) 5.13 ft., 1,900 sec.-ft.
1938: Jan. 25 (7 to 8 p.m.) 5.15 ft., 1,900 sec.-ft.; July 24 (11 a.m. to 2 p.m.) 5.43 ft., 2,120 sec.-ft.; Sept. 22 (9:15 to 10 a.m.) 5.55 ft., 2,220 sec.-ft.; Dec. 6 (6 to 7 p.m.) 4.38 ft., 1,310 sec.-ft.
1939: Mar. 1 (8 to 9 a.m.) 4.20 ft., 1,160 sec.-ft.; Apr. 20 (8 to 9 a.m.) 4.38 ft., 1,310 sec.-ft.
1940: Mar. 15 (4:30 p.m.) 5.76 ft., 2,390 sec.-ft.; Mar. 31 (6 to 9 p.m.) 4.00 ft., 1,030 sec.-ft.; Apr. 9 (noon) 4.42 ft., 1,330 sec.-ft.

Remarks.- Water diverted above station by trunk sewer that intercepts flow.

Cooperation.- Gage-height records collected in cooperation with Department of Streets and Public Improvements, Bureau of Water, Jersey City.

Daily discharge, in second-feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	145	437	183	442	160	271	151	100	589	476	96
2	-	137	393	199	351	208	239	140	76	448	420	85
3	-	125	356	226	335	199	190	131	105	335	341	72
4	-	118	315	183	372	170	186	125	102	262	291	69
5	-	110	296	180	351	195	160	120	105	208	253	64
6	-	102	341	180	341	267	154	120	80	170	281	57
7	-	96	393	308	470	253	180	118	85	140	351	57
8	-	98	325	382	431	212	208	91	173	122	296	57
9	-	108	276	286	356	186	404	112	140	120	262	54
10	-	89	208	226	356	180	522	115	92	96	248	49
11	-	85	164	199	325	170	453	134	91	105	377	50
12	-	89	160	195	286	173	377	115	115	125	377	52
13	-	564	154	190	300	167	335	102	154	134	281	53
14	-	1 700	128	186	341	271	305	100	145	128	208	47
15	-	1 160	142	170	300	382	276	380	116	134	176	64
16	-	853	164	151	244	341	262	459	113	113	154	66
17	-	672	235	183	230	409	230	286	94	89	134	60
18	-	558	409	149	212	399	276	190	98	80	134	67
19	-	476	442	112	248	356	476	151	91	89	128	174
20	-	420	361	157	372	320	399	140	70	225	115	723
21	-	377	310	140	335	305	330	137	66	476	105	1 200
22	-	335	300	145	286	286	320	134	62	1 020	100	2 020
23	-	291	276	140	291	271	296	148	77	1 160	91	1 470
24	-	258	262	173	335	253	258	145	248	1 980	85	1 090
25	-	235	291	1 400	300	226	253	183	154	1 550	78	765
26	-	239	286	1 470	244	226	226	155	138	1 160	74	540
27	-	217	248	990	226	208	195	253	623	888	70	437
28	-	399	226	805	218	212	176	217	930	738	69	361
29	267	751	195	589	-	183	170	151	944	627	64	305
30	217	540	186	516	-	180	157	128	785	685	64	253
31	167	-	180	493	-	212	-	120	-	558	66	-

Rockaway River above reservoir, at Boonton--Continued

Daily discharge, in second-feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	212	125	170	212	367	1 090	505	382	85	76	38	41
2	180	122	160	212	310	812	758	341	78	64	32	34
3	164	125	154	212	438	646	758	310	74	47	30	33
4	151	115	356	199	874	540	596	296	74	45	31	32
5	151	128	546	190	608	558	522	271	72	44	36	38
6	170	142	1 090	474	516	634	534	244	67	42	32	33
7	248	157	1 090	546	453	596	944	226	62	49	33	35
8	204	148	895	442	426	493	758	212	59	49	31	64
9	170	164	772	377	404	453	627	212	56	41	32	54
10	151	157	792	335	404	453	552	296	53	38	31	41
11	145	148	705	320	528	399	522	248	59	33	28	38
12	131	134	577	296	534	388	546	212	60	30	24	33
13	125	131	499	267	459	420	505	183	57	30	22	31
14	122	134	448	258	415	415	442	190	131	34	38	28
15	120	112	393	262	459	426	404	183	102	30	29	27
16	115	110	335	235	758	698	382	176	87	31	28	24
17	112	128	325	244	577	751	367	160	69	29	29	23
18	110	142	315	226	528	571	487	148	62	30	39	24
19	108	145	300	217	499	481	731	140	60	28	34	24
20	112	230	267	186	487	442	1 200	134	91	27	174	23
21	221	208	253	190	476	426	846	125	74	27	95	23
22	195	186	235	208	453	404	666	212	60	24	57	24
23	164	176	208	141	388	382	577	230	56	23	42	21
24	170	183	212	212	351	367	505	183	52	28	39	19.2
25	253	148	208	186	330	361	459	154	46	28	138	22
26	208	186	208	142	420	361	431	134	44	28	78	23
27	173	183	467	190	712	351	426	120	42	30	59	24
28	157	176	420	151	666	481	499	115	42	67	50	34
29	151	167	382	145	-	540	505	100	42	64	52	26
30	142	164	286	274	-	505	426	96	86	54	41	29
31	134	-	230	516	-	583	-	87	-	47	44	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62	140	37	32	50	99	954	327	824	167	55	412
2	54	85	45	49	58	89	830	322	940	139	50	882
3	59	70	72	53	55	99	700	322	850	122	46	633
4	53	66	64	45	60	222	700	370	684	153	44	392
5	42	99	54	33	58	270	682	337	585	154	44	275
6	40	315	49	30	64	248	552	279	500	122	45	188
7	34	239	57	29	75	228	460	266	410	104	73	151
8	31	154	82	33	77	205	503	228	332	94	53	125
9	31	118	70	33	71	198	1 200	232	298	83	48	136
10	30	91	66	32	73	205	928	224	327	75	44	131
11	28	87	82	30	167	173	752	202	312	80	42	114
12	25	85	68	32	158	153	689	213	288	198	41	101
13	25	78	69	37	133	164	908	209	248	177	49	92
14	25	74	82	70	98	201	778	191	194	128	71	83
15	20	67	68	656	57	1 780	672	209	170	99	53	79
16	26	62	64	441	b80	1 400	603	227	154	83	45	77
17	25	56	64	224	b90	856	552	533	158	81	46	71
18	23	52	59	194	b100	732	520	441	145	77	50	67
19	25	49	59	154	136	720	520	332	142	71	55	60
20	24	47	82	125	213	804	650	284	145	65	81	57
21	24	45	148	b100	209	810	981	410	125	64	55	55
22	25	45	112	b90	174	732	967	435	117	58	48	62
23	35	44	84	b80	148	633	817	392	111	55	44	57
24	29	41	74	b75	133	493	694	398	148	55	42	55
25	25	39	70	b70	128	453	615	364	217	55	41	136
26	24	39	67	b65	112	381	552	359	228	53	69	275
27	24	38	52	b60	100	354	500	342	275	69	69	177
28	29	40	50	b55	117	354	435	422	213	176	219	128
29	29	40	44	b55	104	381	392	435	257	114	312	101
30	29	38	45	b50	-	447	354	376	205	83	213	87
31	70	-	44	b50	-	902	-	586	-	67	151	-

b Stage-discharge relation affected by ice.

Rockaway River above reservoir, at Boonton--Continued

Monthly and annual discharge, in second-feet, 1937-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 29-31, 1937	651	267	167	217	221	1.91	0.21
November	11 347	1 700	85	378	383	3.30	3.68
December	8 459	442	128	273	277	2.39	2.76
Calendar year	-	-	-	-	-	-	-
January 1938	10 906	1 470	112	352	356	3.07	3.54
February	8 898	470	212	318	323	2.78	2.90
March	7 580	409	160	245	249	2.15	2.48
April	8 284	522	154	276	281	2.42	2.70
May	5 051	459	91	163	167	1.44	1.66
June	6 172	944	62	206	210	1.81	2.02
July	14 554	1 980	80	469	475	4.09	4.72
August	6 169	476	64	199	204	1.76	2.03
September	10 457	2 020	47	349	353	3.04	3.39
Water year	-	-	-	-	-	-	-
October 1938	4 969	253	108	160	165	1.42	1.64
November	4 574	230	110	152	157	1.35	1.51
December	13 298	1 090	154	429	434	3.74	4.31
Calendar year 1938	100 912	2 020	47	276	281	2.42	32.90
January 1939	8 065	546	141	260	265	2.28	2.63
February	13 840	874	310	494	500	4.31	4.49
March	16 027	1 090	351	517	523	4.51	5.20
April	17 480	1 200	367	583	588	5.07	5.66
May	6 120	382	87	197	201	1.73	1.99
June	2 002	131	42	66.7	70.8	.610	.68
July	1 217	76	23	39.3	42.9	.370	.43
August	1 466	174	22	47.3	50.8	.438	.50
September	925.2	64	19.2	30.8	34.1	.294	.33
Water year 1938-39	89 983.2	1 200	19.2	247	251	2.16	29.37
October 1939	1 025	70	20	33.1	36.4	.314	.36
November	2 443	315	38	81.4	84.8	.731	.82
December	2 083	148	37	67.2	70.5	.608	.70
Calendar year 1939	72 693.2	1 200	19.2	199	203	1.75	23.79
January 1940	3 082	656	29	99.4	103	.888	1.02
February	3 098	213	50	107	110	.948	1.02
March	14 786	1 780	89	477	482	4.16	4.80
April	20 440	1 200	354	681	687	5.92	6.60
May	10 267	586	191	331	336	2.90	3.34
June	9 602	940	111	320	325	2.80	3.12
July	3 121	198	53	101	105	.905	1.04
August	2 298	312	41	74.1	78.2	.674	.78
September	5 259	882	55	175	180	1.55	1.73
Water year 1939-40	77 504	1 780	20	212	216	1.86	25.33

* Adjusted for diversion by intercepting trunk sewer.

Rockaway River below reservoir, at Boonton
(Formerly published as Rockaway River at Boonton)

Location.- Water-stage recorder and, after Nov. 5, 1936, concrete control, lat. 40°53'47", long. 74°23'36", 1,500 feet downstream from dam at Boonton Reservoir, Boonton, Morris County. Datum of gage is 195.68 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 119 square miles.

Records available.- January 1906 to September 1940. March 1903 to February 1904 at site 2 miles downstream.

Average discharge.- 32 years (1906-11, 1913-40), 218 second-feet (adjusted for storage and diversion).

Extremes.- 1906-40: Maximum discharge, 3,770 second-feet Mar. 12, 1936 (gage height, 8.03 feet), from rating curve extended above 1,200 second-feet by logarithmic plotting and by computation of flow over Boonton Dam; practically no flow on many days.
Maximum daily discharge recorded, 7,560 second-feet Oct. 10, 1903.

Peak gage height and discharge during period of this report.-
1934: Oct. 1 (6 a.m.) 4.39 ft., 1,500 sec.-ft.
1935: July 11 (11:30 a.m.) 4.91 ft., 1,790 sec.-ft.
1936: Jan. 4 (6 a.m.) 4.15 ft., 1,350 sec.-ft.; Mar. 12 (8 to 9:30 p.m.) 8.03 ft., 3,770 sec.-ft.; Mar. 19 (8 p.m.) 6.03 ft., 1,890 sec.-ft.; Apr. 7 (4 to 6 a.m.) 5.49 ft., 1,580 sec.-ft.
1937: May 16 (1:30 to 4:30 a.m.) 4.46 ft., 920 sec.-ft.; Nov. 14 (2 to 5 p.m.) 5.42 ft., 1 450 sec.-ft.
1938: Jan. 26 (5 to 7 a.m.) 5.43 ft., 1,480 sec.-ft.; July 24 (8 to 11 p.m.) 5.87 ft., 1,730 sec.-ft.; Sept. 22 (1 to 2 p.m.) 6.06 ft., 1,870 sec.-ft.; Dec. 7 (4 a.m.) 4.60 ft., 1,000 sec.-ft.
1939: Apr. 20 (10:30 a.m. to 3 p.m.) 4.57 ft., 973 sec.-ft.
1940: Apr. 9 (9 to 10 p.m.) 4.64 ft., 1,020 sec.-ft.

Remarks.- Figures of daily discharge include flow over control and effluent from sewage-disposal plant. Flow regulated by Boonton Reservoir (capacity, 870,000,000 cubic feet) from which water for municipal supply of Jersey City is diverted.

Cooperation.- Gage-height record and record of effluent from sewage-disposal plant furnished by Department of Streets and Public Improvements, Bureau of Water, Jersey City.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 290	62	656	168	a52	152	162	69	5.1	4.3	13.4	6.0
2	639	84	836	194	a44	150	138	62	4.9	4.4	7.0	5.8
3	380	84	661	194	50	180	138	62	4.4	4.1	6.0	6.9
4	273	123	546	133	62	191	133	62	4.5	4.0	6.2	9.0
5	223	391	472	93	50	175	122	57	4.4	3.9	6.5	8.4
6	379	395	380	95	46	189	104	61	4.4	4.3	6.0	8.3
7	836	276	300	104	35	229	106	92	4.2	4.7	5.8	7.3
8	597	200	251	140	34	229	103	109	4.6	5.2	5.8	6.7
9	408	150	183	173	39	197	147	94	6.7	8.9	6.0	6.4
10	307	125	135	276	52	183	226	75	5.7	672	5.8	6.3
11	254	119	128	396	54	194	200	61	5.8	1 740	5.8	6.1
12	211	112	106	341	42	283	175	69	5.5	1 290	5.5	5.9
13	191	112	95	283	40	375	200	77	5.5	776	6.1	5.7
14	186	89	93	232	57	328	208	121	5.2	485	5.6	6.1
15	186	88	80	126	220	270	178	111	5.4	307	5.5	6.8
16	186	83	83	152	314	238	162	4.7	5.0	248	5.4	6.4
17	186	79	83	160	330	254	145	4.2	4.9	183	5.4	6.6
18	186	68	81	150	330	229	135	4.2	5.6	143	5.8	6.4
19	186	59	119	115	251	211	117	4.1	5.7	112	5.8	6.4
20	183	60	398	124	194	223	110	3.8	5.6	83	6.0	6.3
21	183	57	440	140	155	254	96	3.9	4.9	74	6.0	6.9
22	182	74	296	170	135	313	99	3.5	5.2	76	6.2	6.1
23	95	90	223	189	126	283	86	3.6	5.6	67	5.7	5.9
24	9.1	110	178	110	119	238	80	3.5	5.2	67	5.9	5.9
25	46	100	152	a74	117	203	71	3.8	5.4	102	5.5	5.6
26	74	66	173	a89	179	178	71	4.2	5.0	115	5.3	5.6
27	a74	48	167	a82	254	157	67	4.6	6.1	104	5.5	5.4
28	a76	49	167	a64	189	157	64	5.0	6.1	65	5.4	6.0
29	74	81	155	a74	-	238	45	4.9	5.7	35	5.4	6.6
30	54	237	140	a67	-	235	78	5.1	5.0	25	5.4	6.4
31	51	-	76	a58	-	191	-	5.0	-	26	5.4	-

a No gage-height record; discharge at gage computed on basis of records for stations on nearby streams.

Rockaway River below reservoir, at Boonton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.6	99	532	a34	a50	212	407	140	4.2	35	4.7	5.4
2	6.6	484	445	a35	a49	192	361	140	4.5	29	4.1	5.3
3	7.1	415	371	a850	a50	176	401	140	5.4	22	4.1	6.5
4	7.4	290	303	1 260	60	180	367	155	4.7	20	4.3	5.8
5	7.6	217	194	805	53	252	324	197	4.6	5.6	4.2	5.3
6	7.0	178	178	485	47	258	847	222	4.6	4.2	4.7	5.3
7	6.6	140	147	357	52	236	1 470	184	3.9	4.3	4.1	7.5
8	6.8	133	a100	280	36	212	1 050	172	3.5	6.2	4.1	8.0
9	6.7	122	a120	296	a45	208	821	165	4.0	4.5	a4.1	8.7
10	6.8	96	a140	571	a42	297	733	162	4.0	4.3	a4.1	8.7
11	6.8	90	a130	551	a40	1 130	755	162	5.1	3.6	a4.1	8.6
12	6.6	94	a120	429	a40	3 500	733	160	4.9	3.9	a4.1	8.1
13	7.4	122	a100	353	a45	3 320	690	162	8.7	4.4	a4.1	6.9
14	7.2	270	100	335	a65	2 210	648	162	8.8	4.5	a5.0	5.9
15	7.7	263	110	320	95	1 580	565	162	7.0	5.4	8.6	6.5
16	7.9	175	175	450	104	1 230	506	162	5.8	6.0	5.7	6.0
17	7.9	186	175	463	95	1 030	469	163	5.3	5.6	4.9	6.1
18	7.9	241	135	388	a72	1 270	404	163	71	6.0	4.8	11.9
19	9.1	290	85	361	a56	1 810	341	164	163	5.0	4.3	9.6
20	8.3	273	65	a300	a50	1 750	319	166	86	4.2	4.3	9.1
21	7.8	280	63	178	a50	1 640	301	166	230	4.4	4.4	11.3
22	8.0	276	a40	a110	a50	1 530	187	102	326	4.3	5.2	11.5
23	7.9	257	a36	a90	50	1 200	7.3	22	223	4.3	8.8	13.5
24	8.3	263	a35	a84	49	981	7.0	4.9	172	4.3	8.5	10.9
25	8.3	267	36	a90	40	844	78	3.9	145	4.3	7.0	10.4
26	7.9	280	41	a77	72	733	140	4.0	97	4.3	5.9	9.8
27	8.3	324	38	a67	164	690	153	4.8	72	4.1	5.8	a9.2
28	9.4	423	a36	a62	221	777	164	4.5	67	4.3	7.3	a8.2
29	9.6	531	a36	a57	218	733	164	4.1	61	4.9	7.3	a7.6
30	21	618	a35	a54	-	587	149	3.8	50	4.8	6.5	a7.2
31	20	-	a36	a52	-	507	-	3.7	-	4.7	5.2	-

a No gage-height record; discharge at gage computed on basis of gage-height records for Boonton Reservoir and records for stations on nearby streams.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.2	a4	4.5	297	488	a250	129	266	5.1	44	4.0	4.2
2	a4	a4	3.3	293	453	a220	124	239	5.0	58	3.9	4.1
3	a4	a4	3.5	324	a380	a200	132	213	5.0	43	4.0	4.1
4	a4	a4	3.5	385	a320	a190	129	202	5.1	25	3.8	4.1
5	a4	3.9	3.5	311	275	a180	120	182	4.7	16.8	3.8	4.9
6	a4	3.9	3.8	238	239	176	312	165	8.6	12.1	3.8	4.6
7	a4	3.7	6.2	232	216	168	554	171	72	17.5	3.9	4.5
8	a4	3.7	4.8	301	204	151	428	165	94	9.3	4.2	4.6
9	a4	3.7	a4.5	325	196	154	369	148	66	4.4	4.0	4.5
10	a4	3.8	a4.3	304	204	148	354	129	46	4.3	4.2	4.5
11	a4	3.7	a4.5	315	206	a130	315	112	31	4.2	5.8	4.5
12	a4	3.5	6.5	291	a180	a120	269	96	38	4.2	5.5	3.9
13	a4	3.5	6.2	254	153	111	233	81	26	4.3	5.1	5.9
14	a4	3.5	4.5	226	162	115	199	228	32	4.2	4.7	4.9
15	a4	3.5	4.4	253	225	142	179	683	26	5.8	4.1	4.5
16	a4	3.4	4.0	381	178	184	182	842	21	5.3	3.9	4.3
17	a4	3.6	a4.2	377	152	170	188	644	13.7	4.9	4.2	4.2
18	a4	3.8	a4.4	435	120	132	168	510	17.7	4.3	3.9	4.2
19	a4	a3.6	a4.3	493	108	142	152	386	8.6	3.9	3.9	4.2
20	a4	a3.6	a5.3	414	106	174	135	315	7.3	4.1	3.9	4.1
21	a4	3.5	a6.8	366	94	275	137	282	29	3.9	4.0	4.5
22	a4	3.5	106	393	333	350	298	248	142	3.9	5.0	4.3
23	a4	3.4	406	556	816	325	435	227	192	3.9	7.8	4.2
24	a4	3.6	393	592	716	285	366	199	120	4.0	6.0	4.1
25	a4	3.5	321	620	592	278	282	217	69	4.3	5.4	4.0
26	a4	3.6	274	742	483	315	236	115	32	4.4	5.0	3.9
27	a4	3.5	247	620	354	291	275	5.2	16.1	4.6	5.1	3.7
28	a4	3.3	224	515	288	242	397	5.0	13.3	4.4	4.8	4.0
29	a4	3.3	192	436	-	225	397	5.0	27	4.3	4.4	3.9
30	a4	3.2	176	381	-	191	321	5.1	18.1	4.3	4.0	3.9
31	a4	-	204	362	-	154	-	5.2	-	4.7	4.2	-

a No gage-height record; discharge over control computed on basis of gage-height record for Boonton Reservoir and records for stations on nearby streams.

Rockaway River below reservoir, at Boonton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	79	339	106	339	75	148	5.6	34	483	386	5.3
2	3.8	72	291	111	263	111	152	5.5	23	362	330	4.6
3	3.9	89	254	122	233	96	129	5.5	10.5	269	269	4.6
4	3.9	129	225	108	245	83	104	5.4	19.8	201	210	4.9
5	4.3	80	207	92	242	100	76	5.5	22	142	168	4.6
6	4.7	4.7	224	86	233	148	69	5.5	23	92	168	4.7
7	4.2	7.4	275	151	298	167	96	5.1	20	64	239	5.1
8	4.1	4.0	230	251	325	122	115	5.0	39	43	219	5.2
9	4.0	12.6	192	219	269	106	236	4.6	68	45	185	5.0
10	3.9	4.4	137	151	245	90	362	5.3	36	23	171	126
11	3.8	3.9	94	122	230	83	350	5.0	23	14.5	239	224
12	3.9	3.9	81	106	205	84	285	4.9	38	23	276	107
13	3.8	144	69	106	202	90	245	5.0	51	30	225	4.6
14	3.7	1 290	52	94	227	133	216	5.0	69	40	163	4.5
15	3.7	1 080	47	88	207	239	202	37	44	55	103	4.7
16	3.7	741	64	64	163	251	170	278	30	43	68	4.5
17	3.7	574	99	79	146	275	151	236	29	20	49	4.4
18	3.7	461	236	71	125	294	178	140	25	12.1	40	4.5
19	4.8	381	315	49	142	266	304	84	21	7.7	38	7.5
20	6.6	325	304	44	233	230	321	64	9.2	51	34	15.5
21	5.5	282	222	55	254	205	254	56	4.8	309	32	550
22	5.0	239	201	55	207	193	230	58	4.3	766	21	1 690
23	5.4	205	174	52	196	179	210	60	4.3	947	13.8	1 390
24	5.1	173	167	60	230	157	190	64	34	1 510	9.1	1 030
25	4.5	153	178	739	222	133	162	83	88	1 480	5.8	717
26	4.6	132	195	1 330	171	134	148	83	62	1 050	5.4	445
27	4.4	129	167	842	143	120	160	134	338	792	5.5	351
28	5.6	236	142	668	140	106	137	151	692	620	4.8	299
29	88	532	120	506	-	101	65	137	741	506	4.4	242
30	137	465	100	410	-	96	5.9	63	644	524	4.6	196
31	102	-	94	369	-	104	-	40	-	471	4.7	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	152	47	69	133	308	817	406	301	5.7	4.6	4.4	4.0
2	116	42	69	125	242	741	556	266	4.9	4.3	4.5	3.9
3	90	42	66	115	283	583	644	236	4.7	4.4	4.4	3.7
4	75	39	184	103	645	471	515	219	4.6	4.5	4.5	3.4
5	68	46	402	98	569	458	428	205	5.0	4.3	4.1	3.6
6	88	55	792	271	449	524	428	181	4.8	4.5	3.8	3.8
7	152	71	947	436	374	506	692	160	4.6	4.5	3.5	3.8
8	141	81	792	370	329	415	692	181	4.6	4.4	3.8	3.7
9	92	81	692	298	304	366	560	100	4.9	4.3	3.8	3.8
10	67	79	668	251	304	347	466	6.1	4.7	4.0	3.8	3.7
11	64	74	644	230	385	318	422	5.8	4.7	4.2	3.8	3.7
12	56	61	520	202	449	318	436	5.4	4.8	4.0	3.8	4.0
13	49	60	428	191	378	325	398	5.1	5.6	3.9	3.7	3.8
14	41	65	370	179	322	304	350	25	5.6	4.0	3.7	3.6
15	38	33	311	174	343	315	311	81	5.0	4.0	4.1	3.5
16	37	105	260	152	546	488	291	92	4.9	4.0	4.0	3.9
17	32	247	244	152	526	645	278	84	4.8	3.8	3.8	3.7
18	30	247	233	135	440	520	339	67	4.5	4.2	4.0	3.5
19	30	255	225	121	403	415	564	64	4.3	4.1	5.1	3.7
20	28	162	191	99	389	350	895	51	4.7	4.1	5.3	3.7
21	90	137	168	94	370	322	792	51	4.5	4.0	4.3	3.7
22	120	115	152	116	366	304	716	98	4.4	4.1	4.2	3.6
23	94	104	123	60	304	285	506	153	4.3	3.9	3.9	3.7
24	92	111	120	79	260	266	432	122	4.4	3.7	3.9	3.7
25	148	113	116	102	233	260	382	88	4.3	3.9	4.1	3.7
26	140	98	120	46	282	254	343	58	4.1	3.9	4.1	3.9
27	106	115	308	51	514	248	339	46	4.3	4.0	4.1	3.9
28	86	102	340	49	556	304	377	51	4.2	4.5	3.8	3.9
29	78	88	285	50	-	393	410	24	4.3	4.3	4.0	3.9
30	67	66	233	139	-	389	362	18.1	5.4	4.4	4.2	4.2
31	53	-	163	359	-	440	-	7.1	-	4.1	4.3	-

Rockaway River below reservoir, at Boonton--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.3	4.4	4.0	3.5	3.5	3.8	791	248	669	86	5.3	a10
2	3.9	4.0	4.1	3.5	3.5	3.8	716	239	742	64	4.8	a350
3	4.3	3.7	3.7	3.7	3.4	4.8	591	236	717	50	4.6	538
4	3.8	3.7	3.6	3.5	b3.7	10.7	555	266	580	62	4.3	344
5	3.8	5.7	3.7	3.4	b4.2	8.1	541	260	476	76	4.2	219
6	3.7	5.2	3.6	3.4	b5.0	7.8	452	213	394	58	4.4	130
7	3.7	5.0	3.5	3.3	7.7	6.4	369	188	333	42	4.6	80
8	3.8	4.5	3.7	b3.4	6.1	5.5	396	210	270	28	4.5	58
9	3.9	4.7	3.6	b3.6	6.9	5.6	843	185	228	14.8	4.4	58
10	4.5	4.3	3.5	b3.4	9.2	5.3	843	75	230	7.1	4.4	52
11	4.3	4.0	3.7	b3.4	5.3	4.7	644	5.5	227	8.6	4.3	38
12	4.2	3.7	3.8	b3.4	4.0	4.7	588	5.4	213	42	4.3	26
13	4.0	3.6	3.8	b3.4	3.9	4.9	716	5.2	185	82	4.8	16.7
14	4.0	3.8	4.1	10.0	3.7	10.0	669	5.2	119	67	4.9	10.2
15	3.6	3.6	3.9	9.5	3.7	27	546	5.1	97	43	5.0	6.6
16	3.5	3.7	3.8	5.0	3.7	10.2	480	40	73	13.9	4.8	5.2
17	4.4	3.7	3.7	4.5	3.8	6.9	436	306	68	6.6	5.0	5.0
18	3.6	3.7	3.4	4.2	4.1	315	398	358	62	6.1	4.4	4.7
19	3.8	3.6	3.7	4.1	5.2	541	390	269	54	6.5	4.4	4.7
20	3.6	3.5	4.0	4.0	7.2	619	488	216	50	5.2	4.6	4.6
21	3.6	3.7	4.0	3.9	6.3	643	792	263	39	4.7	4.4	4.7
22	3.8	3.7	3.9	b3.8	5.8	619	792	325	36	4.5	4.3	4.7
23	3.8	3.8	3.8	b4.0	4.7	519	669	311	a34	4.7	4.3	4.7
24	4.0	3.6	3.8	b3.9	4.3	393	570	307	a35	4.8	4.2	5.4
25	3.9	3.7	3.8	b3.8	4.2	358	493	288	a70	4.7	4.2	7.1
26	3.7	3.6	3.8	b3.8	4.1	290	440	282	a140	4.6	4.6	9.0
27	3.8	3.7	4.1	b3.8	4.2	262	403	285	a170	4.9	a5	62
28	4.0	4.0	4.0	3.7	4.0	250	348	315	a150	5.0	a5	55
29	3.8	4.0	3.9	3.6	4.0	265	304	344	a180	5.1	a6	34
30	3.4	4.1	3.9	3.7	-	306	278	308	a130	5.7	a6	16.8
31	5.0	-	3.6	3.6	-	596	-	422	-	5.3	a6	-

a No gage-height record; discharge over control computed on basis of recorded range in stage and records for station above reservoir at Boonton.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	8 205.1	1 290	9.1	265	301	2.53	2.92
November.....	3 671	395	48	122	196	1.65	1.84
December.....	7 853	836	76	253	325	2.73	3.15
Calendar year 1934	58 468.1	1 290	3	160	239	2.01	27.23
January 1935	4 766	396	58	154	230	1.93	2.22
February.....	3 570	330	34	128	210	1.76	1.83
March.....	6 927	375	150	223	296	2.49	2.87
April.....	3 766	226	45	126	192	1.61	1.80
May.....	1 250.1	121	3.5	40.3	111	.933	1.08
June.....	157.3	6.7	4.2	5.24	80.3	.675	.75
July.....	6 838.8	1 740	3.9	221	333	2.80	3.23
August.....	187.1	13.4	5.3	6.04	57.8	.486	.56
September.....	194.2	9.0	5.4	6.47	90.8	.763	.85
Water year 1934-35	47 385.6	1 740	3.5	130	203	1.71	23.10
October 1935	262.5	21	6.6	8.47	55.0	.462	.53
November.....	7 697	618	90	257	389	3.27	3.65
December.....	4 157	532	35	134	205	1.72	1.98
Calendar year 1935	39 773.0	1 740	3.5	109	187	1.57	21.35
January 1936	9 844	1 260	34	318	405	3.40	3.92
February.....	2 060	221	36	71.0	161	1.35	1.46
March.....	31 275	3 500	176	1 009	1 091	9.17	10.57
April.....	13 561.3	1 470	7.0	452	536	4.50	5.02
May.....	3 626.7	222	3.7	117	165	1.39	1.60
June.....	1 852.0	326	3.5	61.7	171	1.44	1.61
July.....	232.4	35	3.6	7.50	52.8	.444	.51
August.....	164.3	8.8	4.1	5.30	40.2	.338	.39
September.....	244.8	13.5	5.3	8.16	38.1	.320	.36
Water year 1935-36	74 977.0	3 500	3.5	205	276	2.32	31.60

* Adjusted for diversion from and change in contents in Boonton Reservoir.

Rockaway River below reservoir, at Boonton--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	136.2	16.2	4	4.39	71.0	0.597	0.69
November	108.8	4	3.2	3.63	59.3	.498	.56
December	2 640.0	406	3.3	85.2	316	2.66	3.07
Calendar year 1936	65 745.5	3 500	3.2	180	260	2.18	29.76
January 1937	12 032	742	226	388	472	3.97	4.58
February	8 241	816	94	294	374	3.14	3.27
March	6 188	350	111	200	281	2.36	2.72
April	7 815	554	120	260	343	2.88	3.21
May	7 090.5	842	5.0	229	321	2.70	3.11
June	1 191.3	192	4.7	39.7	130	1.09	1.22
July	326.3	58	3.9	10.5	68.9	.579	.67
August	140.3	7.8	3.8	4.53	97.4	.818	.94
September	129.3	5.9	3.7	4.31	62.4	.524	.58
Water year 1936-37	46 038.7	842	3.2	126	216	1.82	24.62
October 1937	449.1	137	3.7	14.5	114	.958	1.10
November	8 031.9	1 290	3.9	268	355	2.98	3.32
December	5 495	339	47	177	252	2.12	2.44
Calendar year 1937	57 129.7	1 290	3.7	157	238	2.00	27.16
January 1938	7 306	1 330	44	236	318	2.67	3.08
February	6 135	339	125	219	298	2.50	2.60
March	4 571	294	75	147	229	1.92	2.21
April	5 470.9	362	5.9	182	259	2.18	2.43
May	1 840.9	278	4.6	59.4	154	1.29	1.49
June	3 246.9	741	4.3	108	196	1.65	1.84
July	10 995.3	1 510	7.7	355	433	3.64	4.20
August	3 691.1	386	4.4	119	194	1.63	1.88
September	7 461.2	1 690	4.4	249	336	2.82	3.15
Water year 1937-38	64 694.3	1 690	3.7	177	261	2.19	29.74
October 1938	2 520	152	28	81.3	158	1.33	1.53
November	2 941	255	33	98.0	153	1.29	1.44
December	10 235	947	66	330	414	3.48	4.01
Calendar year 1938	66 414.3	1 690	4.3	182	262	2.20	29.86
January 1939	4 980	436	46	161	245	2.06	2.38
February	10 873	645	233	388	476	4.00	4.16
March	12 691	817	248	409	485	4.08	4.70
April	14 330	895	278	478	553	4.65	5.19
May	3 051.6	301	5.1	98.4	195	1.64	1.89
June	141.6	5.7	4.1	4.72	59.8	.503	.56
July	128.9	4.6	3.7	4.16	37.1	.312	.36
August	126.8	5.3	3.5	4.09	50.6	.425	.49
September	112.7	4.2	3.4	3.76	32.7	.275	.31
Water year 1938-39	62 131.6	947	3.4	170	237	1.99	27.02
October 1939	121.5	5.0	3.4	3.92	37.2	.313	.36
November	120.0	5.7	3.5	4.00	79.2	.666	.74
December	117.5	4.1	3.4	3.79	75.2	.632	.73
Calendar year 1939	46 794.6	895	3.4	128	192	1.61	21.87
January 1940	127.8	10.0	3.3	4.12	110	.924	1.07
February	139.4	9.2	3.4	4.81	104	.874	.94
March	6 106.2	643	3.8	197	461	3.87	4.46
April	16 541	843	278	551	628	5.28	5.89
May	6 785.4	422	5.1	219	326	2.74	3.16
June	6 771	742	34	226	298	2.50	2.79
July	822.8	86	4.5	26.5	100	.840	.97
August	146.0	6	4.2	4.71	78.2	.657	.76
September	2 164.1	538	4.6	72.1	172	1.45	1.62
Water year 1939-40	39 962.7	843	3.3	109	205	1.72	23.49

* Adjusted for diversion from and change in contents in Boonton Reservoir.

Beaver Brook at outlet of Splitrock Pond

Location.- Water-stage recorder and wooden weir, lat. 40°57'38", long. 74°27'43", 50 feet downstream from Splitrock Pond, 2 miles northeast of Hibernia, Morris County, and 3½ miles upstream from Hibernia Brook.

Drainage area.- 5.50 square miles.

Records available.- October 1925 to September 1940.

Average discharge.- 15 years, 10.3 second-feet (unadjusted).

Extremes.- 1925-40: Maximum discharge, 126 second-feet Mar. 12, 1936 (gage height, 2.70 feet, estimated); no flow on many days.

Remarks.- Flow regulated by operation of sluice gates in Splitrock Pond Dam.

Cooperation.- Gage-height record furnished by Department of Streets and Public Improvements, Bureau of Water, Jersey City.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a23	1.98	62	10.9	7.1	11.7	11.7	5.6	0.92	0	0.01	0
2	a24	1.56	61	11.1	7.0	11.4	10.9	5.7	0	0	.01	0
3	a23	1.32	57	10.9	6.8	11.7	10.4	5.7	0	0	.01	0
4	a21	1.25	50	10.2	6.4	12.4	10.0	5.5	0	0	0	0
5	19	1.18	42	9.7	6.1	12.7	9.5	5.3	0	0	0	0
6	23	1.18	35	9.1	5.8	13.2	9.4	5.5	0	0	0	0
7	30	1.18	29	9.1	5.6	14.4	9.0	6.1	0	0	0	0
8	30	1.18	25	9.7	5.3	14.8	8.7	6.5	0	0	0	0
9	27	1.18	21	10.4	5.2	14.8	9.7	6.2	0	0	0	0
10	25	1.25	18.6	14.0	5.0	14.4	10.9	13.6	0	0	0	0
11	22	1.32	16.4	16.4	4.8	14.4	11.1	43	0	0	.01	0
12	20	1.32	14.8	16.8	4.5	14.8	11.4	47	0	0	.01	0
13	18.6	1.32	13.3	16.0	4.4	16.4	12.0	39	0	0	.01	0
14	17.2	1.18	11.7	15.2	4.5	17.2	12.0	31	0	0	.01	0
15	16.4	1.10	10.9	14.4	6.1	16.8	12.0	24	0	0	.01	0
16	15.2	1.03	10.0	13.7	7.1	16.4	11.7	18.6	0	0	.01	0
17	14.4	1.03	9.5	13.0	9.3	16.4	11.4	14.8	0	0	.01	0
18	13.7	1.03	8.8	12.0	10.0	16.8	10.9	12.4	0	0	.01	0
19	12.7	1.10	9.7	11.1	10.9	16.4	10.4	9.7	0	0	.01	0
20	11.7	1.10	14.8	10.9	11.1	16.0	10.2	8.1	0	0	.01	0
21	10.9	.70	15.6	10.6	10.9	16.0	9.8	6.9	0	.01	.01	0
22	10.2	.64	15.6	10.9	10.6	16.8	9.1	6.0	0	.01	.01	0
23	9.7	.64	15.2	10.9	10.4	16.4	8.5	5.6	0	.01	.01	0
24	8.8	.64	14.4	10.6	10.2	15.6	8.0	5.3	0	.01	0	0
25	8.1	.58	13.7	10.2	10.0	15.2	7.5	5.1	0	.01	0	0
26	7.7	.47	13.3	10.2	10.4	14.0	6.9	4.8	0	0	0	0
27	7.3	.32	13.0	10.2	11.7	13.3	6.4	4.3	0	0	0	0
28	6.9	.36	12.4	9.7	12.0	12.7	5.6	3.7	0	0	0	.01
29	4.0	.52	12.0	8.8	-	13.0	5.5	3.2	0	0	0	.01
30	2.2	21	11.1	8.2	-	13.0	5.6	2.8	0	0	0	.01
31	2.2	-	10.6	7.5	-	12.7	-	2.4	-	0	0	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.

Beaver Brook at outlet of Splitrock Pond--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.66	26	4.2	8.4	9.1	27	9.3	2.8	5.6	0.58	0.27
2	0	2.5	24	4.1	7.8	9.4	25	8.5	2.5	5.2	.58	.27
3	0	4.2	21	11.7	7.4	10.0	23	8.5	2.4	4.9	.58	.32
4	0	4.5	13.7	19.9	7.3	10.0	22	12.7	2.6	4.3	.58	.23
5	0	4.8	10.7	21	7.0	10.6	21	14.4	2.3	3.7	.58	.15
6	0	4.9	16.8	20	6.8	11.1	32	14.4	2.1	2.9	.36	.11
7	0	4.9	15.6	19.0	6.5	11.4	46	13.7	1.81	2.3	.27	.15
8	0	5.0	14.0	17.2	6.4	11.7	47	13.7	1.72	1.98	.27	.15
9	0	5.0	13.0	18.1	6.5	11.7	45	12.7	1.56	1.81	.27	.15
10	0	5.0	12.7	22	6.5	13.0	43	11.7	1.40	1.56	.27	.15
11	0	4.9	12.0	22	6.2	33	42	10.4	1.48	1.32	.18	.15
12	0	4.9	11.4	21	6.2	a115	41	9.5	1.72	1.18	.18	.15
13	0	6.0	10.6	19.9	6.2	a102	40	9.1	2.4	1.03	.18	.08
14	0	10.2	10.2	18.6	7.1	a83	38	9.1	3.5	.96	.23	.03
15	0	12.4	10.0	18.1	7.5	68	35	8.5	4.4	.89	.27	.03
16	0	12.7	10.4	21	7.3	57	32	8.1	4.5	.76	.32	.05
17	0	12.7	10.6	21	7.0	50	29	7.4	4.8	.70	.32	.05
18	0	13.7	10.4	20	7.1	52	27	7.0	5.3	.64	.23	0
19	0	14.0	10.0	21	7.0	67	25	7.0	6.5	.52	.18	a0
20	0	14.4	9.5	21	7.0	68	22	7.0	7.0	.52	.18	a0
21	0	15.6	8.8	18.6	7.0	62	21	6.9	9.4	.47	.18	.01
22	.01	16.4	8.0	16.8	6.9	54	19.4	6.4	10.2	.36	.18	.03
23	.01	17.2	7.1	15.2	6.6	47	18.1	5.6	9.1	.41	.27	.03
24	.01	17.2	6.5	14.4	6.4	40	16.4	5.2	8.1	.47	.32	.05
25	.01	16.0	6.0	13.0	6.2	35	14.8	5.0	7.8	.47	.32	.03
26	0	15.2	5.7	11.7	6.5	32	13.3	4.6	8.0	.47	.32	.01
27	0	14.0	5.2	10.9	7.4	30	12.7	4.4	7.3	.47	.27	.03
28	0	14.4	4.9	10.2	8.4	30	11.7	4.2	6.8	.52	.23	.03
29	0	23	4.6	9.7	8.8	30	10.6	3.9	6.2	.58	.27	.03
30	.18	26	4.5	9.4	-	29	9.7	3.5	6.0	.58	.32	.03
31	.35	-	4.3	9.0	-	28	-	3.1	-	.58	.27	-

a No gage-height record; discharge computed on basis of records for Rockaway River below reservoir at Boonton.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05	0.27	1.18	23	25	22	13.7	18.1	6.6	13.4	0.58	4.1
2	.08	.27	1.72	24	25	21	12.7	17.6	6.0	21	.58	3.7
3	.05	.36	2.4	25	24	19.4	12.4	17.2	5.6	18.6	.52	3.3
4	.05	.47	2.4	25	24	17.2	12.0	16.8	5.6	16.0	.52	3.0
5	.05	.58	2.5	25	24	16.0	11.4	16.4	5.2	13.7	.52	3.0
6	.08	.70	3.0	25	24	15.2	16.4	16.0	5.7	17.8	.58	2.8
7	.08	.76	4.8	24	24	14.0	22	15.2	6.6	9.6	.58	2.5
8	.11	.89	5.5	24	23	13.3	22	14.0	8.4	1.18	.58	2.3
9	.11	1.40	5.7	24	23	12.7	22	13.0	8.7	.37	1.03	2.1
10	.11	1.56	5.7	24	22	11.7	22	12.0	7.7	.01	.81	1.89
11	.11	1.56	5.7	24	21	10.9	22	11.1	6.6	.01	a1.5	1.56
12	.08	1.56	6.8	24	19.4	10.0	21	10.0	6.0	.01	2.3	1.32
13	.08	1.56	9.5	23	16.8	9.5	19.9	9.5	6.1	.01	2.1	1.94
14	.08	1.48	10.0	22	16.0	9.1	17.6	12.4	6.0	.01	1.48	3.5
15	.05	1.56	9.8	22	15.6	9.4	16.8	19.0	6.2	.05	.89	3.9
16	.05	1.64	9.5	23	15.2	10.4	16.4	20	5.6	.05	.44	3.9
17	.08	1.81	10.0	23	14.0	9.7	15.6	20	5.5	.03	2.3	3.7
18	.23	1.64	10.0	23	13.0	9.3	14.8	20	5.6	.03	.23	3.5
19	.41	1.34	10.2	23	12.0	9.1	13.7	20	5.5	.03	.23	3.1
20	.52	1.56	12.4	23	11.1	9.3	13.0	19.9	5.3	.05	.23	2.7
21	.58	1.48	13.0	22	10.6	11.1	12.0	19.9	5.6	.05	.23	2.4
22	.64	1.40	20	23	19.9	13.0	12.0	19.4	6.6	.05	.23	2.2
23	.58	1.32	23	23	23	14.8	13.0	18.6	7.0	.18	.23	1.89
24	.52	1.48	23	24	23	15.6	14.0	18.1	6.9	.36	.58	1.72
25	.52	1.56	23	25	23	17.2	13.7	16.4	6.2	.41	2.1	1.64
26	.47	1.56	23	25	23	17.6	a13	15.6	5.7	.47	3.2	1.48
27	.41	1.56	23	25	23	17.2	a15	14.4	5.7	.52	4.4	1.25
28	.36	1.56	23	25	23	16.8	18.1	10.9	5.7	.52	4.5	1.40
29	.36	1.48	23	25	-	15.6	18.1	8.7	5.8	.52	4.6	1.18
30	.36	1.32	23	25	-	14.8	18.1	7.8	5.8	.58	4.5	1.03
31	.32	-	23	25	-	14.4	-	7.3	-	.64	4.4	-

a No gage-height record; discharge computed on basis of records for Rockaway River below reservoir at Boonton.

Beaver Brook at outlet of Splitrock Pond--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.89	10.2	26	10.9	27	9.7	8.7	6.6	5.1	32	32	2.2
2	.89	9.0	24	10.9	24	9.0	8.8	5.2	4.5	31	28	2.2
3	.76	8.2	22	10.2	21	8.5	8.4	5.0	4.6	27	24	1.81
4	.64	7.7	19.0	9.8	19.4	7.8	7.8	4.9	4.5	23	19.4	1.40
5	.70	7.0	17.2	9.3	18.6	8.2	7.5	4.6	4.2	18.6	17.6	1.25
6	1.10	6.4	17.2	8.8	17.6	8.7	7.5	4.3	4.2	15.2	23	1.03
7	1.10	5.8	17.6	10.2	18.6	8.8	8.2	4.2	4.0	12.0	22	.89
8	.96	5.6	17.2	12.4	19.4	8.8	8.8	4.1	4.6	9.7	19.9	.70
9	.83	5.0	15.6	12.7	18.6	8.4	11.4	3.7	4.4	8.2	17.2	.52
10	.89	4.9	14.0	12.7	17.6	8.1	14.0	3.9	4.1	7.0	15.2	.36
11	.83	4.6	12.4	12.0	16.4	7.7	16.0	3.7	4.2	6.4	17.6	.27
12	.76	4.6	10.9	11.4	15.2	7.4	16.8	3.4	4.5	7.5	17.6	.27
13	.76	21	9.8	11.1	14.8	7.5	16.8	3.1	5.3	7.4	16.4	.27
14	.70	33	8.8	10.2	14.8	9.3	16.0	3.2	5.2	6.9	14.8	.27
15	.64	35	8.0	9.7	14.4	11.4	14.8	7.6	4.9	6.4	13.0	.27
16	.58	34	8.2	9.0	13.3	12.4	14.0	11.7	4.4	5.6	11.1	.32
17	.58	33	9.0	8.7	12.0	14.4	13.0	12.7	4.0	5.0	9.5	.36
18	.52	32	13.7	8.2	11.1	15.6	13.0	12.0	4.4	4.6	8.4	.36
19	.84	31	17.2	7.5	11.7	15.2	15.6	10.4	4.3	4.4	7.4	1.52
20	3.8	31	17.2	7.3	14.0	14.8	15.6	9.4	3.9	10.6	6.1	12.9
21	6.2	30	16.4	6.9	13.7	14.0	15.6	8.5	3.5	25	5.3	33
22	7.3	27	15.2	7.1	13.0	13.3	14.8	8.2	3.1	34	4.8	68
23	10.0	24	14.4	6.9	13.0	12.7	13.7	7.7	3.4	47	4.2	70
24	12.4	21	13.7	7.2	13.7	12.0	12.4	7.4	5.6	94	3.6	54
25	12.4	17.6	14.0	39	13.3	11.4	11.4	7.3	5.8	86	3.1	45
26	11.7	15.2	13.7	60	12.7	10.4	10.2	7.0	7.0	71	2.7	39
27	10.9	14.8	13.0	54	12.0	10.0	9.1	7.8	20	58	2.3	32
28	12.0	19.0	12.7	46	10.6	9.4	8.7	8.0	32	50	2.3	27
29	12.0	27	12.0	39	-	8.7	8.2	7.7	33	45	2.2	23
30	11.7	28	11.1	34	-	8.7	7.7	6.5	32	43	2.2	19.0
31	10.9	-	10.2	30	-	8.7	-	5.7	-	37	2.2	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.2	5.5	3.4	12.7	12.4	28	25	24	3.5	0.89	0.64	2.7
2	12.7	5.5	3.4	11.7	13.3	28	25	24	3.1	.76	.58	2.5
3	10.2	5.5	3.4	11.1	16.4	28	26	22	3.0	.58	.58	2.4
4	8.7	5.3	3.6	10.2	24	28	26	19.0	2.8	.32	.58	2.2
5	7.4	5.3	4.5	9.7	25	28	26	16.4	2.5	.06	.58	2.1
6	7.0	5.3	55	16.6	25	28	26	14.4	2.2	.03	.58	1.81
7	7.5	5.5	82	22	25	28	27	12.7	1.89	.01	.58	1.64
8	7.1	5.5	67	22	25	28	27	11.1	1.64	.01	.64	1.64
9	6.6	5.5	56	22	24	27	27	10.4	1.56	.01	.70	1.56
10	6.1	5.5	51	21	24	27	27	12.0	1.40	.01	.70	1.56
11	5.7	5.5	47	19.4	24	27	27	11.4	1.32	.01	.83	1.40
12	5.5	5.5	43	17.6	24	27	27	10.0	1.32	.01	.89	1.32
13	5.6	5.5	33	16.0	24	27	26	9.0	1.25	.01	.83	1.18
14	5.5	5.3	26	16.0	24	27	26	8.4	1.98	.01	.70	1.03
15	4.6	5.2	26	14.4	24	26	26	7.8	1.98	0	.64	1.03
16	4.0	5.2	26	13.0	26	26	26	7.0	1.81	0	.64	.96
17	3.6	5.2	24	12.0	26	27	25	6.4	1.64	0	.70	.89
18	3.3	5.2	23	11.4	26	27	25	5.8	1.48	0	.70	.70
19	3.1	5.3	19.9	10.6	27	27	26	5.3	1.25	.02	.74	.58
20	3.3	5.7	18.1	9.8	27	26	27	4.9	1.40	.27	.70	.58
21	4.5	4.9	15.6	9.4	26	26	27	4.8	1.32	.41	.89	.58
22	4.8	4.0	13.7	9.1	26	26	27	5.1	1.10	.52	1.10	.58
23	4.9	4.0	12.4	8.5	26	26	26	5.5	1.03	.47	1.10	.52
24	5.7	3.5	11.1	8.1	26	25	26	5.7	.83	.52	2.8	.52
25	7.0	2.5	10.2	7.5	25	25	26	5.7	.64	.52	3.5	.52
26	7.3	2.8	9.4	7.0	25	23	26	5.8	.64	.58	3.9	.52
27	7.3	3.1	13.7	6.4	26	21	25	5.6	.64	.58	3.4	.52
28	6.2	3.2	16.0	5.8	26	23	25	5.1	.58	.64	3.1	.47
29	5.6	3.3	16.0	5.8	-	24	25	4.9	.58	.58	2.9	.47
30	5.6	3.3	14.8	7.7	-	24	25	4.3	.83	.58	2.6	.52
31	5.6	-	13.7	11.7	-	25	-	3.9	-	.58	2.8	-

Beaver Brook at outlet of Splitrock Pond--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.58	14.0	1.48	0.36	12.0	1.64	43	21	66	4.5	0.89	0.76
2	.70	12.7	1.64	.41	11.4	.92	42	18.1	72	4.9	.83	.76
3	.83	9.4	1.72	.41	10.9	.05	39	16.4	72	4.9	.76	.83
4	.70	9.1	1.89	.36	10.4	.08	37	14.8	69	4.8	.70	.83
5	.70	9.8	1.89	.36	10.2	.08	32	13.3	75	4.6	.70	.76
6	.70	14.8	9.9	.32	10.2	.11	30	12.0	65	4.5	.70	.76
7	.76	15.2	31	.32	7.2	.11	29	10.6	51	4.4	.76	.76
8	.70	14.0	25	.32	5.7	.15	28	9.7	65	4.4	.76	.83
9	.70	13.0	19.9	.32	5.7	.18	31	9.4	63	4.3	.76	.76
10	.76	10.9	16.4	.36	5.7	.27	32	8.7	52	3.9	.76	.76
11	.76	9.7	14.0	.36	5.7	.29	32	33	44	3.5	.76	.76
12	.76	9.0	17.2	.41	5.8	.39	32	40	29	3.6	.76	.76
13	.70	8.0	20	.36	5.7	.32	33	39	18.2	1.40	.89	.76
14	.70	7.1	16.4	.46	5.3	.58	31	43	6.5	.02	.96	.70
15	.76	6.5	13.0	62	5.3	12.2	30	42	6.4	.19	.89	.58
16	.76	6.0	10.9	91	4.0	27	30	39	6.4	.32	.89	.52
17	.83	5.5	9.5	86	2.5	30	30	40	6.6	.22	.89	.52
18	.76	5.0	8.1	76	1.98	30	29	38	6.6	.10	.83	.83
19	.70	4.8	6.9	67	1.81	32	28	34	5.6	.16	.76	1.32
20	.58	4.4	5.3	61	1.72	36	26	24	5.0	.15	.70	1.48
21	.64	4.1	.01	56	1.64	40	26	15.6	5.0	.18	.64	1.56
22	.70	3.7	.01	50	1.72	41	29	11.4	4.5	.23	.52	1.48
23	.64	3.4	.01	42	1.64	39	30	36	4.4	.54	.58	1.32
24	.58	3.2	.12	36	1.64	34	30	27	4.4	.89	.58	1.25
25	.58	2.5	.01	30	1.64	30	40	10.0	4.4	.83	.70	1.25
26	.64	1.60	.01	24	1.64	26	50	10.2	4.4	.89	.76	1.48
27	.70	1.81	.75	17.6	1.64	23	41	29	4.4	.76	.96	1.64
28	.83	1.64	.01	15.6	1.64	21	34	59	4.3	.76	.89	1.56
29	.89	1.56	0	14.4	1.98	22	28	56	4.4	.70	.83	1.56
30	1.10	1.56	.18	13.7	-	25	24	63	4.4	.83	.83	1.56
31	8.3	-	.36	12.7	-	39	-	64	-	.96	.76	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean
October 1934	484.9	30	2.2	15.6
November	50.66	21	.32	1.69
December	667.4	62	8.8	21.5
Calendar year 1934	4 231.56	62	.11	11.6
January 1935	352.4	16.8	7.5	11.4
February	219.2	12.0	4.4	7.53
March	451.8	17.2	11.4	14.6
April	286.2	12.0	5.5	9.54
May	363.4	47	2.4	11.7
June	.92	.92	0	.031
July	.05	.01	0	.002
August	.16	.01	0	.005
September	.03	.01	0	.001
Water year 1934-35	2 877.12	62	0	7.88
October 1935	.57	.35	0	.018
November	322.36	26	.66	10.7
December	338.2	26	4.3	10.9
Calendar year 1935	2 335.29	47	0	6.40
January 1936	499.7	22	4.1	16.1
February	203.4	8.8	6.2	7.01
March	1 220.0	115	9.1	39.4
April	809.7	47	9.7	27.0
May	255.5	14.4	3.1	8.24
June	141.69	10.2	1.40	4.72
July	48.15	5.6	.36	1.55
August	9.56	.58	.18	.308
September	2.77	.32	0	.092
Water year 1935-36	3 851.60	115	0	10.5

Beaver Brook at outlet of Splitrock Pond--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean
October 1936	7.58	0.64	0.05	0.245
November	37.69	1.81	.27	1.26
December	368.80	23	1.18	11.9
Calendar year 1936	3 604.54	115	0	9.85
January 1937	740	25	22	23.9
February	560.6	25	10.6	20.0
March	427.3	22	9.1	13.8
April	484.4	22	11.4	16.1
May	475.3	20	7.3	15.3
June	185.5	8.7	5.2	6.18
July	116.24	21	.01	3.75
August	46.97	4.6	.23	1.52
September	74.00	4.1	1.03	2.47
Water year 1936-37	3 524.38	25	.01	9.66
October 1937	136.27	12.4	.52	4.40
November	552.6	35	4.6	18.4
December	451.4	26	8.0	14.6
Calendar year 1937	4 250.58	35	.01	11.6
January 1938	533.1	60	6.9	17.2
February	441.5	27	10.6	15.8
March	321.0	15.6	7.4	10.4
April	354.5	16.8	7.5	11.8
May	205.5	12.7	3.1	6.63
June	234.7	33	3.1	7.82
July	838.5	94	4.4	27.0
August	375.1	32	2.2	12.1
September	439.17	70	.27	14.6
Water year 1937-38	4 883.34	94	.27	13.4
October 1938	197.2	15.2	3.1	6.36
November	142.6	5.7	2.5	4.75
December	761.9	82	3.4	24.6
Calendar year 1938	4 844.77	94	.27	13.3
January 1939	386.2	22	5.8	12.5
February	672.1	27	12.4	24.0
March	813	28	21	26.2
April	781	27	25	26.0
May	298.4	24	3.9	9.63
June	47.21	3.5	.58	1.57
July	8.99	.89	0	.290
August	41.62	3.9	.58	1.34
September	35.00	2.7	.47	1.17
Water year 1938-39	4 185.22	82	0	11.5
October 1939	30.04	8.3	.58	.969
November	213.97	15.2	1.56	7.13
December	233.59	31	0	7.54
Calendar year 1939	3 561.12	31	0	9.76
January 1940	760.13	91	.32	24.5
February	144.39	12.0	1.64	4.98
March	512.37	41	.05	16.5
April	976	50	24	32.5
May	887.2	64	8.7	28.6
June	828.9	75	4.3	27.6
July	62.43	4.9	.02	2.01
August	24.00	.96	.52	.774
September	30.70	1.64	.52	1.02
Water year 1939-40	4 703.72	91	0	12.9

Whippany River at Morristown

Location.- Water-stage recorder and, after July 16, 1936, concrete control, lat. 40°48'21", long. 74°27'22", at Morristown sewage-disposal plant, three-quarters of a mile downstream from Morristown, Morris County, and 9 miles (revised) upstream from mouth. Datum of gage is 260.01 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 29.4 square miles (revised).

Records available.- August 1921 to September 1940.

Average discharge.- 19 years, 48.5 second-feet.

Extremes.- 1921-40: Maximum discharge, 1,500 second-feet Aug. 26, 1928, Mar. 12, 1936, and Mar. 15, 1940, from rating curve extended above 300 second-feet on basis of slope-area measurement and computation of peak flow over weir for 1936; maximum gage height, 7.30 feet Aug. 26, 1928; minimum discharge, 2.8 second-feet Aug. 27, 1932 (gage height, 0.73 foot).

Peak gage height and discharge during period of this report.-
1934: Oct. 6 (7 p.m.) 3.70 ft., 467 sec.-ft.
1935: Oct. 31 (9 a.m.) 3.79 ft., 496 sec.-ft.
1936: Mar. 12 (1:30 to 2 a.m.) 6.29 ft., 1,500 sec.-ft.; Mar. 18 (noon) 3.78 ft., 490 sec.-ft.; Apr. 6 (1 p.m.) 5.26 ft., 1,020 sec.-ft.; Dec. 20 (12:30 to 1:30 p.m.) 4.08 ft., 491 sec.-ft.
1937: Nov. 13 (10 p.m.) 4.56 ft., 699 sec.-ft.
1938: Jan. 25 (1 p.m.) 4.41 ft., 640 sec.-ft.; July 24, missing; Sept. 22 (4 a.m.) 5.62 ft., 1,170 sec.-ft.
1939: Mar. 8 (3 a.m.) 3.97 ft., 477 sec.-ft.; Apr. 19 (7 p.m.) 4.12 ft., 529 sec.-ft.
1940: Mar. 15 (9 a.m.) 6.33 ft., 1,500 sec.-ft.; Apr. 8 (9 p.m.) 4.09 ft., 526 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	140	47	219	119	b35	58	54	37	19.6	17.1	22	13.5
2	83	48	109	97	b36	69	54	34	17.7	15.3	22	13.0
3	70	37	69	56	b37	83	54	34	17.7	14.1	30	24
4	63	106	89	b46	b36	69	52	33	22	13.5	24	100
5	60	148	70	b40	b33	65	52	33	25	13.5	20	116
6	314	70	61	42	b30	69	53	36	20	13.0	18.3	78
7	187	56	58	52	b30	72	48	48	18.9	14.1	18.3	42
8	93	47	52	62	b31	69	46	40	21	69	18.9	26
9	79	41	45	63	b35	62	95	33	43	318	17.7	22
10	73	39	b39	95	b36	61	73	31	24	257	17.1	24
11	71	41	b38	74	38	70	54	32	22	101	22	19.6
12	65	40	b38	56	37	111	59	29	18.3	46	19.6	18.3
13	59	37	42	47	37	128	79	29	18.9	46	18.9	17.1
14	54	38	41	b44	66	94	62	29	18.3	37	20	17.1
15	52	35	40	b41	257	76	56	27	15.9	32	17.7	17.7
16	50	34	39	b40	138	73	56	26	14.7	51	17.1	15.9
17	49	33	41	b40	184	74	56	25	15.3	32	15.9	15.3
18	48	32	40	b40	112	70	52	24	28	29	14.7	15.3
19	47	31	107	b40	80	69	50	24	37	27	15.3	15.3
20	45	30	178	b42	72	70	42	24	50	27	14.7	15.9
21	43	33	65	60	60	98	41	26	25	29	16.5	16.6
22	52	38	54	83	56	88	41	22	32	32	26	15.9
23	47	35	51	59	55	63	40	22	25	38	18.9	13.5
24	42	42	48	b45	56	63	37	22	19.6	59	14.7	13.5
25	41	37	46	b40	68	61	35	22	17.7	70	13.5	13.5
26	43	36	80	b45	114	56	34	20	17.1	72	13.0	13.5
27	46	35	66	b40	90	52	32	20	17.7	34	13.5	13.5
28	41	37	48	b38	62	62	32	21	27	28	15.3	14.1
29	39	42	48	b39	-	88	32	20	19.6	26	13.5	14.7
30	37	169	48	b42	-	61	44	19.6	18.9	24	14.7	13.0
31	37	-	46	b37	-	55	-	19.6	-	23	14.7	-

b Stage-discharge relation affected by ice.

Whippany River at Morristown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14.1	94	63	23	b27	b70	90	52	21	21	10.4	a13.0
2	16.5	48	58	b26	b26	68	98	50	23	18.8	10.4	a12.0
3	14.7	34	53	b500	b26	70	108	54	a21	18.1	10.4	11.6
4	13.5	31	b40	204	b30	103	86	98	a20	17.4	10.4	10.8
5	13.5	29	b35	90	b27	119	81	63	a22	16.1	10.8	10.4
6	15.3	27	b34	72	b26	81	686	51	25	16.1	12.4	9.6
7	16.5	24	b38	69	b25	67	250	47	21	15.4	12.4	9.6
8	14.7	31	41	64	b24	67	176	47	22	15.4	11.6	10.4
9	14.7	27	49	137	b24	78	146	43	22	14.1	10.4	10.4
10	14.7	24	48	232	b23	159	184	39	15.3	13.4	17.8	10.4
11	14.7	24	44	100	b23	765	176	40	19.0	12.9	16.7	10.0
12	15.3	35	40	89	b23	1 010	154	39	a30	16.8	11.2	10.0
13	14.1	69	38	93	b23	378	153	68	a45	15.4	10.8	9.2
14	14.1	101	38	89	b27	248	125	75	a90	18.8	10.8	8.9
15	14.1	44	43	108	b50	205	112	52	a80	a15.0	14.2	11.2
16	13.5	35	69	178	b44	172	115	41	45	13.8	18.4	11.2
17	13.5	79	45	93	b50	164	95	38	23	12.9	12.0	10.4
18	14.7	125	38	b78	b42	398	90	36	a35	13.4	10.0	21
19	15.3	79	37	b70	b38	351	85	38	a50	13.8	10.4	32
20	14.7	79	36	b90	b37	228	81	42	41	16.4	11.2	15.3
21	14.7	69	b32	b70	b37	322	78	35	a80	15.8	10.8	14.8
22	15.9	56	b27	b57	b37	238	72	32	34	13.8	12.3	12.9
23	16.5	50	b25	b48	b37	172	68	30	26	13.4	33	13.4
24	15.9	48	b22	b47	b38	164	66	29	25	16.4	52	15.3
25	14.7	46	b21	b55	b40	145	63	28	21	13.4	15.8	11.6
26	14.1	46	b20	b46	b43	126	62	26	14.1	11.6	12.9	10.0
27	14.1	43	b20	b40	b50	176	60	30	11.7	12.0	12.4	9.6
28	14.1	62	b20	b35	b53	201	60	26	17.1	12.4	11.6	10.0
29	14.7	206	b20	b31	b60	125	58	23	17.1	11.6	14.3	11.2
30	90	78	b20	b29	-	111	54	25	a17.0	11.6	a22	16.3
31	359	-	b21	b28	-	95	-	23	-	10.4	a15.0	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.
Note.- Concrete control erected June 1 to July 15; discharge computed by shifting-control method and on basis of records for Saddle River at Lodi.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	66	10.6	11.0	73	132	54	41	63	28	63	12.8	20
2	25	11.5	19.6	47	75	52	41	59	27	28	12.8	18.7
3	15.0	11.9	60	113	59	50	40	57	28	23	11.5	17.4
4	11.9	13.9	28	66	55	49	38	55	28	21	11.5	16.8
5	11.5	24	20	44	61	52	40	52	24	21	11.9	21
6	11.0	16.8	27	38	59	48	196	54	34	26	11.9	22
7	15.3	14.4	125	75	58	44	96	55	58	19.3	11.5	17.4
8	19.3	16.8	34	80	57	47	66	50	30	11.5	11.9	16.8
9	14.4	21	23	59	59	52	74	48	26	18.0	14.4	15.6
10	16.2	16.8	21	72	61	43	77	46	23	12.8	11.9	15.0
11	15.6	13.9	46	76	52	40	61	42	28	13.9	27	15.0
12	12.8	12.8	71	55	47	37	53	40	26	17.4	64	15.0
13	9.4	13.3	35	48	47	38	49	48	24	16.8	31	41
14	9.8	12.3	26	47	72	39	50	122	30	15.9	17.4	38
15	11.0	12.3	22	114	61	46	55	227	28	71	13.9	20
16	11.0	12.3	21	80	50	71	52	87	22	46	12.3	17.4
17	76	13.3	65	78	46	55	46	68	21	28	11.9	16.2
18	37	13.9	32	176	42	55	43	61	25	21	12.3	16.2
19	20	11.5	26	84	40	70	47	55	23	16.8	16.8	15.6
20	17.4	11.0	350	72	40	81	42	54	21	16.2	20	14.4
21	17.4	10.6	98	80	46	157	64	50	54	16.2	17.7	13.3
22	18.0	9.8	53	141	307	91	163	44	140	15.6	87	13.3
23	13.9	11.0	38	152	112	66	103	49	40	13.9	258	13.9
24	12.3	12.8	36	97	80	55	68	43	26	13.3	104	13.9
25	11.9	11.9	34	183	71	66	58	38	22	11.9	53	13.3
26	11.0	12.8	33	111	65	66	54	37	21	16.7	35	13.3
27	8.0	12.3	32	87	61	54	145	36	19.3	21	39	12.8
28	11.0	11.9	31	75	55	49	126	34	24	13.3	28	15.0
29	11.0	11.5	28	75	-	46	86	33	25	12.8	23	15.6
30	11.9	11.0	28	71	-	44	69	29	28	11.9	23	15.6
31	10.6	-	59	122	-	42	-	28	-	15.4	22	-

Whippany River at Morristown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.2	22	59	41	66	42	52	36	27	51	a44	34
2	14.6	22	53	44	53	57	44	36	22	51	a41	23
3	14.0	21	51	47	58	43	42	36	28	41	a38	23
4	14.6	21	47	41	71	39	40	32	23	36	a33	22
5	16.5	18.9	47	37	58	53	37	31	23	33	a32	21
6	34	19.5	70	35	55	67	37	30	22	31	a39	20
7	18.2	18.9	65	102	98	51	43	28	29	28	a39	21
8	14.0	20	47	68	62	46	60	28	108	28	a40	21
9	12.9	22	44	45	53	43	138	30	33	28	a42	20
10	16.4	18.2	38	38	60	41	98	41	27	26	a38	18.7
11	18.2	17.0	35	41	52	37	65	32	58	25	a80	19.3
12	15.2	17.0	32	40	47	41	55	31	44	28	a85	19.3
13	14.0	315	31	41	58	43	49	29	106	26	a55	22
14	14.6	345	31	38	65	72	47	34	96	39	a40	20
15	14.0	99	31	36	55	98	44	162	44	57	a37	24
16	13.4	66	42	32	44	74	42	57	35	29	a34	21
17	12.9	56	55	36	43	103	41	37	31	26	a33	18.7
18	13.4	52	109	31	53	77	79	31	45	26	a31	23
19	30	47	63	26	60	65	98	29	31	30	a30	96
20	120	51	51	33	104	58	58	31	27	a50	a29	287
21	48	49	44	31	56	79	53	30	25	a90	a29	489
22	28	42	31	33	50	57	52	32	20	a200	a29	676
23	57	37	24	33	68	51	47	29	24	a350	28	129
24	50	36	41	42	81	50	43	39	34	a450	27	80
25	29	35	56	425	58	45	42	39	27	a250	26	61
26	24	35	47	162	52	49	42	46	108	a100	26	54
27	23	35	41	80	52	49	40	78	172	a65	26	50
28	65	141	41	65	47	43	38	47	233	a50	24	48
29	47	182	40	57	-	43	40	33	100	a46	24	44
30	31	73	37	59	-	43	38	28	61	a58	24	43
31	24	-	37	74	-	53	-	26	-	a56	24	-

a No gage-height record; discharge computed on basis of records for Saddle River at Lodi.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	28	40	34	70	242	98	82	26	22	12.9	11.1
2	36	28	34	44	61	126	257	71	25	17.6	11.6	10.7
3	36	28	31	44	239	109	122	68	24	15.8	11.6	10.7
4	38	28	163	43	250	105	101	65	25	15.8	14.0	10.7
5	36	31	207	43	105	144	93	62	24	16.4	16.8	11.6
6	44	31	292	190	91	206	176	59	22	17.6	11.6	10.7
7	57	31	120	88	95	121	264	57	21	17.6	16.7	10.7
8	39	29	84	66	91	149	136	53	22	15.8	15.8	10.7
9	35	34	93	57	87	99	116	72	22	15.2	22	10.7
10	33	28	119	59	109	93	111	93	22	14.0	18.9	11.1
11	32	28	82	57	181	84	60	59	22	37	11.4	9.5
12	31	27	73	51	103	97	123	51	22	10.3	6.7	9.1
13	30	27	67	47	91	114	93	49	36	6.7	7.2	8.8
14	30	25	62	51	95	119	87	52	59	6.4	6.7	8.3
15	30	23	57	47	164	133	84	47	27	7.0	5.7	8.0
16	30	23	52	45	225	270	77	45	23	11.6	8.3	8.0
17	28	31	53	45	107	166	82	43	21	11.6	11.1	8.8
18	28	29	55	46	105	121	165	42	19.5	11.1	10.7	8.3
19	28	41	53	45	105	105	360	38	22	11.6	21	8.8
20	32	55	50	41	103	103	287	36	31	15.2	57	11.4
21	57	36	47	42	93	96	149	38	22	15.8	24	10.3
22	34	30	45	46	91	91	126	56	18.9	13.4	15.8	8.8
23	31	31	41	39	77	84	109	53	22	10.7	13.4	8.8
24	42	33	42	42	73	82	101	43	24	10.7	34	8.8
25	46	b42	42	40	68	78	95	37	18.2	35	38	8.3
26	34	26	40	33	164	74	99	33	17.6	18.2	17.6	7.6
27	41	11.1	188	36	168	74	99	31	38	19.4	14.0	7.6
28	41	12.9	72	36	204	143	122	30	15.2	16.0	12.9	7.6
29	35	33	50	36	-	86	91	28	7.0	17.0	22	7.0
30	31	94	38	154	-	141	84	27	31	16.4	33	13.1
31	28	-	9.1	187	-	113	-	26	-	14.6	20	-

b Stage-discharge relation affected by ice.

Whippany River at Morristown--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19.7	36	10.7	9.9	9.5	16.4	80	63	188	33	17.0	228
2	16.4	16.4	17.6	b10	10.3	15.2	61	66	258	29	15.8	224
3	17.0	13.4	21	b10	10.1	34	57	73	133	28	15.2	60
4	12.9	12.0	14.6	b10	10.3	170	99	87	116	45	15.2	42
5	11.1	66	12.9	b10	10.3	90	70	62	107	32	15.8	33
6	10.7	79	12.4	b10	12.0	70	56	53	86	27	29	29
7	10.3	28	12.0	b9.5	13.4	62	52	52	73	23	30	27
8	9.9	19.5	12.0	b9.5	12.0	53	157	51	67	22	18.2	25
9	9.9	15.2	10.3	9.5	11.1	56	344	40	66	20	15.8	36
10	9.5	14.6	12.0	9.5	16.8	51	121	44	77	20	15.2	28
11	9.1	14.6	16.4	9.9	81	37	91	42	67	69	15.2	26
12	8.8	12.9	12.4	11.1	26	32	132	48	62	104	15.2	22
13	9.5	12.9	12.9	12.9	20	34	191	38	56	46	39	22
14	10.7	12.4	15.8	71	b20	109	121	29	46	29	30	21
15	9.5	12.0	12.4	282	b19	1 030	99	34	45	25	18.9	20
16	8.8	12.4	12.4	54	b18	130	89	81	41	23	17.6	21
17	9.5	11.6	12.4	26	17.6	78	80	167	36	22	22	19.5
18	8.8	11.6	12.0	22	15.2	84	91	65	37	23	22	18.9
19	8.3	11.1	12.4	18.9	29	99	86	52	64	21	39	18.2
20	8.8	11.6	31	b17	77	90	209	47	56	18.9	32	18.9
21	9.1	12.0	32	b15	56	92	244	69	36	18.9	19.5	18.9
22	12.9	11.6	18.9	b14	41	71	181	65	33	17.0	17.6	18.2
23	10.7	11.1	14.6	b13	28	61	116	83	31	17.0	15.8	16.4
24	9.5	11.1	12.6	b12	22	50	101	65	52	18.2	15.2	17.0
25	9.1	10.7	12.0	b11	22	44	89	62	55	19.5	14.6	114
26	10.3	10.7	11.6	b11	22	41	86	66	66	18.9	46	65
27	11.1	11.1	10.3	b10	17.6	40	80	64	56	40	27	30
28	15.2	10.3	10.7	b10	18.2	39	73	146	46	58	131	24
29	10.3	10.7	10.7	b10	17.0	48	63	82	56	28	78	21
30	12.0	10.7	11.1	9.1	-	84	62	66	37	30	44	19.5
31	46	-	10.7	9.5	-	195	-	252	-	22	35	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	2 170	314	37	70.0	2.38	2.74
November	1 494	169	30	49.8	1.69	1.89
December	2 015	219	38	65.0	2.21	2.55
Calendar year 1934	19 954.9	485	8.9	54.7	1.86	25.50
January 1935	1 664	119	37	53.7	1.83	2.11
February	1 921	257	30	68.6	2.33	2.43
March	2 259	128	52	72.9	2.48	2.86
April	1 515	95	32	50.5	1.72	1.92
May	862.2	48	19.6	27.8	.946	1.09
June	686.9	50	14.7	22.9	.779	.87
July	1 607.6	318	13.0	51.9	1.77	2.04
August	558.5	30	13.0	18.0	.612	.71
September	767.8	116	13.0	25.6	.871	.97
Water year 1934-35	17 521.0	318	13.0	48.0	1.63	22.18
October 1935	875.9	359	13.5	28.3	.963	1.11
November	1 743	206	24	58.1	1.98	2.21
December	1 135	69	20	36.6	1.24	1.43
Calendar year 1935	15 595.9	359	13.0	42.7	1.45	19.75
January 1936	2 891	500	23	93.3	3.17	3.66
February	1 010	60	23	34.8	1.18	1.27
March	6 676	1 010	67	215	7.31	8.43
April	3 732	686	54	124	4.22	4.71
May	1 320	98	23	42.6	1.45	1.67
June	933.3	90	11.7	31.1	1.06	1.18
July	457.4	21	10.4	14.8	.503	.58
August	454.8	52	10.0	14.7	.500	.58
September	372.5	32	8.9	12.4	.422	.47
Water year 1935-36	21 601.0	1 010	8.9	59.0	2.01	27.30

Whippany River at Morristown--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	562.6	76	8.0	18.1	0.616	0.71
November	399.9	24	9.8	13.3	.452	.50
December	1 532.6	350	11.0	49.4	1.68	1.94
Calendar year 1936	20 342.1	1 010	8.0	55.6	1.89	25.70
January 1937	2 691	183	38	86.8	2.95	3.40
February	1 970	307	40	70.4	2.39	2.49
March	1 759	157	37	56.7	1.93	2.22
April	2 143	196	38	71.4	2.43	2.71
May	1 764	227	28	56.9	1.94	2.24
June	953.3	140	19.3	31.8	1.08	1.20
July	668.6	71	11.5	21.6	.735	.85
August	1 038.4	258	11.5	33.5	1.14	1.31
September	529.5	41	12.8	17.6	.599	.67
Water year 1936-37	16 011.9	350	8.0	43.9	1.49	20.24
October 1937	862.1	120	12.9	27.8	.946	1.09
November	1 933.5	345	17.0	64.4	2.19	2.44
December	1 440	109	24	46.5	1.58	1.82
Calendar year 1937	17 752.4	345	11.5	48.6	1.65	22.44
January 1938	1 913	425	26	61.7	2.10	2.42
February	1 679	104	43	60.0	2.04	2.12
March	1 712	103	37	55.2	1.88	2.17
April	1 604	138	37	53.5	1.82	2.03
May	1 228	162	26	39.6	1.35	1.56
June	1 663	233	20	55.4	1.88	2.10
July	2 404	450	25	77.5	2.64	3.04
August	1 127	85	24	36.4	1.24	1.43
September	2 448.0	676	18.7	81.6	2.78	3.10
Water year 1937-38	20 013.6	676	12.9	54.8	1.86	25.32
October 1938	1 114	57	28	35.9	1.22	1.41
November	954.0	94	11.1	31.8	1.08	1.20
December	2 401.1	292	9.1	77.5	2.64	3.04
Calendar year 1938	20 247.1	676	9.1	55.5	1.89	25.62
January 1939	1 834	190	33	59.2	2.01	2.32
February	3 415	250	61	122	4.15	4.32
March	3 768	270	74	122	4.15	4.78
April	3 967	360	60	132	4.49	5.01
May	1 546	93	26	49.9	1.70	1.96
June	729.4	59	7.0	24.3	.827	.92
July	483.5	37	6.4	15.6	.531	.61
August	542.4	57	5.7	17.5	.595	.69
September	285.6	13.1	7.0	9.52	.324	.36
Water year 1938-39	21 040.0	360	5.7	57.6	1.96	26.62
October 1939	375.4	46	8.3	12.1	.412	.48
November	533.2	79	10.3	17.8	.605	.68
December	440.8	32	10.3	14.2	.483	.56
Calendar year 1939	17 920.3	360	5.7	49.1	1.67	22.69
January 1940	747.3	282	9.1	24.1	.820	.95
February	682.4	81	9.5	23.5	.799	.86
March	3 105.6	1 030	15.2	100	3.40	3.92
April	3 381	344	52	113	3.84	4.28
May	2 214	252	29	71.4	2.43	2.80
June	2 149	258	31	71.6	2.44	2.72
July	947.4	104	17.0	30.6	1.04	1.20
August	881.8	131	14.6	28.4	.966	1.11
September	1 283.5	228	16.4	42.8	1.46	1.63
Water year 1939-40	16 741.4	1 030	8.3	45.7	1.55	21.19

Pequannock River at Macopin intake dam

Location.- Staff gage above dam, lat. 41°01'00", long. 74°23'47", at Macopin intake dam of Newark Waterworks, 3 miles upstream from Butler, Morris County. Datum of gage is 583.74 feet above mean sea level (Jersey City datum).

Drainage area.- 63.7 square miles.

Records available.- January 1892 to September 1940.

Average discharge.- 48 years, 126 second-feet (adjusted for storage and diversion).

Extremes.- 1892-1940: Maximum discharge recorded, about 6,100 second-feet over intake dam Oct. 10, 1903 (gage height, 3.85 feet); no flow over dam at times during most years.

Remarks.- Figures of daily discharge represent flow over intake dam only. Water diverted above intake dam for municipal supply of Newark. Flow regulated by Oak Ridge, Canistear, Clinton, and Echo Lake Reservoirs (combined usable capacity, 1,549,000,000 cubic feet). Gage read twice daily.

Cooperation.- Station operated and base data furnished by Department of Public Affairs, Division of Water, Newark, N. J.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	2.2	355	53	46	73	73	46	0	0	0	0
2	73	9.0	440	77	49	95	71	28	0	0	0	0
3	46	11.1	393	53	49	144	42	14.2	0	0	0	0
4	32	35	305	46	42	82	58	19.3	0	0	0	0
5	31	79	250	32	38	113	53	28	0	0	0	0
6	141	73	206	28	35	160	49	32	0	0	0	0
7	177	57	166	53	32	189	49	56	0	0	0	0
8	128	49	155	104	30	172	53	82	0	0	0	0
9	108	33	124	149	30	118	123	77	0	68	0	0
10	77	16.7	82	333	37	98	165	49	0	155	0	0
11	61	44	73	385	36	133	113	28	0	95	0	0
12	64	19.3	49	277	30	177	139	28	0	32	0	0
13	46	11.1	57	182	38	200	182	19.3	0	13.8	0	0
14	28	11.1	65	160	61	172	165	11.1	0	13.0	0	0
15	22	11.1	28	133	99	175	133	11.1	0	0	0	0
16	23	11.1	19.3	114	90	177	128	11.1	0	0	0	0
17	14.8	13.7	13.8	114	90	182	118	2.8	0	0	0	11.1
18	21	25	16.7	95	90	182	104	0	0	0	0	11.1
19	17.0	9.0	98	73	86	181	86	0	0	0	0	11.1
20	13.0	11.4	263	86	69	155	77	0	46	0	0	11.1
21	11.9	11.4	237	104	53	149	73	0	32	0	0	11.1
22	16.7	11.4	139	118	53	160	69	0	13.5	0	0	11.1
23	15.6	13.8	82	90	65	165	53	0	11.1	0	0	11.1
24	12.7	22	90	46	61	121	51	0	0	0	0	11.1
25	11.9	19.3	64	49	78	77	46	0	0	0	0	11.1
26	16.7	11.1	90	49	147	71	41	0	0	0	0	11.1
27	13.7	11.1	133	32	155	53	32	0	0	0	0	11.1
28	9.6	13.8	90	38	168	77	28	0	0	0	0	11.1
29	7.9	32	77	42	-	118	28	0	0	0	0	11.1
30	3.6	149	53	25	-	95	38	0	0	0	0	11.1
31	0	-	32	25	-	77	-	0	-	0	0	-

Pequannock River at Macopin intake dam--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.1	81	82	11.1	49	73	172	49	13.8	0	0	0
2	11.1	55	90	19.3	49	61	165	49	25	0	0	0
3	11.1	27	77	177	49	57	203	65	28	0	0	0
4	11.1	15.9	57	284	49	57	189	128	28	0	0	0
5	11.1	12.7	42	237	49	69	165	109	9.0	0	0	0
6	11.1	11.9	43	194	49	73	479	86	0	0	0	0
7	11.1	11.4	27	139	49	86	641	73	0	0	0	0
8	11.1	11.1	13.8	104	49	99	455	73	0	0	0	0
9	11.1	11.1	11.4	165	49	114	340	73	0	0	0	0
10	11.1	11.1	13.8	256	49	182	340	73	0	0	0	0
11	11.1	11.1	28	212	49	822	340	61	0	0	0	0
12	11.1	11.1	46	165	49	2 070	355	49	0	0	0	0
13	11.1	28	49	160	49	1 870	333	49	11.1	0	0	0
14	2.6	53	49	160	49	988	290	65	19.3	0	0	0
15	7.7	36	57	177	49	695	270	65	7.1	0	0	0
16	10.1	31	90	212	49	586	244	53	0	0	0	0
17	2.2	20	99	182	49	596	194	49	0	0	0	0
18	7.7	13.8	73	182	49	1 440	165	46	0	0	0	0
19	10.1	25	49	189	49	1 790	144	42	0	0	0	0
20	10.8	32	49	182	49	1 310	128	81	260	0	0	0
21	10.8	46	38	149	49	1 050	128	73	172	0	0	0
22	10.8	49	28	144	49	777	114	53	69	0	0	0
23	10.8	49	19.3	86	49	559	99	49	38	0	0	0
24	10.8	46	11.1	86	46	424	99	49	25	0	0	0
25	0	32	11.1	99	35	333	99	42	0	0	0	0
26	6.3	28	11.1	73	53	250	99	19.3	0	0	0	0
27	9.3	28	11.1	73	61	284	86	16.7	0	0	0	0
28	10.4	49	11.1	61	57	333	61	11.1	0	0	0	0
29	10.8	133	11.1	49	69	244	49	11.1	0	0	0	0
30	68	104	11.1	49	-	231	49	11.1	0	0	0	0
31	131	-	11.1	49	-	218	-	11.1	-	0	0	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	35	212	160	73	128	7.1	0	1.2	0
2	0	0	0	38	312	149	73	90	18.4	0	0	0
3	0	0	0	73	326	149	73	77	0	0	0	0
4	0	0	0	73	149	128	73	104	0	0	0	0
5	0	0	0	57	119	149	90	99	0	0	0	0
6	0	0	0	32	90	133	348	90	0	0	0	0
7	0	0	0	35	119	128	424	99	90	0	0	0
8	0	0	0	35	99	128	297	86	42	0	11.9	0
9	0	0	0	35	99	128	244	69	15.9	0	0	0
10	0	0	0	38	103	124	237	53	0	0	0	0
11	0	0	0	46	74	86	200	46	0	0	0	0
12	0	0	0	28	73	53	177	32	0	17.0	4.5	0
13	0	0	0	19.3	68	49	144	42	0	2.6	4.5	0
14	0	0	0	13.3	79	49	133	212	0	0	0	0
15	0	0	0	58	90	61	149	479	0	0	0	32
16	0	0	0	73	95	73	128	431	0	0	0	0
17	0	0	0	61	77	73	90	297	0	0	0	0
18	0	0	0	73	69	61	73	261	0	0	0	0
19	0	0	0	57	53	49	69	205	44	0	0	0
20	0	0	466	38	38	61	54	189	38	0	0	0
21	0	0	256	57	119	124	95	144	49	0	0	0
22	0	0	139	128	784	144	218	103	139	0	56	0
23	0	0	77	144	988	133	231	99	65	0	87	0
24	0	0	53	200	551	128	212	82	0	0	73	0
25	0	0	99	393	370	149	144	53	0	0	26	0
26	0	0	19.3	401	431	149	133	49	0	0	19.3	0
27	0	0	10.1	284	231	109	189	49	0	0	0	0
28	0	0	5.3	231	194	109	231	49	0	0	0	0
29	0	0	0	182	-	86	212	46	0	0	0	0
30	0	0	0	160	-	73	172	28	0	0	0	0
31	0	-	7.1	194	-	73	-	7.1	-	2.6	0	-

Pequannock River at Macopin intake dam--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	124	82	160	38	104	49	0.8	290	160	0
2	0	0	82	99	114	49	86	49	0	225	160	0
3	0	0	49	117	95	46	65	38	.5	160	144	0
4	0	0	57	124	124	32	49	25	0	99	114	0
5	0	21	90	109	128	42	38	13.8	0	71	128	0
6	0	28	124	95	144	77	35	11.1	0	53	104	0
7	0	28	182	166	212	65	61	11.1	0	40	104	0
8	0	19.3	114	203	177	46	71	11.1	1.2	16.7	90	0
9	0	11.1	50	160	144	32	165	2.8	0	2.9	90	0
10	0	11.1	73	117	133	41	218	0	0	0	77	0
11	0	11.1	53	124	119	22	172	0	0	0	139	0
12	0	11.1	46	117	119	28	155	0	0	49	114	0
13	0	263	22	115	104	32	119	0	2.8	46	69	0
14	0	417	11.1	124	99	69	99	0	0	1.9	49	0
15	0	256	19.3	107	77	95	99	49	0	0	49	0
16	0	139	46	88	35	90	86	77	0	0	35	0
17	0	82	95	91	28	128	71	69	0	0	15.2	0
18	0	57	217	92	38	160	99	49	0	0	2.6	0
19	0	82	244	126	61	155	182	32	0	0	0	0
20	49	95	194	113	86	133	144	28	0	0	0	225
21	9.0	86	177	81	71	128	90	28	0	431	0	783
22	0	86	144	59	77	114	114	38	0	895	0	1 160
23	0	61	104	52	95	99	109	38	4.8	1 030	0	781
24	46	49	119	135	99	99	66	32	0	962	0	489
25	32	49	124	681	86	86	57	42	0	703	0	297
26	38	49	144	664	73	86	57	35	0	417	0	200
27	0	54	124	494	69	95	57	46	53	297	0	139
28	0	155	109	269	53	77	49	49	783	783	0	99
29	22	244	114	154	-	61	57	46	776	362	0	73
30	13.8	312	82	107	-	53	53	32	218	256	0	49
31	8.2	-	53	146	-	69	-	14.1	-	182	0	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	1.9	49	49	160	463	270	161	0	0	0	0
2	28	5.3	46	49	90	440	440	161	0	0	0	0
3	16.7	5.3	118	53	194	401	417	82	0	0	0	0
4	25	1.9	244	57	274	318	305	61	0	0	0	0
5	25	7.1	408	95	231	333	250	53	0	0	0	0
6	22	26	764	425	203	290	333	49	0	0	0	0
7	35	46	753	318	194	218	447	49	0	0	0	0
8	49	49	505	318	200	206	355	49	0	0	0	0
9	49	49	370	244	189	194	305	53	0	0	0	0
10	38	46	362	212	182	177	270	53	0	0	0	0
11	28	32	297	165	225	160	225	42	0	0	0	0
12	13.8	28	218	165	212	177	244	32	0	0	0	0
13	11.1	28	200	172	194	189	225	11.9	0	0	0	7.1
14	16.7	25	172	189	231	160	144	20	9.6	0	0	11.1
15	10.4	13.8	155	182	385	149	86	2.9	0	0	0	7.1
16	9.6	5.3	133	160	497	224	46	0	0	0	0	1.5
17	11.1	9.3	95	133	431	250	61	0	0	0	0	.3
18	11.1	22	53	109	408	200	189	.9	0	0	0	1.5
19	11.1	42	57	114	370	160	362	2.2	0	0	0	0
20	19.3	69	65	124	318	133	497	0	0	0	2.8	16.7
21	38	69	61	133	305	128	370	0	0	0	0	5.3
22	38	53	46	104	340	109	237	2.2	0	0	0	0
23	28	49	25	61	290	90	206	46	0	0	0	0
24	61	49	35	95	231	114	165	69	0	0	0	0
25	95	49	46	109	231	133	155	28	0	0	0	0
26	46	49	53	82	263	155	128	7.1	0	0	0	0
27	42	57	124	109	318	172	119	1.5	0	0	0	0
28	46	53	109	128	385	244	172	0	0	0	0	0
29	33	49	65	128	-	277	160	0	0	0	0	0
30	28	49	65	212	-	270	119	0	12.4	0	0	0
31	17.0	-	61	270	-	237	-	0	-	0	0	-

Pequannock River at Macopin intake dam--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	284	128	523	82	0	222
2	0	0	0	0	0	0	160	128	613	42	0	250
3	0	0	0	0	0	0	99	144	505	31	0	290
4	0	0	0	0	0	0	104	160	369	49	0	212
5	0	0	0	0	0	0	86	149	256	104	0	114
6	0	5.6	0	0	0	0	61	109	194	99	1.9	103
7	0	0	0	0	0	0	49	95	133	61	.6	77
8	0	0	0	0	0	0	172	65	99	5.0	0	86
9	0	0	0	0	0	0	318	61	95	2.2	0	95
10	0	0	0	0	0	0	225	61	90	0	0	133
11	0	0	0	0	0	0	285	26	86	0	0	160
12	0	0	0	0	0	0	333	26	73	28	0	160
13	0	0	0	0	0	0	393	26	61	35	0	160
14	0	0	0	0	0	0	318	50	46	9.0	0	165
15	0	0	0	23	0	321	285	38	35	0	0	172
16	0	0	0	8.4	0	182	237	69	42	0	0	160
17	0	0	0	0	0	99	231	189	28	0	0	109
18	0	0	0	0	0	69	231	149	11.1	0	0	19.3
19	0	0	0	0	0	109	225	104	2.9	0	0	0
20	0	0	0	0	0	177	370	104	2.9	0	0	0
21	0	0	0	0	0	155	623	139	0	0	0	0
22	0	0	0	0	0	128	669	160	0	0	0	0
23	0	0	0	0	0	86	532	160	0	0	0	0
24	0	0	0	0	0	53	401	146	0	0	0	0
25	0	0	0	0	0	57	305	133	49	0	0	0
26	0	0	0	0	0	57	290	155	104	0	0	0
27	0	0	0	0	0	57	256	144	109	0	0	0
28	0	0	0	0	0	77	189	194	82	0	55	0
29	0	0	0	0	0	77	149	231	90	0	25	0
30	0	0	0	0	-	139	133	218	114	0	0	0
31	0	-	0	0	-	340	-	370	-	0	0	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	1 352.1	177	0	43.6	118	1.85	2.13
November	826.7	149	2.2	27.5	113	1.77	1.98
December	4 245.8	440	13.8	137	198	3.11	3.58
Calendar year 1934	24 143.3	569	0	66.1	127	1.99	27.10
January 1935	3 165	385	25	102	155	2.43	2.80
February	1 857	168	30	66.3	110	1.73	1.80
March	4 141	200	53	134	200	3.14	3.62
April	2 440	182	28	81.3	127	1.99	2.22
May	542.9	82	0	17.5	58.9	.925	1.07
June	102.6	46	0	3.40	49.1	.771	.86
July	376.8	155	0	12.2	53.7	.843	.97
August	0	0	0	0	11.7	.184	.21
September	155.4	11.1	0	5.18	32.5	.510	.57
Water year 1934-35	19 205.3	440	0	52.6	102	1.60	21.81
October 1935	474.5	131	0	15.3	46.0	.722	.83
November	1 073.2	133	11.1	35.8	214	3.36	3.75
December	1 220.1	99	11.1	39.4	113	1.77	2.04
Calendar year 1935	15 548.5	385	0	42.6	97.4	1.53	20.74
January 1936	4 325.4	284	11.1	140	199	3.12	3.60
February	1 448	69	35	49.9	74.2	1.16	1.25
March	17 741	2 070	57	572	661	10.38	11.97
April	6 495	641	49	216	266	4.18	4.66
May	1 684.4	128	11.1	54.3	92.2	1.45	1.67
June	705.3	260	0	23.5	90.2	1.42	1.58
July	0	0	0	0	14.5	.228	.26
August	0	0	0	0	6.76	.106	.12
September	0	0	0	0	5.69	.089	.10
Water year 1935-36	35 166.9	2 070	0	96.1	149	2.34	31.83

*Adjusted for diversion at Macopin intake dam and for change in contents in Oak Ridge, Canistear, Clinton, and Echo Lake Reservoirs.

Pequannock River at Macopin intake dam--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	0	0	0	0	35.6	0.559	0.64
November	0	0	0	0	17.2	.270	.30
December	1 131.8	466	0	36.5	208	3.27	3.77
Calendar year 1936	33 530.9	2 070	0	91.6	140	2.20	29.92
January 1937	3 291.6	401	13.3	106	281	4.41	5.08
February	6 012	988	38	215	271	4.25	4.43
March	3 268	160	49	105	158	2.48	2.86
April	4 986	424	54	166	222	3.49	3.89
May	3 798.1	479	7.1	123	175	2.75	3.17
June	508.4	139	0	16.9	69.0	1.08	1.20
July	22.2	17.0	0	.72	26.5	.416	.48
August	283.4	87	0	9.14	66.2	1.04	1.20
September	32	32	0	1.07	33.0	.518	.58
Water year 1936-37	23 333.5	988	0	63.9	129	2.03	27.60
October 1937	218.0	49	0	7.00	74.5	1.17	1.35
November	2 676.7	417	0	89.2	211	3.31	3.69
December	3 186.4	244	11.1	103	158	2.48	2.86
Calendar year 1937	28 282.8	988	0	77.5	144	2.26	30.79
January 1938	5 211	681	52	168	227	3.56	4.10
February	2 820	212	28	101	146	2.29	2.38
March	2 347	160	22	75.7	132	2.07	2.39
April	2 827	218	35	94.2	147	2.31	2.58
May	915.0	77	0	29.5	83.2	1.31	1.51
June	1 840.1	783	0	61.3	124	1.95	2.18
July	7 372.5	1 030	0	238	296	4.65	5.36
August	1 643.8	160	0	53.0	95.8	1.50	1.73
September	4 295	1 160	0	143	217	3.41	3.80
Water year 1937-38	35 352.5	1 160	0	96.9	159	2.50	33.93
October 1938	939.9	95	9.6	30.3	86.8	1.36	1.57
November	1 037.9	69	1.9	34.6	91.3	1.43	1.60
December	5 754	764	25	186	249	3.91	4.51
Calendar year 1938	37 003.2	1 160	0	101	158	2.48	33.71
January 1939	4 764	425	49	154	212	3.33	3.84
February	7 551	497	90	270	336	5.27	5.49
March	6 771	463	90	218	271	4.25	4.90
April	7 302	497	46	243	292	4.58	5.11
May	1 036.7	161	0	33.4	86.3	1.35	1.56
June	22.0	12.4	0	.73	30.5	.479	.53
July	0	0	0	0	10.8	.170	.20
August	2.8	2.8	0	.09	15.4	.242	.28
September	50.6	16.7	0	1.69	3.46	.054	.06
Water year 1938-39	35 231.9	764	0	96.5	139	2.18	29.65
October 1939	0	0	0	0	19.4	.305	.35
November	5.6	5.6	0	.19	45.2	.710	.79
December	0	0	0	0	36.5	.573	.66
Calendar year 1939	27 505.7	497	0	75.4	112	1.76	23.77
January 1940	31.4	23	0	1.01	53.8	.845	.97
February	0	0	0	0	54.2	.851	.92
March	2 183	340	0	70.4	289	4.54	5.23
April	8 013	669	49	267	453	7.11	7.93
May	3 931	370	26	127	186	2.92	3.37
June	3 812.9	613	0	127	182	2.86	3.19
July	547.2	104	0	17.7	65.2	1.02	1.18
August	82.5	55	0	2.66	54.1	.849	.98
September	2 687.3	290	0	89.6	108	1.70	1.90
Water year 1939-40	21 293.9	669	0	58.2	129	2.03	27.47

* Adjusted for diversion at Macopin intake dam and for change in contents in Oak Ridge, Canistear, Clinton, and Echo Lake Reservoirs.

Pompton River at Pompton Plains

Location.- Two water-stage recorders, each above a concrete dam, lat. 40°58'13", long. 74°16'53", at confluence of Pequannock and Ramapo Rivers, 2,000 feet upstream from Jackson Avenue Bridge and three-quarters of a mile east of Pompton Plains, Morris County. Datum of each gage is 174.46 feet above mean sea level (United States Coast and Geodetic Survey datum). Staff gage used in 1903-4 at same site as one of the present gages, but at different datum.

Drainage area.- 355 square miles.

Records available.- March 1903 to December 1904 (fragmentary) and May to September 1940. Records for 1903-4 published in Water-Supply and Irrigation Paper No. 97 and 125 of the United States Geological Survey.

Extremes.- 1940: Maximum discharge during period May to September: 3,100 second-feet June 2, from rating curves extended above 1,500 second-feet by dam formula; minimum, 62 second-feet Aug. 12, 13, 24, 25.

Remarks.- Figures of daily discharge represent the total discharge over both dams. Water is diverted from reservoirs on the Pequannock and Wanaque Rivers for municipal supply. Flow regulated by Oak Ridge, Canistear, Clinton, and Echo Lake Reservoirs on the Pequannock River and by Greenwood Lake and Wanaque Reservoir on the Wanaque River which have a combined capacity of 5,944,000,000 cubic feet (see descriptions of stations on these tributaries). Some diurnal fluctuation caused by power plant on the Wanaque River.

Daily discharge, in second-feet, 1940

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	2 820	408	150	729
2								-	2 990	303	150	1 160
3								-	2 360	258	108	985
4								-	1 710	267	96	662
5								-	1 350	358	90	430
6								-	1 080	339	130	312
7								-	814	258	108	250
8								-	646	250	84	218
9								-	623	210	98	250
10								-	625	186	73	258
11								-	537	178	67	303
12								-	492	210	62	294
13								-	438	303	67	285
14								-	378	250	78	276
15								-	303	210	99	276
16								-	358	194	67	304
17								-	348	157	67	250
18								-	294	143	67	129
19								-	285	150	80	143
20								-	258	108	114	136
21								715	234	96	78	122
22								657	171	96	73	102
23								691	157	96	67	84
24								691	276	142	67	90
25								635	473	108	62	162
26								708	527	115	122	250
27								708	654	136	96	226
28								850	448	164	345	150
29								872	448	150	448	136
30								712	470	150	276	122
31								1 870	-	186	202	-

Pompton River at Pompton Plains--Continued

Estimated monthly discharge, in second-feet, 1903

Month	Maximum	Minimum	Mean
March 7-31, 1903	-	-	1 245
April	4 300	435	1 161
May	435	50	165
June	2 900	50	799
July	2 330	50	776
August	1 345	94	378
September	1 065	94	372
October	28 340	94	2 371
November 1-25	-	-	420
December 1-3 and 21-24	-	-	1 130

Note.- Data from United States Geological Survey Water-Supply Paper 97.

Monthly discharge, in second-feet, 1940

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
May 21-31, 1940	9 109	1 870	635	828	-	-	-
June	22 567	2 990	157	752	874	2.46	2.74
July	6 179	408	96	199	278	.783	.90
August	3 691	448	62	119	215	.606	.70
September	9 094	1 160	84	303	422	1.19	1.33

* Adjusted for change in contents in Greenwood Lake and Wanaque, Oak Ridge, Canistear, Clinton, and Echo Lake Reservoirs and for diversions from Pequannock and Wanaque Rivers.

Greenwood Lake at Awosting
(Formerly published as Greenwood Lake at The Glens)

Location.- Water-stage recorder, lat. 41°09'36", long. 74°20'03", in gatehouse on dam at Awosting (formerly The Glens), Passaic County. Datum of gage is 608.86 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 27.1 square miles (revised).

Records available.- June 1898 to November 1903 and June 1907 to September 1940.

Extremes.- 1898-1903, 1907-40: Maximum gage height, about 14.25 feet, present datum, Oct. 9-14, 1903; minimum, 3.50 feet, present datum, several days in November 1900.

Remarks.- For records of discharge from Greenwood Lake, see Wanaque River at Awosting.

Cooperation.- Records furnished by Morris Canal & Banking Co.

Daily mean gage height, in feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	10.09	10.56	10.28	10.22	10.32	10.28	10.18	10.06	10.28	10.07	9.67
2	-	10.11	10.61	10.28	10.20	10.34	10.27	10.16	10.05	10.24	10.08	9.66
3	-	10.10	10.62	10.26	10.20	10.34	10.25	10.15	10.03	10.20	10.06	9.67
4	-	-	10.57	10.24	10.18	10.36	10.23	10.15	10.04	10.16	10.05	9.75
5	-	-	10.52	10.22	10.18	10.38	10.22	10.14	10.05	10.15	10.03	9.90
6	-	-	10.47	10.20	10.18	10.40	10.22	10.15	10.05	10.17	10.00	9.94
7	-	-	10.42	10.22	10.18	10.42	10.20	10.19	10.05	10.23	9.98	9.93
8	-	-	10.40	10.22	10.18	10.40	10.18	10.22	10.06	10.25	9.96	9.90
9	-	-	10.36	10.26	10.16	10.38	10.25	10.21	10.11	10.28	9.94	9.93
10	-	-	10.32	10.58	10.16	10.35	10.28	10.21	10.11	10.28	9.92	9.97
11	-	-	10.28	10.59	10.16	10.34	10.28	10.25	10.10	10.28	9.92	9.95
12	-	-	10.26	10.56	10.16	10.38	10.29	10.21	10.09	10.26	9.92	9.95
13	-	-	10.22	10.50	10.16	10.43	10.34	10.20	10.08	10.25	9.93	9.95
14	10.21	-	10.18	10.46	10.18	10.42	10.35	10.20	10.07	10.23	9.96	9.94
15	10.18	-	10.16	10.42	10.20	10.39	10.36	10.20	10.07	10.17	9.95	9.93
16	10.19	-	-	10.38	10.20	10.36	10.37	10.17	10.06	10.17	9.93	9.93
17	10.17	10.20	-	10.34	10.22	10.42	10.36	10.16	10.07	10.19	9.92	9.90
18	10.15	-	10.16	10.30	10.24	10.44	10.33	10.14	10.28	10.16	9.87	9.87
19	10.15	-	10.22	10.30	10.26	10.43	10.32	10.12	10.30	10.15	9.86	9.85
20	10.12	-	10.35	10.30	10.28	10.42	10.31	10.10	10.31	10.17	9.84	9.84
21	10.10	-	10.37	10.30	10.30	10.41	10.31	10.10	10.30	10.16	9.82	9.84
22	10.12	-	10.36	10.30	10.32	10.40	10.30	10.08	10.27	10.14	9.87	9.83
23	10.12	-	10.32	10.30	10.30	10.36	10.29	10.08	10.25	10.15	9.84	9.83
24	10.11	-	10.30	10.30	10.30	10.35	10.27	10.07	10.22	10.18	9.80	9.82
25	10.10	10.17	10.28	10.28	10.30	10.31	10.25	10.06	10.20	10.21	9.76	9.79
26	10.12	10.14	-	10.28	10.30	10.29	10.23	10.05	10.18	10.22	9.72	9.77
27	10.12	10.14	-	10.26	10.30	10.27	10.21	10.03	10.17	10.18	9.71	9.76
28	10.10	10.17	-	10.26	10.32	10.28	10.20	10.03	10.18	10.15	9.70	9.75
29	10.07	10.20	10.30	10.24	-	10.30	10.19	10.03	10.23	10.13	9.68	9.75
30	10.06	10.33	10.30	10.24	-	10.31	10.20	10.03	10.30	10.11	9.67	9.74
31	10.05	-	10.30	10.22	-	10.29	-	10.04	-	10.08	9.66	-

Note.- No gage-height record Oct. 1-13, Nov. 4-16, 18-24, Dec. 16, 17, 26-28.

Greenwood Lake at Awosting--Continued

Daily mean gage height, in feet, 1934-40

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.71	9.90	10.59	10.16	10.22	10.24	10.36	10.18	10.00	9.98	9.48	9.27
2	9.72	10.12	10.53	10.16	10.23	10.26	10.34	10.16	9.99	9.98	9.46	9.26
3	9.69	-	10.48	10.38	10.24	10.28	10.34	10.16	10.00	9.96	9.44	9.24
4	9.68	-	10.44	10.48	10.21	10.30	10.35	10.26	10.01	9.92	9.42	9.24
5	9.67	-	10.38	10.48	10.17	10.32	10.32	10.27	10.00	9.91	9.41	9.21
6	9.66	-	10.35	10.48	10.14	10.32	10.53	10.25	9.99	9.89	9.40	9.20
7	9.65	-	10.30	10.48	10.14	10.34	10.68	10.21	9.95	9.87	9.39	9.16
8	9.63	-	10.26	10.46	10.14	10.35	10.66	10.20	9.90	9.83	9.36	9.18
9	9.61	10.12	10.25	10.40	10.14	10.40	10.60	10.16	-	9.83	9.35	9.21
10	9.59	10.11	10.25	10.48	10.13	10.48	10.60	10.15	-	9.81	9.33	9.21
11	9.58	10.11	10.25	10.48	10.12	10.82	10.57	10.15	-	9.82	9.33	9.19
12	9.58	10.12	10.24	10.50	10.12	11.82	10.56	10.15	-	9.80	9.32	9.16
13	9.56	11.19	10.23	10.48	10.12	11.73	10.57	10.15	-	9.78	9.30	9.16
14	9.55	10.27	10.25	10.48	10.14	11.34	10.58	10.18	-	9.76	9.29	9.13
15	9.55	10.28	10.25	10.44	10.16	11.02	10.55	10.14	-	9.74	9.25	9.13
16	9.53	10.31	10.29	10.48	10.16	10.86	10.52	10.16	-	9.70	9.25	9.10
17	9.50	10.39	10.28	10.52	10.16	10.83	10.46	10.13	-	9.69	9.25	9.10
18	9.49	10.37	10.25	10.52	10.18	11.12	10.43	10.13	-	9.68	9.22	9.17
19	9.50	10.33	10.24	10.55	10.18	11.32	10.38	10.17	-	9.67	9.17	9.16
20	9.49	10.32	10.23	10.58	10.18	11.23	10.35	10.18	-	9.65	9.18	9.14
21	9.47	10.35	10.30	10.54	10.16	11.17	10.34	10.15	-	9.65	9.17	9.13
22	9.47	10.39	10.30	10.52	10.14	10.92	10.30	10.15	-	9.64	9.15	9.13
23	9.46	10.40	10.28	10.50	10.14	10.65	10.28	10.10	-	9.59	9.18	9.13
24	9.44	10.44	10.24	10.48	10.15	10.61	10.25	10.11	-	9.62	9.36	9.12
25	9.42	10.46	10.22	10.36	10.16	10.60	10.22	10.10	-	9.63	9.35	9.12
26	9.41	10.48	10.20	10.32	10.16	10.60	10.22	10.10	-	9.62	9.36	9.11
27	9.40	10.52	10.18	10.28	10.18	10.57	10.20	10.09	-	9.60	9.34	9.09
28	9.38	10.56	10.18	10.24	10.18	10.58	10.18	10.07	-	9.59	9.31	9.10
29	9.37	10.62	10.18	10.24	10.21	10.52	10.18	10.04	10.00	9.55	9.31	9.10
30	9.50	10.64	10.18	10.24	-	10.47	10.18	10.02	10.00	9.54	9.32	9.11
31	9.77	-	10.18	10.22	-	10.42	-	10.02	-	9.51	9.30	-

Note.- No gage-height record Nov. 3-8, June 9-28.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.23	9.47	a9.70	10.33	a10.43	10.38	10.30	10.40	a10.15	a10.26	a10.02	10.21
2	9.25	9.48	a9.71	a10.32	a10.41	10.35	10.29	10.35	a10.14	a10.28	a10.00	10.17
3	9.24	9.48	a9.78	a10.32	a10.40	10.32	10.28	10.32	a10.13	a10.28	a9.98	10.14
4	9.23	9.54	a9.94	10.32	10.36	10.29	10.27	10.28	a10.12	a10.26	a9.97	10.12
5	9.22	9.58	10.00	10.32	10.32	10.29	10.26	10.25	10.11	a10.24	a9.95	10.13
6	9.21	9.58	10.03	10.34	10.30	10.29	10.52	10.29	10.10	a10.22	a9.93	10.15
7	9.20	9.58	10.17	10.35	a10.28	10.26	10.62	10.36	10.10	a10.20	9.91	10.13
8	9.20	9.60	10.21	10.36	a10.26	10.24	10.58	10.36	10.11	a10.18	9.92	10.10
9	9.20	9.64	10.23	10.36	a10.22	10.22	10.56	10.35	10.06	a10.16	9.93	10.08
10	9.20	9.66	10.26	10.36	10.20	10.21	10.50	10.32	10.05	10.14	9.92	10.06
11	9.20	9.65	a10.35	10.36	10.20	10.19	10.44	10.28	10.06	10.13	9.96	10.05
12	9.19	9.66	10.42	10.34	10.20	10.18	10.39	10.24	10.01	10.14	10.08	10.05
13	9.17	9.67	10.42	10.31	10.20	10.17	10.35	10.24	9.98	10.16	10.11	10.12
14	9.16	9.67	10.39	10.29	10.22	10.17	10.30	10.33	9.98	10.12	10.10	10.27
15	9.15	9.69	10.35	10.42	10.23	10.21	10.29	10.55	9.99	10.17	10.08	10.26
16	9.15	9.73	10.34	10.41	10.22	10.27	10.29	10.59	9.97	10.20	10.06	10.25
17	9.31	9.69	10.46	a10.43	10.21	10.23	10.27	10.55	9.96	10.18	10.04	10.23
18	9.41	a9.70	10.46	10.45	10.20	10.21	10.25	10.51	9.96	10.16	10.06	10.22
19	9.45	a9.70	10.44	10.46	10.18	10.21	10.25	10.47	10.02	10.15	10.06	a10.20
20	9.46	a9.70	10.95	10.45	10.17	10.20	10.24	10.42	10.03	10.12	10.06	10.17
21	9.48	9.71	11.07	10.46	10.17	10.26	10.26	10.36	10.05	10.10	10.04	10.14
22	9.50	9.71	10.94	10.54	10.78	10.28	10.37	10.32	10.23	10.08	10.09	10.13
23	9.52	9.71	10.77	10.64	10.95	10.31	10.40	10.30	10.23	10.06	10.28	10.12
24	9.50	9.73	10.65	10.68	10.83	10.32	10.38	10.29	10.21	10.02	10.33	10.10
25	9.49	9.74	10.56	10.71	10.73	10.37	10.35	10.25	10.18	10.02	10.34	10.09
26	9.50	9.74	10.49	10.78	10.61	10.40	10.33	10.21	10.10	10.04	10.32	10.07
27	9.49	9.74	10.42	10.72	10.48	10.40	10.38	10.20	10.10	10.10	10.34	10.02
28	9.48	a9.72	10.39	10.62	10.43	10.38	10.45	10.19	10.09	10.09	10.35	10.02
29	9.47	a9.70	10.34	10.55	-	10.36	10.47	10.18	10.08	10.07	10.31	10.01
30	9.48	a9.68	10.31	a10.55	-	10.33	10.44	a10.17	10.13	10.05	10.28	10.00
31	9.48	-	10.32	a10.47	-	10.31	-	a10.16	-	10.04	10.24	-

a Estimated

Greenwood Lake at Awosting--Continued

Daily mean gage height, in feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.98	10.39	10.49	-	-	a10.26	10.18	a10.11	10.17	10.78	10.37	a9.98
2	10.03	10.34	10.45	-	-	a10.25	10.17	a10.11	10.15	10.65	10.35	a9.96
3	10.01	10.33	10.41	-	-	a10.24	10.15	a10.10	10.22	a10.58	10.31	a9.95
4	10.00	10.31	10.37	-	-	a10.23	10.13	a10.10	10.14	a10.51	10.32	a9.93
5	10.00	10.27	10.35	-	-	a10.23	10.12	a10.10	10.15	a10.47	10.35	a9.92
6	10.01	10.26	10.35	-	-	10.22	10.11	10.09	10.13	a10.40	10.34	9.90
7	10.02	10.25	10.37	-	-	10.22	10.15	10.08	10.12	a10.33	10.35	9.87
8	10.01	10.24	10.34	-	-	10.22	10.17	10.07	10.15	a10.25	10.34	9.87
9	9.99	10.23	10.32	-	-	10.21	10.22	10.06	10.14	10.17	10.38	9.83
10	9.99	10.21	10.30	-	-	10.19	10.30	10.05	10.11	10.19	10.35	9.85
11	9.98	10.20	-	-	-	10.18	10.35	10.05	10.12	10.17	10.40	9.81
12	9.95	10.18	-	-	-	10.18	10.40	10.03	10.14	10.17	10.39	9.80
13	9.95	10.50	-	-	-	10.17	10.41	10.02	10.16	10.17	10.33	9.80
14	9.94	10.97	-	-	-	10.20	10.38	10.03	10.16	10.15	10.30	9.81
15	9.92	10.97	-	-	-	10.23	10.36	10.22	10.15	10.14	10.27	9.82
16	9.92	10.85	-	-	-	10.22	10.33	10.28	10.14	10.14	10.24	9.83
17	9.90	10.74	-	-	-	10.25	10.30	10.26	10.12	a10.13	10.21	9.82
18	9.88	10.63	-	-	-	10.28	10.25	10.24	10.12	10.12	10.20	a9.80
19	9.91	10.55	-	-	10.36	10.27	10.21	10.22	10.12	10.12	10.19	a10.00
20	10.07	10.50	-	-	10.36	10.26	10.19	10.22	10.16	10.17	10.16	10.20
21	10.14	10.46	-	-	10.34	10.26	10.18	10.25	10.15	10.51	a10.15	10.75
22	10.19	10.40	-	-	10.32	10.25	10.17	10.26	10.15	11.41	a10.13	11.52
23	10.33	10.37	-	-	10.32	10.24	10.16	10.25	10.26	11.18	a10.11	11.27
24	10.39	10.34	-	-	10.30	10.26	10.14	10.26	10.40	a11.15	a10.10	10.96
25	10.38	10.31	-	-	10.28	10.25	a10.13	10.26	10.38	11.04	a10.08	10.73
26	10.35	10.29	-	-	10.28	10.22	a10.13	10.25	10.44	10.86	a10.07	10.58
27	10.33	10.27	-	-	10.27	10.22	a10.13	10.25	10.70	10.70	a10.05	10.47
28	10.42	10.34	-	-	a10.26	10.20	a10.12	10.24	11.35	10.58	a10.04	10.38
29	10.50	10.50	-	-	-	10.17	a10.12	10.24	11.22	10.50	a10.02	10.34
30	10.47	10.51	-	-	-	10.18	a10.12	10.21	10.98	10.50	a10.01	10.28
31	10.42	-	-	-	-	10.18	-	10.20	-	10.44	a9.99	-

a Estimated
Note.- No gage-height record Dec. 11 to Feb. 18.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10.12	9.91	10.20	a10.19	10.28	10.70	10.44	10.26	a10.00	10.03	9.67	9.41
2	9.95	9.91	10.20	10.18	10.26	10.68	a10.50	10.23	a10.00	10.03	9.64	9.39
3	9.83	9.91	10.19	10.18	10.30	10.62	a10.55	10.21	a10.00	10.01	9.61	9.38
4	9.82	9.91	10.27	10.16	10.42	10.58	a10.55	10.18	a10.00	9.98	9.63	9.37
5	9.80	9.93	10.44	10.16	a10.42	a10.55	a10.50	10.16	10.06	9.96	9.65	9.38
6	9.82	9.94	10.86	10.32	10.42	10.52	a10.50	10.14	10.05	9.95	9.64	9.36
7	9.80	a9.95	10.91	10.40	10.40	10.48	10.53	10.12	10.03	9.94	9.62	9.33
8	9.79	9.99	10.86	a10.41	10.40	10.44	10.47	10.11	10.00	9.90	9.60	9.34
9	9.78	10.03	10.78	10.42	10.38	10.42	10.43	10.10	10.00	9.87	9.60	9.35
10	9.76	10.03	10.72	10.40	10.36	10.42	10.39	10.12	10.00	9.87	9.59	9.33
11	9.76	10.03	10.67	10.38	10.32	10.40	10.35	10.10	10.01	9.86	9.58	9.31
12	9.77	10.04	10.59	10.36	a10.33	a10.40	10.36	10.09	10.00	9.84	9.54	9.28
13	9.77	a10.03	10.50	10.32	10.34	10.40	10.33	10.10	10.00	9.80	9.52	9.27
14	9.77	a10.03	10.46	10.36	10.34	10.38	10.28	10.09	10.08	9.78	9.53	9.25
15	9.77	10.03	10.42	a10.30	10.36	10.34	a10.27	10.07	10.07	9.76	9.52	9.23
16	9.77	10.03	10.38	10.28	10.50	10.40	a10.26	10.06	10.05	a9.75	9.50	9.21
17	9.78	10.04	10.35	10.28	10.50	10.42	10.26	10.06	10.02	9.74	9.48	9.22
18	9.78	10.05	a10.32	10.28	10.48	10.42	10.33	10.05	9.98	9.72	9.47	9.19
19	9.77	10.09	a10.30	10.26	a10.47	a10.42	10.40	10.03	9.95	9.70	9.48	9.16
20	9.81	a10.10	a10.28	10.20	10.46	10.42	10.59	10.07	9.95	9.68	9.52	9.13
21	9.89	a10.12	a10.25	10.22	10.44	10.38	10.58	10.10	9.96	9.65	9.52	9.15
22	9.89	10.14	10.22	a10.20	10.44	10.38	10.56	10.11	9.93	9.62	9.51	9.13
23	9.89	10.17	10.20	10.20	10.40	10.36	10.50	10.09	9.94	9.59	9.50	9.13
24	9.95	10.20	a10.20	10.18	10.38	10.38	10.44	10.08	9.98	9.56	9.50	9.14
25	10.00	10.26	a10.20	10.18	10.34	10.38	10.39	10.07	9.97	9.55	9.53	9.12
26	9.98	10.22	10.22	10.18	a10.42	a10.39	10.36	10.05	9.94	9.54	9.52	9.12
27	9.97	a10.22	10.24	10.18	10.50	10.40	10.34	10.01	9.93	9.56	a9.50	9.11
28	9.95	a10.22	10.24	10.18	10.48	10.50	10.33	a10.00	9.91	9.69	9.48	9.10
29	9.94	a10.21	10.24	a10.20	-	10.46	10.32	a10.00	9.89	9.69	9.46	9.08
30	9.93	10.20	10.20	10.22	-	10.48	10.29	a10.00	9.95	9.69	9.45	9.14
31	9.92	-	10.20	10.28	-	10.48	-	10.00	-	9.68	9.43	-

a Estimated
Note.- Daily staff-gage readings Dec. 22 to Apr. 1.

Greenwood Lake at Awosting--Continued

Daily mean gage height, in feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.18	9.34	9.68	-	10.16	-	10.74	10.32	-	-	10.12	10.91
2	9.16	9.35	9.71	-	10.16	-	10.82	10.32	-	-	-	11.07
3	9.18	9.36	9.73	-	10.16	-	10.84	10.32	-	-	-	10.92
4	9.18	9.39	9.74	-	-	10.28	10.86	10.31	-	-	-	10.74
5	9.17	9.45	9.75	-	10.16	10.28	10.72	10.30	-	-	-	10.62
6	9.14	9.59	9.75	-	10.14	10.29	10.60	10.26	-	-	-	-
7	9.11	9.65	9.74	-	10.12	10.29	-	10.25	-	-	-	10.42
8	9.10	9.68	9.76	9.60	10.10	10.30	-	10.23	-	-	-	10.37
9	9.08	9.71	9.73	9.60	10.10	10.30	-	10.23	-	-	-	10.33
10	9.06	9.69	9.71	9.58	10.09	-	10.86	10.22	-	-	-	10.28
11	9.07	9.73	9.77	9.58	-	10.24	10.78	10.23	-	-	-	10.22
12	9.06	9.74	9.77	9.58	10.18	10.24	10.73	10.23	-	-	-	10.21
13	9.04	9.75	9.77	9.56	10.18	10.22	10.80	10.18	-	-	-	10.18
14	9.02	9.78	9.80	-	10.18	10.20	10.74	10.17	-	-	-	10.14
15	9.00	9.74	9.81	10.28	10.18	10.30	10.66	10.16	-	-	-	10.15
16	8.96	9.73	9.79	10.38	10.20	10.32	10.63	10.19	-	-	-	10.14
17	8.96	9.75	9.80	10.40	10.20	-	10.58	10.30	-	-	9.90	10.10
18	8.93	9.73	9.81	10.40	-	10.68	10.55	10.32	-	-	9.90	10.09
19	8.91	9.73	9.81	10.40	10.22	10.70	10.54	10.31	-	-	9.93	10.09
20	8.91	9.74	9.85	10.38	10.22	10.70	10.59	10.30	-	-	9.95	10.09
21	8.96	9.73	9.90	-	10.22	10.77	10.74	10.30	-	-	9.92	10.08
22	9.06	9.73	9.95	10.28	10.22	10.76	10.82	10.30	-	-	9.88	10.09
23	9.11	9.72	9.95	10.26	10.23	10.69	10.80	10.31	-	-	9.91	10.08
24	9.14	9.71	9.96	10.24	10.24	10.61	10.75	10.32	-	-	-	10.05
25	9.16	9.72	9.97	10.20	-	10.53	10.65	10.31	-	10.06	-	10.14
26	9.17	9.72	9.98	10.18	-	10.47	10.56	10.33	-	10.10	-	10.22
27	9.19	9.71	9.98	10.16	-	10.44	10.50	10.34	-	10.14	-	10.19
28	9.21	9.71	a9.99	-	-	10.46	10.44	10.38	-	10.13	-	10.15
29	9.20	9.70	a10.00	10.18	-	10.48	10.39	10.40	-	10.11	-	10.15
30	9.19	9.69	a10.00	10.18	-	10.50	10.35	10.36	-	10.10	-	10.13
31	9.27	-	a10.00	10.18	-	-	-	10.50	-	10.13	10.31	-

a Interpolated

Note.- Staff gage readings Jan. 8-13, 15-20, 22-27, Jan. 29 to Feb. 3, Feb. 5-10, 12-17, 19-24, Mar. 4-9, 11-16, 18-20, 28-30, and Apr. 1-6. Record missing for days no gage heights are shown.

Wanaque River at Awosting
(Formerly published as Wanaque River at Greenwood Lake)

Location.- Water-stage recorder and, after Oct. 31, 1938, concrete control, lat. 41°09'31", long. 74°20'00", 700 feet downstream from dam at outlet of Greenwood Lake at Awosting, Passaic County. Datum of gage is 601.32 feet above mean sea level (New Jersey Geological Survey datum). Prior to Oct. 31, 1938, water-stage recorder at site 100 feet upstream at same datum.

Drainage area.- 27.1 square miles (revised) for both sites.

Records available.- May 1919 to September 1940.

Average discharge.- 21 years, 50.8 second-feet (adjusted for storage since 1935).

Extremes.- 1919-40: Maximum discharge, 914 second-feet Mar. 12, 1936 (gage height, 4.82 feet), by computation of flow over Greenwood Lake dam; no flow at times when gates at Greenwood Lake were closed and no water passed over spillway.

Remarks.- Flow regulated by Greenwood Lake, usable capacity, 919,000,000 cubic feet (see record for Greenwood Lake at Awosting).

Cooperation.- Water-stage recorder graph furnished by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	101	19.3	156	59	30	82	50	29	11.4	55	12.2	7.8
2	91	23	208	58	28	76	50	23	8.4	43	13.5	7.8
3	79	20	186	50	26	78	46	21	8.1	33	11.4	7.8
4	69	31	172	45	27	78	40	19.8	8.1	26	9.7	7.8
5	55	49	150	40	24	79	38	18.8	8.4	22	9.2	8.1
6	105	64	128	37	22	85	38	21	8.6	26	8.1	8.1
7	154	70	107	37	21	96	32	30	8.1	31	7.5	7.5
8	132	78	92	42	19.8	101	30	37	8.9	32	7.5	7.5
9	114	77	74	53	20	92	48	33	17.8	38	7.5	8.1
10	94	66	62	146	19.8	83	52	35	16.5	41	7.5	8.1
11	82	63	54	183	18.8	83	51	40	12.1	41	7.8	7.5
12	71	56	45	165	17.3	93	57	34	11.4	36	7.5	7.5
13	58	46	40	140	16.9	114	69	34	11.1	36	8.1	7.5
14	44	50	38	125	21	107	78	37	9.7	29	7.8	7.8
15	37	44	33	101	37	96	80	34	11.0	22	7.8	7.8
16	36	40	29	84	52	88	79	26	9.7	26	7.8	8.1
17	32	37	28	79	72	95	69	25	11.8	30	7.8	7.5
18	31	36	26	74	76	103	57	22	53	22	7.8	7.3
19	29	34	38	61	75	105	53	19.3	60	21	7.8	7.3
20	22	32	82	57	70	101	48	14.4	62	26	7.8	7.3
21	20	31	88	56	62	99	44	13.6	58	22	7.8	7.3
22	24	30	84	60	60	96	44	12.1	53	19.8	7.8	7.3
23	26	30	75	61	61	79	43	11.4	48	18.9	8.1	7.3
24	22	42	67	68	56	77	41	10.7	41	30	8.1	7.3
25	19.8	37	60	55	53	61	37	9.7	36	33	8.1	7.3
26	24	31	62	51	75	60	33	9.4	29	37	8.1	7.3
27	25	30	69	47	93	52	27	8.9	26	30	7.8	7.3
28	21	36	56	41	88	50	29	8.4	29	26	7.8	7.5
29	15.2	44	50	38	-	61	28	8.5	44	22	8.1	7.5
30	14.8	68	47	35	-	60	32	8.4	62	16.0	8.1	7.5
31	13.1	-	44	33	-	55	-	9.1	-	12.4	8.1	-

Wanaque River at Awosting--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.1	8.4	174	a30	a39	a42	90	34	8.4	8.4	8.4	7.8
2	8.1	8.9	153	a30	a36	a47	83	30	8.4	8.4	8.4	7.8
3	8.1	12.4	130	a88	a32	a51	84	35	8.6	8.4	8.4	7.8
4	8.4	12.1	115	130	a30	a54	78	55	8.9	8.4	8.4	7.8
5	8.4	13.5	89	116	26	a55	63	54	8.9	8.4	8.4	7.8
6	8.4	23	a78	112	23	a56	138	48	8.4	8.6	8.4	7.8
7	8.4	23	a65	111	21	a56	195	43	8.4	8.4	8.1	7.8
8	8.4	27	a55	103	18.8	a58	184	43	8.4	8.1	8.1	7.8
9	8.4	26	a53	102	22	a62	158	39	8.4	7.8	8.1	7.8
10	8.4	27	a52	116	24	70	153	33	8.4	7.8	8.1	7.8
11	8.4	28	a51	113	21	236	145	30	8.4	7.8	8.1	7.8
12	8.4	29	a49	110	19.8	841	139	28	8.4	7.8	8.1	7.8
13	8.4	55	a47	104	19.8	777	147	32	8.4	7.8	8.1	7.8
14	8.4	96	a52	101	35	580	151	48	11.4	7.8	8.1	7.8
15	8.6	93	a52	101	36	427	144	35	16.5	7.8	7.8	7.8
16	8.6	89	a62	130	31	338	133	32	16.9	7.8	7.8	7.5
17	8.6	112	a60	132	28	284	113	24	13.1	7.8	7.5	7.5
18	8.6	101	a52	130	29	427	101	25	13.9	7.8	7.5	7.5
19	8.6	82	a49	153	a30	523	89	35	18.3	7.8	7.5	7.5
20	8.6	83	a47	151	a30	481	76	36	18.3	7.8	7.5	7.5
21	8.6	95	a65	127	a26	454	73	30	21	7.8	7.5	7.5
22	8.6	106	a65	112	a23	401	66	25	18.3	7.8	7.5	7.5
23	8.6	112	a60	98	a23	314	56	21	15.2	7.8	7.8	7.5
24	8.6	108	a49	a88	a25	246	53	21	14.4	7.8	7.8	7.5
25	8.6	95	a44	a79	a26	199	42	19.8	10.7	7.8	7.8	7.8
26	8.6	87	a39	a71	a26	166	40	15.6	9.7	7.8	7.8	7.8
27	8.4	82	a35	a64	a30	150	37	16.0	8.9	7.8	7.8	7.8
28	8.4	95	a35	a58	a30	165	34	16.5	9.2	7.8	7.8	7.8
29	8.4	186	a35	a53	a36	144	32	11.1	8.6	7.8	7.8	7.8
30	8.6	195	a35	a48	-	126	33	10.4	8.4	7.8	7.8	7.8
31	8.6	-	a35	a44	-	108	-	8.9	-	7.8	7.8	-

a No gage-height record; discharge computed on basis of records for Greenwood Lake and stations on nearby streams.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	4.1	5.9	75	119	96	60	97	22	66	8.4	35
2	7.8	4.1	5.9	72	112	81	60	84	18.8	62	6.8	29
3	7.8	4.1	5.9	78	58	70	60	73	16.0	55	6.6	23
4	7.8	4.3	5.9	93	86	62	55	63	17.3	46	6.6	22
5	7.8	3.9	6.1	90	68	63	55	55	14.4	37	6.3	28
6	7.8	3.7	7.0	84	60	61	136	64	13.5	32	6.3	22
7	7.8	3.7	24	77	55	55	179	92	14.4	29	6.3	19.3
8	a7.8	3.9	34	82	50	48	163	86	11.1	23	6.3	16.0
9	a7.8	4.1	37	81	48	45	151	76	8.6	19.8	6.6	12.1
10	a7.8	4.1	40	81	48	40	133	72	8.6	16.0	6.6	10.0
11	a7.5	3.9	58	84	44	36	115	59	9.2	13.9	7.5	8.9
12	a7.5	8.1	110	80	39	33	97	48	6.8	16.0	19.8	8.6
13	a7.5	12.8	110	74	38	32	81	47	6.6	19.3	24	24
14	7.5	11.7	97	66	42	31	71	73	6.6	12.8	20	50
15	7.5	11.4	86	84	44	41	67	151	6.8	23	14.8	48
16	7.5	8.9	78	99	43	53	68	170	6.3	37	11.4	46
17	7.8	7.5	127	93	39	45	58	151	6.1	34	8.9	42
18	7.8	7.3	130	116	35	40	51	138	6.6	30	12.4	35
19	7.3	7.0	115	123	33	39	51	120	8.1	23	12.4	29
20	7.0	6.8	304	119	31	41	48	99	7.3	17.8	11.4	24
21	7.0	6.8	401	122	38	55	48	83	12.2	14.8	10.4	17.8
22	7.8	6.6	350	147	277	61	78	69	42	11.7	22	14.8
23	7.5	6.3	253	195	338	66	92	64	40	9.7	65	12.8
24	7.5	6.1	193	197	284	71	88	57	34	8.4	82	12.4
25	7.3	6.1	153	234	226	88	82	49	28	7.3	80	11.4
26	7.3	6.1	126	249	179	98	75	41	21	11.8	68	12.1
27	6.6	6.1	104	216	140	92	87	38	16.9	16.9	77	8.9
28	6.1	5.9	93	177	115	87	116	36	14.8	13.5	69	10.0
29	6.1	5.7	80	148	-	80	124	32	15.6	11.1	58	7.0
30	5.9	5.7	68	122	-	69	108	29	27	9.2	48	6.8
31	4.3	-	66	101	-	65	-	26	-	9.4	42	-

a No gage-height record; discharge computed on basis of records for Greenwood Lake at Awosting.

Wanaque River at Awosting--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.6	h103	a130	54	114	39	40	36	20	244	85	8.0
2	8.1	h66	a110	53	96	35	38	32	16.6	179	76	7.8
3	6.6	h54	a90	48	84	38	34	28	22	137	60	7.8
4	6.3	h52	a80	44	84	26	30	24	19.5	103	65	7.8
5	6.3	h50	a70	41	76	35	30	22	18.5	78	84	7.8
6	6.6	h44	a73	38	71	46	26	21	14.2	62	78	7.8
7	7.8	h41	a76	50	97	43	36	18.0	12.3	48	77	8.0
8	7.0	h37	a70	65	98	38	39	15.0	17.6	38	75	8.3
9	6.6	h34	a64	65	91	38	72	13.4	15.4	34	88	7.8
10	6.8	h34	a57	61	90	37	96	13.8	12.0	33	77	7.8
11	6.6	h31	a52	58	83	33	95	12.3	13.4	28	100	7.8
12	6.6	h22	a48	55	74	33	101	10.9	16.2	29	94	a8
13	6.8	h107	a40	54	74	31	98	8.3	20	29	77	a8
14	6.8	h350	31	50	77	43	91	8.9	19.0	24	64	a8
15	7.0	h302	28	47	74	47	84	46	15.8	24	54	a8
16	7.0	h268	34	42	66	47	76	65	12.6	22	47	a7
17	7.0	h216	41	42	58	57	64	60	9.8	17.1	40	a7
18	7.0	h161	77	41	54	64	68	52	14.2	18.0	38	a7
19	7.0	h153	98	40	54	61	92	45	14.6	16.6	35	a14
20	8.1	h123	96	37	67	58	92	40	12.0	28	28	a31
21	8.4	h110	90	32	63	58	99	40	9.8	125	23	a225
22	15.2	h103	80	34	58	54	94	42	8.9	432	19.0	628
23	65	h80	74	32	55	51	84	37	33	458	15.4	500
24	91	h54	67	33	57	58	71	41	78	458	13.4	329
25	88	h52	66	223	55	49	63	40	69	392	9.2	207
26	79	h51	61	392	50	43	57	36	82	293	8.0	141
27	72	h50	57	329	46	44	50	43	199	215	8.0	105
28	110	h52	54	248	50	37	48	40	542	160	8.3	79
29	142	h158	50	188	-	33	44	37	486	130	7.8	64
30	130	h156	45	147	-	34	40	31	354	130	7.8	104
31	111	-	42	130	-	37	-	26	-	105	7.8	-

a Faulty or no gage-height record; discharge computed on basis of records for station at Monks.
h No recorder graph; discharge computed on basis of daily reading of gage.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	150	7.8	a50	36	55	212	118	60	19.7	12.0	9.6	10.0
2	131	8.2	a55	35	52	198	178	53	15.6	11.2	9.6	10.0
3	45	8.2	a50	34	70	169	190	47	12.8	9.6	9.6	10.0
4	12.0	8.2	a75	32	111	145	181	40	12.8	9.6	9.6	10.0
5	13.4	8.2	135	30	112	135	158	36	12.0	9.6	9.6	10.0
6	36	8.2	319	74	105	137	145	33	12.8	9.2	9.6	10.0
7	32	10.0	331	111	104	129	176	32	9.6	9.2	9.6	10.0
8	20	12.0	281	112	92	112	152	28	9.6	9.2	9.6	10.0
9	20	15.1	238	105	82	104	141	28	9.6	9.2	9.6	10.0
10	14.3	13.3	233	98	76	95	121	32	9.2	9.6	9.6	10.0
11	c12	13.3	200	90	80	84	112	29	9.2	9.2	9.6	9.6
12	c11	13.7	165	82	80	95	120	26	9.2	9.6	9.6	9.6
13	c11	13.7	135	73	76	102	111	21	9.2	9.6	9.6	9.6
14	c11	13.7	111	77	73	87	93	19.7	13.3	9.6	9.6	9.6
15	c11	13.3	97	68	88	77	88	18.1	12.4	9.6	9.6	9.6
16	c11	16.6	79	60	147	95	79	16.1	12.0	9.6	9.6	9.6
17	c11	17.6	68	55	147	104	71	15.6	11.6	9.6	9.6	9.2
18	c11	18.1	64	49	141	102	92	15.6	9.6	9.2	9.6	9.2
19	c11	23	60	46	123	93	118	13.3	9.2	9.2	9.6	9.2
20	c11	30	49	42	114	85	185	13.7	9.6	9.6	10.0	9.2
21	c11	29	44	39	111	80	183	17.6	10.0	9.6	10.0	9.2
22	c11	28	42	40	102	79	165	32	9.2	9.6	10.0	9.2
23	c11	32	36	36	95	80	143	35	9.6	9.6	10.0	9.2
24	c11	41	35	31	82	82	120	34	9.2	9.6	10.0	9.2
25	c25	55	33	35	73	90	105	30	9.6	9.6	10.0	9.2
26	c37	44	31	33	90	95	93	27	8.8	9.6	10.0	9.2
27	c34	44	45	33	129	102	87	25	8.8	9.6	10.0	9.2
28	c40	42	47	33	152	123	87	25	8.8	10.0	10.0	9.2
29	c40	42	44	29	-	127	79	27	8.8	9.6	10.0	9.2
30	c40	45	41	36	-	125	68	23	9.6	9.6	10.0	9.2
31	c20	-	38	55	-	129	-	21	-	9.6	10.0	-

a No gage-height record; discharge computed on basis of records for station at Monks.
c Coffer dam in river for erection of concrete control; discharge computed on basis of record of openings of gate in Greenwood Lake dam.

Wanaque River at Awosting--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.6	5.3	3.2	3.2	a16	24	391	63	183	50	16.1	306
2	9.2	5.9	3.2	3.2	a15.1	23	325	60	200	42	12.4	391
3	9.2	5.9	3.2	3.2	15.1	23	263	a60	181	35	9.2	313
4	9.2	5.9	3.2	3.2	12.8	40	241	a61	156	38	7.8	236
5	8.8	5.6	3.4	3.2	12.0	50	215	58	129	41	7.5	178
6	8.8	5.3	3.4	3.2	12.0	52	181	49	107	37	7.5	133
7	8.8	5.6	3.4	3.2	14.2	52	152	48	84	35	8.2	102
8	8.8	5.6	3.4	3.2	13.7	48	158	40	67	29	7.2	74
9	8.8	5.3	3.4	3.2	12.8	46	281	41	59	25	6.8	64
10	8.8	5.3	3.4	3.2	14.2	44	266	36	52	23	6.5	53
11	8.8	5.6	3.4	3.2	25	42	223	36	44	20	6.5	43
12	8.8	5.6	3.2	3.2	27	39	218	36	39	34	6.5	36
13	8.8	5.6	3.0	3.6	29	36	244	30	36	34	6.5	29
14	8.5	5.1	3.0	3.8	38	36	208	29	31	29	6.2	25
15	8.5	4.3	3.0	47	74	166	176	26	29	23	6.2	21
16	8.2	4.3	3.0	97	54	295	163	30	32	22	6.8	19.2
17	8.2	4.3	3.0	a110	45	269	145	56	25	20	8.8	16.6
18	7.8	3.6	3.0	a90	38	223	141	63	21	18.6	8.8	16.1
19	7.8	3.4	3.2	h68	36	198	131	59	21	17.1	8.5	14.7
20	7.8	3.4	3.2	a40	43	202	154	56	19.2	15.6	7.2	13.7
21	7.8	3.6	3.2	a33	44	233	218	58	13.7	14.7	6.5	14.2
22	7.5	3.6	3.2	a30	40	231	263	58	9.2	12.4	6.2	16.1
23	6.2	3.6	3.8	a35	36	202	249	63	8.2	10.4	6.5	12.8
24	4.5	3.6	3.2	a33	32	167	223	63	16.0	8.8	6.5	10.8
25	4.5	3.6	3.2	a27	30	139	181	66	21	8.2	6.5	27
26	4.5	3.6	3.2	a24	29	121	145	71	32	12.6	6.5	34
27	4.5	3.6	3.2	a21	27	102	118	70	42	20	6.5	29
28	4.5	3.4	3.2	a19	27	129	100	82	39	18.1	21	26
29	5.1	3.2	3.2	a18	25	145	82	82	58	15.6	43	23
30	5.3	3.2	3.2	a16.6	-	167	70	76	53	15.6	48	20
31	5.6	-	3.2	a16.6	-	347	-	122	-	20	68	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
h Computed on basis of staff-gage reading.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	1 660.9	154	13.1	53.6	42.1	1.55	1.79
November	1 314.3	78	19.3	43.8	57.2	2.11	2.35
December	2 450	208	26	79.0	73.4	2.71	3.12
Calendar year 1934	19 292.6	249	7.3	52.9	53.1	1.96	26.64
January 1935	2 181	183	33	70.4	68.2	2.52	2.90
February	1 241.6	93	16.9	44.3	47.8	1.76	1.83
March	2 585	114	50	83.4	82.1	3.03	3.49
April	1 423	80	27	47.4	44.6	1.65	1.84
May	663.5	40	8.4	21.4	19.2	.708	.82
June	782.1	62	8.1	26.1	31.5	1.16	1.29
July	903.1	55	12.4	29.1	22.3	.823	.95
August	260.0	13.5	7.5	8.39	-4.43	-.163	-.19
September	227.8	8.1	7.3	7.59	9.79	.361	.40
Water year 1934-35	15 692.3	208	7.3	43.0	41.2	1.52	20.59
October 1935	262.3	8.6	8.1	8.46	12.7	.469	.54
November	2 110.3	195	8.4	70.3	93.9	3.46	3.86
December	1 982	174	35	63.9	50.6	1.87	2.16
Calendar year 1935	14 621.7	195	7.3	40.1	39.7	1.46	19.89
January 1936	3 005	153	30	96.9	98.5	3.63	4.18
February	796.4	39	18.8	27.5	27.5	1.01	1.09
March	7 938	841	42	256	261	9.36	11.10
April	2 930	195	32	97.7	90.6	3.34	3.73
May	934.3	55	8.9	30.1	25.2	.930	1.07
June	343.2	21	8.4	11.4	10.5	.387	.43
July	246.5	8.6	7.8	7.95	-6.35	-.234	-.27
August	246.0	8.4	7.5	7.94	.94	.035	.04
September	231.3	7.8	7.5	7.71	3.62	.134	.15
Water year 1935-36	21 025.3	841	7.5	57.4	56.0	2.07	28.08

* Adjusted for change in contents in Greenwood Lake.
Note.- Negative figures indicate that evaporation and seepage from lake exceeded inflow.

Wanaque River at Awosting--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	226.3	7.8	4.3	7.30	17.0	0.627	0.72
November	186.8	12.8	3.7	6.23	13.5	.498	.56
December	3 273.7	401	5.9	106	125	4.61	5.32
Calendar year 1936	20 357.5	841	3.7	55.6	56.0	2.07	28.12
January 1937	3 659	249	66	118	122	4.50	5.19
February	2 689	338	31	96.0	94.3	3.48	3.62
March	1 844	98	31	59.5	56.7	2.09	2.41
April	2 657	179	48	88.6	91.8	3.39	3.78
May	2 342	170	26	75.5	67.5	2.49	2.87
June	466.6	42	6.1	15.6	18.8	.694	.77
July	736.4	66	7.3	23.8	17.3	.638	.74
August	830.8	82	6.3	26.8	32.4	1.20	1.38
September	645.9	50	6.8	21.5	14.5	.535	.60
Water year 1936-37	19 557.5	401	3.7	53.6	55.8	2.06	27.96
October 1937	1 050.2	142	6.3	33.9	45.9	1.69	1.95
November	3 114	350	22	104	107	3.95	4.41
December	2 051	130	28	66.2	58.4	2.15	2.48
Calendar year 1937	22 085.9	350	6.1	60.5	60.3	2.23	30.20
January 1938	2 773	392	32	89.5	97.2	3.59	4.14
February	2 016	114	46	72.0	63.8	2.35	2.45
March	1 347	64	26	43.5	41.0	1.51	1.74
April	1 952	101	26	65.1	62.8	2.32	2.59
May	984.6	65	8.3	31.8	34.2	1.26	1.45
June	2 177.4	542	8.9	72.6	94.6	3.49	3.89
July	4 089.7	458	16.6	132	117	4.32	4.98
August	1 469.7	100	7.8	47.4	34.1	1.26	1.45
September	2 566.7	628	7.0	85.6	93.2	3.44	3.84
Water year 1937-38	25 591.3	628	6.3	70.1	70.7	2.61	35.37
October 1938	864.7	150	11	27.9	18.0	.664	.77
November	674.2	55	7.8	22.5	31.7	1.17	1.30
December	3 231	331	31	104	105	3.87	4.46
Calendar year 1938	24 146.0	628	7.0	66.2	66.0	2.44	33.06
January 1939	1 709	112	29	55.1	57.6	2.13	2.46
February	2 762	152	52	98.6	113	4.17	4.34
March	3 472	212	77	112	104	3.84	4.43
April	3 759	190	68	125	120	4.43	4.94
May	873.7	60	13.3	28.2	19.5	.720	.83
June	321.4	19.7	8.8	10.7	11.7	.432	.48
July	299.2	12.0	9.2	9.65	-1.02	-.038	-.04
August	302.4	10.0	9.6	9.75	1.84	.068	.08
September	286.4	10.0	9.2	9.55	2.00	.074	.08
Water year 1938-39	18 555.0	331	7.8	50.8	48.1	1.77	24.13
October 1939	233.2	9.6	4.5	7.52	12.1	.446	.51
November	135.9	5.9	3.2	4.53	15.9	.587	.65
December	100.0	3.8	3.0	3.23	12.7	.469	.54
Calendar year 1939	14 254.2	212	3.0	39.1	38.5	1.42	19.30
January 1940	771.0	110	3.2	24.9	30.1	1.11	1.28
February	836.9	74	12.0	28.9	31.5	1.16	1.25
March	3 891	347	23	126	139	5.13	5.91
April	5 925	391	70	198	186	6.86	7.65
May	1 748	122	26	56.4	65.4	2.41	2.78
June	1 807.3	200	8.2	60.2	58.4	1.79	2.00
July	744.7	50	8.2	24.0	20.3	.749	.86
August	386.4	68	6.2	12.5	27.3	1.01	1.16
September	2 297.2	391	10.8	76.6	60.9	2.25	2.51
Water year 1939-40	18 876.6	391	3.0	51.6	54.0	1.99	27.10

* Adjusted for change in contents in Greenwood Lake.
Note.- Negative figures indicate that evaporation and seepage from lake exceeded inflow.

Wanaque River at Monks

Location.- Water-stage recorder and concrete control, lat. 41°07'14", long. 74°17'41", just upstream from Wanaque Reservoir, at Monks, Passaic County. Datum of gage is 303.17 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 40.4 square miles.

Records available.- January 1935 to September 1940.

Average discharge.- 5 years, 87.8 second-feet (adjusted for storage).

Extremes.- 1935-40: Maximum discharge, 2,330 second-feet Sept. 21, 1938 (gage height, 3.50 feet, from floodmark), from rating curve extended above 800 second-feet; minimum, 1.5 second-feet (regulated) Oct. 30, 1939.

Peak gage height and discharge during period of this record.-
1936: Mar. 12 (4 a.m.) 3.15 ft. estimated, about 1,920 sec.-ft.; Mar. 18 (6 p.m.) 2.39 ft., estimated, about 1,120 sec.-ft.; Dec. 20 (7 a.m.) 2.36 ft., 1,090 sec.-ft.
1937: Feb. 22 (7 a.m.) 2.26 ft., 1,010 sec.-ft.; Nov. 13 no record.
1938: Jan. 25 no record; June 27 or 28 no record; July 23 (7 to 8 p.m.) 2.10 ft., 870 sec.-ft.; Sept. 21 (12 p.m.) 3.50 ft. from floodmark, 2,330 sec.-ft.; Dec. 5 or 6 2.25 ft., 999 sec.-ft.
1940: Mar. 15 (7 a.m.) 2.11 ft., 880 sec.-ft.

Remarks.- Figures of daily discharge include flow over spillway, through ports in dam, and down fish ladder. Flow regulated by Greenwood Lake (usable capacity, 919,000,000 cubic feet).

Cooperation.- Water-stage recorder graph furnished by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1935-40

1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				82	b40	104	74	42	17.1	60	17.9	9.1
2				78	b38	108	70	34	12.4	46	21	7.9
3				70	b36	118	64	32	11.0	34	17.9	9.1
4				64	b34	114	56	32	11.0	28	14.7	20
5				a54	a32	112	54	30	13.9	24	13.2	30
6				a52	a30	142	54	32	13.2	30	11.7	17.9
7				58	a30	146	48	46	12.4	34	11.0	14.7
8				76	b28	138	42	64	12.4	34	10.4	11.7
9				90	b28	122	78	50	30	42	10.4	12.7
10				292	b28	112	94	46	26	46	9.7	17.9
11				262	b26	126	82	58	18.8	42	11.7	12.4
12				222	30	150	86	48	15.5	34	11.7	11.0
13				184	28	164	112	46	13.9	38	10.4	10.4
14				160	30	146	118	46	12.4	30	11.0	9.7
15				128	78	132	112	44	10.4	25	10.4	9.7
16				112	92	128	114	36	12.4	30	10.4	9.7
17				104	118	138	100	34	10.7	46	9.7	9.1
18				100	118	132	82	30	116	30	9.7	9.1
19				84	112	132	76	26	72	24	9.1	9.1
20				82	104	126	70	24	82	34	9.1	8.5
21				86	92	128	64	21	70	30	9.1	9.1
22				92	84	122	62	19.7	62	26	11.0	8.5
23				84	84	104	60	18.8	54	28	9.7	8.5
24				90	82	98	56	18.8	46	60	9.1	7.9
25				72	84	78	52	16.3	40	52	9.1	7.9
26				b70	122	78	46	15.5	34	56	9.1	7.9
27				b62	138	74	42	14.7	30	40	9.1	7.4
28				b56	102	86	38	13.2	36	34	9.1	7.4
29				b52	-	104	40	12.4	40	30	9.1	7.4
30				b48	-	86	46	12.4	70	24	9.1	7.4
31				b44	-	78	-	11.7	-	18.8	9.1	-

a No gage-height record; discharge computed on basis of observer's notes, weather records, and records for station at Awosting.
b Stage-discharge relation affected by ice.

Wanaque River at Monks--Continued

Daily discharge, in second-feet, 1935-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.4	24	226	b50	b62	63	120	47	13.4	10.6	a9.0	a8.2
2	7.4	30	196	b55	b54	67	113	42	12.6	9.9	a9.0	a7.8
3	6.9	26	168	b222	b49	72	120	48	12.6	9.3	a9.0	a7.4
4	6.9	21	146	188	b43	79	104	112	14.9	9.3	a9.0	a7.2
5	6.9	21	122	169	b38	95	88	87	13.4	9.3	a9.0	7.1
6	6.9	26	106	150	b34	98	369	77	11.9	9.3	a9.0	7.1
7	6.9	26	98	150	b31	95	331	65	11.2	9.3	a8.7	7.1
8	6.4	30	84	136	b28	92	275	65	10.6	9.3	a8.5	5.7
9	6.9	30	82	156	b33	92	229	59	10.6	9.3	a8.5	8.1
10	7.4	30	74	192	b36	149	238	51	10.6	8.7	a8.5	8.1
11	7.4	30	64	169	b32	742	220	46	10.6	8.7	a8.5	7.1
12	7.4	30	58	161	b29	1 760	207	42	11.2	8.7	a8.5	7.1
13	6.9	70	56	150	b29	1 220	247	46	17.4	8.7	a8.5	7.1
14	6.9	142	54	143	b52	847	238	70	37	8.7	a8.5	7.1
15	6.9	118	52	151	b54	605	211	51	32	8.7	a8.5	8.1
16	6.9	104	74	222	b47	464	196	46	27	8.7	a8.2	8.0
17	6.9	118	66	192	b42	402	169	37	19.9	8.7	a8.0	7.9
18	6.9	138	58	180	b43	910	146	35	19.9	9.3	a8.0	10.1
19	6.4	114	54	184	b45	879	129	61	26	11.6	a8.0	11.1
20	6.4	126	50	180	b45	672	109	55	26	9.3	a8.0	7.9
21	6.4	142	34	161	b39	658	101	44	31	a8.8	a8.0	6.9
22	5.9	150	22	139	b35	530	95	37	25	a8.5	a8.2	5.9
23	5.9	156	52	b120	b35	404	79	30	19.9	a8.5	a9.0	5.5
24	5.9	142	74	b100	b37	320	72	28	19.0	a10.0	a14	5.5
25	5.1	122	b62	b115	b39	261	61	28	14.9	a9.4	a13	5.1
26	5.1	112	b56	b105	b46	216	55	25	12.6	a9.0	a12	4.3
27	5.1	106	b52	b95	b60	211	53	24	11.9	a8.6	a11	3.9
28	5.9	130	b49	b88	b70	233	46	25	11.9	a8.5	a10	3.9
29	5.9	316	b47	b80	b65	190	44	19.0	11.2	a8.5	a10	3.9
30	9.1	262	b47	b74	-	171	44	16.5	10.6	a8.5	a9.5	4.3
31	48	-	b48	b66	-	148	-	14.9	-	a8.5	a9.0	-

a No gage-height record; discharge computed on basis of weather records and records for station at Awosting.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19.7	4.3	b5.4	112	196	138	98	151	32	102	11.1	42
2	9.7	4.3	6.9	100	168	122	94	133	30	78	9.8	37
3	6.9	4.3	19.7	146	98	106	92	115	27	63	8.6	30
4	5.9	4.3	16.3	142	126	92	84	101	30	51	8.0	28
5	5.1	7.4	12.4	126	104	94	82	86	24	44	7.5	44
6	7.4	6.9	13.3	112	94	90	328	124	21	38	7.5	38
7	7.9	6.9	50	118	84	78	296	175	24	34	7.5	30
8	7.9	6.9	36	128	74	70	248	140	19.8	28	9.8	26
9	7.9	9.7	44	118	74	70	226	119	16.4	25	9.2	19.8
10	8.5	7.9	46	126	74	60	208	109	14.0	21	9.2	17.2
11	8.5	6.9	78	118	70	52	176	92	16.4	17.2	16.0	14.8
12	6.9	6.4	154	106	62	50	146	75	12.5	19.8	52	13.3
13	5.5	11.0	136	100	54	46	119	73	11.1	26	30	59
14	5.5	10.4	118	92	70	46	105	164	10.5	18.0	21	93
15	5.9	9.7	100	146	70	50	99	360	11.1	38	18.0	67
16	5.5	9.1	90	156	64	70	104	279	10.5	57	14.8	59
17	26	7.9	184	138	56	62	89	241	9.8	44	12.5	53
18	24	7.4	160	212	48	56	76	214	12.1	35	14.8	46
19	15.5	6.4	136	196	46	58	76	180	19.8	28	15.6	37
20	10.4	6.9	686	176	46	62	71	149	13.3	22	14.8	32
21	9.7	6.4	552	188	50	108	77	128	21	18.9	12.5	26
22	7.4	6.4	436	272	642	112	175	105	87	15.6	19.2	24
23	7.4	5.9	322	338	506	118	175	99	53	13.3	135	21
24	6.9	5.9	248	316	394	122	147	85	42	11.1	108	19.8
25	6.4	5.9	200	424	316	154	133	73	34	9.8	99	18.0
26	5.9	6.9	168	388	258	164	119	63	28	10.6	83	18.0
27	5.5	5.5	138	316	208	150	178	57	22	19.8	111	15.6
28	5.5	6.6	118	258	168	138	222	53	19.8	17.2	93	14.8
29	5.5	6.4	104	222	-	126	204	49	19.8	14.8	75	14.0
30	5.1	5.5	90	188	-	108	175	42	31	11.8	61	11.8
31	4.7	-	100	184	-	100	-	38	-	11.8	53	-

b Stage-discharge relation affected by ice.

Wanaque River at Monks--Continued

Daily discharge, in second-feet, 1935-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.1	119	173	70	157	b52	55	53	28	315	102	13.9
2	11.1	98	154	74	129	49	53	46	24	236	91	13.2
3	11.1	92	132	70	119	49	49	42	28	180	74	11.7
4	9.8	79	112	63	122	44	42	34	26	134	80	13.2
5	9.8	70	98	57	104	47	40	33	26	102	105	12.4
6	11.8	65	122	53	98	70	38	32	22	80	99	11.7
7	11.8	57	126	102	161	59	46	30	17.9	61	102	11.7
8	11.1	55	104	112	136	53	57	29	24	49	91	11.7
9	10.5	49	95	92	126	51	139	27	22	44	117	11.0
10	10.5	47	84	82	122	49	157	26	17.9	42	96	11.0
11	10.5	44	79	77	106	47	144	24	21	37	150	11.0
12	10.5	38	74	72	98	46	142	22	24	40	121	11.0
13	9.8	498	74	72	104	46	134	18.8	26	40	96	11.0
14	9.8	680	70	67	109	57	124	17.1	26	34	80	11.0
15	9.8	480	57	61	98	67	111	79	22	32	67	12.4
16	9.8	372	59	57	84	67	102	96	17.9	31	59	10.4
17	9.8	297	79	53	77	87	88	78	15.5	26	51	9.7
18	9.8	240	180	55	74	95	108	63	26	24	46	9.7
19	12.2	188	165	b52	74	90	153	57	22	26	44	30
20	67	173	154	b47	95	84	128	53	17.9	56	35	144
21	33	150	139	44	84	82	138	51	14.7	291	31	770
22	27	129	122	47	74	77	128	53	13.2	710	26	a1030
23	98	106	112	44	77	72	114	47	54	680	24	688
24	129	92	101	44	84	74	96	47	96	672	19.7	436
25	115	82	104	a880	77	67	85	49	74	494	16.3	300
26	101	77	95	580	67	61	78	44	144	360	13.9	214
27	92	72	84	430	65	61	73	57	a520	264	13.2	164
28	214	186	79	317	61	53	65	51	1 050	201	13.2	128
29	213	235	74	244	-	47	61	46	680	160	13.2	102
30	176	197	65	205	-	47	57	38	449	168	12.4	122
31	146	-	65	188	-	51	-	32	-	131	11.7	-

a No gage-height record for part of the day; discharge computed on basis of characteristic high-water graph, floodmark, and records for station at Awosting.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	218	15.5	a71	56	89	376	187	92	28	24	11.7	c9.7
2	184	16.3	76	52	76	311	394	82	24	17.9	11.0	c9.7
3	95	16.3	71	52	155	262	321	77	21	15.5	11.0	c9.7
4	22	16.3	183	48	208	221	281	65	17.9	13.9	11.0	c9.7
5	21	18.8	400	46	179	217	239	59	17.9	13.2	11.7	c9.7
6	32	19.7	a711	229	164	230	268	55	16.3	13.2	11.0	c9.7
7	48	24	505	200	156	204	332	50	14.7	13.2	11.0	c9.7
8	30	26	394	183	138	172	253	45	13.2	13.2	11.0	c11.0
9	30	31	337	164	125	156	225	46	13.2	12.4	11.0	c11.0
10	24	27	343	149	114	149	196	51	13.2	13.2	11.0	c9.7
11	17.1	26	281	135	142	125	175	46	14.7	14.7	11.0	c9.7
12	16.3	26	234	118	128	128	204	40	13.9	12.4	11.0	9.7
13	16.3	26	191	103	118	142	172	34	13.2	12.4	11.0	9.7
14	16.3	26	160	105	114	125	145	31	33	12.4	11.0	9.7
15	16.3	24	138	97	186	114	135	30	24	12.4	11.0	9.7
16	15.5	26	114	86	271	187	121	27	18.8	11.7	11.0	10.4
17	15.5	31	100	78	234	179	108	25	17.1	11.7	11.0	10.4
18	15.5	36	94	71	221	164	164	25	15.5	11.7	11.0	9.7
19	15.5	40	89	66	200	149	239	21	13.9	11.7	11.7	9.7
20	17.4	60	76	b60	191	135	337	19.4	13.2	11.7	14.7	9.7
21	37	54	69	b57	183	128	291	30	16.3	11.7	c11.7	10.4
22	22	50	64	b54	164	125	257	72	13.9	11.0	c11.0	9.7
23	18.8	52	62	b51	142	121	217	63	14.2	11.0	c11.0	9.7
24	27	60	54	b48	125	131	183	57	17.9	11.0	c11.7	9.7
25	37	83	52	b46	108	153	161	47	14.7	11.0	c12.4	9.7
26	46	78	48	b45	184	156	145	44	13.9	11.0	c11.0	9.7
27	26	71	85	b43	230	156	131	38	13.2	13.6	c10.4	9.7
28	30	69	89	b42	294	231	134	37	13.2	24	c10.4	9.7
29	57	69	80	b41	-	212	120	42	12.4	15.5	c10.4	9.7
30	55	66	62	92	-	212	105	35	21	13.2	c10.4	10.4
31	37	-	58	103	-	217	-	31	-	12.4	c10.4	-

a Gage-height record wholly or partly missing; discharge computed on basis of available recorder graph and records for station at Awosting.
b Stage-discharge relation affected by ice.
c Stage-discharge relation affected by moss on spillway; discharge computed on basis of recorder graph and drop in gage height when spillway was cleaned.

Wanaque River at Monks--Continued .

Daily discharge, in second-feet, 1935-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.7	16.8	5.5	b5.5	24	34	616	96	337	67	22	542
2	11.0	11.0	5.9	b5.5	22	32	480	93	354	57	17.1	542
3	11.0	9.7	7.4	b5.5	22	34	382	93	284	49	12.4	394
4	11.0	9.1	7.4	b5.5	21	70	376	96	236	55	10.4	284
5	10.4	20	6.9	b5	17.9	84	328	91	196	65	9.1	218
6	9.7	36	6.9	b5	17.9	84	266	74	160	53	9.1	160
7	9.7	19.7	6.4	b5	22	82	226	70	124	49	9.1	117
8	9.7	15.5	6.4	b5	22	74	326	61	99	42	9.1	91
9	9.7	13.2	5.9	b5	21	72	538	63	88	35	7.9	78
10	a9.7	11.7	6.4	b5	24	70	412	59	80	31	7.4	67
11	a9.7	11.0	7.4	b5	b36	b65	332	55	70	26	6.9	57
12	a9.7	11.0	6.4	5.1	b40	b60	344	57	61	41	6.9	47
13	a9.7	9.7	6.9	5.1	42	58	394	49	55	51	6.9	40
14	9.7	9.1	7.4	9.1	58	60	322	46	46	c38	7.4	35
15	9.7	8.5	6.4	b100	b140	650	276	42	40	c31	6.9	31
16	9.7	8.5	7.4	b140	b80	498	254	66	49	c27	6.9	28
17	9.7	7.9	6.9	b180	58	406	226	149	38	c26	6.9	24
18	9.1	7.9	6.9	b140	50	332	222	114	32	c21	7.4	24
19	9.1	7.4	6.9	b100	48	338	204	102	30	c19.7	7.4	22
20	9.1	7.4	10.3	b80	60	366	286	93	28	c17.9	9.1	19.7
21	9.7	7.4	17.9	b60	62	406	394	96	21	c16.3	7.4	19.7
22	13.8	7.4	12.5	b44	56	360	442	96	16.3	c14.7	6.9	26
23	9.7	6.9	b10	b50	54	296	388	107	13.9	c12.4	7.4	24
24	7.9	6.4	9.7	b48	46	240	332	105	32	c11.0	7.9	21
25	6.9	6.4	b9	b40	44	200	272	107	42	c9.7	7.4	48
26	6.9	5.9	b8	b36	42	168	222	117	59	19.2	10.4	57
27	6.9	5.9	b7	b32	b38	154	184	114	67	35	9.1	44
28	6.4	6.4	b6.5	b30	b36	226	150	149	57	24	64	37
29	6.4	6.4	b6.5	b28	b34	244	126	138	93	21	72	34
30	6.4	6.4	b6	b26	-	298	106	121	74	21	65	32
31	14.8	-	b6	26	-	690	-	290	-	28	97	-

a No gage-height record; discharge computed on basis of records for station at Awosting.
b Stage-discharge relation affected by ice.
c Backwater from moss on control; discharge computed on basis of gage-height record, drop in gage height when control was cleaned, and records for station at Awosting.

Monthly and annual discharge, in second-feet, 1935-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
January 1935	3 110	292	44	100	98.2	2.43	2.80
February	1 848	138	26	66.0	69.2	1.71	1.78
March	3 626	164	74	117	116	2.87	3.31
April	2 092	118	38	69.7	66.9	1.66	1.85
May	974.5	64	11.7	31.4	29.3	.725	.84
June	1 005.5	116	10.4	33.5	38.9	.963	1.07
July	1 109.8	60	18.8	35.8	29.0	.718	.83
August	343.7	21	9.1	11.1	-1.73	-.043	-.05
September	329.1	30	7.4	11.0	13.2	.327	.36
Water year	-	-	-	-	-	-	-
October 1935	247.3	48	5.1	7.98	12.2	.302	.35
November	2 892	316	21	96.4	120	2.97	3.31
December	2 431	226	22	78.4	65.1	1.61	1.86
Calendar year 1935	20 008.9	316	5.1	54.8	54.5	1.35	18.31
January 1936	4 343	222	50	140	142	3.51	4.05
February	1 252	70	28	43.2	43.2	1.07	1.15
March	12 745	1 760	63	411	416	10.3	11.87
April	4 509	369	44	150	143	3.54	3.95
May	1 433.4	112	14.9	46.2	41.3	1.02	1.18
June	516.8	37	10.6	17.2	16.3	.403	.45
July	282.2	11.6	8.5	9.10	-5.20	-.129	-.15
August	284.6	14	8.0	9.18	2.18	.054	.06
September	204.5	11.1	3.9	6.82	2.73	.068	.08
Water year 1935-36	31 140.8	1 760	3.9	85.1	83.6	2.07	28.16

* Adjusted for change in contents in Greenwood Lake
Note.- Negative figures indicate that evaporation from Greenwood Lake and from area between Lake and station exceeded inflow.

Wanaque River at Monks--Continued

Monthly and annual discharge, in second-feet, 1935-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	270.6	26	4.7	8.73	18.5	0.458	0.53
November	206.4	11.0	4.3	6.88	14.1	.349	.39
December	4 568.0	686	5.4	147	167	4.13	4.76
Calendar year 1936	30 615.5	1 760	3.9	83.6	84.1	2.08	28.32
January 1937	5 762	424	92	186	190	4.70	5.42
February	4 220	642	46	151	149	3.69	3.84
March	2 872	164	46	92.6	89.9	2.23	2.57
April	4 422	328	71	147	151	3.74	4.17
May	3 872	360	38	125	117	2.90	3.34
June	722.9	87	9.8	24.1	27.3	.676	.75
July	943.7	102	9.8	30.4	23.9	.592	.68
August	1 147.4	135	7.5	37.0	42.6	1.05	1.21
September	969.1	93	11.8	32.3	25.3	.626	.70
Water year 1936-37	29 976.1	686	4.3	82.1	84.3	2.09	28.36
October 1937	1 611.6	214	9.8	52.0	64.1	1.59	1.83
November	5 067	680	38	169	172	4.26	4.75
December	3 231	180	57	104	96.5	2.39	2.76
Calendar year 1937	34 840.7	680	7.5	95.5	95.2	2.36	32.02
January 1938	4 411	880	44	142	150	3.71	4.28
February	2 782	161	61	99.4	91.1	2.25	2.34
March	1 901	95	44	61.3	58.8	1.46	1.68
April	2 805	157	38	93.5	91.3	2.26	2.52
May	1 374.9	96	17.1	44.4	46.8	1.16	1.34
June	3 549.0	1 050	13.2	118	140	3.47	3.87
July	5 720	710	24	185	170	4.21	4.85
August	1 900.6	150	11.7	61.3	48.0	1.19	1.37
September	4 335.7	1 030	9.7	145	152	3.76	4.20
Water year 1937-38	38 688.8	1 050	9.7	106	107	2.65	35.79
October 1938	1 258.5	218	15.5	40.6	30.7	.760	.88
November	1 183.9	83	15.5	39.5	48.7	1.21	1.35
December	5 291	711	48	171	171	4.23	4.88
Calendar year 1938	36 512.6	1 050	9.7	100	99.9	2.47	33.56
January 1939	2 720	229	41	87.7	90.2	2.23	2.57
February	4 639	294	76	166	180	4.46	4.64
March	5 588	376	114	180	172	4.26	4.91
April	6 240	394	105	208	203	5.02	5.60
May	1 416.4	92	19.4	45.7	37.0	.916	1.06
June	507.4	33	12.4	16.9	17.9	.443	.49
July	417.9	24	11.0	13.5	2.81	.070	.08
August	346.6	14.7	10.4	11.2	3.26	.081	.09
September	296.4	11.0	9.7	9.88	2.33	.058	.06
Water year 1938-39	29 905.1	711	9.7	81.9	79.2	1.96	26.61
October 1939	294.6	14.8	6.4	9.50	14.1	.349	.40
November	316.6	36	5.9	10.6	21.9	.542	.60
December	237.1	17.9	5.5	7.65	17.1	.423	.49
Calendar year 1939	23 020.0	394	5.5	63.1	62.5	1.55	20.99
January 1940	1 236.3	180	5	39.9	45.1	1.12	1.29
February	1 237.8	140	17.9	42.7	45.3	1.12	1.21
March	6 751	690	32	218	232	5.74	6.62
April	9 426	616	106	314	302	7.48	8.34
May	3 009	290	42	97.1	106	2.62	3.02
June	2 882.2	354	13.9	96.1	84.2	2.08	2.32
July	1 013.9	67	9.7	32.7	29.0	.718	.83
August	540.8	97	6.9	17.4	32.3	.800	.92
September	3 163.4	542	19.7	105	89.8	2.22	2.48
Water year 1939-40	30 108.7	690	5	82.3	84.7	2.10	28.52

* Adjusted for change in contents in Greenwood Lake.

Wanaque River at Wanaque

Location.- Water-stage recorder and concrete control, lat. 41°02'33", long. 74°17'36", just downstream from Wanaque Reservoir in Wanaque, Passaic County, and 50 feet upstream from highway bridge. Datum of gage is 210.00 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 90.4 square miles (considered as 94 square miles Oct. 1, 1928, to Sept. 30, 1934, when flow diverted from Post Brook was included in all records).

Records available.- December 1903 to December 1905 (gage heights only), May 1912 to May 1915, May 1919 to September 1940.

Average discharge.- 21 years (1919-40), 163 second-feet (adjusted for storage and diversion).

Extremes.- 1912-15, 1919-40: Maximum discharge, 5,050 second-feet Apr. 7, 1924 (gage height, 8.01 feet, site then in use); minimum daily, 5.3 second-feet (regulated) Aug. 22, 1935.

Peak gage height and discharge during period of this report.-
1934: Dec. 1 (2 p.m.) 3.79 ft., 795 sec.-ft.
1936: Mar. 13 (8 a.m. to noon) 6.02 ft., 1,910 sec.-ft.; Mar. 19 (9 a.m.) 6.07 ft., 1,940 sec.-ft.; Apr. 6 (7 p.m.) 5.30 ft., 1,510 sec.-ft.
1937: May 15 (4:30 p.m.) 3.63 ft., 778 sec.-ft.
1938: Jan. 25 (6 p.m.) 6.17 ft., 2,020 sec.-ft.; June 29 (9 a.m.) 4.02 ft., 900 sec.-ft.; July 24 (12:30 to 2:30 a.m.) 5.66 ft., 1,730 sec.-ft.; Sept. 23 (1 p.m.) 4.03 ft., 920 sec.-ft.; Dec. 10 (2 p.m.) 3.81 ft., 830 sec.-ft.
1939: Apr. 2 (2:30 and 3:15 p.m.) 3.89 ft., 865 sec.-ft.; Apr. 7 (5:30 a.m.) 3.74 ft., 812 sec.-ft.; Apr. 20 (3 a.m.) 4.05 ft., 920 sec.-ft.
1940: June 2 (3 p.m.) 3.72 ft., 802 sec.-ft.

Remarks.- Water diverted from Post Brook into Wanaque Reservoir is included in records of daily discharge and observed monthly discharge and subtracted from records of monthly discharge adjusted for storage and diversion. Records of diversion from Post Brook obtained by use of water-stage recorder and concrete control. Flow regulated by Wanaque Reservoir (capacity, 3,476,000,000 cubic feet) from which water for municipal supply is diverted, and Greenwood Lake (capacity, 919,000,000 cubic feet) 11 miles above station.

Cooperation.- Water-stage recorder graph and records of diversion from and storage in Wanaque Reservoir furnished by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18.9	24	693	51	19.5	158	19.2	33	18.6	17.0	15.5	18.3
2	18.9	24	696	108	19.3	143	27	19.0	18.3	16.8	15.5	18.9
3	18.9	20	515	75	19.3	152	28	18.8	18.2	16.9	15.5	18.9
4	18.9	20	450	116	19.0	149	19.2	18.6	18.3	17.0	15.5	18.9
5	18.9	18.9	374	21	18.9	144	18.8	18.3	18.3	17.0	15.7	17.7
6	21	85	298	20	18.9	164	24	18.3	18.3	16.3	15.8	17.0
7	20	116	243	20	18.9	210	24	21	17.4	17.1	15.6	17.2
8	17.7	122	198	38	18.9	220	19.6	24	15.5	16.1	15.6	17.4
9	17.7	136	150	71	18.9	174	24	18.5	15.6	16.0	15.5	15.8
10	18.3	112	116	356	18.9	153	21	18.3	15.4	16.1	12.9	12.9
11	20	109	122	442	18.9	157	20	22	15.5	15.9	15.2	12.6
12	55	109	66	380	18.9	213	20	19.1	15.6	15.8	10.7	16.1
13	47	58	52	298	18.9	281	23	18.7	15.5	15.8	11.3	19.7
14	28	100	71	313	20	245	27	23	15.5	15.8	12.4	20
15	20	41	47	135	20	208	31	21	15.5	15.8	12.4	18.3
16	18.9	40	21	129	22	179	36	19.2	15.5	16.7	11.8	16.7
17	18.3	20	32	132	22	196	95	19.3	15.9	16.1	12.4	16.7
18	25	24	22	134	22	187	45	20	16.0	15.8	18.3	16.7
19	35	27	22	91	20	174	28	21	16.1	15.8	10.7	16.6
20	29	21	116	85	22	177	23	18.5	15.8	15.8	11.8	16.4
21	18.3	20	136	98	41	187	22	18.4	15.8	15.8	7.2	16.4
22	22	18.3	150	122	60	213	36	18.7	15.8	15.8	5.3	16.4
23	37	17.7	146	131	92	141	30	18.6	15.8	15.8	10.2	16.4
24	22	116	139	131	94	170	32	18.4	15.9	15.8	14.1	16.4
25	20	56	119	83	88	44	46	18.3	16.0	15.7	20	16.4
26	41	21	172	73	139	20	28	18.6	16.0	15.5	12.4	16.6
27	42	18.3	160	55	223	18.9	19.6	20	18.8	15.5	12.1	16.6
28	29	16.4	64	32	179	20	23	19.5	20	15.5	12.0	16.4
29	17.0	16.4	95	23	-	21	19.6	19.5	18.2	15.5	9.2	16.4
30	18.9	187	160	20	-	25	32	19.7	17.5	15.5	7.0	16.7
31	18.9	-	31	19.7	-	20	-	19.3	-	15.5	9.2	-

Wanaque River at Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.3	15.7	16.3	16.3	16.3	16.9	179	15.7	16.9	15.7	15.7	15.7
2	16.3	15.7	16.3	16.3	16.3	16.9	169	15.7	16.9	15.7	15.7	15.7
3	16.3	15.7	16.3	20	16.3	16.9	190	17.7	16.9	15.7	15.7	15.7
4	16.3	15.7	16.3	18.2	16.3	16.9	172	91	16.9	15.7	15.7	15.7
5	16.3	15.7	16.3	16.3	16.3	16.9	130	101	16.9	15.7	15.7	15.7
6	16.3	15.7	16.3	15.7	16.3	16.9	947	75	16.9	15.7	15.7	15.7
7	16.3	16.3	16.3	15.7	16.3	16.9	1 010	53	16.9	15.7	15.7	15.7
8	16.3	16.3	16.3	15.1	16.3	16.9	709	44	16.9	15.7	15.1	15.7
9	16.3	16.3	16.3	16.3	16.9	16.9	338	38	16.9	15.7	15.1	15.7
10	16.3	16.3	16.3	22	16.9	18.2	313	19.6	16.9	15.7	15.1	15.7
11	16.3	16.3	16.3	32	16.9	27	390	15.7	16.3	16.3	15.1	15.7
12	16.3	15.7	16.3	16.3	16.9	569	376	16.3	16.3	16.3	15.1	15.7
13	16.3	16.9	16.3	16.9	16.9	1 840	405	16.3	16.9	15.7	15.1	15.7
14	16.3	16.3	16.3	16.9	16.9	1 510	415	67	16.9	16.3	15.1	15.7
15	15.7	16.3	16.3	17.5	16.9	1 080	362	15.7	16.3	16.3	15.1	15.7
16	15.7	16.3	16.3	17.5	16.9	882	335	21	16.3	16.3	15.1	15.7
17	16.3	15.7	16.3	17.5	16.9	740	266	16.3	16.3	16.3	15.1	15.7
18	16.3	16.3	16.3	17.5	16.9	1 370	235	16.3	16.3	16.9	15.1	16.9
19	15.7	15.7	16.3	17.5	16.9	1 840	201	16.3	16.3	17.5	15.7	16.9
20	15.7	15.7	16.3	17.5	16.9	1 400	160	25	16.3	16.3	15.7	16.9
21	16.3	15.7	16.3	17.5	16.9	1 320	162	15.7	17.5	15.1	15.7	16.9
22	16.3	15.7	16.3	16.9	16.9	1 170	112	15.7	16.3	15.1	15.7	16.9
23	15.1	15.7	16.3	17.5	16.9	818	80	16.3	15.7	15.1	17.5	16.3
24	15.7	15.7	16.3	17.5	16.9	687	105	16.3	15.7	15.7	15.7	16.3
25	15.7	15.7	16.3	17.5	16.9	524	33	16.9	15.7	15.1	15.7	16.3
26	15.7	15.7	16.3	17.5	16.9	271	44	15.7	15.7	15.1	15.7	15.7
27	15.7	15.7	16.3	17.5	16.9	242	22	16.3	16.3	15.1	15.1	15.7
28	15.7	16.3	16.3	17.5	16.9	275	18.2	18.8	16.3	15.1	15.1	15.7
29	15.7	16.3	16.3	17.5	16.9	143	17.5	17.5	15.7	15.1	15.7	15.7
30	16.3	16.3	16.3	16.9	-	216	16.9	16.9	15.7	15.1	15.7	15.7
31	16.3	-	16.3	13.8	-	235	-	16.9	-	15.1	15.7	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.9	15.1	15.7	15.7	17.5	18.2	76	227	24	16.9	16.9	16.3
2	15.7	15.1	15.7	15.7	17.5	25	74	193	15.7	16.3	16.9	16.3
3	15.7	15.1	15.7	13.3	16.3	49	83	152	15.7	16.3	16.3	16.3
4	16.3	15.1	15.7	15.7	16.3	60	60	122	15.7	16.3	16.9	16.3
5	16.3	16.3	15.7	17.5	16.9	100	60	97	15.7	16.3	16.9	16.9
6	15.7	15.7	15.7	20	16.9	72	380	122	15.7	15.7	16.3	16.9
7	15.7	15.7	15.7	18.8	16.9	89	535	201	15.7	16.3	16.9	16.9
8	15.7	15.1	15.7	16.9	16.9	49	381	183	15.7	16.3	16.3	16.9
9	15.7	15.1	15.7	16.3	16.9	60	339	149	15.7	15.7	16.3	16.3
10	15.7	15.7	15.7	16.3	16.9	39	308	146	15.7	16.3	16.3	16.3
11	15.7	15.7	15.7	18.2	16.9	26	250	96	15.7	16.3	17.5	16.3
12	15.7	15.7	15.7	18.2	16.9	24	183	60	15.1	16.3	16.9	16.3
13	15.7	15.7	15.7	16.3	16.9	21	141	53	15.7	15.7	15.7	18.8
14	15.7	15.7	15.7	15.7	16.9	19.6	122	149	15.7	16.3	15.7	18.2
15	15.7	15.7	15.7	16.9	16.9	44	124	663	16.3	17.5	15.7	18.2
16	15.7	15.7	15.7	15.7	16.9	83	138	588	15.1	16.3	15.7	17.5
17	16.3	15.7	16.3	16.3	16.9	33	88	435	15.1	16.3	15.7	17.5
18	15.7	16.3	15.7	16.9	16.9	22	73	326	15.7	16.3	16.9	17.5
19	15.7	15.7	15.7	16.3	16.9	33	77	262	16.3	15.7	16.9	17.5
20	15.1	15.7	20	16.3	16.9	24	61	212	16.3	15.7	16.9	17.5
21	15.1	15.7	16.9	16.3	17.5	94	43	155	16.3	16.3	16.9	17.5
22	15.7	16.3	16.3	16.9	21	135	196	127	16.9	16.3	17.5	17.5
23	15.7	13.3	16.3	16.9	18.2	134	279	115	16.3	16.3	18.8	17.5
24	15.7	16.3	16.3	17.5	18.2	135	227	100	15.7	16.3	16.9	18.8
25	15.7	15.1	16.3	18.8	18.2	183	193	60	15.7	16.9	16.9	18.2
26	15.7	15.1	16.3	17.5	18.2	250	159	42	15.7	16.9	16.9	18.2
27	15.7	15.1	16.3	17.5	18.2	190	212	40	16.3	16.9	16.9	18.2
28	15.1	15.1	15.7	17.5	18.2	193	344	28	16.3	16.9	16.9	18.2
29	14.5	15.7	15.7	17.5	-	174	348	16.9	16.3	16.9	16.9	18.2
30	15.1	15.7	15.7	17.5	-	86	270	29	17.5	16.9	16.9	18.2
31	15.7	-	16.3	17.5	-	67	-	35	-	16.9	16.9	-

Wanaque River at Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18.2	17.5	45	73	219	24	21	38	22	430	108	17.5
2	18.2	17.5	85	71	152	18.8	22	34	22	326	86	16.9
3	18.2	17.5	115	66	135	21	23	24	21	235	55	16.9
4	18.2	17.5	115	41	144	18.8	22	21	21	162	35	16.9
5	18.2	16.9	117	31	127	18.8	20	18.8	20	107	38	16.9
6	18.2	16.3	141	23	112	18.8	22	22	19.6	70	65	16.9
7	16.9	15.7	162	75	202	18.8	20	20	19.6	37	90	17.5
8	17.5	15.7	152	141	162	18.8	19.6	19.6	19.6	31	69	17.5
9	17.5	15.7	135	127	144	18.8	21	19.6	18.8	31	58	16.9
10	17.5	15.7	117	101	183	18.8	34	21	18.8	30	49	17.5
11	17.5	15.7	97	84	108	18.8	24	21	19.6	29	105	17.5
12	17.5	15.7	81	70	93	18.2	24	21	20	28	105	17.5
13	16.9	22	70	84	104	18.2	24	19.6	18.8	28	52	17.5
14	16.9	18.2	64	52	143	18.2	31	20	18.8	27	34	17.5
15	16.9	16.3	36	66	124	18.2	30	22	18.8	26	30	17.5
16	16.3	16.3	35	26	77	18.2	27	32	18.8	25	30	16.9
17	16.3	16.9	46	42	42	18.2	27	23	18.8	25	28	16.9
18	16.3	16.3	238	56	41	18.2	58	22	18.8	24	29	16.9
19	16.3	15.7	348	15.5	64	18.2	179	22	18.8	24	27	19.6
20	16.3	15.7	262	13.3	129	18.2	178	22	18.2	24	26	19.6
21	15.7	15.7	204	15.7	80	18.2	155	22	18.2	26	25	23
22	15.7	15.7	162	15.7	58	18.2	168	22	18.2	496	25	146
23	16.3	15.7	132	15.7	66	18.2	135	22	18.2	1 150	24	841
24	15.7	15.7	101	16.9	90	19.6	103	22	18.2	1 510	24	778
25	15.7	15.7	119	1 320	79	19.6	86	24	18.2	940	22	476
26	15.7	15.7	119	1 430	32	20	67	22	20	624	21	300
27	16.3	15.7	97	830	29	23	52	22	21	395	20	208
28	17.5	16.8	88	529	96	21	45	22	196	279	19.6	146
29	16.9	17.5	77	362	-	20	39	22	848	201	18.2	115
30	16.9	17.5	56	287	-	20	31	22	698	183	17.5	116
31	16.9	-	45	262	-	19.6	-	22	-	144	17.5	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	118	23	17.5	31	35	294	291	118	16.3	17.5	16.3	15.7
2	117	23	17.5	31	35	455	549	77	16.3	17.5	16.9	15.7
3	100	23	17.5	31	65	395	709	93	15.7	17.5	16.9	15.7
4	52	23	18.8	35	159	339	497	63	15.7	17.5	16.3	15.7
5	38	23	21	27	190	330	357	41	15.7	17.5	15.7	15.7
6	44	23	26	132	204	386	385	35	16.9	18.2	15.7	15.7
7	44	23	70	235	212	344	720	34	18.8	17.5	15.7	16.3
8	35	22	386	227	313	239	502	31	18.8	17.5	15.7	16.3
9	37	20	529	212	322	235	415	31	18.8	17.5	15.7	16.3
10	34	18.2	630	186	266	227	317	39	17.5	17.5	15.7	16.3
11	32	18.2	497	172	250	159	275	33	16.9	16.9	15.7	16.3
12	31	19.6	410	149	235	201	317	43	16.9	16.9	15.7	16.3
13	30	21	326	112	212	254	302	30	17.5	16.9	15.7	15.7
14	29	21	270	138	190	134	183	29	17.5	17.5	15.7	16.3
15	27	21	239	108	190	125	186	28	16.9	17.5	15.7	16.3
16	26	17.5	169	89	270	262	152	27	16.9	17.5	16.3	16.3
17	25	17.5	149	84	291	308	141	25	16.9	17.5	16.3	16.3
18	24	17.5	144	59	296	275	227	25	16.3	18.2	15.7	15.7
19	24	17.5	149	107	296	242	432	24	16.3	17.5	16.9	15.7
20	24	17.5	87	141	283	216	848	23	16.3	16.9	16.9	15.7
21	24	16.9	72	106	279	200	596	22	15.7	16.9	15.7	15.7
22	23	16.9	126	88	266	152	440	22	15.7	16.3	15.7	15.7
23	23	17.5	40	70	242	130	348	21	16.5	15.7	15.7	15.7
24	23	18.2	35	51	216	132	283	20	16.3	15.7	15.7	15.7
25	23	19.6	42	44	190	159	231	24	16.3	15.7	15.7	15.7
26	23	19.6	32	31	197	163	197	22	16.3	15.7	15.7	15.7
27	24	19.6	58	24	275	193	176	18.8	16.3	17.4	15.7	15.7
28	24	19.6	87	21	198	296	186	18.8	16.9	18.2	15.7	15.7
29	24	18.8	39	20	-	317	172	18.2	17.5	15.7	15.7	15.7
30	24	18.2	54	22	-	308	141	16.3	18.8	15.7	15.7	15.7
31	23	-	31	31	-	348	-	16.3	-	15.7	15.7	-

Wanaque River at Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.7	16.3	15.7	15.7	15.7	15.7	17.5	16.9	288	30	17.5	17.5
2	15.7	16.3	15.1	15.7	15.7	15.7	16.9	16.9	760	28	17.5	16.3
3	15.7	16.3	15.7	15.7	15.7	15.7	16.3	16.9	562	27	17.5	15.7
4	16.3	16.3	17.5	15.7	15.7	16.9	16.9	16.9	400	27	17.5	15.7
5	16.3	17.5	16.9	15.1	15.7	15.7	16.3	16.9	308	27	17.5	15.7
6	15.7	16.3	16.3	15.1	15.7	15.7	16.3	16.9	242	26	17.5	15.7
7	15.7	16.3	15.7	15.7	15.7	15.7	16.3	18.2	162	24	17.5	15.7
8	15.7	16.3	16.3	15.7	15.7	15.7	19.6	17.5	117	22	16.9	15.7
9	15.7	16.3	15.7	15.7	15.7	15.7	18.8	17.5	103	21	16.3	15.7
10	15.7	15.7	15.7	15.7	15.7	15.7	17.5	16.9	97	18.8	16.3	15.7
11	15.7	15.7	16.3	15.7	15.7	15.7	16.9	16.9	71	18.2	16.3	15.7
12	15.7	15.7	15.7	15.7	15.7	15.7	17.5	17.5	64	18.2	16.3	15.7
13	15.7	15.7	16.3	15.7	15.7	15.7	18.9	17.5	65	18.2	16.3	15.7
14	15.7	15.7	15.7	18.7	15.7	17.1	18.2	16.9	60	16.9	16.3	15.7
15	16.3	15.7	15.7	17.5	15.7	25	17.5	16.3	55	16.3	15.7	15.7
16	16.3	15.1	15.7	16.9	15.7	17.5	16.9	17.5	52	15.7	15.7	15.7
17	16.3	15.7	15.7	16.3	15.7	16.9	16.9	16.9	47	15.1	15.7	15.7
18	16.3	15.7	15.7	16.3	15.7	16.9	16.9	18.2	44	16.3	15.7	15.7
19	15.7	15.7	15.7	16.3	15.7	16.9	16.9	22	40	15.7	15.1	15.7
20	16.3	15.7	15.7	16.3	15.7	16.3	17.5	22	41	15.7	15.7	15.7
21	16.3	15.7	15.7	15.7	15.7	16.3	18.2	23	39	15.7	16.3	15.7
22	16.3	15.7	16.9	15.7	15.7	16.3	17.5	23	34	16.3	16.9	15.7
23	16.3	15.7	16.3	15.7	15.7	16.9	17.5	23	31	16.3	16.3	15.7
24	15.7	15.7	15.7	15.7	15.7	16.9	16.9	24	31	16.3	16.3	15.7
25	15.7	15.7	15.7	15.7	15.7	16.9	16.9	27	30	16.3	16.3	16.9
26	15.7	15.7	15.7	15.7	15.7	16.9	16.9	33	30	16.9	16.9	16.9
27	15.7	15.7	15.7	15.7	15.7	16.9	16.9	36	30	16.9	16.9	16.9
28	15.7	15.7	15.7	15.7	15.7	16.9	16.9	39	30	16.9	18.2	16.9
29	15.7	15.7	15.7	15.7	15.7	16.9	16.9	35	30	16.3	16.9	16.9
30	15.7	15.7	15.7	15.7	-	16.9	16.9	36	30	16.9	16.3	16.9
31	16.9	-	15.7	15.7	-	18.2	-	55	-	17.5	16.3	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	771.5	55	17.0	24.9	147	1.63	1.88
November	1 714.0	197	16.4	57.1	188	2.08	2.32
December	5 676	696	21	183	265	2.93	3.38
Calendar year 1934	24 059.7	696	152	65.9	182	1.95	26.53
January 1935	3 802.7	442	19.7	123	225	2.49	2.87
February	1 311.2	223	18.9	46.8	174	1.92	2.00
March	4 563.9	281	18.9	147	265	2.93	3.38
April	861.0	95	18.8	28.7	154	1.70	1.90
May	618.6	33	18.3	20.0	68.4	.757	.87
June	500.6	20	15.4	16.7	79.4	.878	.98
July	497.5	17.0	15.5	16.0	61.0	.675	.78
August	398.8	20	5.3	12.9	-3.31	-.037	-.04
September	507.5	20	12.6	16.9	32.7	.362	.40
Water year 1934-35	21 223.3	696	5.3	58.1	138	1.53	20.72
October 1935	497.5	16.3	15.1	16.0	33.0	.365	.42
November	479.4	16.9	15.7	16.0	238	2.63	2.93
December	505.3	16.3	16.3	16.3	119	1.32	1.52
Calendar year 1935	14 544.0	442	5.3	39.8	120	1.33	18.01
January 1936	546.6	32	13.8	17.6	304	3.36	3.87
February	485.3	16.9	16.3	16.7	99.0	1.10	1.19
March	17 329.3	1 840	16.9	559	891	9.86	11.37
April	7 912.6	1 010	16.9	264	345	3.82	4.26
May	879.6	101	15.7	28.4	82.1	.908	1.05
June	493.8	17.5	15.7	16.5	41.9	.463	.52
July	487.9	17.5	15.1	15.7	-8.41	-.093	-.11
August	480.7	17.5	15.1	15.5	7.54	.083	.10
September	478.8	16.9	15.7	16.0	12.8	.142	.16
Water year 1935-36	30 576.8	1 840	13.8	83.5	181	2.00	27.28

*Adjusted for change in contents in Greenwood Lake and Wanaque Reservoir and diversion from and into Wanaque Reservoir.

Wanaque River at Wanaque--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	486.1	16.9	14.5	15.7	41.2	0.456	0.53
November	468.0	16.3	15.1	15.6	35.2	.389	.43
December	497.0	20	15.7	16.0	338	3.74	4.31
Calendar year 1936	30 545.7	1 840	13.8	83.5	184	2.04	27.68
January 1937	527.4	20	15.7	17.0	430	4.76	5.49
February	485.7	21	16.3	17.3	306	3.38	3.52
March	2 531.8	250	18.2	81.7	194	2.15	2.48
April	5 824	535	43	194	306	3.38	3.77
May	5 183.9	663	16.9	167	251	2.78	3.20
June	485.3	24	15.1	16.2	62.6	.692	.77
July	508.3	17.5	15.7	16.4	38.4	.425	.49
August	518.0	18.8	15.7	16.7	100	1.11	1.28
September	521.2	18.8	16.3	17.4	59.8	.662	.74
Water year 1936-37	18 036.7	663	14.5	49.4	180	1.99	27.01
October 1937	525.1	18.2	15.7	16.9	123	1.36	1.57
November	498.5	22	15.7	16.6	365	4.04	4.51
December	3 661	348	35	118	210	2.32	2.68
Calendar year 1937	21 270.2	663	15.1	58.3	203	2.25	30.50
January 1938	6 341.8	1 430	13.3	205	314	3.47	4.00
February	3 035	219	29	108	189	2.09	2.18
March	595.4	24	18.2	19.2	135	1.49	1.72
April	1 707.6	179	19.6	56.9	190	2.10	2.34
May	706.6	38	18.8	22.8	97.4	1.08	1.24
June	2 265.8	848	18.2	75.5	238	2.63	2.93
July	7 667	1 510	24	247	330	3.65	4.21
August	1 352.8	108	17.5	43.6	81.8	.905	1.04
September	3 497.8	841	16.9	117	301	3.33	3.72
Water year 1937-38	31 854.4	1 510	13.3	87.3	214	2.37	32.14
October 1938	1 149	118	23	37.1	63.8	.706	.81
November	594.4	23	16.9	19.8	110	1.22	1.36
December	4 789.3	630	17.5	154	363	4.02	4.64
Calendar year 1938	33 702.5	1 510	13.3	92.3	201	2.22	30.19
January 1939	2 814	235	20	90.8	186	2.06	2.38
February	6 177	322	35	221	378	4.18	4.35
March	7 838	455	125	253	353	3.90	4.50
April	10 575	848	141	352	443	4.90	5.47
May	1 066.4	116	16.3	34.4	84.3	.933	1.08
June	504.6	18.8	15.7	16.8	30.7	.340	.38
July	527.7	18.2	15.7	17.0	17.4	.192	.22
August	493.9	16.9	15.7	15.9	9.64	.107	.12
September	477.0	16.3	15.7	15.9	1.53	.017	.02
Water year 1938-39	37 006.3	848	15.7	101	169	1.87	25.33
October 1939	493.9	16.9	15.7	15.9	33.6	.372	.43
November	477.0	17.5	15.1	15.9	45.0	.498	.56
December	493.3	17.5	15.1	15.9	37.1	.410	.47
Calendar year 1939	31 937.8	848	15.1	87.5	133	1.47	19.98
January 1940	493.9	18.7	15.1	15.9	87.8	.971	1.12
February	455.3	15.7	15.7	15.7	88.5	.979	1.06
March	517.9	25	15.7	16.7	475	5.25	6.05
April	518.0	19.6	16.3	17.3	598	6.62	7.39
May	707.2	55	16.3	22.8	251	2.78	3.20
June	3 893	760	30	130	195	2.16	2.41
July	599.4	30	15.1	19.3	50.4	.558	.64
August	514.4	18.2	15.1	16.6	60.4	.668	.77
September	480.6	17.5	15.7	16.0	116	1.28	1.43
Water year 1939-40	9 643.9	760	15.1	26.3	169	1.87	25.53

* Adjusted for change in contents in Greenwood Lake and Wanaque Reservoir and for diversion from and into Wanaque Reservoir.

Ringwood Creek near Wanaque

Location.- Water-stage recorder and concrete control, lat. 41°07'36", long. 74°15'52", 500 feet upstream from Wanaque Reservoir and 6½ miles north of Wanaque, Passaic County. Datum of gage is 302.67 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 19.1 square miles.

Records available.- December 1934 to September 1940.

Average discharge.- 5 years, 34.0 second-feet.

Extremes.- 1934-40: Maximum discharge, 864 second-feet Mar. 12, 1936 (gage height, 3.40 feet), from rating curve extended above 110 second-feet on basis of laboratory rating and determination of approximate discharge at gage height 3.18 feet; minimum, 0.3 second-foot (regulated) Aug. 18-22, 1936.

Peak gage height and discharge during period of this record.-
1935: Jan. 10 (2 a.m.) 1.51 ft., 173 sec.-ft.
1936: Jan. 3 (2 p.m.) 1.61 ft., 198 sec.-ft.; Mar. 12 (1 a.m.) 3.40 ft., 864 sec.-ft.; Mar. 18 (1 p.m.) 2.51 ft., 479 sec.-ft.; Mar. 21 (9 a.m.) 2.04 ft., 317 sec.-ft.; Apr. 6 (10 a.m.) 2.10 ft., 336 sec.-ft.; Dec. 20 (8 a.m.) 2.58 ft., 505 sec.-ft.
1937: Feb. 22 (6:30 a.m.) 2.84 ft., 610 sec.-ft.; May 15 (3 to 5 a.m.) 1.57 ft., 188 sec.-ft.; Nov. 13 (3 p.m.) 2.77 ft., 581 sec.-ft.
1938: Jan. 25 (7 a.m. to 1 p.m.) 2.79 ft., 589 sec.-ft.; June 27 (11 p.m.) 2.38 ft., 431 sec.-ft.; July 21 (2 p.m.) 1.61 ft., 198 sec.-ft.; July 23 (7 to 10 p.m.) 1.89 ft., 272 sec.-ft.; Sept. 21 (7 to 8 p.m.) 3.33 ft., 830 sec.-ft.; Dec. 6 (4:30 a.m.) 2.44 ft., 453 sec.-ft.
1939: Apr. 2 (9 to 11 a.m.) 1.67 ft., 212 sec.-ft.; Apr. 6-7 (11 p.m. to 3 a.m.) 1.56 ft., 185 sec.-ft.; Apr. 19 (8 p.m.) 1.91 ft., 278 sec.-ft.
1940: Mar. 15 (1 to 2 p.m.) 2.18 ft., 362 sec.-ft.; Mar. 31 (4 to 5 a.m.) 2.12 ft., 343 sec.-ft.; Apr. 8 (11 p.m.) 2.31 ft., 406 sec.-ft.; Apr. 12 (11 a.m.) 1.53 ft., 178 sec.-ft.; Apr. 21 (9 to 12 p.m.) 1.55 ft., 183 sec.-ft.; May 31 (2 p.m.) 1.70 ft., 220 sec.-ft.

Remarks.- Flow slightly regulated by Ringwood Lake.

Cooperation.- Water-stage recorder graph furnished by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	30	26	45	37	21	7.5	24	7.2	1.4
2			-	34	a27	43	34	18.1	6.5	16.5	7.9	1.3
3			-	29	25	49	32	17.3	6.1	13.0	7.2	1.4
4			-	26	25	46	29	17.3	7.2	11.8	6.1	9.6
5			-	22	25	45	28	17.3	8.8	10.7	4.9	28
6			-	27	21	57	27	17.3	9.2	8.8	4.2	16.5
7			-	37	21	58	26	26	8.8	15.4	4.2	11.2
8			-	44	18.9	50	24	32	7.9	16.5	4.0	6.2
9			-	51	17.3	46	40	24	18.7	17.3	3.5	6.0
10			-	138	18.1	45	53	21	14.2	18.1	3.1	8.3
11			-	87	17.3	54	43	24	10.2	13.6	4.4	5.8
12			-	64	21	66	43	21	7.9	11.2	a4.7	4.2
13			-	49	26	64	50	18.1	6.5	11.2	a4.0	3.3
14			-	44	19.8	55	49	17.3	5.2	9.2	a3.7	2.9
15			-	37	46	52	46	17.3	7.2	7.9	a3.3	2.9
16			-	39	44	54	46	16.5	5.5	14.1	a2.7	2.4
17			-	38	53	62	43	14.9	6.3	22	a2.4	2.1
18			-	35	48	54	38	14.2	76	12.4	2.2	2.1
19			-	34	43	49	35	13.6	38	10.2	2.1	1.9
20			-	38	39	49	34	12.4	38	11.2	2.5	1.9
21			-	48	35	55	33	11.8	26	11.2	2.9	1.9
22			-	50	33	53	31	10.7	23	10.2	2.9	1.9
23			-	45	31	45	30	10.7	18.9	12.3	2.5	1.8
24			-	41	31	43	28	10.7	14.2	30	2.1	1.7
25			-	41	37	40	26	10.2	13.0	27	1.9	1.6
26			-	39	57	38	25	9.2	11.2	25	1.6	1.5
27			38	32	50	34	23	8.8	16.2	15.7	1.5	1.5
28			26	31	49	42	22	7.9	18.9	12.4	1.5	1.5
29			33	b30	-	53	21	7.2	23	10.2	1.5	1.6
30			29	b30	-	43	23	7.2	37	8.8	1.4	1.6
31			23	28	-	39	-	7.2		7.5	1.4	-

a Computed on basis of partly estimated gage-height record.
b Stage-discharge relation affected by ice.

Ringwood Creek near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	18.9	h61	16.6	21	33	61	24	6.1	2.4	0.9	1.7
2	1.5	18.1	h54	18.2	b21	32	60	22	5.5	2.1	.9	1.6
3	1.5	13.0	45	129	b20	32	66	25	5.6	1.9	.6	1.9
4	1.5	9.7	38	92	21	37	58	55	7.2	1.9	.4	1.5
5	1.4	8.8	29	61	23	44	52	37	5.5	1.8	.5	1.3
6	1.4	10.7	31	49	23	40	253	30	4.4	1.7	.6	1.2
7	1.4	5.8	29	45	21	37	167	27	3.7	1.5	1.7	1.1
8	1.4	5.2	31	43	18.2	35	117	26	3.5	1.5	1.7	1.2
9	1.4	5.5	32	46	18.2	38	96	23	3.5	1.4	1.5	2.1
10	1.3	5.2	30	85	b18.2	68	107	21	3.3	1.3	1.3	1.5
11	1.2	5.2	29	67	b17.4	410	98	19.0	3.3	2.3	1.3	1.3
12	1.3	5.5	28	60	16.6	713	93	17.4	4.0	2.7	1.2	1.2
13	1.3	18.2	27	57	15.8	343	108	18.2	10.3	2.5	1.1	1.1
14	1.4	37	26	53	19.0	205	100	25	24	2.2	.6	.9
15	1.3	21	27	57	19.9	164	90	18.2	17.3	1.9	.5	1.4
16	1.2	15.7	39	90	19.0	141	84	15.0	10.5	1.5	.6	1.5
17	1.2	20	31	67	19.0	141	73	13.7	7.2	1.4	.5	h2.0
18	1.2	26	26	58	24	397	65	13.7	6.8	1.4	.4	2.9
19	1.3	25	23	48	21	359	60	23	7.9	1.9	.3	6.2
20	1.3	34	22	48	19.0	228	54	21	7.2	1.6	.3	3.5
21	1.3	h38	18.2	58	17.4	264	51	14.9	7.9	1.5	.3	2.5
22	1.3	h35	16.6	49	15.8	202	45	12.4	5.2	1.3	.3	1.9
23	1.3	h37	15.8	44	15.8	153	38	11.8	4.0	1.1	2.9	1.6
24	1.4	h31	14.3	b38	14.3	128	34	10.7	3.5	3.0	11.4	1.5
25	1.4	h27	14.3	38	16.6	114	31	9.7	3.5	4.4	4.6	1.3
26	1.4	h26	14.3	35	29	103	29	8.8	2.9	2.9	2.9	1.0
27	1.4	h25	15.0	34	38	101	27	8.8	2.9	1.8	2.2	1.1
28	1.4	h27	15.0	29	40	101	25	8.8	2.9	1.4	1.8	1.1
29	1.3	h118	13.7	27	35	70	24	7.9	2.7	1.3	3.3	1.4
30	8.6	75	15.8	23	-	67	23	7.2	2.4	1.2	3.5	1.9
31	33	-	17.4	22	-	68	-	6.8	-	1.1	2.2	-

b Stage-discharge relation affected by ice.
h Recorder graph missing; discharge computed on basis of daily staff-gage reading.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14.9	3.7	2.9	57	82	60	38	64	17.3	34	2.1	13.0
2	10.1	3.7	5.3	54	61	55	38	57	15.7	16.8	1.7	11.8
3	7.2	3.7	19.8	82	48	52	37	52	14.9	12.4	1.5	10.2
4	3.7	4.6	14.2	68	44	49	34	49	16.5	10.7	1.3	10.7
5	2.9	10.7	11.2	57	43	49	34	45	13.6	9.7	1.1	21
6	2.4	9.2	11.4	52	40	45	128	59	13.0	8.8	1.1	17.3
7	2.1	7.2	41	58	38	39	97	83	13.6	7.9	1.1	13.0
8	2.2	7.2	24	62	37	38	75	64	11.2	7.2	1.7	11.2
9	1.8	9.7	18.9	55	37	38	72	57	10.2	6.5	3.1	11.2
10	2.1	8.8	19.8	58	38	31	67	53	9.7	5.8	5.5	9.2
11	2.4	6.8	36	57	31	28	58	46	10.2	5.5	11.1	8.8
12	1.8	6.5	54	50	28	26	52	43	9.2	7.9	38	7.9
13	1.6	6.5	40	46	28	26	49	42	8.3	9.2	20	40
14	1.6	6.5	32	44	38	25	45	92	8.8	7.2	10.6	66
15	1.7	6.5	28	74	35	25	45	158	8.8	21	6.8	33
16	1.8	6.1	25	62	30	28	43	101	8.3	28	5.2	24
17	28	5.2	64	58	26	27	38	85	6.8	14.4	4.2	18.9
18	25	5.5	45	94	24	27	35	75	9.7	10.2	6.0	17.3
19	13.0	4.7	37	72	23	30	35	66	13.6	8.3	5.2	15.7
20	10.2	4.4	348	62	23	33	34	58	9.2	6.5	4.2	13.6
21	8.8	4.7	144	70	28	57	38	52	15.1	5.5	3.5	11.8
22	7.5	4.7	88	110	410	53	88	46	54	5.2	6.8	11.2
23	6.5	4.4	64	126	158	53	75	48	22	4.7	65	10.7
24	6.1	4.7	57	110	114	52	61	40	13.6	4.4	41	10.2
25	5.5	4.4	53	160	94	58	54	35	10.2	4.4	26	9.7
26	5.5	5.2	57	132	80	58	49	32	8.8	4.4	19.8	9.2
27	4.9	4.8	55	103	70	50	86	30	8.8	4.9	34	8.3
28	4.4	4.0	53	83	61	49	103	27	9.2	3.3	27	7.9
29	4.2	4.0	45	76	-	44	87	26	9.7	2.7	19.8	7.9
30	4.2	3.7	41	68	-	41	72	22	13.3	2.4	16.5	7.2
31	3.7	-	50	77	-	40	-	18.9	-	2.7	14.9	-

Ringwood Creek near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.8	a27	73	33	55	23	29	24	13.6	54	45	13.0
2	6.1	26	64	33	48	25	25	23	13.0	48	41	10.2
3	5.8	24	57	32	50	24	24	21	13.6	39	35	9.2
4	5.8	21	50	29	54	21	22	19.8	14.2	32	34	10.2
5	5.2	18.9	48	28	44	25	21	18.1	14.2	28	37	8.8
6	9.7	18.1	58	27	44	34	19.8	17.3	12.4	25	38	7.5
7	7.5	17.3	61	59	67	29	23	16.5	11.2	22	37	7.2
8	5.8	16.5	48	54	50	26	30	15.7	14.2	19.8	33	31
9	5.2	15.7	43	41	45	24	70	15.7	12.4	18.9	39	7.6
10	5.2	14.9	37	38	45	23	64	15.7	10.2	18.9	33	5.7
11	5.2	13.6	34	35	40	24	54	14.9	13.8	18.1	61	5.5
12	4.7	13.0	31	34	38	25	49	13.6	14.9	18.9	40	4.9
13	4.2	266	30	34	43	25	45	13.0	14.2	21	32	5.2
14	4.0	259	27	32	45	29	41	13.0	11.8	17.3	28	5.5
15	3.7	118	25	29	39	32	39	72	10.2	17.3	26	7.6
16	3.7	90	34	28	34	32	37	44	9.2	15.7	23	6.8
17	3.7	76	45	29	32	39	33	30	8.8	14.2	23	5.2
18	3.5	64	87	22	32	39	44	23	16.7	17.3	23	4.7
19	5.4	58	68	23	34	35	67	21	10.7	16.5	22	31
20	38	61	58	27	44	34	49	19.8	8.8	39	18.9	104
21	26	57	53	23	34	34	45	19.8	7.9	110	18.1	394
22	14.2	54	49	23	32	34	41	22	7.5	158	17.3	392
23	33	49	46	23	34	33	39	19.8	7.5	173	15.7	143
24	35	45	43	31	38	32	35	19.8	9.2	186	14.2	110
25	24	43	46	473	34	29	34	19.8	8.8	120	13.0	80
26	18.9	43	44	173	30	27	32	18.1	24	92	11.8	57
27	17.3	43	39	101	30	27	30	27	121	76	12.5	50
28	62	94	37	78	25	25	29	23	269	66	12.5	45
29	58	116	35	67	-	24	27	18.1	101	57	10.7	48
30	a40	85	33	66	-	24	26	15.7	67	61	10.2	45
31	a33	-	33	67	-	27	-	14.2	-	52	9.7	-

a Faulty or no gage-height record; discharge computed on basis of records for Cupsaw Brook near Wanaque.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a38	13.0	21	27	35	128	90	46	11.8	14.9	16.2	1.7
2	34	12.4	19.8	27	31	94	181	43	11.8	9.2	18.2	1.7
3	31	13.0	18.9	27	71	78	147	39	11.2	6.5	4.6	1.6
4	31	13.0	69	25	85	72	122	39	11.2	5.8	4.0	1.6
5	29	13.6	113	24	62	75	106	35	11.2	5.5	3.3	1.5
6	29	13.6	346	112	55	87	115	33	9.2	5.2	2.7	1.4
7	28	14.9	156	85	53	76	160	31	7.5	4.9	2.2	1.3
8	24	14.2	114	67	48	64	124	28	12.3	4.7	2.2	1.8
9	22	18.1	106	57	45	60	110	28	17.3	4.0	a2.2	1.7
10	19.8	17.3	116	53	44	60	99	34	15.7	5.8	1.9	1.6
11	18.1	15.7	88	49	60	53	92	27	16.5	8.2	1.7	1.6
12	18.9	14.9	88	44	53	52	94	24	13.6	a4.4	1.7	1.5
13	14.9	14.2	78	40	48	52	88	21	12.8	a3.5	1.6	1.3
14	14.2	13.6	70	37	49	50	73	19.8	29	a3.3	1.5	1.3
15	14.2	12.4	61	37	72	50	64	20	17.3	2.7	1.3	1.1
16	13.0	11.8	53	34	97	88	60	18.3	13.0	2.1	1.3	.9
17	12.4	13.0	50	33	70	87	55	16.5	10.7	1.9	1.4	.9
18	13.0	14.9	49	32	67	75	76	16.5	9.7	1.8	1.3	.9
19	6.2	15.7	50	30	66	66	130	14.9	8.8	1.7	1.6	.9
20	1.8	25	46	27	68	60	160	14.2	10.2	1.6	6.2	.9
21	20	21	43	28	72	58	108	23	10.2	d1.5	3.3	.9
22	17.2	16.5	39	29	62	55	90	46	7.9	d1.4	2.4	.9
23	13.6	15.7	31	25	52	53	82	33	8.6	d1.3	1.9	.9
24	18.1	17.3	30	24	46	53	78	25	10.7	1.2	a1.8	.9
25	24	81	29	23	44	57	68	21	7.9	2.5	h1.9	.9
26	18.9	18.9	27	17.3	72	57	62	18.1	6.5	1.2	h1.9	.9
27	17.3	19.8	52	18.1	87	57	58	16.5	5.8	22	h1.9	.9
28	16.5	19.8	41	15.7	102	93	57	17.3	5.5	62	a1.5	.9
29	15.7	19.8	32	18.1	-	99	57	17.3	5.5	18.9	1.5	.9
30	14.9	19.8	29	41	-	87	50	14.2	20	9.7	1.5	1.0
31	14.2	-	27	49	-	92	-	13.0	-	6.8	1.7	-

a Computed on basis of partly estimated gage-height record.
d Sluice gate in dam open; discharge interpolated.
h Recorder graph missing; discharge computed on basis of daily staff-gage reading.

Ringwood Creek near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	15.8	2.1	b2.4	6.8	11.2	183	57	136	22	7.2	59
2	h1.4	7.7	2.5	b2.4	6.8	11.2	130	55	134	17.3	6.1	58
3	h1.5	5.2	4.2	b2.4	7.2	11.8	114	58	99	15.7	5.2	38
4	a1.5	4.0	4.0	b2.3	6.8	28	149	57	90	22	4.7	29
5	1.6	10.9	3.5	b2.3	6.8	31	128	50	73	25	4.7	24
6	1.4	30	3.3	b2.3	7.2	29	118	43	60	15.7	4.7	18.9
7	1.3	16.4	3.5	b2.2	8.8	29	106	38	49	13.0	4.9	16.5
8	1.3	10.2	2.9	b2.1	8.8	26	136	34	43	11.8	4.2	14.2
9	1.3	7.5	2.5	b2.1	8.8	26	299	37	39	10.2	3.1	14.2
10	1.2	5.5	2.5	b2.0	9.2	27	156	33	38	9.7	2.7	13.0
11	1.0	5.5	3.5	b2.0	25	26	126	29	35	8.8	2.5	12.4
12	1.0	4.7	3.5	b2.0	15.7	25	134	29	32	15.5	2.4	11.8
13	1.0	4.2	3.5	b2.1	14.9	24	143	31	29	18.1	3.0	10.7
14	1.0	7.0	4.4	7.4	11.2	24	110	26	23	13.0	a2.9	9.7
15	1.0	3.8	3.7	87	b30	229	110	24	21	10.7	a2.8	9.7
16	1.0	3.5	3.5	54	b25	132	104	36	23	9.7	a2.8	9.2
17	.9	3.3	3.5	b37	23	95	92	94	19.8	9.7	a2.8	8.3
18	.9	3.3	3.5	b25	22	90	92	70	17.3	9.2	a2.8	7.9
19	.9	3.3	3.7	b21	16.5	104	85	53	16.5	8.8	a5.0	7.2
20	.9	3.1	8.5	b17	23	118	117	46	13.6	a7.9	a5.0	8.4
21	1.0	2.9	11.2	b15	17.3	122	158	45	11.8	a7.4	3.3	7.5
22	4.6	2.7	8.8	b13	14.9	99	162	44	10.7	a7.0	2.5	7.5
23	2.7	2.7	6.5	b12	14.1	85	134	49	9.7	6.8	3.0	5.5
24	1.8	2.0	4.9	b11	13.6	73	114	45	24	6.1	5.1	4.7
25	1.7	1.1	4.4	b10	13.0	62	101	44	29	5.5	2.9	16.2
26	1.6	1.2	4.0	b9.5	12.4	55	88	46	41	15.3	7.2	20
27	1.5	1.4	3.5	b8.5	11.8	52	80	44	37	25	5.8	11.2
28	2.0	.9	b2.6	b8.0	13.0	70	75	58	22	10.7	43	8.3
29	2.4	1.7	b2.6	7.9	12.4	78	70	53	40	8.3	30	7.2
30	1.9	1.9	b2.6	7.2	-	101	64	48	26	8.0	14.2	6.8
31	10.9	-	b2.6	7.2	-	302	-	131	-	9.2	12.2	-

a No gage-height record; discharge computed on basis of records for other stations in Wanaque River Basin.
b Stage-discharge relation affected by ice.
h Computed on basis of staff-gage reading.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December 27-31, 1934	149	38	23	29.8	1.56	0.29
Calendar year	-	-	-	-	-	-
January 1935	1 318	138	22	42.5	2.23	2.57
February	904.4	57	17.3	32.3	1.69	1.76
March	1 528	66	34	49.3	2.58	2.97
April	1 019	53	21	34.0	1.78	1.99
May	482.2	32	7.2	15.6	.817	.94
June	497.1	76	5.2	16.6	.869	.97
July	445.4	30	7.5	14.4	.754	.87
August	105.5	7.9	1.4	3.40	.178	.21
September	136.0	28	1.3	4.53	.237	.26
Water year	-	-	-	-	-	-
October 1935	80.8	33	1.2	2.61	.137	.16
November	747.5	118	5.2	24.9	1.30	1.45
December	828.4	61	13.7	26.7	1.40	1.61
Calendar year 1935	8 092.3	138	1.2	22.2	1.16	15.76
January 1936	1 586.8	129	16.6	51.2	2.68	3.09
February	617.2	40	14.3	21.3	1.12	1.21
March	4 868	713	32	157	8.22	9.48
April	2 189	253	23	73.0	3.82	4.26
May	582.0	55	6.8	18.8	.984	1.13
June	184.7	24	2.4	6.16	.323	.36
July	57.9	4.4	1.1	1.87	.098	.11
August	52.3	11.4	.3	1.69	.088	.10
September	52.4	6.2	.9	1.75	.092	.10
Water year 1935-36	11 847.0	713	.3	32.4	1.70	23.06

Ringwood Creek near Wanaque--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	197.8	28	1.6	6.38	0.334	0.39
November	171.8	10.7	3.7	5.73	.300	.33
December	1 584.5	348	2.9	51.1	2.68	3.09
Calendar year 1936	12 144.4	713	.3	33.2	1.74	23.65
January 1937	2 337	160	44	75.4	3.95	4.55
February	1 769	410	23	63.2	3.31	3.45
March	1 286	60	25	41.5	2.17	2.50
April	1 767	128	34	58.9	3.08	3.44
May	1 725.9	158	18.9	55.7	2.92	3.37
June	393.3	54	6.8	13.1	.686	.77
July	282.6	34	2.4	9.12	.477	.55
August	405.8	65	1.1	13.1	.686	.79
September	467.9	66	7.2	15.6	.817	.91
Water year 1936-37	12 388.6	410	1.1	33.9	1.77	24.14
October 1937	500.6	62	3.5	16.1	.843	.97
November	1 847.0	266	13.0	61.6	3.23	3.60
December	1 436	87	25	46.3	2.42	2.79
Calendar year 1937	14 218.1	410	1.1	39.0	2.04	27.69
January 1938	1 792	473	22	57.8	3.03	3.49
February	1 140	67	25	40.7	2.13	2.22
March	884	39	21	28.5	1.49	1.72
April	1 123.8	70	19.8	37.5	1.96	2.19
May	668.4	72	13.0	21.6	1.13	1.30
June	871.0	269	7.5	29.0	1.52	1.70
July	1 651.9	186	14.2	53.3	2.79	3.22
August	814.6	61	9.7	26.3	1.38	1.59
September	1 654.8	394	4.7	55.2	2.89	3.22
Water year 1937-38	14 384.1	473	3.5	39.4	2.06	28.01
October 1938	602.9	38	1.8	19.4	1.02	1.18
November	543.9	81	11.8	18.1	.948	1.06
December	2 092.7	346	18.9	67.5	3.53	4.07
Calendar year 1938	13 840.0	473	1.8	37.9	1.98	26.96
January 1939	1 155.2	112	15.7	37.3	1.95	2.25
February	1 716	102	31	61.3	3.21	3.34
March	2 188	128	50	70.6	3.70	4.27
April	2 856	181	50	95.2	4.98	5.56
May	792.6	46	13.0	25.6	1.34	1.54
June	349.4	29	5.5	11.6	.607	.68
July	226.2	62	1.2	7.30	.382	.44
August	98.4	18.2	1.3	3.17	.166	.19
September	36.3	1.8	.9	1.21	.063	.07
Water year 1938-39	12 657.6	346	.9	34.7	1.82	24.65
October 1939	55.6	10.9	.9	1.79	.094	.11
November	173.4	30	.9	5.78	.303	.34
December	126.0	11.2	2.1	4.06	.213	.25
Calendar year 1939	9 773.1	181	.9	26.8	1.40	19.04
January 1940	386.3	87	2.0	12.5	.654	.75
February	406.0	30	6.8	14.0	.733	.79
March	2 196.2	302	11.2	70.8	3.71	4.28
April	3 678	299	64	123	6.44	7.18
May	1 507	131	24	48.6	2.54	2.93
June	1 242.4	136	9.7	41.4	2.17	2.42
July	383.1	25	5.5	12.4	.649	.75
August	208.7	43	2.4	6.73	.352	.41
September	475.0	59	4.7	15.8	.827	.92
Water year 1939-40	10 837.7	302	.9	29.6	1.55	21.13

Cupsaw Brook near Wanaque

Location.- Water-stage recorder and concrete control, lat. 41°06'32", long. 74°15'16", just upstream from Wanaque Reservoir and 5 miles north of Wanaque, Passaic County. Datum of gage is 304.52 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 4.38 square miles.

Records available.- December 1934 to September 1940.

Average discharge.- 5 years, 8.33 second-feet.

Extremes.- 1934-40: Maximum discharge, 536 second-feet Mar. 11, 1936 (gage height, 2.94 feet), from rating curve extended above 200 second-feet; no flow (result of regulation) July 16, 1936.

Remarks.- Flow slightly regulated by Cupsaw Lake.

Cooperation.- Water-stage recorder graph furnished by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	10.6	4.7	8.1	a7	a4	1.22	3.9	0.73	0.82
2			-	11.0	b4.5	8.6	a6	a3.5	.45	2.0	1.03	.63
3			-	8.1	b4.3	11.6	a6	a3.5	.45	1.03	.63	.63
4			-	6.6	4.7	11.6	a5	a5	.45	.82	.45	1.03
5			-	5.2	b4.0	11.0	a5	a4.5	.82	.63	.45	.82
6			-	5.2	b3.4	a17	a5	a5	1.03	.63	.35	1.95
7			-	8.1	2.9	a16	a5	a7	.82	3.6	.35	1.74
8			-	11.0	2.9	a12	a5	a6.5	1.03	4.7	.35	1.03
9			-	11.9	3.2	a10	a10	a5.8	4.4	4.7	.35	1.89
10			-	41	3.6	a10	all	a5	2.9	4.7	.35	2.9
11			-	22	3.6	a14	a9	a5	1.49	2.9	.35	1.49
12			-	14.8	3.2	a18.5	a10	a4.5	1.03	1.74	.35	.82
13			-	11.6	2.6	a18	a12	a4	.82	1.49	.35	.63
14			-	a9.8	2.9	a13.6	all	a3.5	.63	1.03	.35	.63
15			-	8.6	13.5	all	a9	a3	.63	.63	.35	.82
16			-	8.1	14.8	a13	a8	a2.5	.63	5.3	.35	1.03
17			-	a8.1	a17	a15	a8	a2.5	.79	2.6	.35	.45
18			-	7.6	14.1	all	a7	a2	15.5	1.49	.35	.45
19			-	a7.4	11.6	a10.5	a6	a2	7.2	1.25	.35	.45
20			-	a8.0	9.8	a10	a6	a1.5	8.6	2.0	.35	.45
21			-	a8.8	7.6	a12	a5	a1.5	4.3	1.49	.35	.63
22			-	a10.0	7.1	a10	a5	a1.5	3.2	1.25	.45	.63
23			-	a8.0	7.1	a9	a5	a1.5	2.3	1.03	.63	.63
24			-	a7.0	6.6	a8	a5	a1.5	1.49	1.74	.82	.45
25			-	a6.4	8.5	a7	a4	a1.0	1.25	2.3	.82	.45
26			-	a6.0	17.8	a6	a4	a.82	.82	3.2	.82	.45
27			9.8	a5.7	16.2	a6	a4	.82	1.38	1.49	.82	.45
28			7.6	a5.4	10.4	a8	a4	.82	3.9	.82	.82	.63
29			7.6	a5.2		a12	a4	.63	3.7	.82	.82	.63
30			7.1	a5.0	-	a8	a5	.82	7.1	.45	.82	.63
31			5.6	4.7	-	a7	-	.63	-	.35	.82	-

a No gage-height record; discharge computed on basis of records for other stations in Wanaque River Basin.

b Stage-discharge relation affected by ice.

Cupsaw Brook near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.63	5.9	12.2	2.1	4.2	7.4	9.5	4.2	0.45	0.45	0.45	0.45
2	.63	6.7	10.4	2.3	3.9	6.9	10.1	3.9	.45	.45	.45	.62
3	.63	4.4	8.1	59	3.5	6.9	13.1	5.1	.63	.45	.45	.63
4	.45	2.4	7.1	30	3.9	8.0	10.1	18.9	1.03	.45	.45	.63
5	.45	2.0	5.2	17.3	3.9	10.7	8.4	10.7	1.03	.45	.45	.45
6	.45	1.74	4.3	12.5	3.5	10.1	83	6.9	.63	.45	.63	.63
7	.45	1.49	3.9	11.3	3.5	8.4	45	5.5	.63	.45	.45	.63
8	.45	1.74	3.9	10.1	3.2	7.9	27	5.0	.45	.45	.45	.45
9	.45	1.49	4.7	16.9	3.5	7.9	20	4.6	.45	.35	.45	.35
10	.45	1.49	4.7	26	3.5	18.3	25	3.5	.45	.35	.45	.45
11	.45	1.25	4.7	16.5	3.5	212	22	2.9	.45	.63	.45	.45
12	.45	1.49	4.3	13.8	3.2	242	20	2.6	.63	.45	.45	.45
13	.45	3.6	3.6	12.5	3.2	84	24	2.9	2.9	.45	.45	.45
14	.45	11.0	3.2	11.9	6.1	44	22	4.6	10.4	.35	.45	.45
15	.45	5.6	3.8	14.3	5.5	33	17.3	2.9	6.8	.35	.45	.63
16	.45	3.9	7.8	28	4.2	27	15.8	2.3	3.2	.25	.45	.63
17	.45	7.1	5.9	16.5	3.9	27	13.8	1.74	1.49	.36	.45	.45
18	.63	7.6	4.6	13.8	5.5	106	11.3	2.2	2.0	.55	.45	1.19
19	.63	7.6	3.9	15.1	4.7	88	10.1	4.7	2.6	.55	.45	.97
20	.63	10.0	3.9	15.1	3.9	49	8.9	4.3	2.0	.50	.45	.63
21	.63	11.6	3.5	12.5	3.5	62	8.4	2.6	4.5	.45	.45	.63
22	.63	9.8	2.9	10.1	3.2	39	7.9	1.74	2.0	.35	.45	.63
23	.63	9.2	2.6	8.9	2.9	26	6.9	1.49	1.03	.45	1.39	.63
24	.63	6.5	2.6	7.4	2.6	21	6.4	1.25	1.03	.63	.82	.63
25	.63	5.6	2.3	6.9	2.9	18.1	5.0	1.25	.63	.45	.63	.63
26	.63	5.2	2.3	5.9	5.9	15.8	5.5	.82	.45	.45	.63	.63
27	.63	4.7	2.3	5.9	10.4	17.9	5.0	1.03	.45	.45	.63	.63
28	.63	8.3	2.3	5.5	11.9	24	4.6	1.25	.45	.45	.63	.45
29	.45	37	2.1	5.0	8.4	16.5	4.2	.63	.45	.45	.63	.63
30	1.06	17.8	2.3	4.6	-	13.1	4.2	.63	.45	.35	.63	.63
31	4.4	-	2.3	4.2	-	11.3	-	.63	-	.35	.45	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	0.82	1.03	15.5	1.49	10.4	7.6	14.1	2.3	10.4	0.63	1.74
2	2.6	.63	3.0	11.6	1.25	9.8	7.1	12.2	2.0	4.3	.63	1.03
3	1.49	.82	8.1	26	1.03	9.2	7.1	11.0	1.49	2.6	.63	.82
4	1.03	2.3	5.2	19.4	1.03	8.6	6.6	9.8	1.74	2.0	.63	a.82
5	.82	3.9	3.2	13.5	1.03	9.2	6.6	8.6	1.49	1.49	.45	a5.0
6	.63	2.6	4.1	11.0	1.03	8.6	43	11.2	1.49	1.03	.45	4.7
7	.63	2.0	17.0	13.4	1.03	7.6	25	20	1.49	.82	.45	2.3
8	.63	2.0	9.2	28	1.03	7.1	16.2	12.8	1.25	.82	.45	1.74
9	.63	2.6	6.1	14.8	1.03	8.1	16.2	10.4	1.03	.63	.63	1.03
10	.63	2.3	5.6	52	1.03	7.1	16.2	8.6	.82	.63	.82	.82
11	.63	1.49	11.6	81	1.03	5.6	12.2	7.1	1.03	.63	.82	.63
12	.82	1.49	19.4	48	.82	5.2	10.4	6.1	.82	.63	13.3	.63
13	.82	1.49	11.6	11.9	.63	5.2	9.2	6.4	.63	.63	7.4	24
14	.82	1.25	8.1	6.6	1.03	5.2	8.6	23	.63	.63	3.6	31
15	.63	1.49	7.1	8.1	1.03	7.1	9.8	57	.82	3.7	2.0	9.8
16	.63	2.3	6.1	8.1	1.03	10.4	10.4	26	.82	7.6	1.49	5.6
17	16.3	.82	19.3	8.1	1.03	7.6	8.1	19.4	.63	3.9	1.03	3.9
18	9.4	2.0	12.2	28	.82	6.6	7.6	16.2	.63	2.3	1.03	2.9
19	3.5	.82	9.0	46	1.25	7.1	7.1	13.5	1.74	1.49	1.03	2.3
20	2.0	.63	130	46	3.6	9.2	6.1	11.6	1.49	.82	1.03	1.74
21	1.49	.63	44	37	7.3	19.4	8.8	9.8	2.1	.63	.82	1.25
22	1.49	1.03	24	37	165	19.4	31	8.6	17.6	.63	1.32	1.03
23	1.74	1.25	15.5	37	48	16.2	24	7.6	6.6	.63	18.5	1.03
24	1.49	1.49	12.8	37	29	14.1	14.8	6.6	3.2	.63	10.4	1.03
25	.82	1.49	11.6	37	22	15.5	12.2	5.2	2.0	.63	4.7	1.03
26	1.25	1.74	10.4	37	17.8	16.2	10.4	4.7	1.49	.63	3.2	1.25
27	1.49	1.74	9.2	37	14.8	12.2	26	4.3	1.25	.63	8.0	1.03
28	.63	1.49	8.6	19.9	11.6	10.4	35	3.9	1.03	.63	7.7	1.03
29	.63	1.49	7.1	4.2	-	9.2	24	3.9	1.25	.63	3.6	.82
30	1.25	1.25	7.1	1.25	-	8.1	17.0	3.2	1.76	.63	2.6	.63
31	1.03	-	11.6	1.49	-	7.6	-	2.6	-	.63	2.3	-

a No gage-height record; discharge computed on basis of records for other stations in Wanaque River Basin.

Cupsaw Brook near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.63	6.1	17.0	7.6	12.8	3.6	7.6	3.9	1.56	7.4	4.2	0.65
2	1.03	5.6	14.1	7.1	9.8	3.9	6.6	3.2	1.34	6.4	4.6	.63
3	.82	5.2	11.6	7.1	9.3	4.3	5.2	2.9	2.3	4.6	3.5	.57
4	.63	4.3	10.4	5.6	12.2	2.9	4.7	2.6	2.3	3.2	2.9	.61
5	a.82	3.9	9.2	5.2	9.2	4.8	3.9	2.3	2.1	2.6	2.6	.71
6	a2.3	3.9	14.8	4.7	8.7	8.1	3.6	2.6	1.56	2.1	7.1	.57
7	a2.0	3.2	17.0	21	18.6	6.6	3.9	2.3	1.34	1.56	8.5	.57
8	1.49	3.2	11.0	18.8	12.2	5.2	5.5	1.81	3.2	1.13	4.6	1.03
9	.82	a3.2	9.2	11.0	9.8	4.7	18.6	2.0	2.3	1.13	3.9	.60
10	1.03	a3.6	7.1	8.6	9.8	4.3	a21	2.3	1.34	1.13	2.9	.57
11	.82	a3.2	6.1	7.6	8.1	3.6	a12.8	2.3	2.6	1.13	13.0	.57
12	.82	2.3	5.2	7.1	7.1	3.6	a12.2	1.81	3.6	3.7	6.5	.57
13	1.03	105	4.7	7.1	9.3	4.3	10.4	1.56	4.2	6.2	3.2	.57
14	.63	82	3.9	6.6	10.4	6.4	9.2	2.0	2.9	2.6	2.3	.57
15	.82	32	3.9	6.1	8.1	8.1	8.6	31	2.1	2.3	1.81	.61
16	.82	22	7.0	5.2	6.1	8.0	7.6	13.8	1.34	1.81	1.56	.57
17	.63	17.0	11.7	5.2	5.6	11.6	6.6	6.9	1.13	1.34	1.81	.57
18	.63	12.8	27	4.7	5.6	10.4	8.6	4.6	3.2	1.34	1.81	.59
19	1.56	11.0	17.0	3.9	6.6	8.6	a17.8	3.5	2.6	1.80	2.0	8.1
20	14.5	11.0	11.6	3.9	11.6	7.6	a11.6	3.5	1.56	18.6	1.13	47
21	8.1	11.6	9.8	3.9	8.1	7.1	10.4	3.5	.94	39	.94	148
22	4.3	9.2	8.6	4.7	6.6	6.6	9.8	4.2	.76	45	.94	75
23	12.1	7.6	8.1	4.7	7.6	6.1	8.6	3.9	.76	53	.66	26
24	11.4	6.6	7.6	8.5	9.8	5.6	6.6	3.5	.76	53	1.01	15.1
25	6.1	6.1	10.4	176	7.6	5.2	6.6	3.9	.67	24	.66	10.1
26	4.7	6.1	9.8	76	6.1	4.7	6.1	3.6	7.3	15.8	.57	7.4
27	3.9	5.6	7.6	33	5.6	4.7	5.2	7.4	36	11.3	.57	5.9
28	28	47	7.1	22	5.2	3.9	5.2	5.0	62	8.9	.62	4.6
29	20	47	6.6	15.5	-	3.9	4.7	3.5	22	6.9	.57	3.9
30	11.0	24	6.1	12.2	-	3.9	3.9	2.3	11.3	6.9	.57	3.5
31	8.1	-	5.6	12.8	-	5.2	-	1.81	-	5.0	.60	-

a Partly missing gage-height record; discharge computed on basis of available recorder graph and records for other stations in Wanaque River Basin.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.1	2.8	4.2	4.2	11.5	40	17.6	8.9	1.4	3.2	1.4	0.3
2	2.8	2.8	4.2	4.2	17.6	24	59	7.8	1.0	1.7	.8	.3
3	2.5	2.8	4.2	4.2	18.3	18.3	33	7.2	.9	.8	.5	.3
4	2.2	2.8	5.4	3.8	18.3	16.3	23	5.4	1.0	.6	.4	.3
5	2.2	2.8	18.3	3.8	18.3	19.0	18.3	5.4	1.0	.6	.5	.3
6	2.8	3.1	24	5.9	18.3	25	28	5.4	1.4	.6	.3	.3
7	4.6	3.1	29	10.6	18.3	19.0	42	5.0	.7	.6	.3	.3
8	3.1	3.4	26	15.6	17.6	14.2	25	4.6	.6	.6	.3	.5
9	2.8	4.2	23	17.6	17.6	13.5	19.8	6.5	.7	.6	.3	.4
10	2.5	4.6	30	19.8	7.7	13.5	17.0	13.9	.6	.6	.3	.3
11	2.5	3.8	24	19.8	1.4	11.5	16.3	7.8	.7	.3	.3	.3
12	2.5	3.4	33	19.8	1.2	13.5	21	5.0	.8	.3	.3	.3
13	2.2	3.1	39	19.8	1.2	13.5	15.6	4.2	1.0	.3	.3	.3
14	2.2	3.1	36	19.8	1.2	11.5	12.8	4.2	6.8	.3	.3	.3
15	1.9	16.2	38	19.8	2.2	12.4	12.2	3.8	3.0	.3	.3	.3
16	1.9	31	37	19.8	3.4	31	10.8	3.4	1.9	.3	.3	.3
17	3.4	38	28	8.2	14.9	25	10.3	3.1	1.3	.3	.3	.3
18	3.1	48	18.3	.6	17.0	17.6	24	3.1	.9	.3	.3	.3
19	2.5	36	18.3	.6	17.0	13.5	46	2.5	.6	.3	.4	.3
20	3.2	21	17.6	.6	18.3	12.8	54	2.5	.7	.3	.8	.3
21	12.8	21	17.6	.6	17.6	12.2	28	2.5	.6	.3	.6	.3
22	7.8	14.4	17.6	.6	14.9	12.2	22	6.2	.6	.3	.5	.3
23	5.0	6.7	15.6	.6	11.5	12.2	18.3	7.8	.9	.3	.3	.3
24	4.6	3.8	15.6	.6	10.2	12.8	15.6	5.8	1.3	.3	.6	.3
25	8.3	4.2	11.4	.6	8.9	15.6	14.2	4.2	1.3	.3	1.5	.3
26	6.3	4.2	7.8	.6	23	13.5	12.8	3.4	.8	.3	1.2	.3
27	4.6	4.2	6.6	.6	28	12.2	12.2	2.8	.6	7.6	.7	.3
28	4.6	4.2	4.2	.6	36	26	14.2	2.5	.6	32	.4	.3
29	3.8	4.2	4.2	.6	-	21	12.2	2.5	.6	9.0	.5	.3
30	3.8	4.2	4.2	1.5	-	21	10.2	2.5	4.5	3.6	1.0	.3
31	3.1	-	4.2	1.0	-	22	-	1.9	-	2.3	.5	-

Cupsaw Brook near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	2.2	1.0	b0.9	1.2	3.0	48	9.7	46	4.1	1.0	21
2	.4	2.3	1.2	b.9	1.2	2.6	30	9.7	46	3.0	1.2	13.4
3	.5	2.3	1.2	b.9	1.0	3.1	24	10.9	27	2.3	1.0	5.9
4	.4	1.2	1.2	b.9	1.0	12.5	32	11.6	18.9	3.8	1.0	3.0
5	.3	8.0	1.2	b.9	1.0	13.6	24	9.7	15.0	6.4	1.0	2.3
6	.3	18.9	1.2	b.9	1.2	11.6	18.0	8.0	11.6	3.7	1.0	a1.5
7	.3	18.0	1.2	b.9	1.2	8.6	15.0	7.5	8.6	2.3	1.0	a.9
8	.3	18.0	1.0	b.8	1.5	7.5	46	6.4	6.9	1.7	1.0	a.6
9	.3	18.0	1.2	b.8	1.5	6.9	84	8.0	6.4	1.2	1.0	a.5
10	.3	17.2	1.3	b.8	1.9	6.9	37	7.5	6.4	1.2	1.0	a.5
11	.3	9.7	1.6	b.8	7.1	6.4	26	6.4	5.9	1.0	1.0	a.4
12	.3	5.9	1.5	b.8	5.5	5.5	35	6.4	5.5	3.1	.6	.4
13	.3	2.8	1.5	.8	4.1	5.0	46	5.5	4.6	3.7	.5	.4
14	.3	1.0	1.5	2.3	5.0	5.8	31	5.0	3.3	2.0	.3	.3
15	.3	1.0	1.5	2.4	6.8	95	25	4.6	3.0	1.2	.3	.3
16	.4	1.0	1.5	7.3	4.6	44	21	11.6	4.6	1.2	.3	.4
17	.4	1.0	1.5	7.5	5.0	26	18.0	38	3.0	1.2	.3	.3
18	.4	1.0	1.5	5.9	3.7	22	18.9	18.0	2.3	1.2	.3	.3
19	.4	1.0	1.5	5.0	4.9	33	17.2	12.2	2.3	1.0	.4	.3
20	.4	1.0	1.2	3.7	9.7	43	36	10.3	2.0	1.0	.3	.3
21	.6	1.0	1.0	3.6	8.6	41	53	9.7	1.5	1.0	.3	.3
22	.9	1.0	1.0	2.6	5.9	29	45	9.7	1.2	1.0	.3	.4
23	.5	1.0	1.0	2.4	4.6	20	31	10.9	1.0	1.0	.3	.3
24	.5	1.0	1.0	2.1	4.1	15.0	24	9.7	5.9	1.0	.3	.3
25	.5	1.0	1.0	2.0	3.7	12.2	19.8	10.3	9.1	1.0	.3	3.0
26	.5	1.0	1.0	1.8	3.3	10.9	16.4	11.6	12.2	1.2	.5	3.8
27	.5	1.0	1.0	1.6	3.3	12.2	14.3	10.3	11.4	1.2	.3	1.5
28	.7	1.0	1.0	1.5	3.0	24	12.2	15.7	5.9	1.0	3.8	1.0
29	.7	1.0	1.0	1.5	3.0	27	10.9	13.6	10.9	1.0	7.8	.9
30	.7	1.0	1.0	1.4	-	35	9.7	9.7	5.9	1.5	3.7	.8
31	1.2	-	1.0	1.2	-	91	-	131	-	1.2	2.8	-

a No gage-height record; discharge computed on basis of records for other stations in Wanaque River Basin.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December 27-31, 1934	37.7	9.8	5.6	7.54	1.72	0.32
Calendar year	-	-	-	-	-	-
January 1935	296.9	41	4.7	9.58	2.19	2.52
February	212.6	17.8	2.6	7.59	1.73	1.80
March	343.5	18.5	6	11.1	2.53	2.92
April	196	12	4	6.5	1.48	1.65
May	91.84	7	.63	2.96	.676	.78
June	80.33	15.5	.45	2.68	.612	.68
July	62.08	5.3	.35	2.00	.457	.53
August	16.53	1.03	.35	.533	.122	.14
September	26.24	2.9	.45	.875	.200	.22
Water year	-	-	-	-	-	-
October 1935	21.03	4.4	.45	.678	.155	.18
November	204.19	37	1.25	6.81	1.55	1.73
December	137.7	12.2	2.1	4.44	1.01	1.16
Calendar year 1935	1 688.94	41	.35	4.63	1.06	14.31
January 1936	421.9	59	2.1	13.6	3.11	3.58
February	132.0	11.9	2.6	4.55	1.04	1.12
March	1 269.2	242	6.9	40.9	9.34	10.77
April	474.5	83	4.2	15.8	3.61	4.03
May	112.76	18.9	.63	3.64	.831	.96
June	50.11	10.4	.45	1.67	.381	.43
July	13.57	.63	.25	.438	.100	.12
August	16.52	1.39	.45	.533	.122	.14
September	17.71	1.19	.35	.590	.135	.15
Water year 1935-36	2 871.19	242	.25	7.84	1.79	24.37

Cupsaw Brook near Wanaque--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	60.65	16.3	0.63	1.96	0.447	0.52
November	47.35	3.9	.63	1.58	.361	.40
December	458.83	130	1.03	14.8	3.38	3.90
Calendar year 1936	3 075.10	242	.25	8.40	1.92	26.12
January 1937	782.84	81	1.25	25.3	5.78	6.66
February	338.75	165	.63	12.1	2.76	2.87
March	303.2	19.4	5.2	9.78	2.23	2.57
April	444.3	43	6.1	14.8	3.38	3.77
May	365.4	57	2.6	11.8	2.69	3.10
June	62.62	17.6	.63	2.09	.477	.53
July	53.98	10.4	.63	1.74	.397	.46
August	101.64	18.5	.45	3.28	.749	.86
September	112.63	31	.63	3.75	.856	.96
Water year 1936-37	3 132.19	165	.45	8.58	1.96	26.60
October 1937	151.53	28	.63	4.89	1.12	1.29
November	511.3	105	2.3	17.0	3.88	4.33
December	306.8	27	3.9	9.90	2.26	2.61
Calendar year 1937	3 534.99	165	.45	9.68	2.21	30.01
January 1938	523.4	176	3.9	16.9	3.86	4.45
February	247.5	18.6	5.2	8.84	2.02	2.10
March	177.5	11.6	2.9	5.73	1.31	1.51
April	253.1	21	3.6	8.44	1.93	2.15
May	139.49	31	1.56	4.50	1.03	1.19
June	187.06	62	.67	6.24	1.42	1.58
July	340.87	53	1.13	11.0	2.51	2.89
August	87.63	13.0	.57	2.83	.646	.74
September	365.73	148	.57	12.2	2.79	3.11
Water year 1937-38	3 291.91	176	.57	9.02	2.06	27.95
October 1938	118.7	12.8	1.9	3.83	.874	1.01
November	307.1	48	2.8	10.2	2.33	2.60
December	568.5	39	4.2	18.3	4.18	4.82
Calendar year 1938	3 316.58	176	.57	9.09	2.08	28.15
January 1939	226.4	19.8	.6	7.30	1.67	1.92
February	391.4	36	1.2	14.0	3.20	3.33
March	545.8	40	6.4	17.6	4.02	4.64
April	665.4	59	10.2	22.2	5.07	5.66
May	151.8	13.9	1.9	4.90	1.12	1.29
June	38.8	6.8	.6	1.29	.295	.34
July	69.2	32	.3	2.23	.509	.59
August	16.5	1.5	.3	.53	.121	.14
September	9.3	.5	.3	.31	.071	.08
Water year 1938-39	3 108.9	59	.3	8.52	1.95	26.42
October 1939	14.3	1.2	.3	.46	.105	.12
November	141.5	18.9	1.0	4.72	1.08	1.20
December	37.5	1.6	1.0	1.21	.276	.32
Calendar year 1939	2 307.9	59	.3	6.32	1.44	19.63
January 1940	66.9	7.5	.8	2.16	.493	.57
February	108.6	9.7	1.0	3.74	.854	.92
March	679.3	95	2.6	21.9	5.00	5.76
April	868.4	84	9.7	28.9	6.60	7.36
May	449.2	131	4.6	14.5	3.31	3.82
June	294.3	46	1.0	9.81	2.24	2.50
July	58.4	6.4	1.0	1.88	.429	.49
August	34.9	7.8	.3	1.13	.258	.30
September	65.3	21	.3	2.18	.498	.56
Water year 1939-40	2 818.6	131	.3	7.70	1.76	23.92

Erskine Brook near Wanaque

Location.- Water-stage recorder and concrete control, lat. 41°05'26", long. 74°15'59", just upstream from Wanaque Reservoir, 3½ miles north of Wanaque, Passaic County. Datum of gage is 308.95 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 1.14 square miles.

Records available.- December 1934 to December 1938 (discontinued).

Extremes.- 1934-38: Maximum discharge, 73 second-feet Mar. 12, 1936 (gage height, 0.83 foot); no flow frequently.

Remarks.- Flow regulated by Lake Erskine.

Cooperation.- Water-stage recorder graph furnished by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1934-38

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	b3.0	b1.1	2.4	1.46	0.69	0.38	1.87	0.24	a0.15
2			-	b2.7	b1.1	2.1	1.27	.42	.38	.98	.38	a.15
3			-	2.1	1.10	2.1	1.10	.36	.38	.61	.24	a.15
4			-	b1.9	1.10	1.88	1.10	.96	.38	.22	.24	a.25
5			-	b1.7	1.10	1.88	1.10	1.10	.38	.18	.24	.25
6			-	1.66	b1.1	1.88	1.10	1.27	.38	.18	.20	.33
7			-	1.66	b1.1	1.88	1.10	1.66	.38	.92	.20	.18
8			-	1.66	1.10	2.1	1.10	1.88	.38	1.12	.20	.18
9			-	1.88	1.10	2.1	1.88	1.46	1.01	1.39	.19	.33
10			-	3.7	1.10	2.1	2.4	1.27	.84	1.87	.19	.76
11			-	3.4	1.10	2.1	2.1	1.27	.68	1.61	.19	.53
12			-	2.7	1.10	2.1	2.1	1.10	.53	1.19	.19	.38
13			-	2.4	1.10	2.7	2.4	.94	.31	.84	.18	.38
14			-	2.1	1.27	4.8	2.4	.94	.14	.68	.18	.24
15			-	1.88	2.1	5.8	2.1	.79	.18	.36	.17	.24
16			-	1.66	2.1	3.4	1.88	.45	.18	1.61	.15	.24
17			-	1.88	3.0	2.7	1.66	.37	.18	1.19	.15	.20
18			-	1.88	3.0	2.1	1.46	.34	1.53	.84	a.15	.24
19			-	1.88	2.7	1.88	1.46	.18	1.39	.68	a.15	.24
20			-	1.88	2.4	1.88	1.27	.11	1.61	.53	a.15	.24
21			-	2.1	2.1	2.4	1.27	.30	1.19	.53	a.15	.24
22			-	2.1	1.88	2.1	1.10	.38	1.01	.17	a.15	.24
23			-	2.1	1.88	1.88	1.10	.38	.84	.18	a.15	.20
24			-	b1.8	2.1	1.66	.94	.53	.68	.33	a.15	.20
25			-	b1.6	2.1	1.46	.94	.53	.19	.48	a.15	.20
26			-	b1.4	2.4	1.27	.94	.38	.18	.64	a.15	.19
27			3.4	b1.3	2.7	1.27	.79	.38	.46	.60	a.15	.19
28			3.0	b1.3	2.4	1.66	.64	.38	.53	.38	a.15	.19
29			2.4	1.27	-	2.4	.64	.38	.68	.38	a.15	.20
30			b2.1	b1.2	-	1.88	.94	.38	1.39	.24	a.15	.20
31			b1.8	b1.2	-	1.66	-	.38	-	.24	a.15	-

a No gage-height record; discharge computed on basis of records for Cupsaw Brook near Wanaque.
b Stage-discharge relation affected by ice.

Erskine Brook near Wanaque--Continued

Daily discharge, in second-feet, 1934-38--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.20	0.53	1.87	b0.40	b1.2	1.53	2.7	0.44	0.18	0.46	a0.08	0.12
2	.20	1.01	1.61	b.40	b1.0	1.73	2.7	.44	.18	.22	a.08	.17
3	.20	.84	1.39	5.2	b.90	1.73	3.0	.59	.18	.18	a.08	.13
4	.19	.84	1.19	1.59	b.90	1.73	2.4	4.5	.18	.18	a.08	.13
5	.19	.84	1.01	1.59	b.90	1.95	2.4	4.0	.18	.18	a.08	.13
6	.18	.84	.84	1.39	b.75	1.95	12.9	.59	.18	.18	a.08	.13
7	.18	.68	.84	1.59	b.75	1.95	15.6	.59	.18	.18	a.08	.13
8	.17	.68	.84	1.59	b.75	1.95	12.4	.44	.18	.26	a.08	.13
9	.16	.53	.84	2.1	b.75	1.73	9.2	.33	.18	.15	a.08	.13
10	.16	.53	1.01	2.6	b.75	2.4	8.4	.31	.18	.13	a.08	a.13
11	.16	.38	1.01	2.6	b.75	9.8	6.6	.31	.18	.12	a.08	a.12
12	.17	.53	.99	2.3	b.75	46	1.34	.31	.18	.13	a.08	a.12
13	.17	.68	.97	2.1	b.75	24	1.34	.31	.48	.13	a.08	a.11
14	.18	1.39	1.04	2.1	b2.3	9.0	2.4	.31	.48	.12	a.08	a.11
15	.18	1.19	1.04	9.8	b2.1	4.5	2.8	.31	.46	.11	a.08	a.10
16	.18	1.01	1.59	8.6	b1.6	4.5	5.8	.20	.31	.10	a.08	a.10
17	.17	2.3	1.39	6.6	b1.4	5.4	11.0	.14	.14	a.08	a.08	a.09
18	.17	3.1	1.21	5.2	2.1	15.3	4.6	.17	.41	a.08	a.08	.20
19	.18	1.87	1.04	b6.6	b1.8	16.6	1.01	.48	.61	.13	a.08	.81
20	.18	1.61	1.04	6.6	b1.55	11.6	1.01	.33	.46	.12	a.08	.61
21	.18	1.39	b.90	4.8	b1.45	12.4	.71	.33	1.12	.11	a.08	.61
22	.19	1.19	b.80	4.0	1.34	8.8	.71	.18	.94	.10	a.08	.46
23	a.18	1.19	b.70	b3.5	b1.20	7.2	.44	.18	.77	.09	.29	.31
24	a.18	1.19	b.70	b3.0	b1.10	5.8	.44	.18	.61	.11	.72	.18
25	a.18	1.01	b.60	b2.5	1.01	4.5	.44	.18	.61	.11	.46	.15
26	a.18	1.01	b.50	b2.0	1.01	3.7	.44	.18	.46	.10	.13	.18
27	a.18	.84	b.40	b2.0	1.53	4.5	.44	.18	.31	.09	.18	.18
28	.16	.84	b.40	b1.8	1.73	5.8	2.8	.18	.31	.09	.04	.02
29	.17	3.8	.36	b1.6	1.73	5.0	3.6	.18	.77	.09	.33	.02
30	.40	2.7	b.40	b1.4	-	4.1	.59	.18	.61	a.08	.48	.04
31	.84	-	b.40	b1.2	-	3.4	-	.18	-	a.08	.18	-

a No gage-height record; discharge computed on basis of records for other stations in Wanaque River Basin.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.49	0.33	d0.18	3.0	14.7	1.54	0.61	2.7	0.94	2.0	0.19	1.21
2	1.12	.33	d.30	3.0	13.3	1.32	.61	2.4	.94	1.19	.18	.16
3	.77	.33	1.53	4.5	12.6	1.32	.61	2.1	.79	.84	.15	.12
4	.61	.33	1.32	3.7	11.2	1.32	.61	2.1	.66	.68	a.1	.15
5	.46	.82	1.12	3.0	6.3	1.32	.77	1.88	.37	.38	a.1	.72
6	.15	.77	1.32	2.3	3.7	1.32	2.4	2.6	.39	.19	a.1	.68
7	.33	.61	2.3	2.6	2.3	1.12	2.3	3.7	.53	.08	a.1	.38
8	.33	.61	1.54	3.0	1.80	1.12	1.80	3.0	.53	.04	a.1	.09
9	.33	.94	1.32	2.6	1.54	1.32	1.54	3.4	.19	.04	a.1	.04
10	.48	.77	1.32	2.6	1.54	1.32	1.54	2.1	.15	.04	a.1	.04
11	.48	.29	2.0	3.0	1.32	1.12	1.12	1.66	.20	.04	.50	.04
12	.33	.15	2.6	2.3	1.12	.94	.94	1.46	.15	.18	2.1	.04
13	.33	.33	2.0	1.8	.94	.94	.94	1.61	.18	.33	1.39	2.3
14	.18	.33	1.80	1.8	1.32	.94	.77	4.2	.18	.18	.68	3.6
15	.33	.33	1.54	3.0	1.32	1.54	1.12	8.2	.18	1.20	.34	1.66
16	.33	.48	1.54	3.3	1.32	2.6	1.12	5.8	.18	1.61	.08	.99
17	3.0	.33	3.0	3.3	1.12	1.80	1.12	4.1	.18	1.39	.04	.81
18	2.0	.33	2.6	5.4	1.12	1.54	.94	3.0	.30	.84	.18	.48
19	1.32	.33	2.0	4.1	.94	1.32	.77	2.7	.64	.43	.18	.33
20	.94	.33	15.1	3.7	.94	1.54	.77	2.1	.64	.16	.04	.11
21	.94	.33	9.4	4.9	1.71	2.3	1.59	1.88	1.56	.18	.05	a.1
22	.77	.18	5.8	5.4	12.8	2.0	4.9	1.88	4.4	.04	.42	a.1
23	.61	.18	3.7	5.8	6.8	1.54	4.1	1.66	2.4	.04	3.5	a.1
24	.27	.18	3.0	5.8	4.1	1.32	3.0	1.46	1.19	.12	1.87	a.1
25	.48	.18	2.6	7.8	3.0	1.54	2.4	1.46	.84	.19	1.01	a.1
26	.48	.18	2.3	6.3	2.3	1.32	2.4	1.27	.68	.23	.84	a.1
27	.48	d.18	2.0	4.9	1.80	1.12	4.4	1.27	.42	.31	1.01	a.1
28	.48	d.18	1.80	4.1	1.54	.94	5.3	1.46	.33	.19	1.01	a.1
29	.48	d.18	1.54	6.3	-	.77	4.5	1.46	.48	.18	.68	a.1
30	.33	d.18	1.32	7.8	-	.77	3.4	1.27	.75	.16	.68	a.1
31	.33	-	2.0	12.6	-	.77	-	1.10	-	.22	.53	-

a No gage-height record; discharge computed on basis of records for Cupsaw Brook near Wanaque.
d Sluice gate in dam open; discharge estimated.

Erskine Brook near Wanaque--Continued

Daily discharge, in second-feet, 1934-38--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.15	2.1	3.8	2.1	3.3	b1.1	1.59	1.04	0.30	1.61	1.01	0.18
2	.15	1.39	3.1	2.4	2.9	1.04	1.39	1.04	.29	1.19	1.19	.04
3	.15	1.01	2.7	2.1	2.9	1.21	1.21	.88	.64	.84	1.01	0
4	.15	1.01	2.4	1.87	3.3	b1.2	1.04	.88	.64	.68	.84	.01
5	.15	.84	2.1	1.61	2.9	1.59	1.04	.88	.64	.34	.68	0
6	.19	.84	3.1	1.61	2.9	1.59	1.04	.73	.64	.17	1.44	0
7	.16	.84	3.4	3.6	4.0	1.39	1.39	.59	.64	.18	1.61	0
8	.15	.84	2.7	3.4	3.3	1.39	2.0	.34	1.05	.18	1.19	0
9	.15	.84	2.1	2.7	2.9	1.21	4.0	.33	.88	.18	1.01	0
10	.15	.31	1.87	2.4	2.6	1.21	3.6	.48	.37	.18	.84	0
11	.15	.18	1.61	2.1	2.6	1.39	2.6	.48	.74	.18	1.85	0
12	.15	.15	1.61	1.87	2.3	1.39	2.1	.48	1.07	.18	1.19	0
13	.15	14.1	b1.5	1.87	2.6	1.39	1.81	.33	1.44	.33	.68	0
14	.15	17.0	b1.4	1.87	2.6	1.81	1.81	.45	1.39	.33	.40	0
15	.15	9.0	b1.4	1.87	2.3	2.1	1.59	4.3	1.04	.33	.18	0
16	.15	5.0	2.4	1.87	2.1	1.81	1.39	3.2	.56	.33	.18	0
17	.15	3.8	2.7	1.61	1.81	2.1	1.39	2.1	b.30	.33	.18	0
18	.15	2.7	4.6	b1.4	1.81	2.1	2.0	1.39	b.33	.18	.18	0
19	.24	2.4	3.8	b1.4	2.1	1.81	3.3	1.21	b.33	.33	.18	.77
20	2.7	2.4	2.7	1.39	3.3	1.62	2.6	1.04	b.33	2.9	.18	6.2
21	1.87	2.4	2.4	1.39	2.6	1.25	2.6	1.04	b.33	6.9	.18	17.1
22	1.87	1.87	2.1	1.61	2.3	1.39	2.3	1.04	.18	7.9	.18	13.8
23	3.1	1.61	1.87	1.61	2.3	1.39	1.81	1.04	.33	9.2	.18	5.8
24	2.1	1.61	1.87	2.6	2.6	1.39	1.59	1.04	.33	9.7	.04	3.0
25	1.39	1.61	2.4	16.7	2.3	1.39	1.39	1.04	.18	5.5	.04	1.87
26	1.01	1.39	2.4	11.3	2.1	1.39	1.39	1.07	1.33	3.8	.04	1.19
27	1.01	1.39	1.87	6.6	2.1	1.21	1.39	1.59	5.6	2.4	.04	1.19
28	3.1	6.5	1.87	4.8	b1.8	1.04	1.39	1.59	9.0	2.1	.18	1.19
29	3.1	8.4	1.87	4.0	-	.88	1.21	1.39	4.6	1.61	.04	1.01
30	2.7	5.5	1.87	3.3	-	.88	1.21	1.04	2.5	1.61	.02	.84
31	3.1	-	1.61	3.6	-	1.39	-	.58	-	1.19	0	-

b Stage-discharge relation affected by ice or debris on control; discharge computed on basis of recorder graph, weather records, and records for Cupsaw Brook near Wanaque.

1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.67	0.44	8.4									
2	.17	.64	8.4									
3	.15	.64	4.5									
4	.15	.64	.89									
5	.16	.81	1.16									
6	.40	.99	7.2									
7	.48	.99	9.5									
8	.48	1.19	9.5									
9	.48	1.52	9.0									
10	.48	1.19	7.3									
11	.48	1.01	5.9									
12	.48	.84	5.9									
13	.48	.84	5.9									
14	.48	.66	5.5									
15	.48	4.4	2.7									
16	.48	9.5	.17									
17	.48	10.1	.18									
18	.48	10.1	.17									
19	.48	10.1	.16									
20	.67	10.1	.15									
21	1.90	10.1	.15									
22	1.67	9.5	.15									
23	1.41	9.0	.15									
24	1.49	9.0	.15									
25	1.61	9.0	.15									
26	1.39	9.0	.15									
27	1.19	9.0	.85									
28	1.01	9.0	.19									
29	1.19	9.0	.16									
30	.84	9.0	.15									
31	.53	-	.15									

Erskine Brook near Wanaque--Continued

Monthly and annual discharge, in second-feet, 1934-38

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December 27-31, 1934	12.7	3.4	1.8	2.54	2.23	0.41
Calendar year	-	-	-	-	-	-
January 1935	60.99	3.7	1.2	1.97	1.73	1.99
February	48.43	3.0	1.10	1.73	1.52	1.58
March	69.52	5.8	1.27	2.24	1.96	2.26
April	41.74	2.4	.64	1.39	1.22	1.36
May	21.96	1.88	.11	.708	.621	.72
June	18.77	1.61	.14	.626	.549	.61
July	23.04	1.87	.17	.743	.652	.75
August	5.63	.38	.15	.182	.160	.18
September	7.71	.76	.15	.257	.225	.25
Water year	-	-	-	-	-	-
October 1935	6.41	.84	.16	.207	.182	.21
November	36.54	3.8	.38	1.22	1.07	1.19
December	28.92	1.87	.36	.933	.818	.94
Calendar year 1935	369.66	5.8	.11	1.01	.886	12.04
January 1936	98.75	9.8	.40	3.19	2.80	3.23
February	35.85	2.3	.75	1.24	1.09	1.18
March	230.55	46	1.53	7.44	6.53	7.53
April	120.21	15.6	.44	4.01	3.52	3.93
May	17.23	4.5	.14	.556	.488	.56
June	12.02	1.12	.14	.401	.352	.39
July	4.29	.46	.08	.138	.121	.14
August	4.57	.72	.04	.147	.129	.15
September	5.85	.81	.02	.195	.171	.19
Water year 1935-36	601.19	46	.02	1.64	1.44	19.64
October 1936	20.96	3.0	.15	.676	.593	.68
November	11.02	.94	.15	.367	.322	.36
December	81.89	15.1	.18	2.64	2.32	2.68
Calendar year 1936	643.19	46	.02	1.76	1.54	21.02
January 1937	133.70	12.6	1.80	4.31	3.78	4.36
February	114.49	14.7	.94	4.09	3.59	3.74
March	41.69	2.6	.77	1.34	1.18	1.36
April	58.39	5.3	.61	1.95	1.71	1.91
May	76.98	8.2	1.10	2.48	2.18	2.51
June	21.37	4.4	.15	.712	.625	.70
July	13.70	2.0	.04	.442	.388	.45
August	18.35	3.5	.04	.592	.519	.60
September	14.95	3.6	.04	.498	.437	.49
Water year 1936-37	607.49	15.1	.04	1.66	1.46	19.84
October 1937	30.04	3.1	.15	.969	.850	.98
November	99.03	17.0	.15	3.30	2.89	3.22
December	73.12	4.6	1.4	2.36	2.07	2.39
Calendar year 1937	695.81	17.0	.04	1.91	1.68	22.71
January 1938	98.55	16.7	1.39	3.18	2.79	3.22
February	72.62	4.0	1.8	2.59	2.27	2.36
March	44.05	2.1	.88	1.42	1.25	1.44
April	55.17	4.0	1.04	1.84	1.61	1.80
May	34.63	4.3	.33	1.12	.982	1.13
June	38.00	9.0	.18	1.27	1.11	1.24
July	62.88	9.7	.17	2.03	1.78	2.05
August	16.96	1.85	0	.547	.480	.55
September	54.19	17.1	0	1.81	1.59	1.77
Water year 1937-38	679.24	17.1	0	1.86	1.63	22.15
October 1938	22.84	1.90	.15	.737	.646	.74
November	158.30	10.1	.44	5.28	4.63	5.17
December	94.98	9.5	.15	3.06	2.68	3.09
Calendar year 1938	753.17	17.1	0	2.06	1.81	24.56

West Brook near Wanaque

Location.- Water-stage recorder and concrete control, lat. 41°04'16", long. 74°18'45", just upstream from Wanaque Reservoir, 2½ miles northwest of Wanaque, Passaic County. Datum of gage is 326.79 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 11.8 square miles.

Records available.- January 1935 to September 1940.

Average discharge.- 5 years, 24.9 second-feet.

Extremes.- 1935-40: Maximum discharge, 1,450 second-feet Mar. 11, 1936 (gage height, 5.80 feet, from floodmark), from rating curve extended above 700 second-feet; no flow Aug. 10, 1936 (result of regulation).

Peak gage height and discharge for period of this record.-
1935: Jan. 10 (5 a.m.) 1.68 ft., 211 sec.-ft.
1936: Jan. 3 (11 a.m.) 2.95 ft., 484 sec.-ft.; Mar. 11, 5.80 ft. from floodmark, about 1,450 sec.-ft.; Mar. 18 (10 a.m.) 3.42 ft., 591 sec.-ft.; Mar. 19 (2 a.m.) 2.72 ft., 427 sec.-ft.; Mar. 21 (7 a.m.) 1.87 ft., 249 sec.-ft.; Apr. 6 (10 a.m.) 3.26 ft., 555 sec.-ft.; Dec. 20 (5:30 a.m.) about 750 sec.-ft.
1937: Feb. 22 (5 a.m.) 3.58 ft., 641 sec.-ft.; Apr. 6 (9 a.m.) 2.17 ft., 308 sec.-ft.; May 15 (2 p.m.) 1.86 ft., 247 sec.-ft.; Aug. 23 (9 a.m.) 2.84 ft., 462 sec.-ft.; Nov. 13, missing; Nov. 28 (3 p.m.) 1.88 ft., 251 sec.-ft.
1938: Jan. 25, missing; June 26 (8 p.m.) 2.61 ft., 407 sec.-ft.; June 27 (10 p.m.) 3.81 ft., 693 sec.-ft.; July 21 (2 p.m.) 2.31 ft., 341 sec.-ft.; July 23 (6 p.m.) 2.31 ft., 341 sec.-ft.; Sept. 21, missing; Dec. 6 (3:30 a.m.) 3.18 ft., 543 sec.-ft.
1939: Feb. 28 (6 p.m.) 1.85 ft., 245 sec.-ft.; Apr. 2 (6 a.m.) 1.81 ft., 237 sec.-ft.; Apr. 19 (7 p.m.) 2.14 ft., 305 sec.-ft.
1940: Jan. 15 (1 a.m.) 2.18 ft. caused by ice jam; Mar. 15 (5 a.m.) 4.02 ft., 746 sec.-ft.; Apr. 8 (8 p.m.) 2.80 ft., 450 sec.-ft.; May 31 (11 a.m.) 2.10 ft. estimated, about 297 sec.-ft.; Sept. 1 (2 p.m.) 1.90 ft., 255 sec.-ft.

Cooperation.- Water-stage recorder graph furnished by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1935-40

1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				24	12.5	32	20	11.9	3.5	4.7	2.7	1.8
2				25	12.5	33	18.9	10.3	3.2	3.5	3.2	1.6
3				21	13.1	40	17.5	10.3	3.0	3.0	3.0	2.4
4				17.5	13.1	36	15.5	14.9	3.2	2.7	3.0	13.6
5				15.5	11.4	34	14.9	13.7	4.4	2.5	2.5	21
6				16.8	10.3	51	14.9	15.5	4.4	4.1	2.3	10.8
7				25	9.8	47	14.3	20	4.1	8.3	2.3	7.4
8				37	9.3	35	13.1	19.6	3.8	7.8	2.5	5.1
9				44	10.3	30	28	15.5	11.9	12.3	2.3	5.2
10				158	10.8	29	31	13.7	8.3	24	2.1	8.3
11				72	10.3	38	24	14.9	6.6	24	2.5	5.1
12				46	9.8	52	28	13.1	4.7	12.5	2.7	4.4
13				35	9.3	50	36	11.9	3.8	9.3	2.7	4.4
14				31	11.8	38	32	11.4	3.8	6.6	2.3	4.4
15				27	42	32	27	10.3	3.5	5.1	2.3	4.4
16				23	45	36	25	9.3	3.2	8.0	2.1	3.8
17				22	50	43	23	8.8	3.4	6.6	1.8	3.5
18				22	42	33	20	7.8	19.6	5.1	1.6	2.7
19				23	35	30	18.9	7.4	13.7	4.1	1.8	2.7
20				21	30	30	17.5	6.6	18.2	4.7	1.8	3.0
21				25	b25	35	16.1	6.6	10.3	4.1	2.3	3.5
22				30	23	31	14.9	6.2	7.8	3.8	2.7	3.2
23				24	21	25	14.9	6.2	6.6	4.4	2.3	2.5
24				b20	21	23	13.7	6.6	5.1	13.7	1.6	2.3
25				b17	27	21	12.5	5.8	4.7	9.3	1.0	2.1
26				b19	53	19.6	11.9	5.1	4.1	10.5	1.0	2.1
27				b17	46	17.5	11.4	4.4	4.5	6.6	1.3	2.1
28				16.8	b35	25	10.8	4.1	5.4	5.1	1.8	2.1
29				16.1	-	35	10.3	3.8	4.1	4.1	1.6	2.3
30				14.9	-	26	13.7	3.5	4.4	3.8	1.8	2.3
31				b14	-	22	-	3.5	-	3.2	2.1	-

b Stage-discharge relation affected by ice.

West Brook near Wanaque--Continued

Daily discharge, in second-feet. 1935-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	53	52	7.8	b10.5	27	29	13.7	4.4	5.1	1.8	2.7
2	2.5	46	42	7.8	b10.2	24	30	12.5	3.8	4.4	1.0	2.7
3	2.3	32	31	189	b10.0	25	34	15.5	4.1	3.8	1.1	3.2
4	2.3	23	26	86	b10.5	30	26	51	5.8	3.5	1.0	3.0
5	2.1	18.9	23	55	b11.0	38	24	30	4.4	3.5	1.0	2.7
6	2.1	16.1	19.6	38	10.8	36	290	25	3.8	3.0	1.7	2.7
7	2.1	13.7	17.5	34	10.3	32	117	22	3.5	3.0	2.1	2.5
8	2.1	16.1	18.2	29	9.8	29	69	19.6	3.2	2.7	1.8	2.5
9	2.1	14.3	20	47	9.3	28	57	16.1	3.2	2.5	1.2	2.5
10	2.1	13.7	19.6	68	9.8	65	66	14.9	3.2	2.3	1.1	a2.5
11	2.3	13.1	18.9	49	9.8	592	60	13.7	3.2	3.8	1.3	a2.5
12	2.3	12.5	16.8	41	9.8	662	54	12.5	3.8	5.0	1.3	a2.5
13	2.3	35	15.5	40	9.3	187	61	12.5	12.1	3.2	1.3	a2.5
14	2.1	80	14.9	40	9.8	107	55	16.1	28	3.0	1.3	a2.5
15	2.1	42	16.7	46	10.3	87	46	12.5	20	2.7	1.3	4.1
16	2.1	30	30	80	9.8	76	43	10.8	12.5	2.7	1.3	3.5
17	1.8	30	21	51	9.8	77	35	9.8	7.8	2.7	1.3	3.5
18	2.3	35	16.8	41	13.1	381	31	9.3	9.3	2.5	1.3	4.7
19	2.3	33	16.1	30	13.1	312	28	16.1	10.3	3.8	1.3	8.3
20	2.3	47	14.9	30	11.4	137	25	14.9	10.3	3.0	1.3	4.4
21	1.8	55	11.4	32	10.3	181	23	10.8	48	a2.8	1.3	4.1
22	1.8	49	10.3	29	9.8	102	22	9.3	23	a2.7	1.3	3.5
23	2.1	46	b9.5	24	9.3	68	19.6	8.3	13.1	a2.7	6.7	3.2
24	2.3	36	b9.0	b20	8.8	57	17.5	7.4	10.3	4.1	16.1	3.2
25	2.1	30	b8.4	b17.5	9.8	49	16.8	6.6	9.3	2.7	5.0	3.2
26	1.8	28	b8.0	b15.5	19.6	41	16.1	5.8	7.4	2.5	3.8	2.7
27	1.8	27	b7.7	b14.5	28	66	14.9	5.4	6.6	2.5	3.2	2.5
28	2.1	49	b7.5	b13.2	30	65	14.3	5.4	6.6	2.5	3.0	2.7
29	2.1	168	b7.5	b12.4	29	45	14.3	4.7	6.2	2.5	3.0	2.5
30	26	72	b7.6	b11.8	-	37	13.7	4.4	5.4	2.1	3.2	2.7
31	104	-	b7.6	b11.0	-	32	-	4.4	-	2.1	3.0	-

a No gage-height record; discharge computed on basis of weather records and records for other stations in Wanaque River Basin.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18.0	4.7	6.2	40	55	24	23	32	8.3	28	4.1	11.9
2	8.8	4.7	8.3	32	34	23	23	29	8.3	11.9	3.5	10.3
3	5.4	4.7	24	61	27	22	22	25	7.8	10.3	3.2	9.3
4	4.4	4.7	19.6	52	25	20	20	23	7.4	9.3	3.0	a8
5	3.8	10.0	15.5	40	25	23	20	21	6.6	7.4	3.0	a19
6	3.2	9.3	15.8	32	23	20	168	25	6.2	6.2	2.7	18.2
7	3.5	7.8	55	40	23	18.2	80	32	7.4	5.4	2.7	11.9
8	4.1	7.8	33	49	22	16.8	53	23	6.2	4.7	5.6	9.3
9	4.1	10.3	24	38	22	18.9	49	21	5.4	4.1	6.2	7.4
10	4.1	9.3	21	38	22	14.9	45	18.9	4.7	3.5	4.7	6.6
11	4.1	8.3	36	37	17.5	14.3	35	16.8	5.8	3.2	14.7	6.2
12	3.8	7.4	61	30	16.1	13.7	30	14.9	5.4	3.2	55	5.8
13	3.5	7.4	40	26	15.5	13.1	27	18.7	4.7	4.4	24	46
14	3.5	7.0	29	24	25	12.5	26	77	5.4	3.8	13.1	50
15	3.5	7.0	24	53	23	13.1	30	167	5.1	16.9	9.3	25
16	3.5	7.0	20	46	18.9	14.9	28	71	4.4	13.7	7.0	16.8
17	31	7.0	51	41	16.1	13.7	23	51	4.1	7.8	5.4	13.7
18	22	7.0	37	84	14.3	13.7	20	43	8.8	5.8	13.7	12.5
19	14.9	6.2	27	57	14.3	16.8	18.9	33	14.9	4.7	8.8	10.8
20	11.4	6.2	a400	43	13.7	19.9	17.5	29	9.3	4.1	7.0	9.8
21	9.3	6.2	a110	50	19.5	45	25	24	20	3.8	6.2	11.4
22	8.8	6.2	65	97	313	44	83	22	54	3.5	16.5	8.8
23	7.8	5.8	50	104	92	44	65	22	19.6	3.2	160	9.8
24	7.0	5.8	43	74	62	42	43	18.2	11.9	3.2	67	9.8
25	6.2	5.8	40	121	47	50	34	16.1	9.3	3.2	36	7.4
26	6.2	5.8	35	86	38	45	30	14.3	7.4	3.5	27	6.6
27	5.8	5.8	30	61	33	34	54	13.7	6.6	4.4	42	5.4
28	5.4	6.2	26	46	27	31	67	15.5	7.0	3.5	27	7.4
29	5.1	7.0	23	42	-	27	51	13.1	7.0	3.0	18.9	7.8
30	5.1	7.0	22	35	-	26	38	10.8	9.1	2.8	16.8	7.0
31	4.7	-	34	48	-	24	-	9.3	-	8.4	14.3	-

a No gage-height record; discharge computed on basis of weather records and records for other stations in Wanaque River Basin.

West Brook near Wanaque--Continued

Daily discharge, in second-feet, 1935-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	25	49	18.1	29	15.4	20	13.6	6.3	35	13.6	4.3
2	4.0	22	40	18.8	25	16.0	16.6	13.0	5.8	28	13.6	2.7
3	3.7	a18.1	33	18.1	28	16.0	14.8	11.8	5.4	21	10.6	2.3
4	3.7	16.0	28	16.0	32	14.6	13.6	11.2	5.4	16.6	10.6	3.1
5	3.7	16.0	26	15.4	23	16.0	12.4	10.6	5.8	13.6	11.8	2.9
6	7.7	16.0	43	14.8	24	24	11.8	10.1	5.4	11.2	22	2.6
7	5.8	14.2	42	47	48	18.1	13.6	9.1	4.6	9.1	19.8	2.9
8	4.3	14.2	29	41	33	16.0	21	8.6	7.7	8.1	14.8	2.6
9	4.0	15.4	24	27	30	14.8	64	8.6	6.8	7.2	14.8	2.3
10	4.3	14.8	19.6	23	30	14.2	62	9.1	4.3	5.8	11.2	2.1
11	4.3	14.2	16.6	20	22	13.6	49	8.6	6.0	5.8	31	2.1
12	4.3	13.6	16.0	20	21	14.2	37	7.7	8.5	10.1	14.2	3.7
13	4.3	a390	14.8	20	28	14.8	30	6.8	10.6	7.2	9.6	5.0
14	4.3	277	12.4	18.8	29	21	26	7.1	8.1	5.8	7.7	4.3
15	4.0	108	12.4	16.0	22	24	23	68	5.8	5.8	6.8	4.1
16	3.4	70	19.4	13.6	19.6	28	21	34	4.6	4.6	6.3	3.4
17	3.4	58	29	13.6	17.3	40	19.6	19.6	4.3	4.3	6.8	2.9
18	3.7	46	73	13.6	18.1	37	34	14.2	5.0	4.3	6.3	2.9
19	11.9	40	52	13.6	21	30	50	12.4	4.6	4.6	5.8	29
20	75	38	39	13.6	32	27	33	11.8	3.7	39	4.6	98
21	37	34	30	14.2	21	24	30	11.8	3.1	140	4.0	a403
22	21	30	27	14.2	19.6	21	28	13.6	2.9	136	3.7	189
23	54	22	26	13.6	23	21	24	11.8	15.4	152	3.4	68
24	51	21	21	23	29	19.6	21	11.2	28	139	3.1	44
25	32	20	28	a560	23	18.1	20	11.2	22	65	2.9	29
26	24	19.6	a26	134	20	17.3	18.8	10.6	112	42	2.6	22
27	21	19.6	a21	68	18.1	16.6	18.1	16.6	298	33	2.9	21
28	79	128	21	52	16.6	14.8	16.6	12.4	294	29	3.1	20
29	64	118	18.8	46	-	15.4	15.4	9.6	94	23	2.9	23
30	40	65	17.3	46	-	14.8	14.2	8.1	52	21	2.6	32
31	29	-	17.3	44	-	17.3	-	7.2	-	16.0	2.3	-

a Partly missing gage-height record; discharge computed on basis of available recorder graph and records for other stations in Wanaque River Basin.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.0	9.6	18.8	15.4	28	132	42	22	4.6	5.8	1.9	2.6
2	11.2	8.1	17.3	15.4	25	68	159	21	4.6	3.7	1.5	2.6
3	10.5	7.2	16.0	15.4	88	56	75	18.8	4.3	2.9	a1.5	2.3
4	10.8	7.2	94	14.2	85	49	56	16.6	4.0	2.3	a1.5	2.1
5	9.6	10.5	170	13.6	58	55	45	14.8	4.0	2.3	a2.9	2.3
6	10.7	13.6	318	205	45	66	85	14.2	3.4	2.1	a1.9	2.3
7	13.4	15.4	119	67	38	52	101	13.6	3.1	2.1	a1.5	2.1
8	10.1	13.6	73	49	33	40	65	13.0	3.1	2.1	1.5	2.3
9	9.1	14.8	66	35	30	38	54	17.9	2.9	1.9	1.5	2.9
10	7.7	12.4	75	34	31	36	45	25	2.6	1.7	1.5	a2.3
11	7.2	9.6	60	31	56	28	41	16.0	2.9	1.5	1.3	a2.1
12	6.8	12.7	50	26	45	27	55	13.0	2.6	1.5	1.0	.8
13	5.8	12.7	40	21	37	28	38	11.2	2.8	1.5	.9	1.4
14	5.8	9.6	33	21	37	27	33	11.2	10.1	1.5	1.2	.8
15	5.4	8.1	28	19.6	105	32	31	10.6	5.4	1.5	1.2	.8
16	5.4	7.7	21	19.6	105	80	28	10.1	4.0	1.3	.8	.8
17	5.0	10.6	22	18.1	b60	65	29	9.1	3.1	1.3	.8	.8
18	5.0	11.2	22	17.3	59	50	60	8.6	2.9	1.0	.8	.8
19	4.6	17.1	21	16.6	52	40	128	8.1	2.6	.9	1.2	.8
20	7.1	28	19.6	15.4	56	36	126	7.7	3.1	.9	6.9	a.8
21	20	21	17.3	b15	50	34	67	7.7	3.1	.9	3.0	a.8
22	10.1	16.6	15.4	b15	40	32	55	13.0	2.6	a.8	2.1	a.8
23	8.1	16.0	14.2	b14	30	30	45	14.8	2.9	a.8	1.7	a.8
24	14.7	18.1	15.4	13.6	28	34	38	15.4	3.4	.8	2.4	a.8
25	19.4	15.4	14.8	13.6	24	42	34	11.2	2.9	.8	a2.9	a.8
26	12.4	17.3	13.6	b12	84	40	31	8.1	2.6	.8	a2.1	a.8
27	10.6	18.1	38	10.6	83	34	30	7.7	2.3	a1.3	a1.9	.8
28	10.1	18.1	27	9.1	131	66	37	7.2	2.3	a13.5	1.7	1.3
29	11.2	18.1	19.6	10.6	-	50	29	7.7	2.1	5.0	1.7	.8
30	11.2	18.1	17.3	18.1	-	54	25	6.3	9.9	3.1	1.9	1.7
31	10.1	-	15.4	34	-	55	-	5.4	-	2.3	2.3	-

a Partly missing or no gage-height record; discharge computed on basis of available recorder graph and records for Blue Mine Brook near Wanaque.
b Stage-discharge relation affected by ice.

West Brook near Wanaque--Continued

Daily discharge, in second-feet, 1935-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	f10.9	2.3	b2.8	3.4	8.6	122	20	115	11.2	5.0	f152
2	1.9	f4.6	2.9	b2.6	3.4	8.1	70	21	106	8.6	3.7	f72
3	1.9	f3.4	3.7	b2.4	b3.4	9.1	62	22	65	7.7	2.9	33
4	1.9	2.9	3.7	b2.4	3.4	25	81	22	46	11.4	2.6	21
5	1.9	14.1	3.4	b2.4	3.4	27	64	20	35	20	2.3	15.4
6	2.1	22	3.1	b2.2	3.4	25	48	17.3	28	11.8	2.3	11.2
7	2.1	10.6	2.9	b2.2	5.4	23	39	15.4	21	8.1	2.1	9.1
8	1.9	6.8	2.9	b2.2	5.8	21	151	14.2	17.3	6.3	2.1	8.1
9	1.9	5.4	2.9	b2.2	5.0	20	192	16.6	17.3	5.0	1.9	8.6
10	2.1	4.6	3.3	b2.2	6.4	20	84	14.2	17.3	4.6	1.7	8.1
11	1.9	4.0	5.0	b2.2	27	18.8	62	13.0	16.0	4.6	1.7	7.7
12	1.7	3.4	4.3	b2.2	11.8	18.8	81	13.0	14.8	10.8	1.7	6.3
13	1.7	3.1	3.7	b2.2	10.6	16.0	94	11.8	12.4	10.6	1.7	5.4
14	1.4	3.1	4.0	b10	b7	19.5	66	11.2	10.1	7.2	1.7	5.0
15	1.3	3.1	3.7	b100	b6.5	459	58	10.1	9.1	5.0	1.5	4.3
16	1.5	2.9	3.7	b40	b6	341	51	f35	10.1	4.3	1.9	4.3
17	1.7	2.9	3.4	b20	b6	80	42	f79	9.1	4.0	1.7	3.7
18	1.3	2.6	3.7	b16	b6	69	45	40	7.2	4.0	1.9	3.4
19	.9	2.6	3.7	h13.0	b8	104	39	29	7.2	3.4	2.9	3.1
20	1.5	2.6	8.3	h10.6	17.3	138	109	25	5.8	3.1	2.9	3.1
21	1.2	2.3	14.2	b9	15.4	135	158	29	5.0	3.1	2.1	3.1
22	4.0	2.3	9.1	b8	13.6	84	117	28	4.6	2.9	1.9	3.4
23	2.6	2.3	7.2	b7	12.4	59	70	37	4.0	2.6	1.7	3.4
24	2.1	2.3	b5	b6.5	11.2	46	58	32	23	2.6	1.4	3.1
25	1.9	2.3	b4	b6	10.6	37	48	36	20	2.6	.9	15.2
26	1.9	2.6	b3.5	b5.5	10.1	31	37	37	29	3.6	3.1	15.1
27	f5.2	2.3	b3	b4.8	9.6	29	31	35	23	4.3	2.9	12.6
28	f30	2.3	b2.8	b4.4	9.6	56	28	54	14.2	4.0	32	8.1
29	19.2	2.3	b2.8	4.0	9.1	64	24	39	24	3.1	22	7.2
30	7.8	2.3	b2.8	3.7	-	107	21	30	14.2	f5.0	13.0	6.8
31	12.0	-	b2.8	3.7	-	f269	-	155	-	f10.1	16.3	-

b Stage-discharge relation affected by ice.
f Fragmentary gage-height record; discharge computed on basis of available recorder graph and records for other stations in Wanaque River Basin.
h Computed on basis of staff-gage reading.

Monthly and annual discharge, in second-feet, 1935-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
January 1935	919.6	158	14	29.7	2.52	2.91
February	649.3	53	9.3	23.2	1.97	2.05
March	1 029.1	52	17.5	33.2	2.81	3.24
April	569.7	36	10.3	19.0	1.61	1.80
May	302.7	20	3.5	9.76	.827	.95
June	187.3	19.6	3.0	6.24	.529	.59
July	227.5	24	2.5	7.34	.622	.72
August	67.0	3.2	1.0	2.16	.183	.21
September	140.1	21	1.6	4.67	.396	.44
Water year	-	-	-	-	-	-
October 1935	191.8	104	1.8	6.19	.525	.61
November	1 164.4	168	12.5	38.8	3.29	3.67
December	545.0	52	7.5	17.6	1.49	1.72
Calendar year 1935	5 993.5	168	1.0	16.4	1.39	18.91
January 1936	1 210.5	189	7.8	39.0	3.31	3.82
February	363.0	30	8.8	12.5	1.06	1.14
March	3 695	662	24	119	10.1	11.64
April	1 352.2	290	13.7	45.1	3.82	4.26
May	421.0	51	4.4	13.6	1.15	1.33
June	292.6	48	3.2	9.75	.826	.92
July	95.4	5.1	2.1	3.08	.261	.30
August	76.4	16.1	1.0	2.46	.208	.24
September	95.8	8.3	2.5	3.19	.270	.30
Water year 1935-36	9 503.1	662	1.0	26.0	2.20	29.95

West Brook near Wanaque--Continued

Monthly and annual discharge, in second-feet, 1935-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	232.0	31	3.2	7.48	0.634	0.73
November	205.4	10.3	4.7	6.85	.581	.65
December	1 425.4	400	6.2	46.0	3.90	4.50
Calendar year 1936	9 464.7	662	1.0	25.9	2.19	29.83
January 1937	1 627	121	24	52.5	4.45	5.13
February	1 083.9	313	13.7	38.7	3.28	3.42
March	758.5	50	12.5	24.5	2.08	2.40
April	1 248.4	168	17.5	41.6	3.53	3.94
May	950.3	167	9.3	30.7	2.60	3.00
June	288.1	54	4.1	9.60	.814	.91
July	200.9	28	2.8	6.48	.549	.63
August	628.4	160	2.7	20.3	1.72	1.98
September	389.9	50	5.4	13.0	1.10	1.23
Water year 1936-37	9 038.2	400	2.7	24.8	2.10	28.51
October 1937	616.4	79	3.4	19.9	1.69	1.95
November	1 703.7	390	13.6	56.8	4.81	5.37
December	871.6	73	12.4	28.1	2.38	2.74
Calendar year 1937	10 367.1	390	2.7	28.4	2.41	32.70
January 1938	1 417.0	560	13.6	45.7	3.87	4.46
February	702.3	48	16.6	25.1	2.13	2.22
March	614.6	40	13.6	19.8	1.68	1.94
April	778.5	64	11.8	26.0	2.20	2.46
May	420.0	68	6.8	13.5	1.14	1.31
June	1 040.1	298	2.9	34.7	2.94	3.28
July	1 043.1	152	4.3	33.6	2.85	3.29
August	275.4	31	2.3	8.88	.753	.87
September	1 034.2	403	2.1	34.5	2.92	3.26
Water year 1937-38	10 516.9	560	2.1	28.8	2.44	33.15
October 1938	305.1	20	4.6	9.84	.834	.96
November	416.5	28	7.2	13.9	1.18	1.32
December	1 491.7	318	13.6	48.1	4.08	4.70
Calendar year 1938	9 538.5	560	2.1	26.1	2.21	30.07
January 1939	835.2	205	9.1	26.9	2.28	2.63
February	1 543	131	24	55.1	4.67	4.86
March	1 476	132	27	47.6	4.03	4.65
April	1 687	159	25	56.2	4.76	5.31
May	387.0	25	5.4	12.5	1.06	1.22
June	110.2	10.1	2.1	3.67	.311	.35
July	69.9	13.5	.8	2.25	.191	.22
August	57.0	6.9	.8	1.84	.156	.18
September	43.1	2.9	.8	1.44	.122	.14
Water year 1938-39	8 421.7	318	.8	23.1	1.96	26.54
October 1939	122.2	30	.9	3.94	.334	.39
November	138.9	22	2.3	4.63	.392	.44
December	131.8	14.2	2.3	4.25	.360	.42
Calendar year 1939	6 601.3	205	.8	18.1	1.53	20.81
January 1940	302.4	100	2.2	9.75	.826	.95
February	250.8	27	3.4	8.65	.733	.79
March	2 367.9	459	8.1	76.4	6.47	7.46
April	2 152	192	21	71.7	6.08	6.78
May	961.8	155	10.1	31.0	2.63	3.03
June	730.7	115	4.0	24.4	2.07	2.31
July	195.6	20	2.6	6.31	.535	.62
August	143.5	32	.9	4.63	.392	.45
September	462.8	152	3.1	15.4	1.31	1.46
Water year 1939-40	7 960.4	459	.9	21.7	1.84	25.10

Blue Mine Brook near Wanaque

Location.- Water-stage recorder and concrete control, lat. 41°03'04", long. 74°19'10", just upstream from Wanaque Reservoir, 1¾ miles northwest of Wanaque. Passaic County. Datum of gage is 319.94 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 1.71 square miles.

Records available.- December 1934 to September 1940.

Average discharge.- 5 years, 2.50 second-feet.

Extremes.- 1934-40: Maximum discharge, 229 second-feet Sept. 21, 1938 (gage height, 1.66 feet), from rating curve extended above 60 second-feet: no flow on many days (result of regulation).

Cooperation.- Water-stage recorder graph furnished by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1934-40.

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	2.4	b1.1	2.8	2.0	1.1	0.3	0.3	0.2	0.2
2			-	2.0	1.1	3.1	1.8	1.0	.3	.2	.2	.2
3			-	1.6	1.1	3.6	1.6	1.0	.2	.1	.2	.2
4			-	b1.4	1.0	3.1	1.4	2.2	.2	.1	.2	1.0
5			-	b1.3	1.0	3.1	1.4	1.6	.3	.2	.2	2.1
6			-	1.2	.9	4.2	1.4	1.6	.4	.2	.2	.8
7			-	2.0	b.9	3.6	1.4	2.2	.3	.4	.2	.5
8			-	2.6	.8	3.1	1.2	2.2	.3	.3	.2	.2
9			-	3.8	.9	2.8	1.8	1.6	1.3	.5	.2	.3
10			-	12.6	.9	2.6	2.6	1.6	.7	1.7	.2	.5
11			-	6.4	.9	3.3	2.4	1.4	.4	1.4	.1	.4
12			-	4.2	.9	4.2	2.8	1.4	.2	.6	.1	.3
13			-	3.3	.8	4.5	3.6	1.3	.2	.4	.1	.3
14			-	2.8	1.2	3.6	3.3	1.3	.2	.3	.1	.3
15			-	2.4	4.8	3.1	2.8	1.2	.2	.3	.1	.3
16			-	2.2	4.5	3.6	2.6	1.1	.2	.8	.1	.2
17			-	2.0	5.7	3.6	2.4	1.1	.3	.5	.1	.2
18			-	1.8	4.2	3.1	2.2	1.0	1.6	.3	.1	.2
19			-	1.6	3.6	2.8	2.0	.9	1.1	.3	.1	.2
20			-	1.8	3.1	2.6	1.8	.9	1.8	.3	.1	.2
21			-	2.2	2.4	3.3	1.8	.8	.7	.3	.2	.2
22			-	2.6	2.2	2.8	1.6	.4	.6	.3	.2	.2
23			-	b2.0	2.0	2.6	1.4	.5	.3	.3	.2	.2
24			-	b1.8	2.0	2.4	1.4	.5	.2	.3	.2	.2
25			-	b1.8	2.6	2.2	1.2	.5	.2	.3	.2	.2
26			-	1.6	5.4	2.0	1.1	.4	.2	.4	.2	.2
27			1.8	1.4	4.5	1.8	1.1	.4	.1	.3	.2	.2
28			1.6	b1.3	3.6	3.0	1.1	.4	.7	.3	.2	.2
29			1.8	1.2	-	3.4	1.0	.3	.3	.2	.2	.2
30			1.4	1.2	-	2.4	1.4	.3	.3	.2	.2	.2
31			1.6	b1.1	-	2.2	-	.3	-	.2	.2	-

b Stage-discharge relation affected by ice.

Blue Mine Brook near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	3.7	4.8	1.0	1.1	2.4	3.1	1.4	0.5	0.3	0.1	0.1
2	.2	4.7	3.6	1.1	1.1	2.4	3.1	1.2	.5	.2	.1	.1
3	.2	3.1	3.1	22	1.1	2.4	3.6	2.1	.5	.2	.1	.1
4	.1	2.2	2.6	8.9	1.1	3.1	2.8	4.8	.6	.2	.1	.1
5	.1	2.0	2.4	5.7	1.0	4.2	2.6	2.6	.5	.2	.1	.1
6	.1	1.6	2.2	4.2	1.0	3.6	37	2.0	.5	.1	.1	.1
7	.1	1.4	2.0	3.6	.9	3.1	13.5	2.0	.5	.1	.1	.1
8	.1	1.6	2.0	3.1	.9	2.8	8.4	1.8	.5	.1	.1	.1
9	.1	1.6	2.0	6.2	.9	2.8	6.4	1.6	.5	.1	.1	.1
10	.1	1.4	2.0	7.6	.9	9.1	7.2	1.4	.5	.1	.1	.1
11	.1	1.2	1.8	5.1	.8	85	6.1	1.2	.5	.1	.1	.1
12	.1	1.2	1.6	4.5	.8	61	5.4	1.1	.5	.1	.1	.1
13	.1	2.8	1.4	4.2	.8	17.5	6.4	1.1	1.0	.1	.1	.1
14	.1	4.4	1.4	3.9	.8	11.0	5.4	1.8	2.3	.1	.1	.1
15	.1	2.8	1.7	5.5	.8	8.8	4.8	1.2	1.0	.1	.1	.1
16	.1	2.2	3.3	8.5	.8	8.0	4.5	1.1	.5	.1	.1	.1
17	.1	2.6	2.2	5.4	.9	8.0	3.9	1.0	.3	.1	.1	.1
18	.1	3.3	1.8	4.5	1.4	36	3.3	.9	.1	.1	.1	.1
19	.1	3.1	1.6	5.7	1.1	26	3.1	1.4	.2	.1	.1	.2
20	.1	5.2	1.6	3.9	1.1	13.5	2.8	1.2	.2	.1	.1	.1
21	.1	5.7	1.4	3.1	1.0	17.4	2.8	1.0	6.9	.1	.1	.1
22	.2	5.1	1.2	2.8	.9	10.2	2.4	.8	3.8	.1	.1	.1
23	.2	4.2	1.2	2.4	.9	7.2	2.2	.7	.6	.1	.1	.1
24	.2	3.6	1.2	2.2	.8	5.7	2.2	.6	.4	.1	.3	1.3
25	.2	3.1	1.1	2.0	.9	4.8	2.0	.5	.3	.1	.1	.2
26	.2	2.6	1.1	1.8	2.3	3.9	2.0	.5	.3	.1	.1	.1
27	.2	2.6	1.1	1.8	3.6	6.2	1.8	.5	.2	.1	.1	.1
28	.2	4.1	1.1	1.6	3.3	6.8	1.6	.5	.3	.1	.1	.1
29	.2	15.0	1.2	1.4	2.6	4.8	1.4	.5	.3	.1	.1	.1
30	3.4	7.0	1.1	1.2	-	4.2	1.4	.5	.3	.1	.1	.1
31	11.4	-	1.1	1.2	-	3.6	-	.5	-	.1	.1	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	0.4	0.3	3.1	4.5	2.6	2.4	3.9	0.8	1.4	0.2	0.8
2	.4	.4	.4	2.6	3.1	2.4	2.4	3.3	.8	.6	.2	.7
3	.2	.4	2.2	8.1	2.4	2.2	2.4	2.8	.8	.3	.2	.6
4	.2	.4	1.6	5.1	2.2	2.2	2.2	2.6	.7	.4	.2	.5
5	.1	1.0	1.2	3.3	2.2	2.2	2.2	2.4	.4	.2	.2	.9
6	.1	.6	1.6	2.6	2.2	2.0	21	3.3	.4	.2	.2	.9
7	.1	.4	6.8	3.8	2.0	1.8	8.8	4.2	.8	.2	.2	.7
8	.1	.4	3.1	4.2	2.0	1.8	5.7	2.8	.5	.2	.2	.5
9	.1	.7	2.2	3.3	2.0	2.0	5.1	2.6	.3	.2	.2	.3
10	.1	.7	2.0	3.3	2.0	1.4	6.2	2.2	.3	.2	.2	.2
11	.1	.6	4.2	3.1	1.6	1.4	3.9	2.0	.5	.2	.4	.2
12	.1	.6	5.4	2.8	1.4	1.2	3.1	1.8	.4	.2	2.2	.2
13	.1	.6	3.1	2.4	1.4	1.4	2.8	2.3	.2	.2	.4	4.4
14	.1	.6	2.4	2.2	2.8	1.2	2.6	8.1	.3	.2	.2	2.6
15	.1	.6	2.0	5.0	2.4	1.2	3.1	19.6	.4	1.4	.2	1.0
16	.1	.6	1.6	3.6	2.0	1.4	2.8	8.0	.4	.8	.2	.7
17	3.1	.6	4.9	4.4	1.6	1.4	2.6	5.7	.3	.2	.2	.6
18	1.1	.6	2.8	10.3	1.4	1.4	2.6	4.5	.7	.2	.2	.6
19	.6	.5	2.3	5.7	1.4	1.8	2.4	3.6	1.3	.2	.2	.5
20	.4	.5	43	4.5	1.4	2.5	2.2	3.3	.9	.2	.2	.3
21	.4	.5	9.7	5.5	2.3	6.4	3.5	2.2	3.2	.2	.2	.2
22	.4	.5	5.4	11.0	30	5.4	11.0	1.2	5.1	.2	1.2	.2
23	.4	.5	3.9	10.6	9.2	4.8	7.2	1.8	1.2	.2	21	.2
24	.5	.5	3.3	8.5	6.1	4.5	5.1	1.8	.8	.2	5.0	.2
25	.4	.5	2.8	13.5	4.8	5.1	4.2	1.4	.4	.2	2.6	.2
26	.4	.5	2.4	8.4	3.9	4.8	3.3	1.4	.3	.2	2.2	.2
27	.4	.5	2.2	5.4	3.3	3.9	6.6	1.2	.3	.2	4.6	.2
28	.4	.4	1.8	4.2	2.8	3.3	8.0	1.2	.4	.2	2.4	.2
29	.4	.3	1.4	3.6	-	2.8	5.7	1.2	.5	.2	1.6	.2
30	.4	.3	1.4	2.8	-	2.8	4.5	1.0	.7	.2	1.4	.2
31	.4	-	3.2	5.0	-	2.6	-	.9	-	.2	1.0	-

Blue Mine Brook near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	2.2	4.6	1.6	2.4	b1.8	2.2	1.6	0.7	2.9	1.0	0.2
2	.2	2.0	3.7	1.6	2.2	1.6	1.8	1.4	.7	2.2	1.0	.2
3	.2	1.8	2.9	1.6	2.7	1.4	1.6	1.2	.7	1.8	.9	.2
4	.2	1.6	2.6	1.4	2.9	b1.4	1.4	1.0	.7	1.2	.8	.2
5	.2	1.4	2.4	1.4	2.2	1.8	1.4	1.0	.7	1.0	.8	0
6	.9	1.2	4.1	1.2	2.4	2.4	1.2	.9	.6	.8	2.1	0
7	1.0	1.2	3.4	6.5	4.1	1.8	1.2	.9	.5	.7	1.4	0
8	.2	1.2	2.4	4.6	2.9	1.6	2.2	.9	.8	.7	.9	0
9	.2	1.2	2.2	2.9	2.6	1.4	7.4	.9	.6	.6	.9	0
10	.2	.9	1.8	2.6	2.9	1.4	6.6	.9	.3	.5	.8	0
11	.2	.9	1.6	2.2	2.2	1.2	5.2	.9	.7	.3	3.2	0
12	.2	.9	1.6	2.0	2.2	1.4	4.3	.8	1.1	.7	.9	0
13	.2	52	1.2	2.0	2.6	1.4	3.4	.7	1.5	.6	.7	0
14	.2	21	1.2	1.8	2.6	2.0	2.9	.7	.9	.5	.6	0
15	.2	9.0	1.2	1.6	2.0	2.4	2.6	6.2	.7	.5	.4	.1
16	.2	7.2	2.0	1.4	1.8	2.7	2.4	2.6	.6	.4	.3	0
17	.2	3.5	2.9	1.6	1.8	4.3	2.2	1.6	.4	.4	.4	0
18	.2	3.1	7.8	1.4	1.8	3.7	4.7	1.2	.5	.4	.4	0
19	.7	2.9	4.6	b1.2	2.0	2.9	5.4	1.0	.4	.4	.4	2.6
20	7.7	2.9	3.4	1.0	3.3	2.6	3.7	1.0	.1	4.8	.4	10.7
21	2.7	2.6	2.9	1.0	2.2	2.4	3.7	1.0	.1	12.8	.4	55
22	1.4	2.2	2.6	1.0	2.0	2.4	3.4	1.2	.1	14.3	.3	14.5
23	5.1	2.0	2.4	1.0	2.4	2.2	2.9	1.0	.4	27	.3	5.7
24	4.0	1.8	2.2	2.5	2.9	3.7	2.6	1.0	1.6	15.5	.3	3.7
25	2.4	1.6	2.9	68	2.4	2.0	2.4	1.0	1.1	7.1	.2	2.2
26	2.0	1.6	2.4	13.4	2.0	1.8	2.2	1.0	8.6	4.6	.2	1.8
27	1.8	1.6	2.0	7.0	2.0	1.8	2.0	1.8	32	3.1	.2	1.6
28	6.6	16.0	2.0	4.6	b1.6	1.6	2.0	1.2	22	2.4	.1	1.2
29	5.2	12.4	1.8	4.0	-	1.4	1.8	.9	7.7	2.0	0	1.0
30	3.4	6.6	1.6	3.4	-	1.4	1.6	.8	4.1	2.0	0	1.0
31	2.6	-	1.6	3.7	-	1.8	-	.8	-	1.4	0	-

a Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.0	2.0	1.6	2.9	12.6	5.1	2.0	0.4	0.5	0.2	0.2
2	.9	1.0	1.8	1.6	2.4	7.0	18.1	2.0	.4	.3	.2	a.1
3	.9	.9	1.8	1.6	12.7	5.2	8.6	1.8	.3	.3	.2	.1
4	.8	.9	12.2	1.6	10.6	4.3	5.9	a1.2	.3	.3	.1	.1
5	.7	1.0	22	1.6	5.9	5.2	4.9	a1.0	.2	.2	.2	.1
6	.9	1.2	31	13.5	4.6	6.6	9.9	a.7	.2	.2	.2	.1
7	c.9	1.2	10.9	6.6	4.0	4.9	10.7	2.1	.2	.2	.1	.1
8	c.7	1.2	7.4	4.6	3.4	4.0	6.6	1.4	.2	.2	.1	.1
9	c.6	1.2	5.9	4.0	3.1	4.0	6.9	1.2	.2	.2	.1	.1
10	c.6	.7	7.7	3.4	3.1	3.7	4.6	2.6	.2	.2	.1	.1
11	.6	.6	5.5	3.1	6.6	2.6	4.3	1.4	.2	.2	.1	.1
12	.6	.8	4.9	2.6	4.9	2.6	4.9	1.0	.2	.2	.1	.1
13	.6	.9	4.0	2.4	4.3	2.6	3.7	.7	.4	.2	.1	.1
14	.6	.9	3.4	2.2	4.0	2.6	3.1	.6	.6	.2	.1	.1
15	.6	.9	2.9	2.2	11.4	3.4	3.1	.7	a.1	.2	.1	.1
16	.6	.9	2.4	2.0	10.9	10.4	2.6	.7	a.1	.2	.1	.1
17	.6	1.4	2.4	1.8	6.2	7.0	2.8	.7	.1	.2	.1	.1
18	.6	1.4	2.4	1.6	5.2	5.2	6.2	.7	.1	.2	.1	.1
19	.6	2.1	2.2	1.6	4.6	4.3	18.4	.5	.1	.2	.1	.1
20	.9	3.4	2.0	1.4	4.9	4.0	15.6	.5	.2	.2	.4	.1
21	2.1	2.2	1.8	1.6	4.6	3.4	7.8	.5	.2	.2	.3	.1
22	1.0	2.0	1.6	1.6	3.7	3.1	5.5	1.0	.2	.2	.2	.1
23	.8	2.0	1.4	b1.4	2.9	2.9	4.3	1.0	.3	.2	.2	.1
24	1.3	2.0	1.4	1.2	2.6	3.1	3.7	.9	.3	.2	.3	.1
25	1.7	2.0	1.4	1.2	2.2	3.7	3.4	.7	.3	.1	.3	.1
26	1.0	1.8	1.2	b1.2	9.9	3.4	2.9	.6	.3	.1	.3	.1
27	1.0	1.8	4.3	1.2	8.7	3.1	2.6	.5	.2	.1	.2	.1
28	1.0	1.8	2.5	1.2	15.1	7.6	3.6	.5	.2	.7	.2	.1
29	1.2	1.8	2.0	1.0	-	5.2	2.6	.6	.2	.4	.2	.1
30	1.2	1.8	1.8	5.6	-	6.6	2.2	.5	1.3	.3	.2	.1
31	1.2	-	1.6	4.2	-	6.2	-	.5	-	.2	.2	-

a Gage-height record wholly or partly missing; discharge computed on basis of recorded range in stage or by interpolation.

b Stage-discharge relation affected by ice.

c Stage-discharge relation affected by leaves on control; discharge computed by shifting-control method based on drop in stage recorded when control was cleaned.

Blue Mine Brook near Wanaque--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.6	0.7	b0.7	0.5	0.8	10.4	2.4	12.2	1.1	a0.3	8.8
2	.1	.6	.8	b.7	.5	.8	6.8	2.0	11.4	1.0	a.3	4.2
3	.1	.6	1.0	b.7	.5	.9	5.6	2.7	6.8	.9	a.2	1.8
4	.1	.6	1.0	.7	.5	3.7	7.8	3.2	5.1	1.3	a.2	1.4
5	.1	2.3	.9	.7	.5	3.6	5.7	2.6	3.9	2.8	a.2	1.1
6	.1	2.1	.9	.7	.4	3.6	4.5	2.2	3.1	1.4	a.1	.9
7	.2	1.1	.9	b.7	.5	3.3	3.6	2.0	2.6	1.1	a.1	.9
8	.2	.9	.8	b.7	.6	3.1	16.4	1.8	2.2	.9	a.1	.9
9	.2	.9	.8	b.7	.5	3.1	18.5	2.2	2.2	.7	a.1	.9
10	.2	.9	.8	b.7	.6	3.1	8.4	2.0	2.2	.7	a.1	.9
11	.2	.9	1.1	.7	1.9	2.5	6.1	1.8	2.0	.6	a.1	.9
12	.2	.9	1.0	.7	1.0	2.5	8.8	1.8	1.8	2.3	a.1	.8
13	.1	.8	.9	.7	.8	2.4	9.7	1.8	1.4	1.6	a.1	.6
14	.1	.8	1.0	5.5	b.7	3.1	6.8	1.6	1.2	1.0	a.1	.4
15	.1	.8	1.0	20	b.7	61	5.7	1.2	1.1	.8	a.1	a.3
16	.1	.8	.9	4.4	b.6	12.9	4.8	5.4	1.1	.8	a.1	a.2
17	.1	.8	.9	2.4	.6	8.0	4.2	11.0	1.0	.8	a.1	a.1
18	.1	.8	.9	b2.0	.6	6.8	4.2	5.4	1.0	.7	a.1	a.1
19	.1	.8	.9	b1.6	1.0	9.9	5.1	3.9	.9	.6	a.1	a.1
20	.1	.8	1.3	b1.5	2.4	11.0	10.7	3.3	.8	a.3	a.1	a.1
21	.1	.8	1.6	1.4	1.8	10.6	13.5	3.6	.8	a.1	a.1	a.1
22	.4	.7	1.2	1.1	1.4	7.6	10.6	3.3	.6	a.1	a.1	a.1
23	.3	.7	1.1	.9	1.4	5.1	6.8	4.5	.4	a.1	a.1	a.1
24	.3	.7	1.0	.8	1.2	3.9	5.1	3.9	2.5	a.1	a.1	a.1
25	.2	.7	.9	.7	1.2	3.3	4.2	3.0	2.0	a.1	a.2	7.0
26	.2	.7	b.8	.6	1.0	3.0	3.8	4.0	3.5	.6	a.3	1.3
27	.2	.7	b.7	.6	b1.0	2.6	3.6	4.4	2.3	.8	a.3	.8
28	.1	.7	b.7	b.5	1.0	4.6	3.1	6.4	1.4	a.1	3.5	.5
29	.1	.7	b.7	b.4	1.0	4.8	2.8	4.8	1.8	a.1	1.4	a.3
30	.1	.7	b.7	.4	-	9.7	2.6	3.6	1.2	.6	.9	a.2
31	.8	-	b.7	.5	-	22	-	16.4	-	.9	.7	-

a No gage-height record; discharge computed on basis of records for other stations in Wanaque River Basin.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October						
November						
December 27-31, 1934	8.2	1.8	1.4	1.64	0.959	0.18
Calendar year	-	-	-	-	-	-
January 1935	77.6	12.6	1.1	2.50	1.46	1.68
February	64.1	5.7	.8	2.29	1.34	1.40
March	94.5	4.5	1.8	3.05	1.78	2.05
April	55.6	3.6	1.0	1.85	1.08	1.20
May	32.5	2.2	.3	1.05	.614	.71
June	14.1	1.8	.1	.47	.275	.31
July	12.3	1.7	.1	.40	.234	.27
August	5.2	.2	.1	.17	.099	.11
September	10.6	2.1	.2	.35	.205	.23
Water year	-	-	-	-	-	-
October 1935	18.8	11.4	.1	.61	.357	.41
November	105.1	15.0	1.2	3.50	2.05	2.29
December	57.9	4.8	1.1	1.87	1.09	1.26
Calendar year 1935	548.3	15.0	.1	1.50	.877	11.92
January 1936	136.1	22	1.0	4.39	2.57	2.96
February	35.6	3.6	.8	1.23	.719	.78
March	385.5	85	2.4	12.4	7.25	8.36
April	153.2	37	1.4	5.11	2.99	3.34
May	39.5	4.8	.5	1.27	.743	.86
June	24.1	6.9	.1	.80	.468	.52
July	3.7	.3	.1	.12	.070	.08
August	3.3	.3	.1	.11	.064	.07
September	4.4	1.3	.1	.15	.088	.10
Water year 1935-36	967.2	85	.1	2.64	1.54	21.03

Blue Mine Brook near Wanaque--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	13.0	3.1	0.1	0.42	0.246	0.28
November	15.7	1.0	.3	.52	.304	.34
December	130.6	43	.3	4.21	2.46	2.84
Calendar year 1936	944.7	85	.1	2.58	1.51	20.53
January 1937	161.9	13.5	2.2	5.22	3.05	3.52
February	104.4	30	1.4	3.73	2.18	2.27
March	81.9	6.4	1.2	2.64	1.54	1.78
April	145.6	21	2.2	4.85	2.84	3.17
May	104.3	19.6	.9	3.36	1.96	2.26
June	24.1	5.1	.2	.80	.468	.52
July	9.9	1.4	.2	.32	.187	.22
August	49.6	21	.2	1.60	.936	1.08
September	19.2	4.4	.2	.64	.374	.42
Water year 1936-37	860.2	43	.1	2.36	1.38	18.70
October 1937	50.7	7.7	.2	1.64	.959	1.11
November	166.5	52	.9	5.55	3.25	3.63
December	82.0	7.8	1.2	2.65	1.55	1.79
Calendar year 1937	1 000.1	52	.2	2.74	1.60	21.77
January 1938	151.2	68	1.0	4.88	2.85	3.29
February	67.1	4.1	1.6	2.40	1.40	1.46
March	63.7	4.3	1.2	2.05	1.20	1.38
April	88.4	7.4	1.2	2.95	1.73	1.93
May	39.1	6.2	.7	1.26	.737	.85
June	90.9	32	.1	3.03	1.77	1.98
July	113.6	27	.3	3.66	2.14	2.47
August	20.3	3.2	0	.65	.380	.44
September	101.9	55	0	3.40	1.99	2.22
Water year 1937-38	1 035.4	68	0	2.84	1.66	22.55
October 1938	27.8	2.1	.6	.90	.526	.61
November	42.8	3.4	.6	1.43	.836	.93
December	155.8	31	1.2	5.03	2.94	3.39
Calendar year 1938	962.6	68	0	2.64	1.54	20.95
January 1939	82.4	13.5	1.0	2.66	1.56	1.80
February	165.4	15.1	2.2	5.91	3.46	3.60
March	150.5	12.6	2.6	4.85	2.84	3.27
April	184.6	18.4	2.2	6.15	3.60	4.02
May	30.8	2.6	.5	.99	.579	.67
June	8.2	1.3	.1	.27	.158	.18
July	7.3	.7	.1	.24	.140	.16
August	5.4	.4	.1	.17	.099	.11
September	3.1	.2	.1	.10	.058	.06
Water year 1938-39	864.1	31	.1	2.37	1.39	18.80
October 1939	5.4	.8	.1	.17	.099	.12
November	25.9	2.3	.6	.86	.503	.56
December	28.6	1.6	.7	.92	.538	.62
Calendar year 1939	697.6	18.4	.1	1.91	1.12	15.17
January 1940	54.4	20	.4	1.75	1.02	1.18
February	26.4	2.4	.4	.91	.532	.57
March	223.3	61	.8	7.20	4.21	4.85
April	209.9	18.5	2.6	7.00	4.09	4.56
May	118.2	16.4	1.2	3.81	2.23	2.57
June	80.5	12.2	.4	2.68	1.57	1.75
July	25.0	2.8	.1	.81	.474	.55
August	10.4	3.5	.1	.34	.199	.23
September	35.9	8.8	.1	1.20	.702	.78
Water year 1939-40	843.9	61	.1	2.31	1.35	18.34

Ramapo River near Mahwah

Location.- Water-stage recorder, lat. 41°05'51", long. 74°09'43", 350 feet downstream from State Highway 2, three-quarters of a mile downstream from Mahwah River, and 1 mile west of Mahwah. Bergen County. Datum of gage is 253.10 feet above mean sea level (United States Coast and Geodetic Survey datum). Prior to Dec. 23, 1936, recorder was at site 250 feet downstream, to same datum.

Drainage area.- 118 square miles for both sites.

Records available.- February 1903 to December 1906 and September 1922 to September 1940.

Average discharge.- 18 years (1922-40), 210 second-feet.

Extremes.- 1903-6, 1922-40: Maximum discharge, about 12,400 second-feet (revised) Oct. 9, 1903 (gage height, 9.8 feet, site and datum then in use); maximum gage height, 10.4 feet, present datum, Sept. 22, 1938; minimum discharge, 7 second-feet (regulated) Dec. 16, 1930. Sept. 12, 1932; minimum daily, 8 second-feet Aug. 25, 1929, Sept. 5, 12, 1932.

Peak gage height and discharge during period of this report.-

1934: Dec. 1 (6 p.m.) 6.18 ft., 1,400 sec.-ft.

1936: Mar. 12 (8 a.m.) 9.00 ft., 7,780 sec.-ft.; Mar. 19 (3 to 6 a.m.) 7.64 ft., 3,320 sec.-ft.; Mar. 21 (noon to 4 p.m.) 7.05 ft., 1,920 sec.-ft.; Apr. 6 (5 p.m.) 7.08 ft., 2,000 sec.-ft.; Dec. 20 (6 p.m.) 7.69 ft., 3,450 sec.-ft.

1937: Feb. 22 (4 p.m.) 8.05 ft., 3,720 sec.-ft.; May 15 (9 to 10 a.m.) 6.93 ft., 1,570 sec.-ft.; Nov. 14 (5 a.m.) 7.92 ft., 2,680 sec.-ft.; Nov. 29 (5 a.m.) 6.88 ft., 1,450 sec.-ft.

1938: Jan. 25 (5 to 8 p.m.) 8.15 ft., 3,300 sec.-ft.; June 28 (4 p.m.) 7.21 ft., 1,710 sec.-ft.; July 23 (11 p.m.) 7.93 ft., 2,580 sec.-ft.; Sept. 22, 5,500 sec.-ft. (estimated); Dec. 6 (8 to 11 a.m.) 8.06 ft., 2,480 sec.-ft.

1939: Apr. 20 (3 to 5 a.m.) 7.24 ft., 1,740 sec.-ft.

1940: Mar. 15 (3 p.m.) 7.50 ft., 1,960 sec.-ft.; Mar. 31 (10 to 11 p.m.) 7.58 ft., 2,030 sec.-ft.; Apr. 9 (7 to 8 a.m.) 7.58 ft., 2,030 sec.-ft.; Apr. 22 (3 to 4 a.m.) 6.87 ft., 1,480 sec.-ft.; May 31 (10 to 11 p.m.) 7.07 ft., 1,620 sec.-ft.

Remarks.- Diurnal fluctuation during low flow caused by power plants above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	538	115	1 280	227	a105	296	207	135	38	110	54	39
2	331	158	1 060	260	a100	284	207	112	23	87	65	20
3	248	137	708	201	a130	331	188	110	63	70	68	13
4	194	282	593	b160	a130	345	168	114	23	52	65	61
5	164	612	502	b150	a115	304	162	119	60	61	59	126
6	527	484	406	150	b100	389	158	129	48	64	45	107
7	708	a540	345	188	b90	468	154	166	58	62	48	84
8	436	a400	284	255	99	389	138	218	60	99	19	68
9	307	a340	239	277	98	323	235	158	77	107	39	47
10	244	a290	207	858	109	312	420	138	98	127	20	69
11	211	a260	b190	848	109	359	436	158	73	124	33	74
12	205	a240	b170	519	b100	484	389	140	71	90	55	45
13	172	a225	164	374	101	574	451	127	43	81	28	58
14	150	a210	156	328	110	451	484	122	39	73	44	44
15	138	196	146	284	312	374	406	110	47	69	22	49
16	129	174	142	248	359	359	374	98	27	69	52	41
17	122	162	148	232	468	436	331	94	42	71	16	19
18	117	152	140	218	374	389	289	85	284	74	29	60
19	114	144	281	188	292	331	255	91	217	70	43	35
20	112	137	766	201	260	323	227	88	185	85	15	31
21	104	133	451	232	218	331	216	77	142	173	36	15
22	120	135	320	269	203	345	192	70	124	138	17	29
23	126	133	265	234	196	299	182	47	98	106	36	46
24	117	180	237	b170	192	279	170	91	86	127	29	14
25	101	182	218	b150	207	244	152	63	67	142	11	30
26	112	152	262	b175	392	218	140	41	72	153	31	11
27	158	138	284	b150	502	198	129	77	56	111	11	30
28	137	138	b210	a140	345	216	124	37	114	88	29	14
29	114	158	b185	a150	-	331	126	63	88	74	13	13
30	106	533	b175	a135	-	269	144	29	126	61	30	40
31	98	-	b170	a130	-	234	-	73	-	58	13	-

a No gage-height record: discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.

Ramapo River near Mahwah--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	174	521	a60	b125	a225	341	152	52	54	14	39
2	30	152	380	a100	b120	a210	330	142	47	35	13	25
3	12	135	308	a905	b118	a208	386	134	45	30	22	35
4	30	108	253	1 020	122	a225	330	361	49	21	24	34
5	11	88	200	574	124	a290	288	286	46	20	26	33
6	10	78	176	380	122	a275	1 400	208	30	32	35	22
7	33	54	154	312	111	a250	1 460	172	34	31	32	20
8	12	81	146	280	b102	a250	946	158	48	26	27	30
9	30	77	158	320	b97	a280	688	136	39	a22	24	29
10	11	53	162	610	b93	421	708	119	39	a19	37	24
11	29	60	156	488	b91	2 010	650	106	38	a18	33	30
12	13	70	146	395	b90	6 630	578	97	30	18	21	31
13	11	74	137	352	b90	3 320	614	96	57	30	29	19
14	28	139	122	346	b100	1 720	669	162	106	31	31	27
15	14	154	118	324	b145	1 190	596	144	148	24	30	28
16	a28	122	185	667	b130	974	544	108	96	a22	30	20
17	a12	144	180	556	117	942	462	89	69	a21	34	18
18	a28	215	a150	410	122	2 320	369	82	67	a21	29	22
19	a14	191	a122	355	a110	3 050	320	103	110	a20	27	72
20	a12	209	a100	358	a100	1 920	291	125	89	a33	27	50
21	28	303	a85	b322	a96	1 780	266	96	80	a32	30	45
22	14	301	a76	b285	a98	1 510	247	79	68	a27	19	40
23	14	282	a72	270	a100	1 020	219	72	59	a24	32	35
24	12	246	a69	b240	a102	810	195	68	46	a22	92	28
25	30	204	a66	b205	a106	669	174	60	41	21	69	31
26	14	195	a63	b185	a122	561	172	54	43	19	57	24
27	12	193	a60	b162	a175	527	164	47	38	31	32	22
28	20	222	a60	b148	a240	688	148	52	25	24	34	31
29	14	946	a60	b137	a230	544	142	66	69	23	45	34
30	28	848	a60	b130	-	446	136	31	64	19	32	34
31	162	-	a60	b125	-	401	-	42	-	19	42	-

a No gage-height record; discharge computed on basis of records for station at Pompton Lakes.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	76	65	56	362	546	315	238	424	112	177	29	134
2	96	71	61	304	411	292	229	362	99	183	57	117
3	72	60	141	463	338	270	227	315	96	118	42	104
4	53	67	146	476	292	252	205	279	90	92	38	84
5	44	101	126	374	270	255	197	248	89	83	36	113
6	43	116	117	315	252	240	735	277	81	78	33	157
7	43	105	314	315	240	217	847	398	96	58	31	124
8	38	101	279	374	223	203	546	315	87	44	26	104
9	34	114	202	350	235	215	463	270	78	49	46	90
10	26	114	192	338	246	191	437	242	58	41	70	73
11	30	100	259	350	217	170	374	215	70	26	102	57
12	32	98	493	304	191	157	326	189	81	59	295	42
13	45	96	410	274	181	154	288	197	41	72	290	331
14	41	94	308	255	225	152	259	433	58	84	155	1 170
15	40	68	254	390	255	161	248	1 420	64	118	102	663
16	28	78	221	450	207	219	248	971	68	201	86	346
17	387	75	431	374	179	199	221	606	65	189	70	376
18	583	77	451	606	166	183	199	504	52	117	48	207
19	294	84	332	532	155	195	199	424	55	86	44	178
20	180	61	2 590	437	150	223	183	362	40	78	59	150
21	150	42	1 980	450	162	362	187	304	84	62	64	129
22	130	61	921	721	2 850	386	488	261	270	45	83	113
23	113	73	546	1 050	2 080	362	532	270	181	40	576	99
24	101	65	437	898	946	338	411	238	107	a38	546	89
25	93	73	386	1 240	674	362	338	199	84	a35	342	90
26	82	78	350	1 170	518	386	292	176	77	47	217	81
27	73	64	315	788	437	326	463	161	73	87	266	92
28	73	73	288	574	362	304	809	154	66	118	386	62
29	67	39	257	504	-	268	692	159	70	80	261	94
30	58	63	231	450	-	259	518	141	66	57	189	73
31	59	-	263	450	-	246	-	125	-	45	159	-

a No gage-height record; discharge computed on basis of records for station at Pompton Lakes.

Ramapo River near Mahwah--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	61	191	532	193	350	b120	189	143	81	315	197	62
2	63	176	437	197	274	161	174	130	77	242	181	52
3	50	169	374	193	268	157	154	115	78	193	153	42
4	74	153	315	174	326	b130	145	112	64	155	136	41
5	75	142	286	161	274	146	129	115	78	136	217	45
6	77	139	350	154	257	261	124	102	73	113	212	44
7	96	131	476	400	463	248	141	98	71	99	190	a45
8	81	127	374	518	398	209	174	92	92	84	161	a43
9	80	123	304	350	326	178	414	90	83	80	178	a38
10	55	115	252	283	338	163	504	94	76	67	167	a42
11	80	104	221	250	292	146	398	92	84	74	300	a38
12	70	108	195	229	255	148	338	81	77	88	287	a35
13	50	871	178	223	274	146	304	71	109	189	180	a40
14	57	2 270	164	209	338	178	277	64	88	132	143	a45
15	73	1 190	155	193	285	227	250	369	72	112	120	a45
16	52	692	203	170	231	209	229	420	59	80	106	a45
17	36	518	292	174	211	263	215	244	62	70	98	a45
18	62	411	562	b150	209	272	225	166	74	74	101	a45
19	75	350	546	b130	225	252	424	141	48	77	108	a140
20	259	326	398	b140	285	240	338	129	49	139	88	664
21	286	315	338	141	242	235	304	127	47	575	74	a2 200
22	187	281	304	145	215	231	281	132	46	2 040	74	a4 200
23	216	242	281	143	215	215	261	125	47	1 830	64	a1 880
24	270	219	252	161	255	207	227	118	70	2 050	57	a960
25	205	203	274	2 370	233	191	211	125	80	1 150	57	a550
26	167	197	272	2 140	201	179	199	115	90	635	52	a400
27	153	197	233	970	191	176	187	163	355	450	48	a280
28	290	608	219	546	176	164	176	161	1 580	338	52	a250
29	382	1 250	207	411	-	157	163	120	1 070	281	55	222
30	279	748	189	362	-	152	152	99	528	292	50	190
31	220	-	185	398	-	166	-	92	-	238	49	-

a No gage-height record; discharge computed on basis of records for station at Pompton Lakes.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	161	81	152	150	203	1 090	437	219	61	118	32	16
2	a140	75	146	152	172	718	901	195	57	92	32	16
3	a130	75	137	155	355	526	916	179	45	56	26	18
4	117	74	493	145	616	450	632	164	48	47	25	44
5	108	69	1 110	130	414	455	476	154	41	40	23	21
6	103	76	2 320	483	331	546	540	141	37	37	21	15
7	140	107	1 680	622	304	476	1 040	137	34	33	21	14
8	113	105	904	437	277	367	699	125	32	29	20	16
9	102	130	699	352	255	338	546	132	37	25	23	16
10	98	115	737	310	252	329	455	178	a35	31	24	16
11	87	96	632	290	362	288	434	150	a40	38	24	17
12	81	96	512	255	360	288	485	118	a45	30	20	18
13	74	90	432	225	304	301	416	104	a50	25	20	19
14	76	90	374	223	301	279	348	93	a80	24	20	19
15	65	80	317	211	413	281	320	92	73	23	21	18
16	58	78	268	197	888	567	292	84	57	23	20	18
17	69	96	248	185	563	580	272	80	45	22	18	18
18	68	110	248	174	460	453	442	76	42	20	18	17
19	58	118	233	161	440	374	812	71	34	20	18	16
20	56	191	215	b140	458	336	1 530	66	38	21	32	16
21	192	170	193	145	515	310	896	65	32	22	29	17
22	152	141	178	146	445	292	622	109	34	23	27	17
23	109	136	159	b120	343	277	498	141	31	23	26	16
24	110	146	155	136	304	281	419	120	27	21	23	17
25	174	178	152	120	272	338	367	90	25	22	25	17
26	133	176	141	b100	400	352	326	78	33	20	24	17
27	113	168	285	b90	678	343	304	71	31	32	24	17
28	106	163	306	92	661	471	297	67	25	72	23	17
29	105	154	219	94	-	518	281	70	30	42	20	17
30	101	152	178	181	-	458	246	65	42	33	16	22
31	87	-	157	285	-	518	-	64	-	30	15	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for station at Pompton Lakes.
b Stage-discharge relation affected by ice.

Ramapo River near Mahwah--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	115	35	b36	47	106	1 780	277	1 290	126	80	361
2	22	88	31	b33	46	100	1 090	281	952	106	61	534
3	29	65	38	b30	47	96	756	319	630	96	47	321
4	29	50	61	b29	46	212	788	294	462	113	41	196
5	40	60	53	28	44	239	726	264	380	118	46	148
6	36	218	30	29	50	219	588	221	314	100	58	104
7	25	187	30	29	64	211	492	198	254	83	43	89
8	23	120	37	29	69	198	641	179	213	76	26	76
9	23	94	32	30	66	196	1 870	186	193	76	27	76
10	22	77	33	30	64	208	718	172	179	72	28	69
11	21	58	50	29	155	180	764	162	172	52	29	66
12	19	62	62	30	172	179	738	165	165	63	29	63
13	19	57	45	32	135	172	1 110	148	150	161	29	60
14	20	53	32	67	148	173	830	140	129	115	29	58
15	20	40	43	988	223	1 580	662	134	116	90	29	58
16	20	32	43	627	187	1 340	597	186	127	79	27	46
17	19	35	34	b300	155	760	520	624	116	73	28	41
18	18	40	46	b160	116	603	498	462	107	60	29	58
19	18	38	45	b100	110	649	490	333	101	48	31	58
20	19	50	55	b90	204	886	616	279	90	36	33	34
21	20	43	90	127	198	988	1 190	252	85	39	33	32
22	28	26	88	112	179	800	1 380	237	76	47	32	31
23	26	27	66	96	153	574	1 060	256	72	55	32	44
24	24	34	66	89	138	424	809	270	92	62	29	50
25	24	33	52	76	129	354	609	245	187	33	29	50
26	24	33	41	b65	b120	308	511	270	199	37	42	141
27	20	41	b36	62	b110	314	436	262	225	105	41	99
28	28	35	36	60	b110	413	383	285	153	86	159	69
29	27	26	39	56	110	588	338	275	198	69	210	63
30	31	26	38	54	-	669	303	225	162	76	133	64
31	62	-	39	50	-	1 830	-	935	-	97	96	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	6 460	708	98	208	1.76	2.03
November	7 140	612	115	238	2.02	2.25
December	10 704	1 280	140	345	2.92	3.37
Calendar year 1934	86 355	1 670	12	237	2.01	27.21
January 1935	8 101	858	130	261	2.21	2.55
February	5 816	502	90	208	1.76	1.83
March	10 485	574	198	338	2.86	3.30
April	7 304	484	124	243	2.06	2.30
May	3 180	218	29	103	.873	1.01
June	2 549	284	23	85.0	.720	.80
July	2 876	173	52	92.8	.786	.91
August	1 075	68	11	34.7	.294	.34
September	1 332	126	11	44.4	.376	.42
Water year 1934-35	67 022	1 280	11	184	1.56	21.11
October 1935	728	162	10	23.5	.199	.23
November	6 118	946	53	204	1.73	1.93
December	4 605	521	60	149	1.26	1.45
Calendar year 1935	54 169	946	10	148	1.25	17.07
January 1936	11 021	1 020	60	356	3.02	3.48
February	3 498	240	90	121	1.03	1.11
March	35 666	6 630	208	1 151	9.75	11.24
April	13 833	1 460	136	461	3.91	4.36
May	3 647	361	31	118	1.00	1.15
June	1 772	148	25	59.1	.501	.56
July	789	54	18	25.5	.216	.25
August	1 019	82	13	32.9	.279	.32
September	932	72	18	31.1	.264	.29
Water year 1935-36	83 628	6 630	10	228	1.93	26.37

Ramapo River near Mahwah--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	3 184	583	26	103	0.873	1.01
November	2 376	116	39	79.2	.671	.75
December	13 357	2 590	56	431	3.65	4.21
Calendar year 1936	91 094	6 630	13	249	2.11	28.73
January 1937	15 938	1 240	255	514	4.36	5.03
February	13 008	2 850	150	465	3.94	4.10
March	7 862	386	152	254	2.15	2.48
April	11 399	847	183	380	3.22	3.59
May	10 659	1 420	125	344	2.92	3.37
June	2 558	270	40	85.3	.723	.81
July	2 607	201	26	84.1	.713	.82
August	4 748	576	26	153	1.30	1.50
September	5 542	1 170	42	185	1.57	1.75
Water year 1936-37	93 238	2 850	26	255	2.16	29.42
October 1937	4 181	382	36	135	1.14	1.31
November	12 566	2 270	104	419	3.55	3.96
December	9 370	562	155	302	2.56	2.95
Calendar year 1937	100 438	2 850	26	275	2.33	31.67
January 1938	12 278	2 370	130	396	3.36	3.87
February	7 607	463	176	272	2.31	2.40
March	5 927	272	120	191	1.62	1.87
April	7 307	504	124	244	2.07	2.31
May	4 245	420	64	137	1.16	1.34
June	5 408	1 580	46	180	1.53	1.71
July	12 398	2 050	67	400	3.39	3.91
August	3 955	300	48	128	1.08	1.24
September	12 728	4 200	35	424	3.59	4.00
Water year 1937-38	97 970	4 200	35	268	2.27	30.87
October 1938	3 286	192	56	106	.898	1.04
November	3 536	191	69	118	1.00	1.12
December	13 980	2 320	137	451	3.82	4.40
Calendar year 1938	92 655	4 200	35	254	2.15	29.21
January 1939	6 506	622	90	210	1.78	2.05
February	11 346	888	172	405	3.43	3.57
March	13 200	1 090	277	426	3.61	4.16
April	16 249	1 530	246	542	4.59	5.12
May	3 498	219	64	113	.958	1.10
June	1 241	80	25	41.4	.351	.39
July	1 094	118	20	35.3	.299	.34
August	710	32	15	22.9	.194	.22
September	542	44	14	18.1	.153	.17
Water year 1938-39	75 188	2 320	14	206	1.75	23.68
October 1939	777	62	18	25.1	.213	.25
November	1 863	218	26	62.1	.526	.59
December	1 426	90	30	46.0	.390	.45
Calendar year 1939	58 452	1 530	14	160	1.36	18.41
January 1940	3 573	988	28	115	.975	1.12
February	3 395	223	44	117	.992	1.07
March	15 569	1 830	96	502	4.25	4.90
April	23 293	1 870	303	776	6.58	7.34
May	8 536	935	134	275	2.33	2.69
June	7 589	1 290	72	253	2.14	2.39
July	2 449	161	33	79.0	.669	.77
August	1 586	210	26	51.2	.434	.50
September	3 159	534	31	105	.890	.99
Water year 1939-40	73 215	1 870	18	200	1.69	23.06

Ramapo River at Pompton Lakes

Location.- Water-stage recorder above concrete dam, lat. 40°59'20", long. 74°16'48", at hydroelectric plant in borough of Pompton Lakes, Passaic County, 1½ miles upstream from mouth. Datum of gage is 201.08 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 160 square miles.

Records available.- October 1921 to September 1940.

Average discharge.- 19 years, 285 second-feet.

Extremes.- 1921-40: Maximum discharge, 12,300 second-feet Mar. 12, 1936 (gage height, 3.56 feet), from rating curve extended above 2,000 second-feet by dam formula; practically no flow (result of regulation) for several days in October and November 1922, August and September, 1923, July 1927, and on Oct. 20, 1933.

Peak gage height and discharge during period of this report.-

1934: Dec. 1 (5 a.m.) 1.14 ft., 1,750 sec.-ft.

1936: Mar. 12 (12:30 to 2 p.m.) 3.56 ft., 12,300 sec.-ft.; Mar. 19 (8 to 10 a.m.) 1.98 ft., 4,490 sec.-ft.; Apr. 7 (1 a.m.) 1.56 ft., 2,960 sec.-ft.; Dec. 20 (10 p.m.) 1.60 ft., 2,970 sec.-ft.

1937: Feb. 22-23 (10 p.m. to 4 a.m.) 1.78 ft., 3,510 sec.-ft.; May 15 (9 a.m. to 8 p.m.) 1.16 ft., 1,800 sec.-ft.; Nov. 14 (1 p.m.) 1.67 ft., 3,140 sec.-ft.; Nov. 29 (2 p.m.) 1.19 ft., 1,870 sec.-ft.

1938: Jan. 26 (2 to 4 a.m.) 1.81 ft., 3,620 sec.-ft.; June 28 (8 to 10 p.m.) 1.33 ft., 2,100 sec.-ft.; July 23-24 (11 p.m. to 6 a.m.) 1.76 ft., 2,820 sec.-ft.; Sept. 22 (6 to 7:30 a.m.) 3.13 ft., 6,620 sec.-ft.; Dec. 6 (2 to 5 p.m.) 1.93 ft., 3,260 sec.-ft.

1939: Apr. 20 (11 a.m.) 1.51 ft., 2,180 sec.-ft.

1940: Mar. 15 (8 p.m.) 1.72 ft., 2,700 sec.-ft.; Apr. 1 (4 to 6 a.m.) 1.67 ft., 2,560 sec.-ft.; Apr. 9 (9 a.m. to 2 p.m.) 1.81 ft., 2,940 sec.-ft.; Apr. 22 (8 a.m. to 1 p.m.) 1.44 ft., 1,940 sec.-ft.; June 1 (4 to 8 a.m.) 1.41 ft., 1,950 sec.-ft.

Remarks.- Figures of daily discharge represent flow over spillway and through turbines and waste gate. Turbines not operated since August 1939. Slight regulation by Pompton Lakes.

Cooperation.- Recorder inspected by employee of Jersey Central Power & Light Co.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	784	156	1 600	319	a150	381	279	184	78	166	71	29
2	478	200	1 400	344	131	356	272	164	111	107	89	26
3	352	185	911	296	179	415	256	153	122	91	95	42
4	268	283	722	231	178	422	230	169	112	120	87	35
5	231	749	605	201	151	392	221	166	31	31	77	150
6	676	636	489	213	146	444	220	176	80	100	74	142
7	961	682	405	238	129	540	208	212	55	77	67	a125
8	607	539	355	337	143	486	194	277	97	124	58	a110
9	442	458	297	365	152	387	265	221	117	139	37	a100
10	425	401	245	794	156	384	479	192	95	187	57	a92
11	386	361	242	1 030	156	430	489	198	131	168	34	a85
12	312	322	209	641	140	560	468	198	84	133	46	a80
13	241	291	218	460	105	678	523	174	68	123	63	a77
14	209	282	209	400	174	545	580	171	81	105	44	a74
15	197	262	190	317	435	452	512	158	55	69	63	126
16	187	242	191	304	481	412	476	142	64	116	39	35
17	178	a226	196	303	605	482	426	135	28	109	69	32
18	171	a212	189	280	555	443	363	131	203	100	29	41
19	166	a205	335	233	440	425	325	124	267	87	48	71
20	160	a197	969	250	371	430	278	114	228	a110	51	45
21	150	196	628	286	302	438	a260	117	192	a250	37	44
22	159	205	441	351	283	464	a250	111	168	a190	31	40
23	169	201	361	323	267	405	247	108	139	a150	32	39
24	162	247	315	238	261	370	228	56	127	a175	30	38
25	146	258	296	b210	276	326	207	126	80	a210	34	38
26	147	208	327	b220	448	300	191	104	86	a225	31	31
27	190	205	368	b203	608	271	179	109	115	a160	33	21
28	187	203	296	b190	449	276	168	123	105	115	35	42
29	156	223	288	223	-	421	189	115	134	102	31	19
30	146	574	269	183	-	373	-	113	145	112	33	6
31	146	-	218	166	-	310	-	48	-	84	35	-

a No gage-height record; discharge over spillway computed on basis of records for station near Mahwah.

b Stage-discharge relation for spillway affected by ice.

Ramapo River at Pompton Lakes--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	194	a840	123	162	306	465	206	a84	87	28	49
2	6	173	a540	51	161	274	478	218	a99	74	12	56
3	16	158	a420	a1 250	154	285	520	213	a89	55	35	37
4	23	136	a340	a1 350	163	301	453	452	a87	49	30	35
5	32	72	a260	a900	161	393	410	427	a88	30	34	44
6	25	112	a220	a650	151	386	2 000	313	73	13	35	38
7	21	119	181	a550	148	334	2 390	266	33	35	29	9
8	32	60	179	a500	146	a330	1 510	239	56	38	30	37
9	22	106	192	a380	142	a400	1 010	223	69	37	31	9
10	30	87	197	a820	123	a600	1 010	194	59	28	9	36
11	24	67	192	a800	a123	a2 700	940	180	55	35	33	9
12	68	70	176	a550	a126	10 400	826	169	64	33	31	39
13	6	95	171	a470	a130	5 450	857	188	123	28	33	33
14	6	155	161	a500	a141	2 600	916	219	198	33	9	36
15	61	180	156	a450	154	1 790	815	216	232	48	14	33
16	6	154	205	a900	200	1 370	743	180	180	38	45	9
17	50	171	230	a730	142	1 290	625	162	140	48	33	42
18	6	232	198	a630	71	2 800	519	138	114	41	33	43
19	49	215	173	a500	159	4 300	448	160	163	61	9	65
20	6	225	169	a470	193	2 950	417	189	168	48	9	91
21	48	302	150	a450	175	2 450	387	156	276	42	38	50
22	6	309	95	a400	127	2 190	356	137	171	38	39	52
23	48	279	140	a370	135	1 430	324	133	121	31	11	53
24	6	a265	122	a320	115	1 070	288	125	91	38	106	47
25	6	a240	101	a280	133	924	266	86	88	52	85	9
26	53	a230	121	a250	187	774	255	155	78	36	68	57
27	6	a230	84	a220	247	754	257	84	103	30	64	9
28	50	a400	119	a200	329	959	225	85	61	41	36	45
29	6	a1 300	75	a190	311	774	226	98	55	36	42	45
30	53	a1 200	86	a182	-	654	213	116	95	33	72	33
31	122	-	115	177	-	546	-	a65	-	29	34	-

a No gage-height record; discharge over spillway computed on basis of records for station near Mahwah.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	104	96	a96	507	636	440	310	619	117	124	58	192
2	116	75	a100	410	552	404	299	508	115	196	17	176
3	132	103	a180	596	398	373	286	469	63	183	81	152
4	110	84	189	687	382	350	268	433	108	147	51	127
5	48	123	181	506	359	351	257	365	73	135	69	132
6	75	127	175	436	340	348	723	392	146	77	40	194
7	71	148	367	465	323	311	1 170	537	97	94	31	184
8	69	130	379	541	304	286	787	448	110	71	40	144
9	58	132	282	494	307	313	632	407	106	76	59	123
10	74	144	259	477	339	281	578	381	104	81	68	115
11	9	142	322	501	312	253	506	288	96	37	130	106
12	72	117	598	442	272	224	433	240	64	78	351	a100
13	49	125	523	376	249	228	380	233	46	104	394	a200
14	56	142	395	347	297	230	352	584	61	100	247	a1 350
15	50	123	326	504	352	231	345	1 670	74	131	164	a1 000
16	59	82	282	604	295	322	347	1 450	93	210	114	a550
17	253	99	502	504	246	316	309	939	87	245	107	a500
18	618	99	537	893	240	277	277	697	89	180	98	a350
19	389	101	425	799	214	297	269	540	126	119	70	246
20	240	96	2 280	616	218	337	260	475	111	104	71	197
21	184	102	2 580	596	233	569	264	434	57	94	93	178
22	175	76	1 270	952	2 440	546	638	380	200	52	112	156
23	166	82	682	1 480	2 900	508	771	358	227	52	797	113
24	169	96	494	1 280	1 560	474	610	331	170	75	799	124
25	149	93	430	1 480	1 000	494	475	260	a150	75	511	147
26	131	128	394	1 580	732	557	415	209	131	41	327	a130
27	124	77	402	1 230	604	483	533	187	103	64	388	a120
28	116	108	391	852	493	433	1 060	167	86	131	495	a110
29	116	98	348	694	-	378	1 040	186	95	104	388	a110
30	100	a100	320	611	-	330	742	188	93	90	306	a110
31	107	-	348	581	-	322	-	168	-	90	234	-

a No gage-height record; discharge over spillway computed on basis of records for station near Mahwah.

Ramapo River at Pompton Lakes--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a110	244	891	331	524	133	243	182	122	491	272	90
2	a120	183	632	321	395	166	241	149	116	365	261	81
3	60	231	546	304	369	159	217	142	140	272	224	63
4	75	204	427	257	494	a140	188	109	114	223	188	63
5	102	191	453	218	382	a150	179	140	125	187	294	69
6	120	214	490	216	351	230	170	138	123	158	305	63
7	125	205	630	473	499	287	185	125	111	136	283	69
8	117	168	565	823	502	278	245	119	143	117	242	63
9	a115	162	437	596	426	242	589	118	130	114	224	58
10	a112	155	391	419	404	217	776	118	111	103	233	63
11	a100	160	371	360	374	195	604	106	141	100	379	58
12	a100	139	325	313	344	209	475	101	149	110	407	53
13	a70	914	270	311	325	205	436	98	174	191	272	63
14	a70	2 980	259	287	407	238	393	82	152	176	a210	69
15	a85	1 980	259	286	343	325	348	467	123	129	a170	69
16	90	1 230	297	254	263	297	309	605	101	119	a140	69
17	135	839	418	236	224	364	292	357	94	106	a120	69
18	61	629	728	215	234	387	308	233	123	95	a120	69
19	62	a550	852	182	263	350	604	182	104	112	123	167
20	274	a500	600	a170	318	318	504	168	78	231	123	816
21	381	494	509	a170	291	326	428	159	80	575	110	2 210
22	266	502	442	a170	249	307	409	160	78	1 320	110	5 680
23	274	369	411	168	229	292	369	173	80	2 220	98	2 840
24	a350	327	380	190	276	278	325	181	85	2 560	86	1 410
25	a300	338	423	2 410	258	259	290	188	110	1 850	80	828
26	a250	292	a400	3 160	227	248	266	176	131	977	80	584
27	a310	332	a350	1 590	217	240	231	282	457	676	75	440
28	a300	752	334	879	194	216	226	251	1 990	521	80	378
29	a550	1 840	316	619	-	209	215	192	1 640	432	80	333
30	438	1 340	294	554	-	201	205	151	873	407	75	289
31	372	-	297	554	-	214	-	137	-	337	75	-

a No gage-height record: discharge over spillway computed on basis of records for station near Mahwah.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	256	123	236	a220	342	1 480	667	339	104	105	66	37
2	218	116	227	a220	293	1 110	1 160	311	88	125	51	29
3	199	116	217	a230	614	805	1 400	279	125	82	51	33
4	180	123	474	a210	1 060	691	938	256	111	77	46	33
5	170	116	1 200	a200	696	670	716	242	61	66	46	56
6	170	123	2 930	a720	548	791	772	238	72	61	40	37
7	199	144	2 300	875	476	716	1 440	225	57	61	29	33
8	180	165	1 350	667	438	561	1 110	205	72	56	37	33
9	161	191	1 010	535	403	503	852	207	67	46	33	29
10	152	187	1 010	461	396	495	699	257	93	42	37	29
11	144	143	898	429	571	437	619	229	62	46	37	29
12	136	94	722	383	596	436	689	192	71	51	37	29
13	128	130	593	334	484	459	623	190	79	42	33	29
14	121	137	517	347	460	417	523	175	147	37	33	29
15	121	130	444	322	617	430	475	140	118	33	33	29
16	113	130	399	284	1 210	869	428	140	108	33	33	29
17	113	137	361	279	851	920	382	134	54	33	33	29
18	113	151	359	258	693	738	581	130	71	33	33	26
19	113	165	349	238	655	590	1 040	120	66	39	39	29
20	106	251	298	215	630	521	2 050	138	71	29	82	26
21	218	246	291	223	701	481	1 410	125	66	29	71	33
22	237	209	249	225	643	439	992	126	61	33	56	29
23	180	191	230	173	507	410	781	175	61	33	51	26
24	180	209	246	209	445	412	656	174	66	29	54	a26
25	218	246	231	195	395	467	561	142	51	29	65	a26
26	208	246	228	a160	754	502	496	125	46	26	56	a26
27	180	257	434	a140	971	484	467	140	56	50	46	a26
28	161	236	482	a140	921	651	480	132	51	163	42	a26
29	161	227	342	172	-	725	445	102	46	116	37	a26
30	161	233	289	273	-	670	381	136	77	78	37	33
31	136	-	a230	468	-	775	-	93	-	66	33	-

a No gage-height record; discharge over spillway computed on basis of records for station near Mahwah.

Ramapo River at Pompton Lakes--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	146	a55	71	82	139	2 360	420	1 810	221	113	365
2	42	153	a55	71	82	132	1 520	407	1 450	168	95	679
3	42	106	a60	66	77	132	1 070	444	1 050	154	83	483
4	46	94	a100	66	82	282	1 050	444	739	161	72	293
5	51	109	a90	66	82	370	1 020	a380	604	194	67	212
6	61	238	a70	61	82	345	831	a320	496	154	72	154
7	a55	281	a60	a58	94	334	688	a280	407	140	78	133
8	a44	193	a60	a56	106	302	927	a250	335	126	57	113
9	a40	146	a60	a56	106	292	2 720	a250	325	119	52	113
10	a38	125	61	a56	106	313	1 880	a240	303	113	47	107
11	a34	106	77	a56	161	270	1 200	239	282	107	47	101
12	a32	100	88	a56	238	248	1 090	239	260	107	47	95
13	a32	94	88	61	175	259	1 540	230	239	180	47	95
14	37	a90	71	89	153	259	1 280	221	212	176	52	83
15	33	a75	71	1 230	104	2 020	1 020	203	185	126	47	83
16	33	a65	77	994	167	2 000	897	271	194	113	47	83
17	37	a70	77	443	153	1 210	781	991	185	107	43	62
18	33	77	71	a238	139	913	718	771	161	101	47	62
19	29	71	77	a167	153	931	718	550	161	89	56	72
20	33	71	88	b150	270	1 180	859	457	147	72	62	72
21	33	77	118	b200	302	1 280	1 520	420	133	67	52	57
22	56	66	139	193	248	1 170	1 870	383	126	67	52	52
23	51	a55	112	153	220	880	1 500	395	119	67	52	47
24	46	a55	a100	139	193	643	1 170	407	154	78	47	62
25	46	a55	a82	125	175	531	931	395	268	78	43	89
26	51	a55	a71	112	167	463	765	395	282	67	57	137
27	46	a55	a66	100	153	438	643	395	346	109	57	140
28	51	a55	66	100	153	531	571	432	239	126	177	95
29	51	a55	71	94	146	733	517	432	249	107	293	89
30	51	a55	77	94	-	847	451	358	271	101	194	83
31	93	-	77	88	-	2 000	-	1 290	-	119	147	-

a No gage-height record; discharge over spillway computed on basis of records for station near Mahwah.
b Stage-discharge relation for spillway affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	9 189	961	146	296	1.85	2.13
November	9 409	749	156	314	1.96	2.19
December	13 784	1 600	189	445	2.78	3.20
Calendar year 1934	114 377	2 250	9	313	1.96	26.58
January 1935	10 149	1 030	166	327	2.04	2.35
February	7 871	608	105	281	1.76	1.83
March	13 018	678	271	420	2.62	3.02
April	9 151	580	168	305	1.91	2.20
May	4 589	277	48	148	.925	1.07
June	3 398	267	28	113	.706	.82
July	4 035	250	31	130	.812	.84
August	1 560	95	29	50.3	.314	.32
September	1 835	150	6	61.2	.471	.52
Water year 1934-35	87 988	1 600	6	241	1.51	20.49
October 1935	939	122	6	30.3	.189	.22
November	7 536	1 300	60	251	1.57	1.75
December	6 408	840	75	207	1.29	1.49
Calendar year 1935	70 489	1 300	6	193	1.21	16.43
January 1936	15 613	1 350	51	504	3.15	3.63
February	4 709	329	71	162	1.01	1.09
March	51 764	10 400	274	1 670	10.4	11.99
April	20 149	2 390	213	672	4.20	4.69
May	5 792	452	65	187	1.17	1.35
June	3 313	276	33	110	.688	.77
July	1 265	87	13	40.8	.255	.29
August	1 117	106	9	36.0	.225	.26
September	1 150	91	9	38.3	.239	.27
Water year 1935-36	119 755	10 400	6	327	2.04	27.80

Ramapo River at Pompton Lakes--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	4 169	618	9	134	0.838	0.97
November	3 257	148	75	109	.681	.76
December	16 057	2 580	96	518	3.24	3.74
Calendar year 1936	128 355	10 400	9	351	2.19	29.81
January 1937	22 041	1 580	347	711	4.44	5.12
February	16 597	2 900	214	593	3.71	3.86
March	11 266	569	224	363	2.27	2.62
April	15 336	1 170	257	511	3.19	3.56
May	14 543	1 670	167	469	2.93	3.38
June	3 198	227	46	107	.669	.75
July	3 360	245	37	108	.675	.78
August	6 710	799	17	216	1.35	1.56
September	7 436	1 350	100	248	1.55	1.73
Water year 1936-37	123 970	2 900	9	340	2.12	28.83
October 1937	5 894	550	60	190	1.19	1.37
November	18 464	2 980	139	615	3.84	4.28
December	13 997	891	259	452	2.82	3.25
Calendar year 1937	138 842	2 980	17	380	2.38	32.26
January 1938	17 026	3 160	168	549	3.43	3.95
February	9 382	524	194	335	2.09	2.18
March	7 680	387	133	248	1.55	1.79
April	10 270	776	170	342	2.14	2.39
May	5 769	605	82	186	1.16	1.34
June	7 898	1 890	78	263	1.64	1.83
July	15 710	2 560	95	507	3.17	3.66
August	5 539	407	75	179	1.12	1.29
September	17 176	5 680	53	573	3.58	3.99
Water year 1937-38	134 805	5 680	53	369	2.31	31.32
October 1938	5 133	256	106	166	1.04	1.20
November	5 172	257	94	172	1.08	1.20
December	19 146	2 930	217	618	3.86	4.45
Calendar year 1938	125 901	5 680	53	345	2.16	29.27
January 1939	9 805	875	140	316	1.98	2.28
February	17 370	1 210	293	620	3.88	4.04
March	19 655	1 480	410	634	3.96	4.56
April	23 833	2 050	381	794	4.96	5.53
May	5 617	339	93	181	1.13	1.30
June	2 278	147	46	75.9	.474	.53
July	1 739	163	26	56.1	.351	.40
August	1 378	82	29	44.5	.278	.32
September	910	56	26	30.3	.189	.21
Water year 1938-39	112 036	2 930	26	307	1.92	26.02
October 1939	1 369	93	29	44.2	.276	.32
November	2 993	281	55	99.8	.624	.70
December	2 435	139	55	78.5	.491	.57
Calendar year 1939	89 382	2 050	26	245	1.53	20.76
January 1940	5 509	1 230	56	178	1.11	1.28
February	4 369	302	77	151	.944	1.02
March	21 447	2 020	132	692	4.32	4.98
April	34 107	2 720	451	1 137	7.11	7.93
May	12 909	1 290	203	416	2.60	3.00
June	11 732	1 810	119	391	2.44	2.72
July	3 714	221	67	120	.750	.86
August	2 402	293	43	77.5	.484	.56
September	4 311	483	47	144	.900	1.00
Water year 1939-40	107 297	2 720	29	293	1.83	24.94

Saddle River at Lodi

Location.- Water-stage recorder and, since Nov. 2, 1938, concrete control, lat. 40°53'23", long. 74°04'51", 560 feet upstream from Outwater Lane Bridge in Lodi, Bergen County, and 3½ miles (revised) upstream from mouth. Datum of gage is 25.00 feet above mean sea level (United States Coast and Geodetic Survey datum). Prior to Nov. 2, 1938, water-stage recorder was at site 560 feet downstream. Datum of gage was 22.46 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 54.6 square miles (revised) for both sites.

Records available.- September 1923 to September 1940.

Average discharge.- 17 years, 90.1 second-feet.

Extremes.- 1923-40: Maximum discharge, 2,200 second-feet Mar. 12, 1936 (gage height, 6.27 feet, site and datum then in use), from rating curve extended above 800 second-feet on basis of records for station on Pascack Brook at Westwood; minimum, 1 second-foot (regulated) May 25, 1935 (gage height, 1.03 feet, site and datum then in use); minimum daily, 6 second-feet Aug. 4, 1930 and Aug. 23, 1934.

Peak gage height and discharge during period of this report.-

1934: Oct. 1 (2 to 4 a.m.) 4.13 ft., 614 sec.-ft.

1936: Jan. 4 (3 to 5 p.m.) 3.97 ft., 637 sec.-ft.; Mar. 12 (6 to 7 p.m.) 6.27 ft., 2,200 sec.-ft.; Mar. 19 (5 to 7 a.m.) 4.31 ft., 813 sec.-ft.; Mar. 22 (4 to 5 a.m.) 4.05 ft., 684 sec.-ft.; Apr. 7 (4 to 5 a.m.) 5.16 ft., 1,300 sec.-ft.; Dec. 21 (4 to 5 a.m.) 4.53 ft., 887 sec.-ft.

1937: Feb. 23 (5 to 6 a.m.) 4.20 ft., 757 sec.-ft.; May 15 (4 to 5 p.m.) about 4.86 ft., 1,060 sec.-ft.; Nov. 14 (5 p.m.) 4.18 ft., 708 sec.-ft.; Nov. 29 (4 to 6 p.m.) 3.93 ft., 614 sec.-ft.

1938: Jan. 26 (1 to 2 a.m.) 5.19 ft., 1,340 sec.-ft.; June 29 (2 to 3 a.m.) 4.25 ft., 782 sec.-ft.; July 24 (6 p.m.) 4.75 ft., 1,060 sec.-ft.; Sept. 22 (11 a.m.) 6.21 ft., 2,150 sec.-ft.; Dec. 6 (2 p.m.) 3.90 ft., 760 sec.-ft.

1939: Feb. 4 (2 to 3 p.m.) 3.67 ft., 631 sec.-ft.

1940: Mar. 15 (9:30 p.m.) 4.98 ft., 1,540 sec.-ft.; Apr. 9 (4 p.m.) 4.40 ft., 1,090 sec.-ft.; June 1 (5 a.m.) 4.38 ft., 1,080 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	c484	63	176	113	b66	96	81	78	26	81	19	13
2	c208	80	243	184	66	103	81	61	27	38	19	14
3	c103	68	140	120	72	139	80	57	30	27	25	18
4	c80	73	111	88	72	125	74	58	28	25	24	49
5	c70	123	114	b78	b64	106	71	64	29	22	22	95
6	c133	120	93	70	b61	111	72	65	32	20	17	86
7	c297	139	81	74	b60	123	70	91	36	23	18	74
8	c240	98	72	95	59	113	64	107	34	17	19	38
9	c111	78	69	109	60	101	88	78	79	30	17	29
10	c88	72	b67	131	70	96	160	63	75	38	16	32
11	c82	69	61	147	68	111	127	61	48	51	18	27
12	c75	a67	b58	103	b66	147	101	54	39	37	18	21
13	c74	a65	53	81	66	201	118	45	32	31	17	19
14	c70	a60	53	75	70	184	114	54	28	27	22	18
15	c69	58	52	b70	249	133	93	44	24	25	15	19
16	c66	59	52	b67	323	113	87	43	22	29	15	18
17	c64	60	57	64	249	109	82	39	21	31	14	17
18	c66	59	57	b62	288	103	77	43	36	26	14	18
19	c61	57	70	59	191	95	70	35	57	26	13	17
20	c59	55	194	69	139	109	63	46	56	36	13	14
21	c59	55	235	82	113	114	61	38	45	45	13	14
22	c65	58	106	113	99	131	65	39	40	37	17	15
23	c69	59	87	106	93	103	61	43	46	32	17	13
24	65	68	75	b80	96	92	57	35	36	51	13	12
25	64	74	70	b82	106	86	56	30	27	46	12	12
26	68	61	80	b88	141	84	54	29	23	60	12	12
27	92	57	111	b88	173	78	56	36	32	32	13	12
28	74	58	87	b80	116	82	49	29	72	28	17	12
29	64	59	73	b75	-	145	49	30	38	25	14	12
30	61	85	b68	b71	-	113	74	30	35	23	13	12
31	60	-	b60	b68	-	88	-	31	-	22	14	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.
c Backwater caused by temporary rock dam; discharge computed by shifting-control method based on discharge measurement.

Saddle River at Lodi--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	86	71	b27	b47	b94	162	94	42	42	19	28
2	11	70	54	34	b45	b90	151	90	39	31	18	29
3	12	49	45	164	b44	b94	189	83	34	29	18	32
4	12	36	40	454	b42	b110	196	184	36	29	18	27
5	12	30	b38	304	b40	170	155	269	41	33	17	22
6	12	30	36	107	b39	143	354	155	33	36	35	22
7	17	24	b33	77	b38	109	908	100	26	28	36	20
8	17	25	31	71	b37	101	370	97	25	22	23	21
9	13	29	29	90	b36	106	249	90	34	21	20	18
10	12	21	31	235	b36	147	240	83	25	20	18	18
11	12	23	36	238	b36	339	284	76	37	22	19	18
12	12	25	34	116	b36	1 580	255	73	38	37	19	19
13	11	30	34	99	b36	987	235	87	102	28	18	18
14	12	42	27	98	b39	421	269	173	204	27	16	20
15	14	37	35	92	b50	291	235	132	224	27	16	21
16	17	31	61	175	b66	246	204	86	108	20	21	22
17	15	62	58	164	b60	216	184	76	64	22	18	21
18	14	123	43	106	b66	292	160	73	73	18	18	53
19	17	98	36	b112	b60	757	147	66	105	94	28	115
20	17	68	36	b120	b58	548	136	79	81	59	19	68
21	15	68	b32	b108	b58	421	132	73	136	50	19	51
22	13	58	b26	b93	b58	548	128	64	201	36	19	48
23	13	49	b21	b82	b59	310	117	63	81	27	28	37
24	14	48	19	b75	b60	240	114	52	64	47	94	32
25	18	42	b22	b69	b62	219	108	51	59	41	81	29
26	19	38	b21	b64	b66	206	107	45	56	32	36	26
27	14	38	b21	b59	b77	201	108	50	42	26	26	24
28	13	41	21	b56	b95	300	102	50	48	24	22	23
29	14	128	b21	b53	b94	323	97	38	47	22	36	31
30	20	131	b21	b51	-	219	96	39	37	22	65	39
31	90	-	b23	b49	-	182	-	37	-	19	41	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	39	b31	163	253	101	84	91	62	56	44	50
2	119	31	36	153	255	98	84	72	61	52	29	44
3	63	38	108	169	b127	98	82	77	58	44	27	40
4	44	44	86	234	b120	101	78	81	64	42	21	36
5	41	57	61	167	120	104	78	74	57	38	20	51
6	38	58	56	111	122	101	148	77	70	36	25	58
7	27	50	128	116	123	98	269	147	87	34	20	48
8	28	50	122	177	120	93	151	169	57	33	27	40
9	31	66	68	165	125	103	113	116	51	30	24	35
10	42	64	65	142	142	99	136	99	50	27	24	33
11	42	52	94	163	134	88	115	90	53	30	39	35
12	28	50	160	134	111	84	99	79	52	30	106	35
13	29	47	132	116	108	85	96	75	45	37	175	91
14	37	44	81	106	138	88	95	146	48	34	120	339
15	42	42	66	131	184	90	95	757	53	64	52	346
16	39	37	60	199	146	161	91	460	46	72	28	95
17	130	37	106	159	110	197	79	214	43	48	29	66
18	430	41	114	221	95	157	75	163	46	37	28	63
19	239	36	73	323	90	144	79	146	48	32	27	56
20	102	33	239	193	88	136	79	131	47	28	27	51
21	74	39	672	161	95	188	79	116	46	25	24	46
22	63	34	251	211	248	221	202	103	149	25	35	43
23	59	37	136	320	546	132	284	101	197	26	167	40
24	53	38	111	326	231	111	169	96	77	23	363	40
25	52	42	103	281	157	115	111	85	50	26	249	a38
26	42	48	101	370	134	144	99	77	39	20	99	a38
27	47	37	103	247	122	115	120	75	53	29	88	a37
28	42	37	99	171	108	98	207	74	57	30	93	a36
29	44	38	91	151	-	93	209	75	63	22	75	a36
30	44	36	85	153	-	90	123	66	52	21	57	a35
31	41	-	99	161	-	85	-	61	-	37	59	-

a No gage-height record; discharge computed on basis of records for Ramapo River near Mahwah.
b Stage-discharge relation affected by ice.

Saddle River at Lodi--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a34	68	170	91	162	78	100	63	48	100	108	52
2	a38	64	122	98	114	90	88	54	43	91	109	48
3	a40	63	105	108	111	88	76	54	60	78	98	38
4	a35	61	99	95	145	73	67	50	71	65	84	36
5	a36	57	96	87	131	90	73	50	61	56	82	33
6	a60	57	122	82	115	120	69	42	59	52	100	38
7	a48	57	180	176	164	112	78	42	52	46	100	49
8	a46	56	145	329	189	100	108	38	149	42	100	57
9	a50	53	109	201	129	90	249	40	95	42	109	61
10	a40	51	95	109	129	87	326	61	56	65	91	67
11	a35	52	87	98	115	79	173	61	120	49	199	54
12	a40	50	76	94	105	79	114	52	138	78	215	46
13	a44	134	b74	95	110	87	105	45	136	92	96	65
14	a44	480	b70	95	136	111	94	42	158	76	76	59
15	a32	367	b70	92	116	158	88	210	103	82	67	94
16	a32	159	87	85	95	127	80	346	73	73	63	91
17	a32	110	125	85	92	151	73	136	57	61	61	61
18	a32	95	204	79	92	142	100	74	73	52	63	65
19	a45	85	243	74	108	112	255	67	80	74	61	116
20	149	91	151	82	160	102	222	59	56	110	54	286
21	216	108	114	79	147	98	125	59	46	189	50	772
22	113	98	105	78	108	90	105	72	45	395	48	1 720
23	84	85	104	80	110	87	98	92	45	801	46	705
24	95	78	96	88	140	84	100	85	43	917	42	262
25	74	75	116	528	120	78	82	105	43	616	38	138
26	64	75	119	840	102	80	82	74	55	257	37	109
27	59	75	102	291	94	87	78	125	196	155	36	100
28	100	161	94	143	95	74	76	125	453	134	40	95
29	190	448	92	116	-	73	69	80	608	116	43	91
30	134	374	88	108	-	73	69	61	240	149	39	87
31	87	-	88	129	-	87	-	50	-	145	39	-

a No gage-height record; discharge computed on basis of records for Pascack Brook at Westwood.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85	63	85	93	226	438	212	a130	45	111	26	27
2	78	56	84	93	156	336	297	a120	39	55	21	25
3	76	53	72	100	235	220	401	a110	42	39	22	21
4	79	54	196	100	528	186	245	a100	44	36	34	25
5	74	55	366	95	336	176	180	a98	46	31	27	24
6	71	55	647	212	209	248	192	a100	41	29	22	19.7
7	108	58	480	357	170	256	410	a110	37	32	24	19.0
8	92	60	271	216	164	186	344	a100	35	29	22	23
9	78	74	206	147	161	164	234	a120	35	27	20	35
10	73	74	212	123	183	170	202	a140	35	28	25	29
11	67	61	220	123	256	156	186	a120	35	25	18.4	23
12	63	58	176	108	287	150	199	a100	37	19.5	19.0	22
13	59	54	147	97	206	186	202	a80	34	20	17.8	22
14	59	50	131	100	176	202	158	a55	76	22	17.8	20
15	59	52	118	97	192	212	147	a54	63	21	16.5	18.4
16	57	52	106	91	287	323	136	a65	42	22	17.1	19.0
17	56	60	106	95	237	419	133	a60	40	22	14.7	17.8
18	54	78	111	93	167	287	180	a50	32	22	16.5	15.3
19	56	74	115	91	161	209	248	a59	39	18.7	18.0	14.7
20	61	141	108	82	164	183	457	a51	38	17.8	64	14.7
21	110	128	100	82	170	176	319	a53	40	15.3	47	16.5
22	108	84	95	89	161	164	212	a66	34	19.0	30	17.1
23	80	72	87	66	136	156	170	a71	31	15.3	22	16.5
24	76	72	85	93	120	153	153	a72	44	13.7	26	15.9
25	102	63	89	84	115	150	144	a66	31	19.0	62	15.3
26	88	84	85	58	174	144	141	61	33	15.9	42	16.5
27	74	80	180	74	379	144	156	58	30	15.9	24	16.5
28	71	78	275	74	349	202	a180	55	28	59	25	18.4
29	74	76	176	72	-	256	a160	55	29	46	25	17.8
30	84	78	108	159	-	209	a150	49	73	36	27	19.7
31	71	-	95	279	-	245	-	52	-	30	30	-

a No gage-height record; discharge computed on basis of records for Pascack Brook at Westwood.

Saddle River at Lodi--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	118	25	a20	a26	48	283	120	798	97	38	96
2	32	72	27	a20	a26	44	170	a120	366	74	34	164
3	34	50	39	a20	a26	51	123	a130	264	64	30	92
4	34	41	36	a20	a26	192	153	a150	176	97	28	49
5	27	55	27	a20	27	252	167	a160	138	104	27	52
6	23	133	33	a20	27	192	128	a140	125	78	29	50
7	22	94	27	a19	32	167	104	a120	104	64	28	37
8	20	58	27	a19	32	136	147	a110	97	54	27	36
9	19.0	42	24	a19	32	125	740	a110	93	48	27	36
10	19.0	37	25	a19	34	141	466	a100	97	48	25	37
11	17.8	36	35	a19	64	106	264	a100	100	48	24	36
12	17.1	36	34	a20	55	87	226	a100	93	71	23	34
13	16.5	31	29	a25	50	84	419	a100	87	87	23	31
14	15.3	34	35	a50	32	92	383	a90	76	61	25	30
15	17.8	31	33	a300	25	776	264	84	69	44	22	29
16	16.5	28	31	f424	40	792	202	113	80	45	22	28
17	15.9	29	30	157	39	328	176	336	66	44	23	27
18	15.9	29	29	a75	39	223	176	328	63	48	27	26
19	15.3	28	29	a55	50	202	186	150	68	44	31	26
20	17.8	27	40	a45	136	230	245	108	64	39	45	27
21	20	25	52	a40	133	230	461	106	55	40	34	27
22	31	27	42	a38	106	186	447	111	54	37	27	26
23	35	26	33	a35	84	170	311	125	52	35	26	24
24	28	25	28	a33	69	120	226	123	91	39	29	23
25	24	25	30	a32	63	104	186	108	156	41	25	64
26	23	25	27	a30	55	93	170	113	167	38	36	108
27	22	23	21	a30	48	89	153	123	230	41	40	50
28	25	23	a20	a28	54	104	147	150	161	39	123	39
29	26	23	a20	a27	44	120	131	196	125	35	209	34
30	25	23	a20	a27	-	136	123	120	120	36	105	32
31	55	-	a20	a26	-	220	-	281	-	49	61	-

a No recorder graph; discharge computed on basis of staff-gage readings on Jan. 9, 29, and Feb. 5. weather records, and records for Whippany River at Morristown.

f Fragmentary gage-height record; discharge computed on basis of partly estimated gage-height graph.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	3 241	484	59	105	1.92	2.21
November	2 157	139	55	71.9	1.32	1.47
December	2 925	243	52	94.4	1.73	1.99
Calendar year 1934	33 862	730	6	92.8	1.70	22.94
January 1935	2 792	184	59	90.1	1.65	1.90
February	3 296	323	59	118	2.16	2.25
March	3 534	201	78	114	2.09	2.41
April	2 355	160	49	78.5	1.44	1.61
May	1 556	107	29	50.2	.919	1.06
June	1 153	79	21	38.4	.703	.78
July	1 041	81	17	33.6	.615	.71
August	510	25	12	16.5	.302	.35
September	762	95	12	25.4	.465	.52
Water year 1934-35	25 322	484	12	69.4	1.27	17.26
October 1935	513	90	11	16.5	.302	.35
November	1 580	131	21	52.7	.965	1.08
December	1 056	71	19	34.1	.625	.72
Calendar year 1935	20 148	323	11	55.2	1.01	13.74
January 1936	3 642	454	27	117	2.14	2.47
February	1 540	95	36	53.1	.973	1.05
March	10 010	1 580	90	323	5.92	6.82
April	6 192	908	96	206	3.77	4.21
May	2 728	269	37	88.0	1.61	1.86
June	2 142	224	25	71.4	1.31	1.46
July	991	94	18	32.0	.586	.68
August	881	94	16	28.4	.520	.60
September	952	115	18	31.7	.581	.65
Water year 1935-36	32 227	1 580	11	88.1	1.61	21.95

Saddle River at Lodi--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	2 209	430	27	71.3	1.31	1.51
November	1 302	66	31	43.4	.795	.89
December	3 737	672	31	121	2.22	2.56
Calendar year 1936	36 326	1 580	16	99.3	1.82	24.76
January 1937	5 894	370	106	190	3.48	4.01
February	4 352	546	88	155	2.84	2.96
March	3 618	221	84	117	2.14	2.47
April	3 719	284	75	124	2.27	2.53
May	4 193	757	61	135	2.47	2.85
June	1 881	197	39	62.7	1.15	1.28
July	1 088	72	20	35.1	.643	.74
August	2 201	363	20	71.0	1.30	1.50
September	2 000	346	33	66.7	1.22	1.36
Water year 1936-37	36 194	757	20	99.2	1.82	24.66
October 1937	2 128	216	32	68.6	1.26	1.45
November	3 787	480	50	126	2.31	2.58
December	3 548	243	70	114	2.09	2.41
Calendar year 1937	38 409	757	20	105	1.92	26.14
January 1938	4 735	840	74	153	2.80	3.23
February	3 434	189	92	123	2.25	2.34
March	2 987	158	73	96.4	1.77	2.04
April	3 422	326	67	114	2.09	2.33
May	2 514	346	38	81.1	1.49	1.72
June	3 462	608	43	115	2.11	2.35
July	5 258	917	42	170	3.11	3.58
August	2 394	215	36	77.2	1.41	1.63
September	5 495	1 720	33	183	3.35	3.74
Water year 1937-38	43 164	1 720	32	118	2.16	29.40
October 1938	2 343	110	54	75.6	1.38	1.59
November	2 097	141	50	69.9	1.28	1.43
December	5 332	647	72	172	3.15	3.63
Calendar year 1938	43 473	1 720	33	119	2.18	29.61
January 1939	3 643	357	58	118	2.16	2.49
February	6 105	528	115	218	3.99	4.16
March	6 706	438	144	216	3.96	4.56
April	6 548	457	133	218	3.99	4.45
May	2 480	140	49	80.0	1.47	1.70
June	1 208	76	28	40.3	.738	.82
July	912.1	111	13.7	29.4	.538	.62
August	822.8	64	14.7	26.5	.485	.56
September	604.8	35	14.7	20.2	.370	.41
Water year 1938-39	38 801.7	647	13.7	106	1.94	26.42
October 1939	733.9	55	15.3	23.7	.434	.50
November	1 254	133	23	41.8	.766	.85
December	928	52	20	29.9	.548	.63
Calendar year 1939	31 945.6	528	13.7	87.5	1.60	21.75
January 1940	1 712	424	19	55.2	1.01	1.16
February	1 474	136	25	50.8	.930	1.00
March	5 840	792	44	188	3.44	3.97
April	7 377	740	104	246	4.51	5.03
May	4 325	336	84	140	2.56	2.95
June	4 235	798	52	141	2.58	2.88
July	1 689	104	35	54.5	.998	1.15
August	1 273	209	22	41.1	.753	.87
September	1 370	164	23	45.7	.837	.93
Water year 1939-40	32 210.9	798	15.3	88.0	1.61	21.92

Weasel Brook at Clifton

Location.- Water-stage recorder above masonry dam, lat. 40°52'12", long. 74°08'47", at Jewett Street in Clifton, Passaic County. Datum of gage is 68.52 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 4.45 square miles.

Records available.- March 1937 to September 1940.

Extremes.- 1937-40: Maximum discharge, 301 second-feet Sept. 21, 1938 (gage height, 2.93 feet), from rating curve extended above 100 second-feet by logarithmic plotting; no flow on many days when water was below spillway and waste gate was closed.

Daily discharge, in second-feet, 1937-40

1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	2.3	4.5	a2.2	1.1	0.78	1.2
2						-	2.7	4.3	a2	.78	.65	1.1
3						-	2.9	3.6	a1.6	1.4	.29	1.8
4						-	3.1	2.7	a1.6	1.7	.19	2.0
5						-	2.9	2.3	a2.0	1.7	.10	2.9
6						-	18.2	2.5	a35	1.2	.10	2.3
7						3.8	3.8	2.7	a16	.78	.41	1.5
8						4.0	2.9	2.9	a3	.78	.92	.92
9						3.8	4.3	3.3	a1.5	.65	.53	.78
10						2.5	4.8	2.7	a1.5	.78	.85	.53
11						2.3	4.0	1.7	a3	.78	8.8	2.2
12						2.5	2.9	1.5	a3	2.2	6.5	.65
13						3.3	2.3	1.7	a1.5	1.4	4.1	24
14						3.8	2.0	27	a5	.53	1.8	10.6
15						5.4	2.3	21	a4	6.4	1.5	3.1
16						16.9	2.2	7.6	a1.5	2.7	.92	2.2
17						7.3	2.5	5.4	a1.5	1.8	.29	2.3
18						4.8	2.9	3.8	a1.5	1.5	1.2	2.7
19						3.8	2.3	3.1	a1.5	1.1	.41	2.5
20						8.5	1.7	2.9	a1.5	.29	.92	1.8
21						13.9	5.4	2.5	a5	.10	1.4	1.2
22						5.1	21	2.9	a12	.41	21	1.1
23						4.0	6.6	3.3	a4	.41	34	.78
24						3.3	4.3	2.5	a1.2	1.1	8.0	.92
25						6.8	4.0	1.7	a1.2	.92	4.8	1.8
26						4.9	2.9	1.8	a1.2	.92	3.1	1.8
27						4.3	12.2	1.5	a1.2	1.4	4.3	1.4
28						4.3	14.2	1.7	a1.2	1.1	3.6	1.2
29						3.3	5.1	2.7	a5	.92	2.7	.92
30						2.5	4.3	2.3	a2	.92	2.2	.78
31						2.3	-	2.2	-	3.4	1.5	-

a Fragmentary or no gage-height record; discharge computed on basis of one discharge measurement, available recorder graph, and records for Elizabeth River at Elizabeth and Saddle River at Lodi.

Weasel Brook at Clifton--Continued

Daily discharge, in second-feet, 1937-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.92	2.0	6.4	3.8	6.1	b2.5	3.3	2.9	1.1	4.0	5.4	1.3
2	1.5	1.4	5.4	5.2	4.5	3.1	3.1	2.2	1.1	4.8	4.3	.65
3	1.5	1.2	4.8	3.2	8.8	2.9	3.1	1.7	1.4	4.3	3.6	1.2
4	1.1	1.1	5.1	2.7	7.4	2.0	2.5	1.8	1.8	3.6	2.5	1.5
5	.71	1.4	5.4	2.7	6.4	7.3	1.7	1.5	2.3	2.9	3.7	1.4
6	2.0	2.0	12.4	2.5	7.9	6.1	1.7	1.7	1.7	2.9	5.7	.65
7	.92	2.0	6.5	28	10.7	3.6	3.6	2.3	5.6	2.7	5.4	.29
8	.29	1.5	4.0	9.5	5.1	2.7	12.9	2.3	13.6	3.1	3.6	.19
9	1.2	1.1	3.8	6.1	5.4	2.5	20	2.2	2.0	2.9	2.7	.19
10	1.7	.78	3.1	4.5	5.4	2.5	7.5	2.7	1.7	2.5	2.6	.35
11	.92	.65	3.6	4.3	3.8	2.5	4.3	2.2	31	2.7	18.1	1.1
12	.41	.80	3.1	3.8	4.8	3.6	3.3	1.7	11.2	2.9	3.6	.53
13	.10	31	2.5	4.0	8.8	4.0	3.1	1.5	13.1	1.8	3.1	.69
14	.10	13.0	1.8	3.8	6.1	8.7	2.4	5.0	6.8	1.5	2.9	.29
15	.10	6.1	1.7	4.3	3.6	6.7	2.3	26	3.3	3.6	2.0	1.5
16	.97	4.3	4.4	4.0	2.7	7.2	2.9	3.9	2.7	2.9	1.7	a1.0
17	1.2	3.6	7.5	3.8	2.9	7.6	3.1	2.3	2.3	2.6	1.7	a.6
18	.65	2.9	14.7	2.7	3.8	5.1	20	1.7	5.4	1.5	1.5	a1.0
19	2.3	2.9	6.1	2.0	9.1	4.5	11.3	1.5	3.3	2.1	1.7	a25
20	22	5.2	4.3	2.5	12.5	4.5	4.8	2.2	2.0	4.0	2.0	a40
21	3.5	4.5	3.1	2.7	4.7	3.8	4.3	2.0	1.5	10.2	2.0	a140
22	2.4	3.1	2.7	3.6	4.0	3.1	4.3	3.7	1.5	23	1.2	a30
23	5.4	2.3	2.7	4.2	7.2	2.9	4.3	2.0	1.5	73	.78	a3
24	3.1	2.2	3.7	12.0	5.8	2.7	4.0	4.0	1.4	31	.78	a5
25	2.0	3.1	6.3	56	4.3	2.3	3.3	2.4	1.8	16.2	.65	a4.5
26	1.2	3.1	4.0	14.1	4.5	3.8	2.7	2.3	14.0	12.2	.65	a4
27	1.2	3.3	2.5	9.5	5.1	3.6	2.3	5.2	17.6	10.5	1.5	a6
28	8.8	35	2.7	7.2	3.2	2.5	2.2	3.1	31	9.5	1.5	a4
29	2.7	16.6	2.3	6.8	-	2.2	2.0	2.7	10.4	8.0	.78	a3
30	3.0	9.0	2.2	8.0	-	2.2	2.9	2.5	5.7	8.5	.65	a2.5
31	2.5	-	2.5	14.1	-	3.7	-	1.7	-	7.2	.71	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for stations on nearby streams.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a2.3	1.2	2.2	4.0	7.6	17.5	10.5	4.5	0.53	6.2	0.02	0.10
2	a2.1	1.2	1.5	4.3	6.1	13.4	28	3.6	.41	1.8	0	.77
3	a2.0	1.1	1.8	3.6	43	11.6	12.8	3.3	.86	1.5	1.4	.92
4	a1.9	1.1	7.3	2.9	22	12.2	10.0	3.6	1.5	1.4	4.5	.92
5	a1.8	1.7	28	3.3	14.8	16.2	8.0	4.5	a.78	1.2	1.3	.48
6	a8	1.8	22	28	12.8	16.2	24	4.5	a1.0	1.2	1.1	.04
7	a4	1.2	10.5	9.0	13.4	10.5	17.1	4.0	a1.2	1.1	.53	.10
8	a2.5	1.4	8.0	7.2	12.8	8.5	13.4	3.3	a1.3	.65	.10	3.1
9	a2.3	2.1	9.0	5.4	12.8	9.5	12.8	5.3	a1.4	.78	.14	1.8
10	2.5	1.1	11.7	5.1	17.9	8.0	11.6	4.2	1.2	.45	0	1.3
11	2.0	1.1	7.6	4.3	22	7.6	10.7	2.5	1.5	.10	0	.32
12	1.8	1.6	6.8	4.0	12.8	11.2	11.2	2.5	.98	.10	.36	0
13	1.8	1.7	4.8	3.3	12.2	15.5	8.0	3.6	1.3	.10	.53	0
14	1.7	1.1	4.3	4.3	10.5	15.6	9.0	3.8	3.0	.10	.27	0
15	2.2	.63	3.8	4.8	17.8	17.6	9.0	2.6	.41	.21	0	0
16	2.3	.53	3.3	3.8	12.0	29	8.0	2.0	.53	.53	0	.05
17	1.8	2.2	4.3	3.1	8.5	14.8	6.9	1.4	1.1	.33	0	.41
18	1.4	1.0	5.1	3.3	10.5	14.1	15.8	1.1	1.2	.10	0	.17
19	1.4	5.9	4.0	3.1	11.0	13.4	16.6	1.4	.80	.10	5.4	0
20	2.3	4.9	3.1	2.7	9.5	12.2	10.5	2.3	.58	.04	9.6	.04
21	4.5	1.7	2.7	3.3	6.8	10.0	8.0	2.5	.29	0	.83	.09
22	2.3	1.5	2.5	4.6	7.2	9.0	9.0	5.8	.19	.25	.04	0
23	2.5	1.2	2.3	3.0	4.8	8.0	8.0	2.8	.51	.53	0	.16
24	2.9	2.2	3.1	2.5	4.8	8.0	6.4	1.7	.92	.23	1.7	.78
25	2.5	1.1	3.6	2.7	5.7	8.0	5.4	1.1	1.1	.10	1.2	.42
26	1.8	1.8	3.4	2.0	27	8.0	5.4	1.1	.43	.02	1.2	0
27	1.5	2.7	23	2.0	13.8	7.5	5.7	2.0	.19	2.8	1.1	0
28	1.7	2.2	4.5	2.0	28	18.0	7.8	2.2	.10	.96	.42	0
29	2.2	1.7	3.1	3.3	-	8.0	6.4	2.0	.10	.58	.04	0
30	2.0	1.8	2.9	34	-	14.7	5.7	1.8	13.7	1.3	.44	.56
31	1.4	-	3.1	14.1	-	11.0	-	1.0	-	.45	.41	-

a No gage-height record; discharge computed on basis of records for Elizabeth River at Elizabeth and Saddle River at Lodi.

Weasel Brook at Clifton--Continued

Daily discharge, in second-feet, 1937-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.9	0	b0.1	b0	2.0	5.4	5.7	21	2.9	0.29	15.9
2	.71	.04	.62	b0	b0	2.0	3.6	7.6	15.5	1.8	.24	5.2
3	1.0	0	1.2	0	.19	8.4	3.6	6.4	11.0	2.3	1.1	2.3
4	.03	.36	.32	0	a.2	34	7.4	8.3	8.5	7.0	1.2	1.3
5	0	10.9	0	0	a.2	9.8	6.3	6.4	7.6	3.8	.60	.78
6	0	3.6	0	0	a.2	15.5	4.0	4.5	6.1	3.1	.46	.53
7	.07	.65	0	0	a.5	8.3	4.0	3.6	5.1	2.7	.53	.66
8	.53	.26	0	b.1	a.3	6.9	32	2.9	5.7	2.5	.29	1.7
9	.41	.13	0	b.1	a.25	7.7	23	3.6	9.6	2.3	.29	1.3
10	.10	0	.34	b.1	2.4	4.8	11.4	2.9	7.9	2.3	.92	.65
11	.02	.22	.57	b.15	5.6	3.1	9.0	4.2	5.4	6.1	1.1	.65
12	0	.92	0	b.5	.98	2.5	23	5.1	4.5	5.8	.66	.53
13	0	.40	.05	1.5	.24	2.2	22	3.6	3.6	3.1	.41	.53
14	0	0	0	32	.04	13.0	13.4	2.5	2.9	2.9	.29	.53
15	.03	0	0	36	.04	97	10.5	2.2	3.6	1.4	.29	1.0
16	.23	0	0	1.7	.06	12.2	9.0	26	4.0	1.6	.29	.61
17	0	0	.32	1.1	.64	11.6	7.2	15.3	2.7	.92	1.4	.29
18	0	.32	.23	.36	.92	8.0	9.5	6.1	2.2	1.1	1.4	.19
19	0	.78	0	.19	7.4	9.8	8.1	5.1	2.6	1.3	3.0	.19
20	0	.27	.82	b.15	17.0	6.1	33	4.0	2.2	2.0	1.1	.19
21	.16	0	.10	b.13	11.6	5.4	32	3.6	1.8	2.0	.29	.58
22	1.2	0	0	b.12	5.9	8.6	19.6	3.4	2.5	1.2	.41	.92
23	.38	.25	.10	b.10	4.0	5.9	14.8	7.9	2.9	.73	.29	.46
24	0	.34	.70	b.10	3.8	4.9	12.8	3.8	7.9	.65	.41	.10
25	0	.09	.41	b.10	4.1	3.8	11.6	7.5	4.7	.65	.78	15.4
26	0	.53	.14	b.08	2.4	2.9	10.0	5.4	18.7	3.0	3.9	2.0
27	0	.17	0	b.06	1.4	2.7	10.5	4.2	4.5	2.5	.59	1.1
28	.16	0	0	b.04	1.4	3.7	11.0	9.7	4.0	1.8	18.8	1.7
29	.29	0	0	b.02	1.6	3.6	7.2	4.0	5.1	1.1	4.3	1.7
30	.42	0	.06	b0	-	10.6	5.7	4.3	4.0	2.5	2.7	1.5
31	8.4	-	b.1	b0	-	13.2	-	70	-	.88	2.7	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1937-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
March 7-31, 1937	127.4	16.9	2.3	5.10	1.15	1.07
April	153.0	21	1.7	5.10	1.15	1.28
May	132.3	27	1.5	4.27	.960	1.11
June	124.4	35	1.2	4.15	.933	1.04
July	41.17	6.4	.10	1.33	.299	.34
August	117.86	34	.10	3.80	.854	.98
September	78.98	24	.53	2.63	.591	.66
Water year	-	-	-	-	-	-
October 1937	76.39	22	.10	2.46	.553	.64
November	167.13	35	.65	5.57	1.25	1.40
December	141.3	14.7	1.7	4.56	1.02	1.18
Calendar year	-	-	-	-	-	-
January 1938	241.6	56	2.0	7.79	1.75	2.02
February	164.6	12.5	2.7	5.88	1.32	1.38
March	122.4	8.7	2.0	3.95	.888	1.02
April	149.2	20	1.7	4.97	1.12	1.25
May	100.9	26	1.5	3.25	.730	.84
June	199.8	31	1.1	6.66	1.50	1.67
July	268.6	73	1.5	8.66	1.95	2.25
August	89.00	18.1	.65	2.87	.645	.74
September	281.43	140	.19	9.38	2.11	2.35
Water year 1937-38	2 002.35	140	.10	5.49	1.23	16.74

Weasel Brook at Clifton--Continued

Monthly and annual discharge, in second-feet, 1937-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1938	73.4	8	1.4	2.37	0.533	0.61
November	52.46	5.9	.53	1.75	.393	.44
December	203.3	28	1.5	6.56	1.47	1.70
Calendar year 1938	1 946.69	140	.19	5.33	1.20	16.27
January 1939	183.0	34	2.0	5.90	1.33	1.53
February	388.1	43	4.8	13.9	3.12	3.25
March	384.8	29	7.5	12.4	2.79	3.22
April	321.7	28	5.4	10.7	2.40	2.68
May	88.0	5.8	1.0	2.84	.638	.74
June	39.11	13.7	.10	1.30	.292	.33
July	25.21	6.2	0	.813	.183	.21
August	32.63	9.6	0	1.05	.236	.27
September	12.53	3.1	0	.418	.094	.10
Water year 1938-39	1 804.24	43	0	4.94	1.11	15.08
October 1939	15.94	8.4	0	.514	.116	.13
November	22.13	10.9	0	.738	.166	.19
December	6.08	1.2	0	.196	.044	.05
Calendar year 1939	1 519.23	43	0	4.16	.935	12.70
January 1940	74.80	36	0	2.41	.542	.62
February	73.36	17.0	0	2.53	.569	.61
March	330.2	97	2.0	10.7	2.40	2.77
April	380.6	33	3.6	12.7	2.85	3.18
May	249.8	70	2.2	8.06	1.81	2.09
June	187.8	21	1.8	6.26	1.41	1.57
July	73.98	7.0	.65	2.39	.537	.62
August	51.03	18.8	.24	1.65	.371	.43
September	60.49	15.9	.10	2.02	.454	.51
Water year 1939-40	1 526.21	97	0	4.17	.937	12.77

Second River at Belleville

Location.- Water-stage recorder and concrete control, lat. 40°47'20", long. 74°10'25", 360 feet downstream from bridge on North 6 Street Extension in Belleville, Essex County. Datum of gage is 62.3 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 11.6 square miles.

Records available.- May 1937 to September 1940.

Extremes.- Maximum gage height, 7.05 feet July 23, 1938; minimum recorded, 1.18 feet Aug. 12, 1937, May 16 and Oct. 21, 1938.

Cooperation.- Water-stage recorder inspected by employee of Second River Joint Meeting.

Peak gage height, in feet, at indicated time, 1937-40

Date	Time	Feet	Date	Time	Feet	Date	Time	Feet
1937			1938			1939		
June 3	noon	3.00	June 28	2 a.m.	3.60	May 9	7 p.m.	3.58
June 6	5 p.m.	3.97	July 11	3 p.m.	4.78	June 13	11 p.m.	3.85
June 21	9 p.m.	4.85	July 23	9 a.m.	6.35	June 30	6 a.m.	3.56
June 30	10 p.m.	3.82	July 23	11 a.m.	7.05	June 30	9 a.m.	3.76
July 31	1 a.m.	3.55	July 23	5 p.m.	4.31	June 30	8 p.m.	3.91
Aug. 10	6 p.m.	3.12	Aug. 6	2 p.m.	3.48	Aug. 3	12 p.m.	3.75
Aug. 11	1 p.m.	3.97	Aug. 6	3 p.m.	4.73	Aug. 19	10 p.m.	5.10
Aug. 22	12 p.m.	4.24	Aug. 8	6 p.m.	5.48	1940		
Sept. 4	7 p.m.	4.28	Aug. 11	3 a.m.	3.61	Jan. 14	5 p.m.	3.51
Sept.13	2 p.m.	4.00	Sept.19	2 p.m.	3.75	Jan. 14	10 p.m.	3.76
Oct. 19	12 p.m.	3.31	Sept.20	7 a.m.	3.65	Mar. 14	11:15 p.m.	3.52
Oct. 20	8 a.m.	4.43	Sept.20	9 p.m.	3.08	Mar. 15	2:30 a.m.	3.71
Nov. 13	10 a.m.	3.76	Sept.21	1:30 p.m.	5.00	Apr. 8	6:45 to 7 a.m.	3.49
Nov. 28	9 a.m.	3.85	Nov. 19	5 p.m.	3.20	May 16	2:15 p.m.	3.10
Nov. 28	1 p.m.	3.55	Dec. 4	2 a.m.	3.35	May 16	7:30 p.m.	3.40
1938			Dec. 5	noon	3.43	May 31	7 p.m.	5.54
Jan. 7	7 a.m.	3.64	Dec. 27	5 a.m.	3.14	June 26	7:30 a.m.	3.90
Jan. 24	9 p.m.	3.32	1939			June 26	12:30 p.m.	4.65
Jan. 25	2 and 5 a.m.	3.14	Jan. 6	5 a.m.	3.70	July 11	6 p.m.	5.65
Apr. 18	6 or 7 p.m.	-	Jan. 30	1 p.m.	3.65	July 16	6:30 a.m.	3.43
May 15	4 a.m.	3.16	Jan. 30	6 p.m.	3.32	Aug. 17	2:45 p.m.	3.13
June 5	2 p.m.	3.04	Feb. 3	2 p.m.	3.49	Aug. 19	4 p.m.	3.42
June 7	9 p.m.	4.10	Feb. 28	3 p.m.	3.42	Sept. 1	6:45 a.m.	3.31
June 7	12 p.m.	3.32	Apr. 2	1 a.m.	3.27	Sept.25	2 to 2:15 a.m.	3.58
June 11	noon	3.16	Apr. 6	3 p.m.	3.25	Sept.25	2:15 p.m.	3.17
June 26	2 p.m.	3.19	Apr. 18	5 a.m.	3.51			
June 26	7 p.m.	4.00	Apr. 28	2 a.m.	3.07			

Elizabeth River at Irvington

Location.- Water-stage recorder, lat. 40°44'10", long. 74°13'46", just downstream from Valley Street (erroneously referred to as Orange Avenue in former reports) in Irvington, Essex County.

Drainage area.- 2.91 square miles (revised).

Records available.- October 1930 to September 1938 (discontinued).

Average discharge.- 7 years, 4.92 second-feet.

Extremes.- 1930-38: Maximum discharge, 1,750 second-feet July 23, 1938 (gage height, 12.1 feet, from floodmark), from rating curve extended above 800 second-feet; minimum daily, about 0.1 second-foot Oct. 8-10, 1935, and Jan. 8, 1936.

Daily discharge, in second-feet, 1934-38

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	3.7	7.5	28	1.7	3.0	1.8	1.7	1.4	a1.8	2.1	0.6
2	2.6	2.1	2.2	1.7	1.7	4.1	2.1	1.7	1.4	a1.8	3.4	.6
3	2.4	2.0	2.2	1.4	1.8	2.4	2.0	1.7	1.8	a1.9	2.1	7.2
4	2.6	12.2	8.9	1.1	2.0	3.0	2.1	1.4	6.6	2.0	1.5	22
5	5.5	2.0	2.1	1.0	1.8	3.4	1.8	2.0	1.4	2.0	1.8	4.1
6	68	5.2	2.1	.9	2.0	3.7	2.8	3.0	3.0	1.8	2.0	61
7	3.4	2.2	2.1	1.4	2.0	5.2	2.2	9.3	1.5	1.7	1.8	.5
8	3.2	2.4	1.5	1.5	1.8	3.4	2.8	1.4	8.1	2.0	2.1	.5
9	3.2	2.1	.8	2.2	4.6	2.4	14.1	1.4	17.2	16.0	2.2	1.0
10	3.0	2.1	1.4	4.6	2.2	2.8	2.1	1.4	1.8	6.3	1.7	.7
11	3.0	3.4	1.7	2.4	2.2	4.1	2.2	1.2	1.8	2.0	4.9	.6
12	2.8	2.1	1.5	1.8	2.2	11.8	6.9	1.4	1.7	4.9	1.5	1.2
13	2.2	2.2	1.4	1.7	2.6	5.5	3.7	1.5	2.0	3.7	2.6	1.4
14	1.8	2.2	1.2	2.4	35	2.2	2.1	1.7	1.8	1.8	4.9	1.7
15	2.2	2.2	.9	2.2	8.5	2.1	2.8	1.8	2.6	1.8	1.7	1.7
16	2.6	2.2	.8	2.1	5.5	2.1	2.2	1.7	1.5	1.8	1.5	2.0
17	2.6	2.1	1.2	a4.0	11.3	2.0	2.4	2.0	4.4	1.8	1.0	1.8
18	2.6	2.2	1.4	a3.4	3.2	2.2	2.2	1.7	13.2	2.0	.8	2.0
19	2.6	2.8	29	a2.0	3.0	4.1	2.4	1.7	5.2	8.1	1.5	.8
20	2.0	2.8	2.1	a15.0	2.6	2.1	2.0	2.1	2.0	6.0	1.8	.8
21	3.4	3.2	1.1	a5.0	2.2	10.5	1.5	2.0	1.8	1.7	1.8	1.0
22	6.9	2.8	1.2	a3.5	2.1	2.0	1.8	2.1	3.9	38	2.8	.7
23	2.4	2.8	.9	2.2	3.0	1.8	2.1	2.4	1.7	3.4	1.8	.9
24	2.6	6.9	1.1	2.1	3.4	1.7	1.4	2.4	2.2	3.9	1.8	1.1
25	2.8	2.0	.9	2.0	2.6	1.8	1.4	2.1	3.0	7.8	.8	1.1
26	10.1	2.0	12.2	1.8	8.5	1.8	1.5	1.7	3.0	1.8	.6	1.2
27	2.0	2.0	1.1	1.7	3.4	1.7	1.8	3.4	all.0	1.7	.6	1.4
28	1.8	2.4	1.1	1.8	2.6	10.5	1.8	3.7	a5.0	1.4	.6	1.0
29	2.0	2.1	4.1	1.8	-	2.4	2.1	5.5	a2.0	1.8	.8	1.4
30	1.8	18.4	1.0	1.8	-	1.4	10.1	1.2	a1.9	2.0	2.1	1.4
31	2.1	-	.9	1.8	-	1.4	-	1.8	-	2.1	.7	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.

Elizabeth River at Irvington--Continued

Daily discharge, in second-feet, 1934-38--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.7	1.4	0.4	1.0	5.5	5.5	3.9	2.4	3.0	3.2	1.0
2	.2	1.4	1.5	7.8	1.0	4.6	7.8	2.8	2.4	3.0	3.4	1.2
3	.2	.6	1.8	67	1.1	8.1	7.8	a2.8	2.6	3.2	3.9	.9
4	.2	.8	2.0	.4	1.2	9.7	4.4	a35	2.8	3.2	4.1	1.0
5	.3	.9	2.1	.2	1.1	7.5	7.8	a3.5	2.6	3.4	4.1	.9
6	.7	1.1	2.4	.5	1.2	4.9	68	a3.4	2.4	3.4	14.1	1.0
7	.2	2.8	2.4	2.0	1.2	3.7	7.5	a3.4	2.6	3.4	2.6	1.1
8	.1	1.4	2.6	.1	1.0	3.7	5.5	a3.3	a2.7	3.7	2.2	1.2
9	.1	1.0	3.2	21	1.0	4.9	8.1	a3.2	a2.6	3.9	1.8	1.4
10	.1	.8	2.2	1.1	1.2	8.1	7.5	a3.1	a2.6	4.1	2.2	1.2
11	.3	1.7	2.2	.7	1.2	76	5.7	a3.1	a18.0	6.3	3.2	1.2
12	.3	3.7	2.4	1.1	1.1	17.8	7.2	a3.0	2.4	2.1	3.7	1.2
13	.2	2.4	2.4	3.9	1.2	6.9	8.1	a17.0	108	2.4	17.8	.7
14	.4	1.2	3.0	1.7	1.2	6.0	4.4	a3.5	8.9	4.4	2.0	1.0
15	.6	1.1	11.3	15.1	1.4	6.0	4.1	a3.2	15.1	2.8	3.4	1.7
16	.8	1.2	2.1	2.4	.9	6.3	4.9	a3.1	3.2	3.0	4.6	.4
17	.8	29	1.7	1.7	2.6	8.1	3.7	a3.0	2.6	3.2	2.0	.5
18	.9	4.6	1.7	4.1	3.0	43	3.2	a3.0	30	3.4	2.0	43
19	.7	1.5	1.7	1.8	1.8	15.1	3.4	a5.0	3.4	3.4	2.0	.7
20	.8	1.8	1.8	1.7	2.2	7.2	3.4	a3.3	2.6	6.0	2.2	.5
21	1.7	1.8	1.8	1.7	2.1	32	3.9	a2.9	45	2.8	2.2	.6
22	2.6	2.0	1.5	1.8	2.1	9.7	4.1	a2.6	3.4	3.0	2.2	.5
23	3.0	2.0	1.4	1.8	2.4	7.5	4.6	a2.5	3.7	3.2	45	.7
24	2.8	3.0	1.2	1.2	2.2	6.9	4.4	a2.4	5.5	6.9	8.5	.9
25	3.0	2.0	1.1	1.1	7.8	6.9	3.7	a2.3	3.4	2.1	2.1	.9
26	3.0	2.0	1.1	1.0	7.8	6.3	a3.6	a2.2	3.4	2.4	2.2	.9
27	2.2	2.0	1.0	1.2	7.8	17.2	a3.6	a5.8	3.2	2.8	1.8	1.1
28	2.6	19.0	.9	1.2	6.9	13.2	a3.9	a2.4	4.9	3.0	1.7	1.5
29	3.2	10.5	.6	1.2	6.3	9.3	a3.9	2.4	3.0	3.2	2.4	3.2
30	41	1.2	.7	1.2	-	9.3	a3.9	2.2	4.4	3.4	1.0	2.8
31	16.6	-	.6	1.1	-	6.9	-	2.2	-	3.7	1.2	-

a No gage-height record; discharge computed on basis of records for station at Elizabeth.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	0.9	1.5	2.4	4.6	3.2	3.4	3.4	2.1	2.4	1.8	1.5
2	.4	1.5	29	6.6	4.1	3.0	4.1	2.8	2.4	1.8	2.2	2.0
3	.3	1.4	2.2	17.2	3.7	2.8	2.8	3.0	7.2	2.0	2.1	1.8
4	.3	1.5	1.5	3.4	3.9	3.0	3.0	3.2	2.2	1.4	2.2	10.1
5	.7	3.0	1.4	3.2	3.9	3.0	4.6	2.8	2.1	2.0	2.2	6.9
6	1.0	1.4	11.3	3.2	3.9	3.0	13.6	10.5	13.2	2.1	2.8	2.2
7	1.2	1.1	6.6	17.8	3.4	3.0	2.0	2.8	2.0	2.1	3.0	1.8
8	1.0	2.8	1.8	3.4	3.4	4.6	2.4	2.6	1.8	2.4	1.8	2.8
9	.9	1.0	2.0	3.0	4.4	2.4	6.0	2.4	1.8	2.6	2.6	2.0
10	2.4	1.0	3.9	11.8	3.4	2.4	2.0	3.2	4.1	2.8	2.8	2.0
11	.8	1.1	14.1	3.4	3.7	2.2	2.0	2.2	5.5	2.1	67	2.0
12	1.0	1.2	3.4	3.2	4.1	2.4	2.0	2.4	5.2	2.6	23	2.0
13	1.4	1.1	2.1	3.0	4.4	2.4	2.3	9.7	1.1	2.0	2.6	81
14	1.5	.9	3.0	3.0	7.8	2.6	2.6	62	13.6	6.0	2.1	2.6
15	1.7	1.0	3.2	17.8	2.8	22	2.8	6.0	1.2	37	2.0	1.8
16	2.0	1.1	6.3	3.0	3.0	9.3	2.6	2.4	1.2	3.2	2.1	1.8
17	50	1.2	10.1	20	2.8	3.7	2.6	2.6	2.1	1.8	2.2	1.7
18	2.6	1.2	2.1	7.5	2.8	3.9	4.6	2.6	2.8	1.7	6.3	1.7
19	2.1	1.2	10.9	3.4	2.8	3.9	2.8	2.6	1.4	2.0	13.2	1.7
20	1.5	1.2	34	3.4	2.8	9.7	2.8	2.4	1.1	2.1	2.2	2.1
21	1.2	1.2	3.4	12.7	5.5	6.3	33	2.4	51	2.0	3.0	2.2
22	1.2	1.2	2.8	13.6	21	2.4	27	3.0	4.4	2.0	22	2.2
23	1.2	1.2	3.0	8.5	4.4	2.4	3.4	14.1	2.1	2.4	27	2.2
24	.9	2.4	3.0	8.5	3.9	2.4	3.0	2.2	2.4	2.2	3.9	2.6
25	.9	a1.6	2.8	8.1	4.1	5.7	2.6	2.1	2.2	2.0	2.2	2.2
26	1.0	a1.4	3.0	3.9	3.0	2.2	2.8	2.2	2.2	16.6	3.4	2.1
27	1.0	a1.2	2.6	3.7	3.0	2.2	56	2.2	2.2	2.8	2.1	2.4
28	1.0	a1.2	3.4	3.7	3.2	2.1	17.8	2.2	7.8	3.2	1.4	3.7
29	1.0	1.2	3.7	3.7	-	2.4	3.9	2.1	2.2	2.4	1.2	2.0
30	1.1	1.5	3.9	3.2	-	2.6	3.4	1.8	21	3.0	1.4	1.8
31	1.2	-	12.2	26	-	3.0	-	1.8	-	7.5	1.4	-

a No gage-height record; discharge computed on basis of records for station at Elizabeth.

Elizabeth River at Irvington--Continued

Daily discharge, in second-feet, 1934-38--Continued
1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	2.2	2.4	6.0	2.8	3.0	-	-	-	-		-
2	2.2	1.8	2.4	4.6	2.8	3.2	-	-	-	-		-
3	2.8	2.2	2.4	2.6	10.1	3.0	-	-	-	-		-
4	3.0	1.8	2.2	2.4	3.2	4.1	-	-	-	-		-
5	12.7	1.7	2.4	2.4	2.6	10.9	-	-	-	-		-
6	4.6	1.2	13.2	2.8	4.1	2.8	-	-	-	-		-
7	1.5	1.7	2.4	39	4.1	2.4	8.9	-	30	-		-
8	1.8	1.4	2.4	2.2	3.0	2.4	26	-	-	-		-
9	1.7	2.1	2.4	2.2	4.1	2.6	8.1	-	-	-		-
10	4.1	1.8	2.4	2.4	3.2	2.4	-	-	-	-		-
11	1.7	1.4	2.4	2.4	3.0	2.6	-	-	-	-		-
12	1.8	1.8	2.2	2.6	2.8	2.4	-	-	-	-		-
13	1.7	64	2.4	3.0	8.9	5.5	*3.3	-	-	-		-
14	1.5	3.0	2.6	2.8	2.8	12.7	-	-	-	*3.9		-
15	1.7	2.6	2.6	2.6	2.8	5.5	-	-	-	11.8		-
16	1.5	2.2	8.9	2.2	2.6	15.1	-	-	-	-		-
17	1.4	2.2	8.9	2.4	2.8	4.1	-	-	-	-		-
18	2.6	2.4	10.1	2.8	3.2	2.6	26	*2.6	-	-		-
19	32	3.0	3.2	2.8	12.2	2.1	5.7	-	-	-		35
20	26	3.9	3.7	3.4	10.5	2.1	-	-	-	-		85
21	2.8	2.2	3.0	2.2	3.0	2.4	-	-	-	-		156
22	6.3	2.2	2.4	4.6	3.2	2.6	-	-	*2.7	-		10.9
23	8.9	2.2	2.4	5.2	9.3	2.8	-	6.0	-	230		-
24	2.6	2.2	6.6	21	3.4	3.2	-	11.3	-	-		-
25	3.2	2.1	2.4	34	3.2	3.0	-	-	-	-		-
26	3.0	2.4	2.1	3.9	3.0	4.1	9.7	8.1	35	-		-
27	3.7	5.7	2.2	3.2	2.6	4.1	15.1	9.3	28	-		-
28	26	65	4.1	2.6	3.0	3.2	11.8	-	49	-		-
29	2.8	3.7	2.4	2.1	-	3.0	-	-	-	-		-
30	2.6	2.6	2.6	2.2	-	4.1	-	-	-	-		-
31	2.2	-	2.6	15.1	-	5.7	-	-	-	-		-

* Discharge measurement.

Monthly and annual discharge, in second-feet, 1934-38

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	159.0	68	1.8	5.13	1.76	2.03
November	104.8	18.4	2.0	3.49	1.20	1.34
December	97.6	29	.8	3.15	1.08	1.24
Calendar year 1934	2 121.3	155	.8	5.81	2.00	27.10
January 1935	106.3	28	.9	3.43	1.18	1.36
February	125.5	35	1.7	4.48	1.54	1.60
March	108.6	11.8	1.4	3.50	1.20	1.38
April	88.2	14.1	1.4	2.94	1.01	1.13
May	70.1	9.3	1.2	2.26	.777	.90
June	115.9	17.2	1.4	3.86	1.33	1.48
July	136.8	38	1.4	4.41	1.52	1.75
August	57.3	4.9	.6	1.85	.636	.73
September	123.4	61	.5	4.11	1.41	1.57
Water year 1934-35	1 293.5	68	.5	3.54	1.22	16.51
October 1935	90.2	41	.1	2.91	1.00	1.15
November	106.2	29	.6	3.54	1.22	1.36
December	63.8	11.3	.6	2.06	.708	.82
Calendar year 1935	1 192.3	61	.1	3.27	1.12	15.23
January 1936	149.2	67	.1	4.81	1.65	1.90
February	73.0	7.8	.9	2.52	.866	.93
March	378.3	76	3.7	12.2	4.19	4.83
April	217.6	68	3.2	7.25	2.49	2.78
May	141.5	35	2.2	4.56	1.57	1.81
June	299.8	108	2.4	9.99	3.43	3.83
July	107.8	6.9	2.1	3.48	1.20	1.38
August	154.8	45	1.2	4.99	1.71	1.97
September	74.9	43	.4	2.50	.859	.96
Water year 1935-36	1 857.1	108	.1	5.07	1.74	23.72

Note.- Drainage area of 2.79 square miles used in previously published reports was not correct.

Elizabeth River at Irvington--Continued

Monthly and annual discharge, in second-feet, 1934-38--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	110.5	50	0.3	3.56	1.22	1.41
November	40.9	3.0	.9	1.36	.467	.52
December	194.2	34	1.4	6.26	2.15	2.48
Calendar year 1936	1 942.5	108	.1	5.31	1.82	24.80
January 1937	235.3	26	2.4	7.59	2.61	3.01
February	123.8	21	2.8	4.42	1.52	1.58
March	126.2	22	2.1	4.07	1.40	1.61
April	223.9	56	2.0	7.46	2.56	2.86
May	167.7	62	1.8	5.41	1.86	2.14
June	171.6	51	1.1	5.72	1.97	2.20
July	128.2	37	1.4	4.14	1.42	1.64
August	215.2	67	1.2	6.94	2.38	2.74
September	154.9	81	1.5	5.16	1.77	1.98
Water year 1936-37	1 892.4	81	.3	5.18	1.78	24.17
October 1937	172.6	32	1.4	5.57	1.91	2.20
November	194.7	65	1.2	6.49	2.23	2.49
December	114.4	13.2	2.1	3.69	1.27	1.46
Calendar year 1937	2 028.5	81	1.1	5.56	1.91	25.91
January 1938	189.7	39	2.1	6.12	2.10	2.42
February	122.3	12.2	2.6	4.37	1.50	1.56
March	129.7	15.1	2.1	4.18	1.44	1.66
April	-	26	-	-	-	-
May	-	11.3	-	-	-	-
June	-	49	-	-	-	-
July	-	230	-	-	-	-
August	-	-	-	-	-	-
September	-	156	-	-	-	-
Water year 1937-38	-	230	-	-	-	-

Elizabeth River at Elizabeth

Location.- Water-stage recorder and concrete control, lat. 40°40'03", long. 74°13'09", just upstream from Westfield Avenue Bridge in Elizabeth, Union County, 3½ miles (revised) upstream from mouth. Datum of gage is 5.23 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 18.0 square miles (20.2 square miles prior to Jan. 1, 1929, when trunk sewer which discharges into river 200 feet downstream from station was completed).

Records available.- October 1921 to September 1940.

Average discharge.- 19 years, 26.8 second-feet (adjusted for diversion).

Extremes.- 1921-40: Maximum discharge, 2,720 second-feet July 23, 1938 (gage height, 13.05 feet, from floodmark), by contracted-opening method; no flow at times due to regulation.

Peak gage height and discharge during period of this report and revised data for earlier years.-
1927: Sept. 1 (5:30 p.m.) 9.71 ft., *1,890 sec.-ft.
1928: July 6 (6 a.m.) 8.82 ft., *1,660 sec.-ft.
1932: Nov. 19 (1 p.m.) 9.73 ft., *1,890 sec.-ft.
1934: Oct. 6 (10:30 a.m.) 5.96 ft., *784 sec.-ft.
1936: Jan. 3 (9 a.m.) 6.04 ft., *816 sec.-ft.; June 13 (5 a.m.) 6.03 ft., 812 sec.-ft.
1937: Aug. 11 (8:15 p.m.) 6.00 ft., *800 sec.-ft.
1938: July 23 (1 p.m.) 13.05 ft., from floodmark, 2,720 sec.-ft.; Sept. 21 (5:15 p.m.) 9.25 ft., 1,770 sec.-ft.
1939: Aug. 20 (2 a.m.) 5.92 ft., 768 sec.-ft.
1940: May 31 (9 a.m.) 11.40 ft., 2,320 sec.-ft.; July 11 (10:30 p.m.) 6.00 ft., 800 sec.-ft.

Remarks.- Water diverted for municipal supply from Hammock well field of Elizabethtown Water Co.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	10.0	24	107	6.7	14.6	9.4	7.3	6.0	4.6	5.0	3.4
2	11.7	6.5	8.2	13.3	7.0	24	9.5	7.5	4.2	4.6	6.4	3.3
3	4.6	6.5	6.8	11.3	7.8	16.7	8.2	7.4	4.6	4.7	11.6	17.4
4	.7	38	30	8.2	8.3	14.0	8.2	6.9	15.4	4.2	4.3	119
5	.8	8.2	7.6	7.0	7.1	13.7	8.1	6.9	6.8	4.1	4.1	64
6	184	16.5	5.7	6.6	6.6	13.3	10.5	11.0	12.1	4.2	4.4	159
7	18.5	7.9	4.1	7.1	6.3	14.4	7.8	45	5.1	4.1	4.5	12.8
8	14.8	7.1	5.8	7.8	6.3	15.5	8.3	8.8	13.6	4.1	4.3	9.1
9	13.1	6.5	4.7	10.0	14.3	10.7	60	7.1	65	52	4.3	12.0
10	12.4	6.5	7.6	19.6	12.0	10.4	17.9	7.1	6.2	29	4.1	10.5
11	11.0	10.9	10.0	10.2	10.7	15.2	11.6	6.3	5.9	5.3	36	5.8
12	10.7	6.1	12.3	7.6	9.4	44	26	5.7	6.1	5.0	4.3	5.1
13	10.0	5.8	14.4	6.3	10.4	52	26	6.0	5.1	29	8.0	4.7
14	9.3	6.0	8.9	6.5	57	18.3	12.2	6.2	5.1	4.8	57	4.8
15	9.3	5.8	6.3	5.8	112	15.2	11.6	5.6	5.6	4.6	19	4.2
16	9.0	5.8	5.8	6.0	46	13.9	10.6	5.9	5.6	4.6	5.5	3.7
17	8.7	5.6	5.4	12.3	67	12.3	10.0	6.0	11.4	4.4	4.9	3.8
18	8.7	5.4	5.2	10.7	29	9.6	8.5	5.2	49	4.5	3.6	3.9
19	8.5	5.4	58	6.3	22	15.4	8.1	4.9	13.9	21	3.5	3.9
20	7.9	5.8	45	40	17.4	12.0	7.6	5.3	12.6	57	4.3	4.2
21	7.6	6.0	1.4	25	13.5	45	7.0	5.8	5.3	7.0	4.3	13.1
22	8.2	36	1.3	28	12.3	13.9	7.2	5.4	10.4	129	17.8	7.9
23	7.6	12.9	1.2	12.2	14.8	11.6	7.2	5.1	5.1	17.4	5.2	3.7
24	7.3	4.1	1.2	10.1	16.2	10.3	7.6	5.2	4.6	40	3.7	2.0
25	46	3.9	3.1	9.6	13.3	9.4	6.8	4.7	4.6	49	3.4	.3
26	4.0	3.9	48	9.2	30	9.6	6.5	4.0	4.5	11.5	3.5	.3
27	1.9	3.9	8.5	8.0	19.2	8.9	6.5	4.3	41	7.0	3.7	.3
28	1.5	3.9	7.3	9.1	14.4	50	6.1	4.6	11.4	5.5	3.8	.4
29	2.4	3.9	21	8.2	-	17.0	5.9	9.2	5.3	5.3	3.6	.4
30	5.8	45	6.7	7.6	-	10.6	36	6.0	4.9	5.5	12.2	.3
31	5.8	-	5.8	7.2	-	9.2	-	12.7	-	5.3	4.2	-

* Revised; previously published figure was in error.

Elizabeth River at Elizabeth--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a3.5	11.0	8.7	4.0	6.3	46	14.0	8.7	6.8	10.8	4.9	4.6
2	a3.8	10.0	7.6	9.1	6.0	35	24	8.5	7.1	7.8	4.6	4.7
3	a3.6	5.9	6.8	291	6.0	53	29	76	6.8	7.8	4.7	6.3
4	a3.5	5.4	6.3	28	6.5	63	14.0	116	6.5	7.6	5.3	4.4
5	a3.5	5.5	6.0	20	6.4	49	18.0	15.1	6.3	8.2	5.0	4.3
6	a3.7	5.1	5.6	14.4	6.2	32	313	1.7	5.8	7.7	79	4.1
7	a8.5	12.2	5.4	24	6.0	22	22	1.6	5.8	7.8	7.0	4.0
8	a4.7	7.9	5.6	12.0	5.8	18.4	7.9	11.0	6.0	7.2	5.5	4.0
9	a3.6	4.7	10.6	163	6.3	22	33	11.0	6.3	7.5	4.7	4.1
10	3.5	4.2	6.1	47	6.1	32	44	10.3	6.5	7.8	4.7	4.0
11	4.4	4.2	6.0	23	6.0	210	53	10.3	76	30	4.9	4.1
12	5.6	14.1	5.6	19.0	5.8	146	34	9.6	21	16.2	5.2	5.1
13	3.5	9.4	5.4	23	6.0	46	39	71	225	7.8	42	4.1
14	3.7	7.3	5.4	14.2	6.5	32	23	26	77	13.1	10.1	5.4
15	3.3	4.5	29	67	6.5	24	20	12.0	76	9.6	7.4	11.3
16	3.3	4.2	17.4	38	6.5	19.5	23	10.0	22	6.3	27	4.8
17	3.3	89	6.3	17.4	11.8	21	15.7	8.7	14.4	6.2	6.6	4.2
18	3.6	29	5.6	30	20	122	14.8	8.7	119	6.2	5.0	153
19	3.5	8.7	5.8	16.9	9.6	87	13.1	19.7	27	24	5.1	56
20	3.2	7.9	6.0	14.7	7.4	36	12.7	11.8	18.0	14.3	4.9	7.4
21	3.2	6.8	4.0	12.7	6.3	119	12.7	9.0	49	8.0	4.9	8.6
22	3.6	6.3	5.5	12.3	6.7	31	6.3	8.7	12.5	31	4.7	6.5
23	4.2	5.6	5.1	10.1	7.3	23	3.2	8.2	11.6	1.3	43	6.0
24	3.8	8.1	4.9	13.4	6.8	20	5.0	7.6	21	5.3	134	6.2
25	3.4	6.1	4.7	13.6	27	18.0	9.3	7.6	10.3	5.6	8.4	5.6
26	3.3	5.8	4.6	9.5	36	16.1	9.0	7.6	47	5.2	9.7	4.7
27	3.1	5.6	4.4	7.7	44	51	8.7	27	4.4	5.4	6.5	4.4
28	3.1	44	4.3	7.4	43	51	9.0	8.5	1.3	5.4	5.6	4.5
29	3.8	79	3.7	7.0	47	19.5	9.0	7.6	1.0	5.6	10.2	6.0
30	99	11.0	4.0	7.2	-	17.0	9.0	7.1	7.9	5.2	4.7	20
31	125	-	4.1	6.8	-	15.7	-	6.8	-	5.2	4.7	-

a No gage-height record; discharge computed on basis of records for Rahway River at Rahway.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	173	4.9	4.0	15.4	36	b10	9.6	16.6	7.1	26	6.0	7.6
2	19.5	4.7	88	24	24	b10	13.5	13.1	6.8	8.5	5.1	7.1
3	1.1	5.1	34	91	17.8	9.6	9.0	12.4	29	7.3	5.1	6.1
4	.9	5.6	9.6	23	14.8	10.0	8.5	12.0	9.6	6.5	5.2	30
5	.9	14.7	7.1	16.1	14.8	10.7	9.4	11.3	7.1	6.3	5.2	42
6	.9	5.1	36	12.4	14.4	9.6	99	40	31	6.3	5.1	11.0
7	.9	4.9	68	89	12.7	8.7	17.0	12.8	27	6.1	6.7	7.9
8	5.7	23	12.4	27	12.4	16.6	14.0	10.7	9.3	6.0	5.8	8.7
9	5.8	9.0	9.3	20	14.8	11.2	40	10.3	7.9	6.1	11.4	6.5
10	25	5.3	22	55	14.4	9.0	17.5	13.0	23	6.1	10.8	5.8
11	5.6	4.7	59	26	11.3	8.7	12.7	9.3	23	6.8	169	5.1
12	4.7	4.9	36	18.0	11.7	8.7	11.3	9.3	9.7	8.3	94	4.6
13	4.6	5.1	14.8	14.8	11.7	9.0	10.7	19.0	8.6	6.5	28	168
14	4.7	4.7	10.7	13.1	38	8.5	10.3	163	50	9.4	14.0	23
15	5.1	4.6	9.0	105	13.1	51	12.2	70	40	124	10.0	13.6
16	5.4	5.0	9.7	25	12.0	70	10.7	24	1.2	24	8.7	11.0
17	187	3.8	83	85	10.7	21	9.0	18.5	1.0	10.3	7.9	10.0
18	18.6	4.8	15.3	109	10.0	17.0	9.7	14.0	1.1	7.9	13.7	8.5
19	11.3	4.3	32	20	9.6	14.8	15.9	12.4	2.4	6.5	45	7.3
20	9.3	4.9	200	2.4	9.6	48	8.7	11.0	6.0	6.3	10.3	6.5
21	8.5	4.7	33	50	9.9	67	57	10.0	61	6.3	16.4	5.8
22	8.2	4.3	22	79	139	20	128	11.2	70	5.8	50	5.4
23	7.3	4.1	14.8	68	24	15.7	34	58	36	6.0	134	5.6
24	6.5	11.4	12.0	48	19.0	14.0	19.0	13.3	1.1	5.8	15.3	6.1
25	5.8	7.0	10.3	63	b15	37	14.0	10.0	.9	5.1	5.2	5.8
26	5.9	6.9	10.0	28	b14	16.1	11.7	9.3	.9	35	17.1	5.6
27	5.2	4.3	9.3	20	12.4	12.0	171	9.6	2.7	10.8	19.4	5.2
28	5.6	4.3	9.3	17.0	10.7	11.3	77	8.7	19.9	6.0	11.7	9.8
29	5.4	4.1	8.5	16.1	-	10.7	30	8.2	6.6	5.4	9.0	5.8
30	5.6	4.0	8.7	14.4	-	10.3	22	7.3	36	5.6	8.7	5.4
31	4.7	-	50	105	-	10.0	-	6.8	-	23	7.6	-

b Stage-discharge relation affected by ice.

Elizabeth River at Elizabeth--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.4	7.6	18.0	17.7	17.0	10.1	9.3	8.2	6.1	17.0	27	30
2	5.4	7.9	15.3	17.4	13.6	10.7	8.5	8.2	7.1	13.1	21	7.6
3	5.4	7.3	13.1	10.7	36	11.3	8.2	7.9	16.8	10.7	17.0	6.5
4	5.2	7.1	11.7	9.3	18.9	9.5	8.2	7.9	7.3	8.7	15.7	6.1
5	12.6	7.3	10.3	8.7	14.4	38	7.9	8.2	15.7	8.2	13.6	6.1
6	36	6.5	66	8.7	14.0	14.5	8.5	8.2	10.1	7.6	41	10.5
7	6.8	6.0	3.8	126	28	11.0	25	7.6	26	7.3	15.1	6.3
8	5.6	6.3	11.3	22	13.6	10.7	86	7.9	171	7.6	83	6.3
9	5.2	6.8	10.7	14.8	14.9	9.6	80	8.8	1.9	7.6	34	6.1
10	10.2	6.5	9.6	12.4	15.2	10.0	23	21	7.8	15.0	26	6.0
11	5.6	6.0	8.7	11.0	11.3	9.3	16.1	30	18.0	71	54	5.4
12	5.6	6.0	7.9	10.3	11.0	9.0	14.4	1.8	15.5	15.3	14.0	5.4
13	5.4	202	7.6	11.0	32	15.3	12.7	1.4	89	10.0	11.7	11.9
14	5.1	42	7.3	10.3	13.1	49	12.0	32	24	18.0	10.3	6.1
15	5.1	22	7.6	9.6	11.0	46	11.3	114	10.7	30	10.0	15.5
16	4.9	15.7	28	8.5	10.0	61	10.0	12.4	10.3	10.4	10.0	8.2
17	4.7	13.1	23	8.5	10.0	34	9.3	10.3	9.0	30	10.7	6.9
18	5.4	11.0	56	8.2	10.7	22	105	9.3	a58	11.8	16.8	12.5
19	32	10.3	15.3	7.3	35	15.7	41	8.7	a12	13.2	10.0	140
20	209	14.7	12.4	9.5	59	14.0	20	8.7	a9	78	8.2	230
21	11.5	9.6	11.3	8.2	16.6	12.7	16.1	7.6	7.9	56	7.6	751
22	1.8	8.5	11.0	12.2	14.4	12.0	42	14.2	7.3	77	7.6	84
23	34	7.9	10.3	17.4	37	11.0	1.8	7.3	8.2	a1 000	7.9	16.2
24	11.0	7.9	16.1	51	21	10.3	1.6	32	8.0	a180	7.6	33
25	9.0	7.6	21	171	15.3	9.3	6.4	12.0	6.5	a60	7.1	26
26	8.5	7.3	10.3	34	12.4	12.4	10.3	46	77	a45	7.9	23
27	8.2	14.2	9.0	22	12.0	10.3	10.0	26	97	a36	7.3	36
28	88	197	13.9	16.6	11.0	9.3	9.3	2.4	222	37	6.3	20
29	13.6	56	9.6	12.7	-	8.7	10.7	2.3	26	34	6.5	15.7
30	10.3	23	9.0	11.3	-	9.0	9.3	2.3	23	31	7.1	14.4
31	8.2	-	8.7	59	-	18.3	-	2.3	-	47	7.1	-

a No gage-height record; discharge computed on basis of floodmark and records for Rahway River at Rahway.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.3	7.6	17.4	10.0	22	62	8.0	19.5	7.8	62	5.5	1.0
2	9.6	7.3	11.3	9.7	23	30	128	12.5	7.6	17.6	5.5	.9
3	9.3	7.0	12.4	9.7	301	24	30	14.0	7.3	12.1	23	.9
4	9.3	7.9	108	9.4	72	22	24	13.2	9.7	9.7	53	.9
5	9.0	7.6	186	9.7	35	48	19.9	12.5	7.5	8.5	4.5	6.4
6	44	7.6	72	139	29	80	162	10.7	7.4	12.3	1.1	5.0
7	16.6	7.3	10.0	22	41	5.1	64	9.4	7.4	8.8	2.1	7.9
8	9.6	15.1	16.0	17.3	26	14.4	31	10.0	8.1	7.9	8.6	5.0
9	8.5	26	31	14.5	22	21	28	41	8.4	8.2	6.0	4.7
10	7.9	7.9	38	20	45	17.4	26	22	17.9	8.8	5.8	7.2
11	8.5	7.3	16.1	13.2	78	15.6	26	12.8	9.9	7.0	5.3	4.5
12	8.2	6.7	20	11.9	25	50	36	11.7	7.7	7.3	5.1	4.9
13	8.2	6.5	13.6	11.3	21	85	18.9	12.7	23	7.3	4.7	5.3
14	8.2	6.3	12.8	12.1	18.4	51	18.9	11.2	141	8.5	13.8	5.3
15	7.6	6.3	11.4	11.4	56	73	16.5	9.7	13.0	6.7	5.5	5.1
16	6.5	5.8	11.0	10.7	27	103	14.4	10.0	13.4	5.8	5.5	4.5
17	6.5	28	11.0	11.0	17.4	33	29	10.9	7.5	6.0	5.9	3.9
18	7.3	8.2	11.7	10.7	16.1	26	97	10.1	11.4	6.3	5.5	3.4
19	7.3	77	11.4	9.7	14.4	22	31	9.7	4.3	6.5	106	4.3
20	23	28	10.3	9.7	14.8	21	29	9.1	13.6	6.3	162	7.0
21	26	10.3	10.0	9.1	14.4	19.4	21	12.1	3.9	6.5	14.4	35
22	8.2	9.1	9.4	11.9	17.2	17.9	17.9	27	2.8	5.8	10.6	5.3
23	7.1	13.6	8.5	8.6	11.9	16.1	14.8	10.3	39	5.3	8.1	4.9
24	23	9.8	8.8	9.1	12.1	15.6	14.0	13.1	18.1	4.9	12.8	4.5
25	10.2	9.7	8.5	9.1	11.4	14.8	14.8	9.1	2.3	5.3	42	4.3
26	7.9	10.0	7.9	7.6	139	13.6	17.6	9.7	1.4	5.8	.8	4.3
27	18.0	10.7	131	7.6	38	15.2	15.7	7.9	1.3	40	.7	7.5
28	16.0	10.0	17.0	7.3	154	75	34	8.1	4.1	40	.7	6.7
29	10.7	10.0	13.2	14.2	-	18.9	16.5	8.0	12.4	1.4	.8	5.1
30	7.1	14.4	12.1	197	-	106	26	8.1	299	5.1	21	30
31	6.8	-	11.0	37	-	17.4	-	7.9	-	5.5	46	-

Elizabeth River at Elizabeth--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	6.8	4.9	2.9	4.1	7.3	16.0	12.2	52	10.3	6.3	113
2	21	.9	25	2.7	4.5	6.0	12.5	27	37	9.4	6.0	20
3	52	.9	6.9	3.2	4.3	71	19.1	15.1	39	24	5.5	13.6
4	8.2	1.7	4.3	4.1	3.9	204	41	30	35	41	4.7	10.7
5	6.3	111	4.7	4.1	3.6	54	23	12.2	24	10.3	5.1	9.1
6	6.7	22	4.7	3.7	9.6	39	11.7	10.3	17.9	9.1	32	8.8
7	6.0	8.5	4.7	3.4	7.2	23	9.7	10.0	14.8	9.7	24	7.6
8	5.1	6.7	5.3	3.6	4.5	16.5	155	9.4	13.2	7.6	7.3	7.5
9	33	5.8	2.7	4.5	4.7	13.6	137	16.7	27	8.5	8.2	44
10	6.0	5.5	3.7	4.7	18.3	11.3	14.9	9.7	17.5	8.5	6.3	9.1
11	5.5	5.3	14.6	4.9	19.2	8.9	1.7	11.3	12.8	149	5.1	7.9
12	5.1	4.5	4.5	13.4	5.3	7.9	99	15.1	40	78	5.9	7.6
13	3.1	5.1	15.0	13.6	5.8	8.8	76	8.8	12.5	15.2	13.4	7.0
14	1.0	6.0	8.5	113	7.9	63	29	13.0	9.0	10.7	8.8	6.3
15	.8	5.8	4.3	116	6.7	234	20	16.9	1.3	9.4	7.6	5.8
16	.8	6.3	4.3	13.8	7.6	18.6	17.0	158	1.1	26	8.5	6.0
17	.8	6.5	3.2	7.9	9.5	26	15.2	a95	1.0	10.3	92	6.7
18	.8	5.5	3.4	6.0	7.2	22	23	a20	5.7	9.4	14.6	6.3
19	.7	3.9	3.9	5.8	119	31	17.5	a15	34	10.0	50	6.5
20	.7	3.9	33	4.9	69	19.0	135	a14	11.7	9.7	14.0	6.5
21	21	4.9	6.5	3.9	39	17.2	150	a30	9.7	7.0	8.8	6.8
22	12.4	5.1	5.4	4.1	22	140	67	19.1	8.5	7.0	7.9	5.8
23	4.7	4.9	4.1	4.7	14.4	14.9	5.1	85	7.6	8.2	8.5	4.9
24	4.3	5.1	3.1	4.7	11.4	9.8	22	7.3	98	34	6.3	5.8
25	4.3	5.1	2.9	4.7	11.0	9.8	18.4	1.7	14.8	8.5	5.2	209
26	4.5	4.5	3.4	4.5	8.5	8.8	15.6	14.1	134	5.3	74	23
27	17.2	4.3	3.9	4.1	7.9	9.1	13.2	22	9.9	1.7	10.0	12.5
28	26	4.9	3.9	3.2	9.0	11.4	11.4	91	32	.8	125	9.1
29	4.3	4.7	3.9	3.6	10.4	11.8	11.0	21	22	.8	33	7.3
30	40	4.7	4.7	4.3	-	52	11.0	18.0	11.0	6.9	19.7	6.7
31	166	-	3.5	4.3	-	41	-	749	-	7.3	10.7	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for Rahway River at Rahway.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	505.8	184	0.7	16.3	21.0	1.17	1.35
November	299.8	45	3.9	9.99	14.4	.800	.89
December	381.3	58	1.2	12.3	16.6	.922	1.06
Calendar year 1934	7 303.8	388	.3	20.0	24.4	1.36	18.46
January 1935	443.8	107	5.8	14.3	18.2	1.01	1.16
February	606.0	112	6.3	21.6	25.5	1.42	1.48
March	550.7	52	8.9	17.7	21.5	1.19	1.37
April	376.9	60	5.9	12.6	16.3	.906	1.01
May	239.1	45	4.0	7.71	11.7	.650	.75
June	356.4	65	4.2	11.9	16.0	.889	.99
July	538.3	129	4.1	17.4	21.4	1.19	1.37
August	264.5	57	3.4	8.53	12.8	.711	.82
September	483.3	159	.3	16.1	20.3	1.13	1.26
Water year 1934-35	5 045.9	184	.3	13.8	17.9	.994	13.51
October 1935	334.8	125	3.1	10.8	14.0	.778	.90
November	428.5	89	4.2	14.3	17.8	.989	1.10
December	210.5	29	3.7	6.79	9.76	.542	.62
Calendar year 1935	4 832.8	159	.3	13.2	17.0	.944	12.83
January 1936	983.4	291	4.0	31.7	35.2	1.96	2.26
February	371.8	47	5.8	12.8	16.7	.928	1.00
March	1 497.2	210	15.7	48.3	52.1	2.89	3.33
April	848.4	313	3.2	28.3	31.2	1.73	1.93
May	553.4	116	1.6	17.9	21.6	1.20	1.38
June	905.3	225	1.0	30.2	34.7	1.93	2.15
July	297.1	31	1.3	9.58	14.3	.794	.92
August	480.0	134	4.6	15.5	20.2	1.12	1.29
September	372.4	153	4.0	12.4	17.2	.956	1.07
Water year 1935-36	7 282.8	313	1.0	19.9	23.7	1.32	17.95

* Adjusted for diversion from Hammock well field.

Note.- The figures for discharge per square mile and runoff in inches previously published for Jan. 1, 1929 to September 1934 are not correct because of erroneous figure for drainage area.

Elizabeth River at Elizabeth--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	558.7	187	0.9	18.0	22.8	1.27	1.46
November	184.2	23	3.8	6.14	10.8	.600	.67
December	947.8	200	4.0	30.6	34.2	1.90	2.19
Calendar year 1936	7 999.7	313	.9	21.9	26.0	1.44	19.65
January 1937	1 299.7	109	2.4	41.9	45.5	2.53	2.92
February	557.8	139	9.6	19.9	23.4	1.30	1.35
March	586.2	70	8.5	18.9	22.3	1.24	1.43
April	912.4	171	8.5	30.4	33.7	1.87	2.09
May	655.1	163	6.8	21.1	24.6	1.37	1.58
June	535.9	70	.9	17.9	21.5	1.19	1.33
July	410.0	124	5.1	13.2	16.9	.939	1.08
August	761.4	169	5.1	24.6	28.3	1.57	1.81
September	450.8	168	4.6	15.0	18.7	1.04	1.16
Water year 1936-37	7 860.0	200	.9	21.5	25.3	1.41	19.07
October 1937	584.7	209	1.8	18.9	22.2	1.23	1.42
November	751.1	202	6.0	25.0	28.4	1.58	1.76
December	473.8	66	3.8	15.3	19.0	1.06	1.22
Calendar year 1937	7 978.9	209	.9	21.9	25.4	1.41	19.15
January 1938	757.3	171	7.3	24.4	27.7	1.54	1.78
February	528.4	59	10.0	18.9	22.3	1.24	1.29
March	534.0	61	8.7	17.2	20.1	1.12	1.29
April	633.9	105	1.6	21.1	24.1	1.34	1.50
May	476.9	114	1.4	15.4	19.2	1.07	1.23
June	1 008.2	222	1.9	33.6	37.8	2.10	2.34
July	1 993.5	1 000	7.3	64.3	68.4	3.80	4.38
August	529.1	83	6.3	17.1	21.5	1.19	1.37
September	1 552.7	751	5.4	51.8	56.3	3.13	3.49
Water year 1937-38	9 823.6	1 000	1.4	26.9	30.6	1.70	23.07
October 1938	367.4	44	6.5	11.9	16.8	.933	1.08
November	389.0	77	5.8	13.0	17.5	.972	1.08
December	868.8	186	7.9	28.0	32.5	1.81	2.09
Calendar year 1938	9 639.2	1 000	1.4	26.4	30.4	1.69	22.92
January 1939	691.5	197	7.3	22.3	26.7	1.48	1.71
February	1 302.1	301	11.4	46.5	50.8	2.82	2.94
March	1 133.4	106	5.1	36.6	41.0	2.28	2.63
April	1 029.9	162	8.0	34.3	38.6	2.14	2.39
May	394.0	41	7.9	12.7	17.6	.978	1.13
June	718.2	299	1.3	23.9	29.1	1.62	1.81
July	349.2	62	1.4	11.3	16.4	.911	1.05
August	592.3	162	.7	19.1	24.0	1.33	1.53
September	195.7	35	.9	6.52	10.5	.583	.65
Water year 1938-39	8 031.5	301	.7	22.0	26.6	1.48	20.09
October 1939	522.3	166	.7	16.8	21.3	1.18	1.36
November	270.8	111	.9	9.03	13.8	.767	.86
December	206.9	33	2.7	6.67	11.0	.611	.70
Calendar year 1939	7 406.3	301	.7	20.3	24.9	1.38	18.76
January 1940	382.3	116	2.7	12.3	16.8	.933	1.08
February	455.5	119	3.6	15.7	20.1	1.12	1.21
March	1 210.7	234	6.0	39.1	43.5	2.42	2.79
April	1 198.0	155	1.7	39.9	44.6	2.48	2.77
May	1 577.9	749	1.7	50.9	55.4	3.08	3.55
June	754.0	134	1.0	25.1	29.8	1.66	1.85
July	553.6	149	.8	17.9	21.9	1.22	1.41
August	634.4	125	4.7	20.5	24.1	1.34	1.54
September	600.9	209	4.9	20.0	24.2	1.34	1.50
Water year 1939-40	8 367.3	749	.7	22.9	27.2	1.51	20.62

* Adjusted for diversion from Hammock well field.

Erratum in Special Report 5 (page 79).- The corrected mean discharge for January 1934 should be 28.9 second-feet.

Rahway River near Springfield

Location.- Water-stage recorder and concrete control, lat. 40°41'11", long. 74°18'44", 50 feet downstream from bridge on State Highway 29, 100 feet downstream from Pope Brook, and 1½ miles south of Springfield, Union County. Datum of gage is 66.17 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 25.5 square miles.

Records available.- July 1938 to September 1940.

Extremes.- 1938-40: Maximum discharge, 1,940 second-feet July 23, 1938 (gage height, 7.41 feet), by contracted-opening method; minimum, 1.0 second-foot Jan. 25, 1939 (gage height, 1.19 feet).

Peak gage height and discharge during period of this record.-
1938: July 23 (1:15 p.m.) 7.41 ft., 1,940 sec.-ft.; Sept. 21 (7:30 p.m.) 6.70 ft., 1,590 sec.-ft.
1939: Feb. 3 (7 to 8 p.m.) 4.32 ft., 699 sec.-ft.
1940: Mar. 15 (7 a.m.) 4.84 ft., 865 sec.-ft.; May 31 (8 to 9 a.m.) 5.60 ft., 1,140 sec.-ft.

Remarks.- Water for municipal supply diverted from river by Orange waterworks and from wells by Orange and South Orange waterworks, Short Hills Water Co., and Springfield station of Elizabethtown Water Co.

Daily discharge, in second-feet, 1938-40

1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										-	33	18.4
2										-	23	7.3
3										-	19.6	7.3
4										-	17.0	7.3
5										-	15.4	7.3
6										-	96	6.9
7										10.0	102	6.2
8										10.0	42	6.5
9										9.5	93	5.9
10										9.1	29	5.6
11										19.6	66	6.2
12										15.4	27	6.5
13										11.5	18.7	7.8
14										11.8	16.2	6.2
15										27	15.4	6.5
16										12.2	14.0	6.2
17										21	14.0	5.9
18										14.2	15.4	7.8
19										15.1	13.2	82
20										35	11.1	168
21										65	11.8	731
22										98	10.5	530
23										1,160	10.0	68
24										755	10.0	31
25										136	10.0	21
26										63	9.1	17.0
27										53	9.5	a15
28										67	8.6	a20
29										42	8.6	a15
30										37	6.5	a13
31										40	6.5	-

a No gage-height record; discharge computed on basis of records for station at Rahway.

Rahway River near Springfield--Continued

Daily discharge, in second-feet, 1938-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a13	9.3	19.6	17.0	44	185	45	36	10.0	96	4.6	6.0
2	a12	8.4	14.7	17.9	33	68	227	26	8.0	13.2	3.9	4.1
3	a11	9.3	12.7	16.2	332	46	73	23	8.0	9.2	17.8	4.1
4	a10	8.4	150	14.0	263	41	49	21	9.9	8.2	38	4.6
5	a10	8.8	185	13.3	70	68	39	19.6	9.3	7.5	6.4	5.5
6	a38	9.3	a192	154	48	110	134	19.6	7.8	6.8	5.2	3.7
7	a15	9.3	a72	56	52	57	202	18.7	7.0	7.0	4.8	4.4
8	10.5	9.8	44	33	45	39	67	17.9	6.6	6.5	5.2	3.8
9	10.0	16.6	43	26	40	37	54	28	6.6	7.3	4.6	3.7
10	8.6	8.4	51	27	72	33	46	37	9.2	7.1	4.3	5.0
11	8.2	7.6	32	23	157	28	42	18.8	9.8	5.9	3.7	3.4
12	8.6	7.2	30	18.7	67	49	57	16.4	7.9	5.5	3.5	3.2
13	8.6	8.4	24	17.0	46	98	37	18.6	a8	5.3	4.4	3.1
14	8.6	8.0	20	19.6	41	85	31	21	a45	6.5	8.8	3.1
15	8.6	7.2	17.9	17.0	87	85	29	17.9	a11	5.4	4.5	2.7
16	8.2	9.3	15.4	16.2	97	221	27	15.4	a8	4.9	3.4	2.9
17	8.2	16.4	15.4	16.2	41	89	30	15.4	a7	4.9	3.5	3.1
18	7.8	8.8	18.7	15.4	37	55	106	14.7	a7	4.5	3.2	2.5
19	7.8	43	17.9	14.0	33	42	87	14.0	a7	4.0	34	2.1
20	8.6	45	15.4	12.7	32	39	75	12.7	a13	4.0	139	3.3
21	26	14.7	14.7	12.7	29	33	44	14.0	7	4.0	14.5	20
22	9.1	11.7	12.7	16.2	31	31	39	26	a6	4.0	6.6	3.5
23	8.2	13.2	11.7	13.1	23	28	32	14.0	14.2	4.8	5.3	3.3
24	16.4	12.2	12.2	14.0	23	27	29	14.7	8.7	4.6	4.6	3.2
25	11.1	11.9	12.2	12.7	21	26	27	12.2	6.0	3.5	8.1	3.2
26	8.6	12.2	11.7	12.7	130	24	29	11.2	6.4	3.7	5.3	2.4
27	10.4	14.0	143	12.7	109	24	27	10.3	5.9	23	4.6	2.7
28	15.0	13.3	45	12.7	173	83	48	11.2	5.8	14.0	4.8	4.1
29	10.0	14.0	24	13.9	-	40	31	11.2	6.6	8.3	4.3	2.7
30	8.6	15.1	20	168	-	92	32	10.7	123	6.5	12.0	14.4
31	8.2	-	17.9	138	-	77	-	10.3	-	5.4	8.3	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for station at Rahway.

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	25	2.7	a2.5	a2.3	6.8	39	17.9	181	12.2	6.4	112
2	12.0	7.3	6.7	a2.3	a2.8	5.5	22	23	71	10.3	5.8	40
3	26	4.9	6.5	a2.2	a2.6	28	18.5	18.7	44	9.8	5.5	14.0
4	4.8	4.3	3.1	a2.2	a3.0	179	50	28	47	38	5.8	9.3
5	3.5	58	2.4	a2.1	2.4	68	34	17.9	31	14.0	6.4	8.0
6	3.7	39	2.4	a2.3	2.8	51	20	14.7	22	11.2	13.7	8.4
7	3.1	9.8	2.7	a2.5	7.2	32	15.4	13.3	18.7	10.7	18.3	7.2
8	2.5	6.2	2.2	a2.0	3.4	23	139	12.2	16.7	9.8	7.2	6.8
9	2.5	5.0	2.0	h2.0	2.7	25	339	15.4	32	8.8	6.4	19.0
10	2.4	4.6	2.7	a1.9	7.6	22	66	12.2	22	8.4	5.5	7.6
11	2.3	5.2	6.1	a1.8	19.3	14.9	39	11.8	17.9	50	6.4	6.8
12	2.1	5.8	4.3	h2.2	4.9	12.2	104	15.2	17.0	142	5.8	6.4
13	2.1	5.5	3.1	6.0	4.0	11.2	169	11.2	14.7	24	13.5	6.1
14	2.4	4.9	13.9	5.5	3.7	28	71	11.2	12.7	14.0	7.2	6.1
15	2.1	4.9	3.4	254	1.6	526	46	10.7	13.3	12.2	5.2	6.4
16	2.2	4.9	3.7	38	2.8	102	39	72	12.2	33	5.2	6.8
17	2.1	4.6	4.0	9.9	3.7	46	30	202	11.2	11.7	34	5.8
18	2.9	4.9	6.5	a7	4.9	46	35	47	10.7	9.8	14.8	5.5
19	2.1	4.6	3.6	a6	41	67	39	28	24	9.3	27	5.5
20	2.4	9.5	10.3	a5	87	51	191	24	10.7	8.8	15.6	5.5
21	2.7	10.9	6.3	a4.6	43	39	244	31	9.3	9.3	6.8	5.2
22	14.6	3.4	3.1	a4.1	26	42	153	23	8.8	8.4	6.1	6.8
23	3.7	2.7	3.1	a3.6	16.2	28	65	52	9.3	7.2	5.5	5.5
24	3.7	3.1	2.4	a3.8	13.3	17.4	46	28	39	7.6	5.8	5.2
25	3.3	3.1	2.7	a3.1	13.8	14.0	36	29	17.6	7.2	6.1	119
26	3.1	2.7	3.1	a2.7	11.3	11.7	31	33	94	9.1	39	35
27	3.1	2.7	2.2	a2.8	7.2	11.2	27	33	37	10.0	9.3	10.7
28	15.2	3.1	2.0	a2.7	7.2	12.2	23	122	27	8.8	63	8.4
29	4.5	5.6	2.2	a2.5	7.2	13.3	21	46	33	6.8	29	7.2
30	7.2	2.7	2.7	a2.3	-	37	19.6	32	14.0	6.4	12.7	7.2
31	69	-	2.7	h2.2	-	96	-	709	-	8.4	9.8	-

a No gage-height record; discharge computed on basis of records for station at Rahway.
h Computed on basis of staff-gage reading.

Rahway River near Springfield--Continued

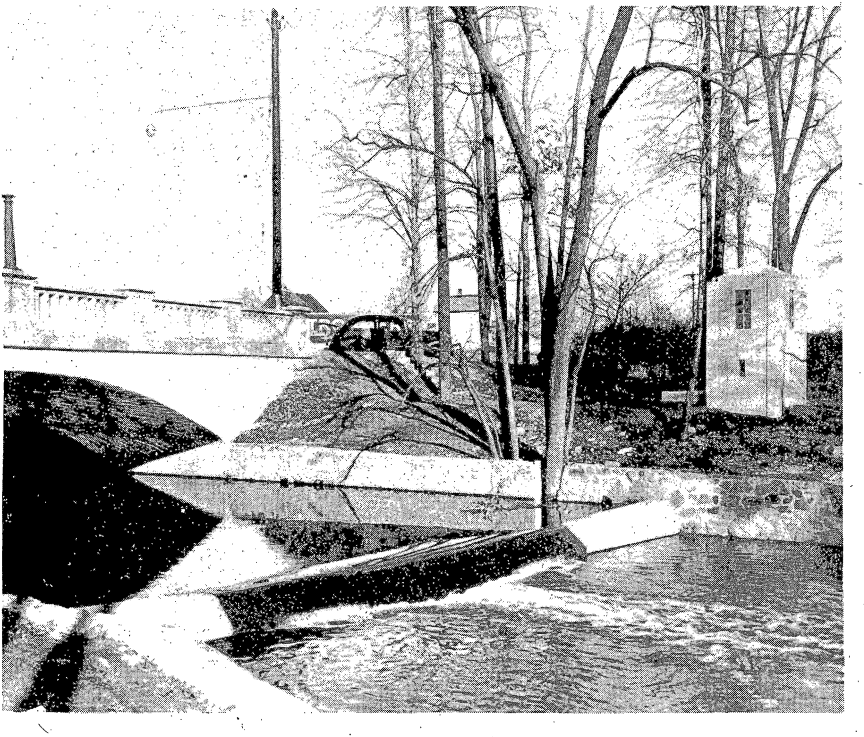
Monthly and annual discharge, in second-feet, 1938-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
July 7-31, 1938	2 737.4	1 160	9.1	109	123	4.82	4.48
August	782.1	102	6.5	25.2	39.8	1.56	1.80
September	1 842.8	731	5.6	61.4	75.3	2.95	3.29
Water year	-	-	-	-	-	-	-
October 1938	352.9	38	7.8	11.4	24.6	.965	1.11
November	390.8	45	7.2	13.0	25.4	.996	1.11
December	1 315.8	192	11.7	42.4	56.1	2.20	2.54
Calendar year	-	-	-	-	-	-	-
January 1939	970.9	168	12.7	31.3	44.4	1.74	2.01
February	2 176	332	21	77.7	91.0	3.57	3.72
March	1 960	221	24	63.2	77.2	3.03	3.49
April	1 795	227	27	59.8	72.0	2.82	3.15
May	557.5	37	10.3	18.0	32.3	1.27	1.46
June	395.7	123	5.8	13.2	29.4	1.15	1.28
July	301.5	96	3.5	9.73	25.4	.996	1.15
August	381.2	139	3.2	12.3	26.8	1.05	1.21
September	133.8	20	2.1	4.46	20.1	.788	.88
Water year	10 731.1	332	2.1	29.4	43.4	1.70	23.11
October 1939	241.3	69	2.1	7.78	22.8	.894	1.03
November	258.9	58	2.7	8.63	22.9	.898	1.00
December	124.8	13.9	2.0	4.03	19.0	.745	.86
Calendar year 1939	9 296.6	332	2.0	25.5	39.9	1.56	21.24
January 1940	391.8	254	1.8	12.6	27.6	1.08	1.24
February	354.9	87	1.6	12.2	27.2	1.07	1.15
March	1 666.4	526	5.5	53.8	67.9	2.66	3.07
April	2 171.5	339	15.4	72.4	87.0	3.41	3.80
May	1 744.4	709	10.7	56.3	70.0	2.75	3.17
June	918.8	181	8.8	30.6	45.6	1.79	2.00
July	537.2	142	6.4	17.3	32.0	1.25	1.44
August	408.8	63	5.2	13.2	27.1	1.06	1.22
September	503.4	119	5.2	16.8	31.2	1.22	1.36
Water year 1939-40	9 322.2	709	1.6	25.5	40.0	1.57	21.34

* Adjusted for diversions by Orange and South Orange waterworks, Short Hills Water Co., and Springfield station of Elizabethtown Water Co.

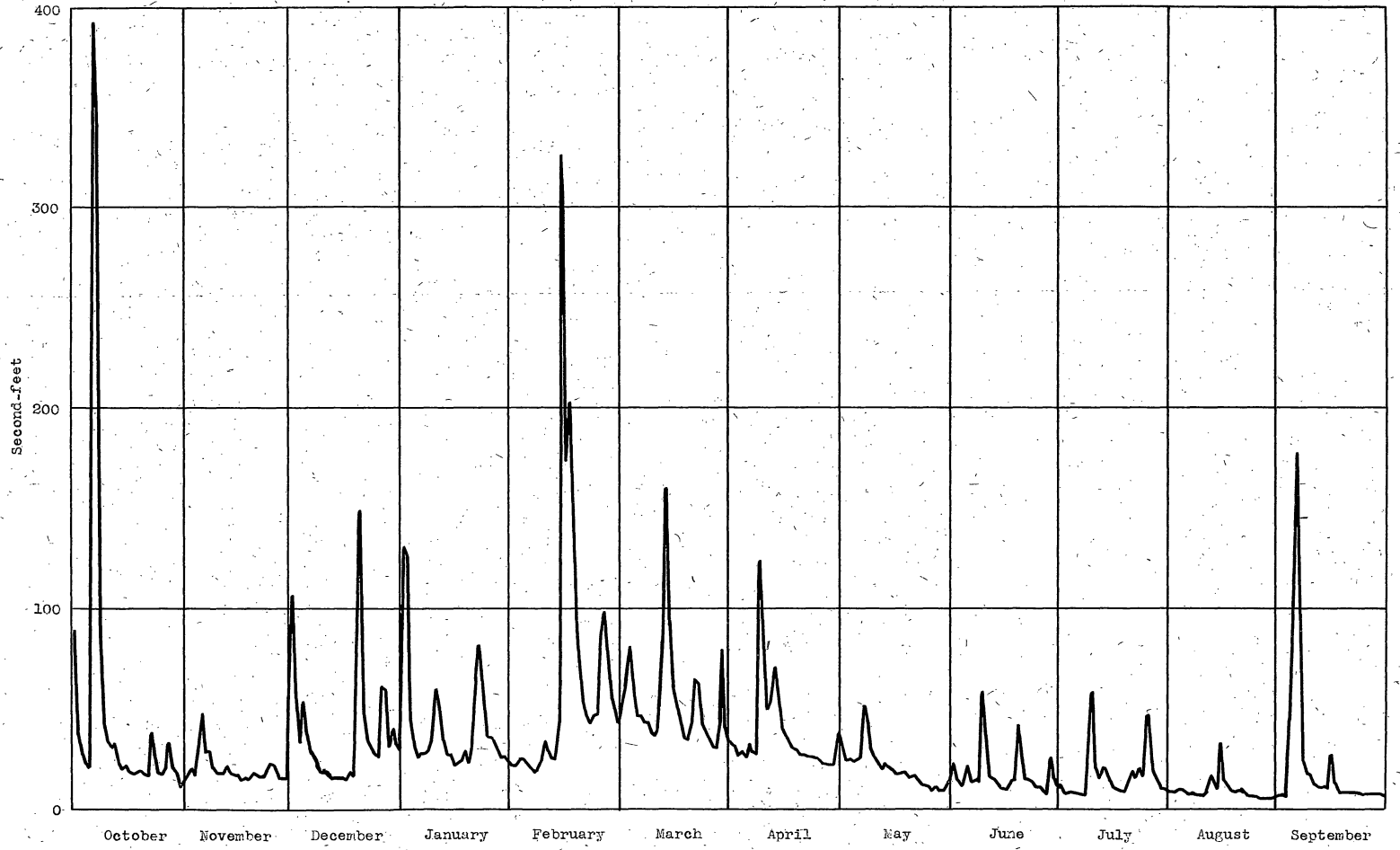


(a) Water-Stage Recorder Shelter



(b) Trenton Type Artificial Control

Gaging Station on Rahway River Near Springfield



Daily Discharge for Rahway River at Rahway, 1934-35.

Rahway River at Rahway

Location.- Water-stage recorder and concrete control, lat. 40°37'05", long. 74°17'00", 100 feet upstream from St. George Avenue Bridge in Rahway, Union County, and 1 mile upstream from Robinsons Branch. Datum of gage is 8.77 feet (revised) above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 40.9 square miles (revised).

Records available.- July 1908 to April 1915 (gage heights only) and October 1921 to September 1940.

Average discharge.- 19 years (1921-40). 64.3 second-feet (adjusted for diversions).

Extremes.- 1908-15, 1921-40: Maximum discharge, 3,140 second-feet July 24, 1938 (gage height, 6.35 feet), from rating curve extended above 600 second-feet by logarithmic plotting; minimum stage, 0.00 foot (at former site and datum) Dec. 1, 1912.

Peak gage height and discharge during period of this report.-
1934: Oct. 6 (9:30 a.m.) 3.37 ft., 660 sec.-ft.
1936: Jan. 3 (8 p.m.) 3.57 ft., 789 sec.-ft.; Mar. 12 (10 a.m.) 4.12 ft., 1,120 sec.-ft.; Apr. 7 (12:30 a.m.) 3.39 ft., 689 sec.-ft.; Dec. 20 (5 to 6 a.m.) 3.31 ft., 640 sec.-ft.
1938: Jan. 25 (9 to 10 p.m.) 3.35 ft., 676 sec.-ft.; July 24 (1:15 a.m.) 6.35 ft., 3,140 sec.-ft.; Sept. 22 (6 to 7 a.m.) 4.94 ft., 1,780 sec.-ft.
1939: Feb. 3 (5:30 p.m.) 3.67 ft., 847 sec.-ft.
1940: Mar. 15 (5 to 7 p.m.) 3.58 ft., 805 sec.-ft.; May 31 (8:30 a.m.) 4.68 ft., 1,560 sec.-ft.

Remarks.- Water for municipal supply diverted from river by Orange and Rahway waterworks and from wells by Orange and South Orange waterworks, Short Hills Water Co., and Springfield station of Elizabethtown Water Co.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	18.4	108	131	22	43	32	32	23	11.6	9.2	7.3
2	38	21	56	126	22	58	32	24	14.7	8.0	9.3	7.5
3	28	16.7	33	46	26	82	27	25	12.5	8.6	10.2	7.4
4	23	32	54	32	26	57	29	24	16.7	8.6	10.5	46
5	21	48	38	25	24	47	26	24	22	7.9	9.2	95
6	391	29	30	28	22	47	33	26	14.2	8.0	8.5	178
7	340	30	27	28	18.9	43	29	52	15.7	7.3	9.3	111
8	88	22	24	30	20	44	28	44	14.0	7.4	8.3	25
9	44	19.0	19.5	35	26	38	124	30	59	26	7.8	18.8
10	34	18.0	19.9	60	35	36	86	26	27	59	7.3	17.9
11	30	19.4	18.3	51	30	42	50	24	16.2	21	9.2	13.0
12	33	22	16.2	35	26	80	53	20	14.8	13.0	18.0	11.7
13	24	19.2	16.8	28	25	160	72	23	12.6	22	13.0	11.4
14	21	18.0	16.7	28	44	93	53	21	11.1	16.2	9.7	11.8
15	23	17.9	16.6	22	326	61	41	19.8	9.8	14.3	33	11.2
16	19.2	16.3	15.8	24	173	52	38	17.7	9.5	11.0	15.4	28
17	18.1	16.7	19.5	25	203	46	34	17.8	14.0	10.5	12.3	13.5
18	19.2	16.0	17.4	30	136	36	31	18.7	14.7	9.2	10.5	9.3
19	20	19.0	65	23	89	35	30	17.1	42	8.6	9.1	9.3
20	18.1	17.6	149	33	72	42	28	16.3	23	13.0	9.5	8.7
21	17.1	16.6	48	65	54	65	28	17.5	14.9	19.1	8.9	9.2
22	39	16.8	35	83	47	63	26	14.7	14.8	15.8	8.0	8.9
23	27	18.5	31	57	43	43	27	13.0	13.7	21	7.1	8.6
24	19.2	24	27	36	47	39	25	12.0	12.4	15.8	7.1	9.4
25	18.1	23	26	36	48	35	26	11.8	12.5	47	6.8	8.1
26	21	20	62	36	88	32	23	10.2	9.8	45	6.2	8.4
27	34	16.4	60	32	99	31	23	11.7	8.0	18.7	5.9	8.5
28	21	16.1	31	26	55	43	22	9.5	26	14.4	6.3	8.5
29	19.2	16.0	42	27	-	80	23	9.6	16.1	11.2	6.1	8.2
30	11.8	57	33	24	-	41	39	12.6	12.5	10.7	6.5	6.7
31	16.1	-	30	24	-	34	-	14.8	-	9.7	7.3	-

Rahway River at Rahway--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.7	72	35	9.3	17.4	121	44	27	17.0	27	9.0	16.6
2	7.1	33	26	10.4	17.2	105	46	26	14.1	21	10.0	11.7
3	8.3	22	19.3	421	17.5	111	66	44	14.2	16.1	9.0	12.2
4	7.9	16.6	16.3	404	18.0	157	53	281	16.8	17.1	10.0	11.0
5	7.8	13.0	13.4	82	19.1	186	43	97	13.8	18.1	10.3	10.4
6	7.9	10.8	12.3	48	17.6	116	395	53	12.9	19.3	57	11.2
7	10.5	11.2	11.4	39	17.3	79	452	41	12.0	16.1	23	10.4
8	11.8	13.5	11.3	45	16.0	62	129	38	14.7	16.3	12.3	9.9
9	9.2	13.5	16.8	177	15.6	61	79	34	13.4	13.8	11.8	10.1
10	8.0	10.0	18.1	445	17.3	116	118	31	12.5	14.0	11.1	9.3
11	8.1	11.4	15.8	131	15.0	400	116	28	34	14.3	10.4	8.8
12	8.3	11.0	13.3	65	14.2	978	103	27	87	55	9.8	8.8
13	9.2	15.3	12.9	55	13.7	412	107	72	153	31	9.2	9.0
14	7.7	23	12.9	58	15.4	129	88	98	197	22	42	8.2
15	8.7	15.8	13.8	64	16.5	90	69	44	227	18.4	17.6	9.0
16	7.1	11.7	42	198	18.7	73	64	30	128	16.0	23	9.9
17	7.0	58	28	79	18.3	66	56	28	52	13.2	21	10.0
18	7.9	121	18.0	60	29	258	48	30	140	12.5	17.1	35
19	7.4	53	14.9	70	31	363	44	30	240	15.2	10.8	148
20	9.0	30	14.7	48	24	182	41	35	73	18.1	9.8	35
21	7.0	22	11.0	48	20	272	38	26	77	20	9.6	20
22	8.8	17.5	3.8	38	19.2	202	35	24	63	9.3	10.0	19.2
23	6.8	14.7	7.1	33	18.1	94	34	21	37	10.7	15.5	15.2
24	6.6	14.8	10.1	26	19.2	77	34	19.2	35	23	192	14.5
25	8.0	16.1	9.4	25	23	68	31	20	35	17.7	81	12.8
26	9.2	15.4	10.8	25	60	56	31	17.0	28	11.3	36	11.7
27	5.9	14.2	14.5	24	98	69	30	24	25	11.6	18.1	10.4
28	6.6	14.7	11.3	23	105	159	28	28	25	11.7	15.2	9.9
29	7.1	162	8.5	20	110	88	28	18.6	30	10.5	14.5	9.7
30	13.9	66	8.4	19.1	-	60	27	17.8	25	10.2	15.0	10.4
31	177	-	10.8	18.8	-	53	-	17.3	-	10.0	18.1	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	171	13.1	10.1	85	246	37	34	55	a22	44	12.4	16.1
2	75	13.1	45	48	93	34	33	48	19.2	28	11.7	14.5
3	26	13.8	143	168	54	34	34	43	24	19.2	11.0	15.2
4	18.8	12.6	45	147	48	31	31	40	36	16.1	11.0	23
5	16.1	10.3	25	62	46	34	31	37	20	18.1	9.9	69
6	14.6	16.1	27	44	43	33	121	40	19.5	17.1	8.8	50
7	a14	13.1	180	112	44	31	87	38	82	14.5	9.9	24
8	a14	14.5	61	164	41	33	46	34	23	14.5	9.3	18.1
9	a15	30	30	81	44	41	53	35	19.2	8.3	12.4	13.8
10	a25	18.1	30	96	50	31	66	35	17.1	7.7	14.5	13.8
11	a23	13.9	62	133	40	28	44	48	34	13.9	92	13.8
12	a17	12.8	148	73	35	27	37	34	25	15.2	198	13.1
13	a15	15.8	60	55	34	27	33	18.4	21	15.2	105	77
14	13.1	13.8	37	46	62	31	33	116	53	14.5	33	145
15	11.0	14.2	28	165	59	42	34	304	36	88	17.1	35
16	11.8	12.5	26	160	43	179	33	114	28	7.4	14.5	24
17	160	12.0	163	90	35	90	28	56	19.2	24	11.7	18.1
18	152	11.8	61	293	34	64	27	43	19.2	17.1	11.7	17.1
19	43	11.5	38	143	33	53	35	37	19.2	16.1	13.1	16.1
20	28	11.2	522	77	33	51	47	35	19.2	13.8	41	16.1
21	22	12.7	297	87	34	178	27	31	22	13.1	15.9	14.5
22	17.1	11.2	84	207	245	96	279	33	152	12.4	82	13.1
23	17.5	14.0	48	262	144	58	152	59	51	12.4	203	13.1
24	21	15.0	38	147	68	48	69	64	27	12.4	116	13.1
25	18.1	18.8	35	212	55	56	50	33	20	11.0	58	12.4
26	16.4	15.3	34	138	48	68	43	28	15.2	11.7	35	13.1
27	14.5	15.1	33	77	44	44	358	28	16.1	16.6	54	12.4
28	15.0	12.4	31	60	38	41	318	20	17.1	15.2	49	12.4
29	13.7	10.1	28	55	-	35	125	24	23	13.8	26	10.9
30	16.8	12.8	25	51	-	34	71	a22	19.2	11.7	21	9.0
31	16.8	-	a87	126	-	50	-	a21	-	11.7	18.1	-

a No gage-height record; discharge computed on basis of records for Elizabeth River at Elizabeth.

Rahway River at Rahway--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.7	17.8	60	32	91	26	34	24	14.6	a30	69	a30
2	11.7	18.8	43	40	45	33	30	22	14.5	27	43	a15
3	11.7	16.6	37	42	45	31	28	21	17.1	23	34	a14
4	11.0	15.5	32	31	75	26	26	20	15.8	19.2	30	a13
5	12.6	16.1	31	27	50	44	24	19.8	16.7	19.0	28	a13
6	37	16.8	67	24	44	56	26	19.8	26	16.1	35	a13
7	14.6	18.5	74	168	76	38	32	18.3	17.8	15.2	158	a12
8	11.0	14.8	40	157	53	33	65	17.5	227	a15	57	a11
9	11.0	14.6	33	60	42	30	245	18.4	83	a15	102	a10
10	11.7	14.8	28	40	46	28	132	25	23	a15	54	a10
11	16.1	15.9	25	34	36	28	58	23	25	a40	79	a11
12	12.4	13.0	24	32	34	31	46	19.8	28	a30	48	a12
13	9.8	173	21	33	45	32	39	18.2	50	a20	32	a13
14	10.6	298	20	31	52	62	36	20	47	19.2	30	a12
15	9.6	99	21	28	38	138	34	157	20	a45	28	a11
16	10.0	47	32	26	29	90	31	60	15.6	a21	27	a10
17	11.0	35	43	27	28	152	30	25	15.6	a32	26	a10
18	11.8	29	110	24	28	89	65	19.5	48	a26	26	a15
19	16.8	25	64	18.5	44	61	217	17.8	27	a24	27	a130
20	171	28	44	21	144	51	81	19.2	18.2	a55	a19	a260
21	a50	30	34	22	73	a40	49	19.2	14.5	100	a19	897
22	a25	24	31	25	45	a35	44	19.5	11.1	168	a18	1 380
23	a50	20	31	27	58	34	38	19.3	14.8	1 140	a17	340
24	a30	20	28	40	87	34	34	21	15.0	2 270	a17	89
25	19.8	19.4	55	521	56	30	31	34	a14	581	a17	60
26	19.0	20	40	397	42	31	30	18.9	a100	140	a16	33
27	17.5	22	32	96	40	33	29	53	a140	80	a16	a26
28	98	206	30	53	36	28	28	28	a340	114	a16	40
29	55	374	32	40	-	27	28	20	a100	91	a15	28
30	28	145	28	37	-	28	27	18.2	a45	66	a14	24
31	21	-	28	82	-	36	-	16.1	-	46	a14	-

a No gage-height record; discharge computed on basis of records for station near Springfield and for Elizabeth River at Elizabeth.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	18.1	35	30	97	398	79	62	15.3	226	8.5	13.6
2	22	18.1	31	30	64	138	290	44	13.1	40	8.4	10.6
3	19.2	18.1	24	29	425	77	183	41	8.8	18.9	16.4	9.5
4	19.2	16.9	188	26	630	66	83	35	14.1	15.8	63	11.1
5	19.2	17.0	265	25	184	99	66	31	14.1	13.9	17.4	8.5
6	21	15.6	408	206	85	162	152	34	12.4	12.9	10.8	8.4
7	50	17.9	175	140	81	106	408	37	11.4	12.3	8.9	7.8
8	27	17.5	77	65	88	64	143	33	10.8	12.3	9.2	7.8
9	21	29	70	46	73	56	90	36	9.9	14.7	9.1	7.9
10	19.2	22	89	44	90	56	75	65	12.6	11.3	8.4	8.5
11	17.1	17.7	61	43	229	48	69	37	24	11.3	8.0	8.1
12	18.1	16.6	49	34	139	65	90	30	12.8	9.9	8.3	6.7
13	19.2	17.7	45	31	77	186	62	30	13.2	10.2	9.1	6.6
14	19.2	14.6	36	33	68	159	53	38	88	9.8	9.2	6.9
15	16.1	11.7	31	30	79	151	50	34	23	11.2	11.3	6.3
16	16.1	12.4	27	29	174	339	44	27	14.7	11.0	8.7	6.7
17	14.5	26	27	27	76	198	46	25	13.7	8.1	7.5	7.2
18	19.2	25	31	28	64	94	148	28	13.4	7.7	7.8	5.6
19	15.2	26	32	27	66	73	121	28	13.3	8.6	25	5.6
20	15.2	107	28	25	71	64	144	26	22	7.8	186	5.6
21	35	37	25	25	71	56	75	27	22	8.2	53	22
22	24	24	24	26	68	51	62	46	10.4	8.8	17.2	8.5
23	18.1	22	21	26	60	46	56	28	10.1	9.4	11.1	7.2
24	18.1	27	21	26	53	44	48	26	18.6	7.3	9.4	6.7
25	30	24	23	25	53	43	44	19.8	11.9	6.3	12.2	6.2
26	20	25	21	19.2	169	41	44	21	8.8	6.1	11.3	7.0
27	19.5	27	208	21	260	40	50	17.1	16.7	12.8	11.7	6.3
28	33	26	114	20	228	122	68	18.5	10.0	38	8.8	5.5
29	26	25	45	22	-	79	55	16.2	10.0	13.9	8.8	5.6
30	19.7	26	35	202	-	127	46	16.9	161	15.5	16.5	23
31	18.1	-	30	327	-	171	-	17.1	-	9.0	18.4	-

Rahway River at Rahway--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	78	5.3	5.1	3.2	15.7	79	30	778	21	8.9	107
2	39	19.4	6.9	3.8	4.6	11.8	44	39	219	18.3	8.4	122
3	37	12.8	15.3	3.5	4.2	48	33	34	85	18.7	8.4	31
4	15.6	8.0	9.0	3.5	4.9	392	80	45	59	62	9.4	17.5
5	7.7	44	6.6	3.3	4.2	200	60	39	62	29	8.7	12.9
6	8.4	115	5.7	3.7	4.6	95	39	27	43	22	9.3	11.5
7	7.0	27	6.1	4.1	10.1	75	30	25	33	20	30	12.6
8	7.2	14.6	6.0	3.0	6.9	46	144	22	30	17.8	13.9	10.6
9	5.0	9.3	5.5	3.1	5.3	41	569	30	32	16.3	9.8	24
10	5.0	7.4	6.8	2.9	9.1	44	204	22	51	15.4	9.0	17.8
11	5.1	8.5	5.3	2.6	33	27	66	22	33	13.9	8.8	11.4
12	4.0	8.2	7.0	3.6	13.8	20	128	30	29	160	8.3	10.5
13	3.9	8.3	8.1	8.0	9.1	19.2	301	21	25	58	12.0	9.5
14	4.2	7.2	16.1	36	9.6	29	148	20	22	27	21	9.7
15	3.6	6.1	8.3	358	7.6	623	79	19.2	23	19.6	8.6	10.2
16	3.1	7.1	7.0	86	6.1	367	58	88	23	33	8.0	8.9
17	3.4	5.9	8.0	18.1	7.7	85	50	367	19.1	26	13.2	9.3
18	4.9	6.9	6.6	13.7	9.8	81	50	109	18.2	17.8	44	7.5
19	4.0	8.7	9.0	10.1	61	88	52	51	19.6	15.7	15.6	6.7
20	3.0	5.7	8.4	8.3	188	85	233	40	33	16.2	41	7.6
21	4.1	13.0	22	7.7	104	63	401	52	15.9	15.7	12.3	8.4
22	23	9.3	9.3	5.9	71	61	310	48	15.8	14.2	10.1	9.3
23	8.0	6.6	6.8	5.3	39	65	118	84	16.0	12.6	9.3	7.2
24	4.3	6.0	6.5	5.9	28	34	73	56	50	10.9	8.4	7.1
25	4.4	6.3	6.2	4.5	28	27	64	51	44	12.3	8.7	144
26	3.6	6.6	5.2	4.1	25	26	52	68	105	12.5	60	104
27	4.3	8.7	6.2	4.6	17.7	24	45	50	99	24	20	25
28	16.0	4.1	4.1	4.0	15.1	20	38	230	44	31	77	17.7
29	15.5	5.3	3.8	3.7	13.9	22	34	130	82	11.8	62	13.3
30	10.2	7.2	5.4	3.3	-	37	31	58	30	10.3	25	10.6
31	84	-	6.3	3.0	-	144	-	979	-	12.5	20	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	1 565.1	391	11.8	50.5	64.9	1.59	1.83
November	660.6	57	16.0	22.0	37.6	.919	1.02
December	1 185.7	149	15.8	38.2	53.5	1.31	1.51
Calendar year 1934	17 025.4	548	6.0	46.6	62.5	1.53	20.72
January 1935	1 286	131	22	41.5	57.1	1.40	1.61
February	1 846.9	326	18.9	66.0	82.5	2.02	2.10
March	1 648	160	31	53.2	69.2	1.70	1.96
April	1 138	124	22	37.9	53.8	1.32	1.47
May	639.8	52	9.5	20.6	38.1	.932	1.07
June	527.2	59	8.0	17.6	35.5	.868	.97
July	519.6	59	7.3	16.8	35.0	.856	.99
August	305.5	33	5.9	9.85	27.6	.675	.78
September	726.3	178	6.7	24.2	40.3	.985	1.10
Water year 1934-35	12 048.7	391	5.9	33.0	49.4	1.21	16.41
October 1935	421.5	177	5.7	13.6	29.9	.731	.84
November	923.2	162	10.0	30.8	46.2	1.13	1.26
December	471.9	42	3.8	15.2	30.5	.746	.86
Calendar year 1935	10 453.9	326	3.8	28.6	45.2	1.11	15.01
January 1936	2 808.6	445	9.3	90.6	108	2.64	3.04
February	841.3	110	13.7	29.0	46.9	1.15	1.24
March	5 263	978	53	170	188	4.60	5.30
April	2 477	452	27	82.6	100	2.44	2.72
May	1 326.9	281	17.3	42.8	61.5	1.50	1.73
June	1 852.4	240	12.0	61.7	81.0	1.98	2.21
July	540.5	55	9.3	17.4	36.2	.885	1.02
August	759.2	192	9.0	24.5	42.0	1.03	1.19
September	528.3	148	8.2	17.6	33.9	.829	.92
Water year 1935-36	18 213.8	978	3.8	49.8	67.1	1.64	22.33

* Adjusted for diversions by Orange, South Orange, and Rahway waterworks, Short Hills Water Co., and Springfield station of Elizabethtown Water Co.

Rahway River at Rahway--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	1 052.3	171	11.0	33.9	49.4	1.21	1.40
November	421.6	30	10.1	14.1	29.7	.726	.81
December	2 481.1	522	10.1	80.0	98.9	2.42	2.79
Calendar year 1936	20 352.2	978	8.2	55.6	73.2	1.79	24.37
January 1937	3 664	293	44	118	134	3.28	3.78
February	1 793	246	33	64.0	80.2	1.96	2.04
March	1 639	179	27	52.9	69.1	1.69	1.95
April	2 379	358	27	79.3	95.5	2.33	2.60
May	1 573.4	304	18.4	50.8	68.2	1.67	1.92
June	918.4	152	15.2	30.6	49.4	1.21	1.35
July	554.7	88	7.4	17.9	36.5	.892	1.03
August	1 326.0	203	8.8	42.8	60.1	1.47	1.70
September	756.8	145	9.0	25.2	43.1	1.05	1.17
Water year 1936-37	18 559.3	522	7.4	50.8	67.9	1.66	22.54
October 1937	836.4	171	9.6	27.0	45.9	1.12	1.29
November	1 807.6	374	13.0	60.3	78.0	1.91	2.13
December	1 218	110	20	39.3	58.6	1.43	1.65
Calendar year 1937	18 466.3	374	7.4	50.6	68.2	1.67	22.61
January 1938	2 235.5	521	18.5	72.1	89.6	2.19	2.52
February	1 482	144	28	52.9	70.7	1.73	1.80
March	1 435	152	26	46.3	66.1	1.62	1.87
April	1 617	245	24	53.9	73.7	1.80	2.01
May	852.5	157	16.1	27.5	47.1	1.15	1.33
June	1 544.3	340	11.1	51.5	71.4	1.75	1.95
July	5 302.7	2 270	15	171	190	4.65	5.36
August	1 131	158	14	36.5	56.5	1.38	1.59
September	3 542	1 380	10	118	137	3.35	3.74
Water year 1937-38	23 004.0	2 270	9.6	63.0	82.1	2.01	27.24
October 1938	672.2	50	14.5	21.7	40.0	.978	1.13
November	727.9	107	11.7	24.3	41.7	1.02	1.14
December	2 296	408	21	74.1	93.3	2.28	2.63
Calendar year 1938	22 838.1	2 270	10	62.6	81.6	2.00	27.07
January 1939	1 687.2	327	19.2	54.4	73.0	1.78	2.05
February	3 822	630	53	136	155	3.79	3.95
March	3 419	398	40	110	130	3.18	3.67
April	2 944	408	44	98.1	115	2.81	3.14
May	974.6	65	16.2	31.4	51.0	1.25	1.44
June	640.1	161	8.8	21.3	43.4	1.06	1.18
July	609.0	226	6.1	19.6	41.2	1.01	1.16
August	619.4	186	7.5	20.0	39.5	.966	1.11
September	257.0	23	5.5	8.57	28.9	.707	.79
Water year 1938-39	18 668.4	630	5.5	51.1	70.4	1.72	23.39
October 1939	377.5	84	3.0	12.2	32.1	.785	.90
November	481.2	115	4.1	16.0	35.1	.858	.96
December	238.8	22	3.8	7.70	27.5	.672	.77
Calendar year 1939	16 069.8	630	3.0	44.0	63.7	1.56	21.12
January 1940	632.4	358	2.6	20.4	41.0	1.00	1.15
February	744.5	188	3.2	25.7	46.0	1.12	1.21
March	2 915.7	623	11.8	94.1	113	2.76	3.18
April	3 613	569	30	120	140	3.42	3.82
May	2 886.2	979	19.2	93.1	112	2.74	3.16
June	2 138.6	778	15.8	71.3	91.4	2.23	2.49
July	795.5	160	10.3	25.7	45.6	1.11	1.28
August	609.1	77	8.0	19.6	38.4	.939	1.08
September	804.8	144	6.7	26.8	46.3	1.13	1.26
Water year 1939-40	16 237.3	979	2.6	44.4	64.1	1.57	21.26

* Adjusted for diversion by Orange, South Orange, and Rahway waterworks, Short Hills Water Co., and Springfield station of Elizabethtown Water Co.

West Branch of Rahway River at Millburn

Location.- Water-stage recorder above dam, lat. 40°43'51", long. 74°18'26", just upstream from Diamond Mill Pond Dam, 1,000 feet upstream from Glen Avenue in Millburn, Essex County, and 1.9 miles upstream from confluence with East Branch. Datum of gage is 173.04 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 7.1 square miles.

Records available.- October 1939 to September 1940.

Extremes.- 1939-40: Maximum discharge, 517 second-feet May 31, 1940 (gage height, 2.46 feet), from rating curve extended above 100 second-feet on basis of laboratory rating; no flow Dec. 8, 22, 1939.

Remarks.- Water for municipal supply diverted from river and from wells by city of Orange.

Daily discharge, in second-feet, 1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a0.4	3.3	0.16	b0.1	0.10	1.32	12.8	5.3	50	1.32	1.32	16.8
2	.43	2.7	.28	.10	.10	.95	6.1	4.6	22	1.75	1.32	5.2
3	.66	2.7	.28	.10	.10	1.32	4.6	4.6	11.7	1.75	1.32	2.2
4	.43	2.7	.16	.10	.10	2.7	13.0	5.3	12.6	4.6	1.32	1.75
5	.43	3.9	.16	.10	.10	3.9	9.5	4.6	11.0	4.6	1.32	1.32
6	.43	2.7	.28	.10	.10	6.1	5.3	3.9	5.3	3.9	1.32	1.32
7	.66	2.7	.28	.10	.10	5.3	4.6	2.7	3.9	3.3	1.75	1.32
8	.66	2.2	.10	.10	.10	3.9	70	2.7	3.3	3.3	1.32	1.32
9	.95	1.00	.10	.10	.10	4.1	108	2.7	3.9	3.3	1.32	1.75
10	.95	.66	.16	.10	.10	4.2	18.0	2.7	3.9	2.2	1.32	1.75
11	.95	.66	.16	.10	.16	2.7	9.5	2.2	3.9	22	1.32	1.75
12	.95	1.32	.10	.10	.10	2.2	34	2.2	3.9	11.9	1.32	1.75
13	1.32	1.02	.10	.16	.10	2.2	54	2.7	3.3	6.1	1.32	1.75
14	.95	.43	.16	1.73	.28	19.9	24	2.7	3.3	3.9	1.32	1.75
15	.66	.66	.16	29	.16	177	14.4	2.2	3.3	3.9	1.32	1.32
16	.88	.66	.16	2.2	.10	28	10.6	37	3.3	6.4	1.32	1.32
17	.28	.43	.16	1.75	.10	11.7	9.5	68	2.7	3.9	2.3	1.32
18	.28	.43	.16	1.32	.10	16.0	9.5	14.4	2.2	3.3	2.2	1.32
19	.43	.66	.16	.95	1.19	38	10.6	7.6	2.2	2.7	2.2	1.32
20	.43	.28	.47	.66	3.3	24	74	6.1	1.32	2.7	1.75	1.32
21	.95	.16	.43	.43	4.6	16.0	99	5.3	.95	2.7	1.32	1.32
22	1.32	.28	.10	.43	2.2	13.0	53	6.1	1.32	2.7	1.32	.95
23	.62	.43	.10	.28	2.2	8.8	20	11.7	1.32	2.7	1.32	.95
24	.28	.43	.10	.16	2.2	4.6	13.0	8.5	2.2	2.7	.95	1.32
25	.43	.28	b.1	.16	1.75	3.3	10.6	6.8	2.2	2.7	.95	2.7
26	.66	.28	b.1	.16	1.75	2.7	9.5	7.6	11.1	2.7	1.75	2.2
27	.95	.19	b.1	.16	1.75	2.7	7.6	8.1	3.9	2.2	1.75	1.75
28	1.05	.16	b.1	.10	1.32	2.7	6.8	29	3.3	2.2	1.75	1.75
29	.28	.16	b.1	.10	1.32	2.7	6.8	14.4	4.0	2.2	3.3	1.32
30	1.21	.16	b.1	.10	-	11.9	6.1	7.6	1.75	1.75	1.75	1.32
31	4.4	-	b.1	.10	-	42	-	237	-	1.32	1.75	-

a No gage-height record; discharge computed on basis of records for Rahway River near Springfield.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1939-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1939	25.28	4.4	0.28	0.815	5.29	0.745	0.86
November	33.64	3.9	.16	1.12	5.49	.773	.86
December	5.18	.47	.1	.167	4.61	.649	.75
Calendar year	-	-	-	-	-	-	-
January 1940	41.15	29	.1	1.33	5.69	.801	.92
February	25.68	4.6	.10	.886	5.42	.763	.82
March	465.89	177	.95	15.0	19.4	2.73	3.15
April	734.4	108	4.6	24.5	28.9	4.07	4.54
May	526.3	237	2.2	17.0	21.3	3.00	3.46
June	189.06	50	.95	6.30	10.9	1.54	1.72
July	122.69	22	1.32	3.96	8.51	1.20	1.38
August	47.91	3.3	.95	1.55	5.95	.838	.97
September	65.23	16.8	.95	2.17	6.61	.931	1.04
Water year 1939-40	2 282.41	237	.1	6.24	10.7	1.51	20.47

* Adjusted for diversions by city of Orange.

Robinsons Branch of Rahway River at Rahway

Location.- Water-stage recorder above Milton Lake Dam, lat. 40°36'20", long. 74°17'57", 2,000 feet upstream from Madison Avenue Bridge in Rahway, Union County, and 1¾ miles upstream from mouth. Datum of gage is 20.00 feet above mean sea level (New Jersey Geological Survey datum).
Drainage area.- 21.6 square miles.
Records available.- September 1939 to September 1940.
Extremes.- 1939-40: Maximum daily discharge, 1,000 second-feet May 31, 1940; minimum, 0.1 second-foot Oct. 28, 29, 1939 (gage height, 3.77 feet).
Peak gage height and discharge during period of this record.-
1940: Mar. 4 (2 to 5 p.m.) 4.70 ft., 526 sec.-ft.; Mar. 15 (6 to 7 a.m.) 4.66 ft., 485 sec.-ft.; Apr. 8-9 (10 p.m. to 2 a.m.) 4.68 ft., 505 sec.-ft.; Apr. 13 (1 to 2 a.m.) 4.40 ft., 242 sec.-ft.; Apr. 21 (5 to 11 a.m.) 4.50 ft., 328 sec.-ft.; May 17 (1 to 4 a.m.) 4.48 ft., 311 sec.-ft.; May 31 missing.
Remarks.- Water diverted for municipal supply from reservoir of Middlesex Water Co., 3,500 feet above station.

Discharge, in second-feet, 1939-40

1939

Day	Sept.	Day	Sept.	Day	Sept.	Day	Sept.	Day	Sept.
11	0.3	15	0.9	19	1.3	23	1.3	27	1.8
12	.4	16	.9	20	.9	24	1.3	28	2.3
13	.4	17	.9	21	1.8	25	1.3	29	2.3
14	.6	18	1.3	22	1.8	26	1.3	30	2.3

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.8	1.8	2.3	1.8	12.5	66	10.8	a150	9.2	1.3	34
2	1.8	1.8	2.3	2.3	1.8	12.5	28	14.4	a80	6.6	1.3	52
3	1.3	1.8	1.3	2.3	1.8	27	18.9	16.5	a45	6.6	1.3	25
4	.9	1.8	.9	2.3	1.8	408	61	22	a35	16.5	1.3	9.2
5	1.3	4.2	1.3	2.9	1.8	248	44	18.9	a25	18.9	1.3	3.7
6	1.8	41	1.8	2.9	1.8	117	18.9	12.5	a20	9.2	1.3	1.8
7	1.8	25	1.8	2.9	1.8	66	14.4	10.8	a15	6.6	1.3	1.8
8	1.8	9.2	.4	2.3	1.8	36	125	7.8	a13	6.6	1.3	1.8
9	1.8	6.6	2.3	1.8	1.8	32	365	10.8	a15	6.6	1.3	1.8
10	2.3	2.9	2.9	1.3	1.8	25	122	10.8	a30	6.6	1.3	1.8
11	1.8	2.3	2.3	1.8	2.3	16.5	36	7.8	25	5.5	1.3	2.3
12	1.8	2.3	1.8	1.8	4.6	14.4	89	10.8	16.5	5.5	1.3	2.9
13	.9	2.9	1.8	1.8	6.6	14.4	203	9.2	12.5	5.5	1.8	2.3
14	1.8	2.3	1.8	4.4	7.8	17.7	102	7.8	9.2	5.5	1.3	2.3
15	1.3	1.8	1.8	134	6.6	364	44	6.6	7.8	5.5	1.3	2.3
16	1.8	1.8	1.8	66	4.6	160	28	62	7.8	5.5	.9	2.3
17	1.8	1.8	1.8	18.9	4.6	48	22	237	7.8	4.6	.9	2.3
18	1.3	1.8	1.8	b10	4.6	56	25	82	7.8	4.6	1.3	2.3
19	1.3	1.8	1.8	b7	14.2	56	25	22	6.6	4.6	1.3	2.9
20	1.3	1.8	1.8	b5	181	40	205	12.5	6.6	3.7	.9	4.6
21	1.8	1.8	4.6	b4	150	28	302	22	6.6	2.9	.9	2.9
22	1.8	1.8	6.6	b3.5	90	28	176	25	5.5	1.8	.9	2.3
23	.6	2.3	2.9	3.7	41	36	65	44	5.5	1.3	.9	1.8
24	.6	2.9	2.9	1.8	25	16.5	32	32	5.5	1.3	.9	1.8
25	.9	2.3	1.8	1.8	22	10.8	28	28	14.4	.9	.9	34
26	1.8	1.8	1.8	1.8	16.5	9.2	22	52	36	1.3	2.3	66
27	1.8	1.8	1.8	1.8	14.4	10.8	16.5	a45	48	1.8	1.3	32
28	1.1	1.8	2.3	1.8	14.4	10.8	14.4	a150	28	2.9	2.9	10.8
29	.1	1.8	2.3	1.8	12.5	10.8	10.8	a50	52	3.7	2.9	5.5
30	1.0	1.8	2.3	1.8	-	15.5	9.2	a30	18.9	2.9	2.9	3.7
31	2.3	-	2.3	1.8	-	76	-	a1 000	-	1.3	2.3	-

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1939	45.5	2.3	0.1	1.47	3.52	0.163	0.19
November	136.8	41	1.8	4.56	6.61	.306	.34
December	66.9	6.6	.4	2.16	4.46	.206	.24
Calendar year 1939	-	-	-	-	-	-	-
January 1940	299.6	134	1.3	9.66	12.3	.569	.66
February	640.7	181	1.8	22.1	24.8	1.15	1.24
March	2 023.4	408	9.2	65.3	67.6	3.13	3.61
April	2 318.1	365	9.2	77.3	79.7	3.69	4.12
May	2 071.0	1 000	6.6	66.8	69.1	3.20	3.69
June	756.0	150	5.5	25.2	27.4	1.27	1.42
July	166.0	18.9	.9	5.35	7.93	.367	.42
August	44.4	2.9	.9	1.43	3.96	.183	.21
September	320.2	66	1.8	10.7	13.2	.611	.68
Water year 1939-40	8 888.6	1 000	.1	24.3	26.7	1.24	16.82

a No gage-height record; discharge computed on basis of records for Elizabeth River at Elizabeth, Rahway River near Springfield, and West Branch of Rahway River at Millburn.
b Stage-discharge relation affected by ice.
* Adjusted for diversion from reservoir of Middlesex Water Co.

South Branch of Raritan River near High Bridge

Location.- Water-stage recorder and concrete control, lat. 40°40'40", long. 74°52'51", 1 mile upstream from High Bridge, Hunterdon County, and 4 miles upstream from Spruce Run. Datum of gage is 282.10 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 65.3 square miles (revised).

Records available.- February 1919 to September 1940.

Average discharge.- 20 years (1920-40), 114 second-feet.

Extremes.- 1919-40: Maximum discharge, 5,160 second-feet Mar. 15, 1940 (gage height, 11.78 feet), from rating curve extended above 1,600 second-feet by logarithmic plotting; minimum, 6.6 second-feet Oct. 11, 1930; minimum daily, 17 second-feet Jan. 8, 1940.

Peak gage height and discharge during period of this report.-
1935: July 9 (6 a.m.) 9.35 ft., 1,580 sec.-ft.; Oct. 31 (3 a.m.) 8.95 ft., 1,380 sec.-ft.
1936: Jan. 3 (2 to 3 p.m.) 10.00 ft. caused by ice jam; Mar. 11 (12 p.m.) 10.51 ft., 3,080 sec.-ft.; Mar. 18 (11 a.m.) 8.91 ft., 1,340 sec.-ft.; Apr. 6 (2 p.m.) 9.55 ft., 1,960 sec.-ft.; Dec. 20 (9 to 11 a.m.) 8.98 ft., 1,450 sec.-ft.
1937: Nov. 13 (10 p.m.) 8.95 ft., 1,380 sec.-ft.
1938: Jan. 25 (11 a.m.) 9.74 ft., 2,180 sec.-ft.; July 24 (1 a.m.) 9.69 ft., 2,120 sec.-ft.; Sept. 21 (11 p.m.) 10.17 ft., 2,650 sec.-ft.; Dec. 6 (7 to 8 a.m.) 8.90 ft., 1,340 sec.-ft.
1940: Mar. 15 (7:30 a.m.) 11.78 ft., 5,160 sec.-ft.; May 21 (3 a.m.) 9.11 ft., 1,530 sec.-ft.; June 2 (1 to 2 a.m.) 9.33 ft., 1,740 sec.-ft.

Remarks.- Slight diurnal fluctuation caused by small power plant above station.

Cooperation.- Water-stage recorder inspected by employee of Taylor-Wharton Iron & Steel Co.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	288	95	475	170	a70	115	a114	84	42	55	72	39
2	190	115	269	158	a70	125	a111	71	40	48	77	36
3	159	86	185	125	a75	173	a107	72	40	42	108	49
4	139	200	207	99	b86	148	a97	71	44	38	79	156
5	129	235	173	88	b78	133	a92	69	48	35	63	214
6	449	137	152	100	b73	168	a110	74	48	36	59	129
7	270	123	143	139	b70	161	a88	93	46	36	58	97
8	171	104	129	161	b75	133	84	89	45	214	58	65
9	150	95	117	154	b80	123	123	74	72	1 190	55	59
10	137	89	b96	372	b84	121	125	68	61	726	51	71
11	133	89	b82	193	b78	157	98	66	48	339	55	58
12	127	87	b76	139	b74	318	104	63	45	188	56	51
13	117	84	b75	117	b80	235	133	62	41	224	52	47
14	113	87	b77	123	123	173	117	62	40	159	52	48
15	110	80	b82	96	512	154	106	60	40	135	47	48
16	106	80	b95	113	332	175	106	55	37	133	45	46
17	102	79	100	108	379	190	100	55	37	117	44	45
18	100	79	95	106	234	148	95	52	61	104	41	44
19	98	77	205	95	161	139	91	50	94	96	40	45
20	95	76	351	106	141	143	86	48	110	96	41	45
21	91	77	148	131	123	207	84	47	63	91	42	44
22	120	82	127	198	117	190	82	46	66	89	42	44
23	106	82	119	139	111	148	80	46	62	100	40	41
24	93	135	111	87	110	148	79	48	52	158	38	39
25	89	100	108	b83	126	135	74	45	48	150	36	40
26	91	84	169	b102	309	127	69	44	44	150	37	39
27	100	80	144	b95	189	119	68	43	39	96	38	37
28	95	87	119	b88	119	128	68	42	109	86	40	38
29	86	106	115	b82	-	188	66	42	65	79	39	40
30	80	360	111	a78	-	131	82	42	68	72	39	42
31	79	-	88	a72	-	119	-	42	-	69	41	-

a No gage-height record; discharge computed on basis of records for station at Stanton.
b Stage-discharge relation affected by ice.

South Branch of Raritan River near High Bridge--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	276	193	b43	b54	161	221	121	60	63	38	33
2	42	161	173	b45	b53	148	229	110	58	54	34	30
3	41	125	154	b1 170	b52	137	253	113	56	50	34	33
4	41	108	b130	354	b58	162	201	247	62	49	34	30
5	39	104	b118	209	b70	256	188	152	59	48	35	32
6	40	100	b108	166	b67	204	1 160	123	53	46	35	29
7	44	91	b105	154	b63	152	517	115	52	44	33	29
8	44	104	b110	b140	b60	143	375	110	53	44	35	30
9	43	93	133	b520	b53	172	317	100	51	43	32	33
10	39	86	131	b420	b48	455	387	95	52	41	33	36
11	38	82	123	b220	b47	1 510	391	93	70	42	34	27
12	39	96	111	b180	b47	1 960	336	89	89	51	33	27
13	37	135	104	185	b48	782	339	98	120	44	34	27
14	38	113	108	198	b60	522	286	123	143	47	36	27
15	37	93	108	220	b90	443	250	98	121	45	34	31
16	36	86	166	437	b85	387	241	87	100	43	37	31
17	36	130	119	193	b85	375	215	82	74	41	34	29
18	37	168	104	173	b95	973	204	79	202	38	32	33
19	37	157	98	152	b80	714	193	82	250	40	29	41
20	36	193	93	b140	b74	532	183	96	125	41	29	37
21	36	201	69	b100	b70	700	173	79	106	44	30	32
22	37	163	b60	b80	b70	517	173	74	87	40	30	34
23	38	154	b52	b70	b70	383	159	71	72	39	30	31
24	41	131	b48	b80	b70	355	152	69	71	40	72	33
25	38	119	b45	b72	b70	321	146	66	69	40	40	30
26	36	117	b43	b66	b100	282	143	63	65	37	36	29
27	35	119	b41	b62	b120	428	137	69	58	35	34	28
28	36	175	b40	b60	b200	468	131	72	58	38	31	29
29	37	576	b40	b58	180	303	129	63	59	37	33	32
30	298	238	b40	b57	-	266	125	63	58	35	36	36
31	931	-	b41	b56	-	238	-	62	-	35	33	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	81	32	28	157	299	121	108	135	71	82	41	53
2	48	31	52	103	183	119	108	129	68	60	38	51
3	38	a33	94	219	137	113	104	121	66	53	37	48
4	35	a39	62	146	135	111	98	117	71	51	36	47
5	32	a54	47	102	141	119	100	113	63	47	34	53
6	32	a52	51	89	137	111	420	115	70	47	34	63
7	33	a40	272	148	133	104	205	119	147	45	35	51
8	33	a37	82	180	127	102	148	108	74	42	34	47
9	31	58	62	139	127	111	168	106	65	40	36	45
10	37	48	56	166	143	96	190	104	62	39	36	44
11	36	40	81	178	115	95	146	95	66	40	40	42
12	33	37	155	129	104	86	133	87	65	44	80	42
13	33	37	86	119	108	93	123	96	59	42	74	45
14	30	35	66	113	129	93	121	354	74	39	46	59
15	31	34	57	250	127	93	137	644	71	93	39	46
16	31	35	55	209	110	93	135	241	59	91	36	42
17	85	35	136	152	96	93	119	193	55	96	36	40
18	81	33	90	336	91	96	113	175	59	58	33	40
19	51	32	67	201	89	102	121	161	58	47	36	40
20	44	33	828	163	87	125	111	150	55	42	121	40
21	40	33	218	171	96	316	130	135	80	41	50	38
22	39	31	136	292	680	274	317	125	220	40	53	37
23	36	32	94	343	226	196	246	117	87	38	359	36
24	35	36	100	233	173	163	163	111	72	38	158	36
25	34	32	95	456	154	185	143	96	65	36	102	35
26	35	35	91	282	143	173	135	89	60	44	80	38
27	34	34	87	215	139	135	248	86	52	82	86	37
28	a33	32	85	188	125	131	235	87	53	46	74	39
29	a39	31	77	185	-	121	180	84	58	39	65	39
30	a36	30	75	173	-	117	148	79	55	38	62	38
31	a33	-	116	234	-	111	-	76	-	42	58	-

a No gage-height record; discharge computed on basis of records for station at Stanton.

South Branch of Raritan River near High Bridge--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	69	119	91	143	a95	150	91	60	121	163	91
2	36	66	110	96	121	a105	a130	86	59	117	178	65
3	33	65	104	100	129	a100	a110	82	62	102	137	a62
4	34	62	100	84	173	a95	100	82	65	93	127	a58
5	36	59	100	82	131	a100	a100	79	62	86	127	a55
6	48	59	135	82	127	a110	a100	77	59	a82	215	51
7	42	58	161	238	260	108	a110	72	56	a80	173	50
8	38	56	102	165	154	104	a140	69	180	a78	150	51
9	35	55	96	102	135	98	a330	72	79	a76	125	48
10	34	53	80	86	152	96	a260	84	58	a76	113	48
11	37	52	b70	86	123	93	157	82	62	a76	152	50
12	37	50	b62	86	115	96	137	74	79	76	115	45
13	35	599	b57	87	137	102	127	68	80	77	98	50
14	35	575	b55	84	157	186	121	69	131	66	91	50
15	38	212	b57	80	127	244	115	248	86	77	87	56
16	34	166	b66	74	104	183	110	136	62	69	84	56
17	32	146	b110	80	100	241	106	89	55	63	97	50
18	33	133	312	72	104	221	134	76	57	63	100	52
19	51	123	168	60	129	166	257	71	72	68	86	80
20	244	125	123	79	232	154	143	74	58	298	76	553
21	124	125	110	77	143	148	139	74	52	443	72	1 130
22	71	111	102	79	127	135	131	71	50	521	69	983
23	363	100	100	76	148	129	125	68	68	714	66	299
24	192	98	96	110	180	125	110	69	72	1 010	63	221
25	108	95	119	1 390	133	117	106	91	60	371	60	178
26	84	95	115	380	a110	119	104	82	91	269	59	154
27	95	96	96	196	a100	123	98	115	399	224	59	146
28	157	227	93	163	a100	110	96	91	534	224	58	139
29	121	258	91	139	-	106	93	71	232	212	56	129
30	87	139	86	141	-	104	91	65	143	253	56	121
31	76	-	87	166	-	123	-	63	-	171	55	-

a No gage-height record; discharge computed on basis of records for station at Stanton.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	115	77	93	108	127	494	196	175	65	60	40	35
2	108	74	87	108	115	272	461	159	63	50	37	33
3	102	72	80	108	447	232	253	150	62	45	34	32
4	100	72	327	102	427	226	212	143	60	42	35	30
5	95	87	455	100	204	289	196	137	60	42	35	32
6	106	93	931	315	180	387	375	133	58	45	35	31
7	150	91	328	180	178	253	506	127	55	47	33	29
8	108	84	247	143	171	204	269	123	55	45	34	30
9	93	91	247	125	171	204	247	125	53	42	34	36
10	91	84	272	127	188	204	226	262	53	40	35	38
11	87	77	212	125	350	175	221	139	59	40	32	28
12	84	74	193	113	218	183	263	123	58	38	32	32
13	82	74	173	106	185	201	207	117	57	38	30	29
14	80	74	157	104	193	201	188	123	127	38	37	29
15	79	68	146	108	344	228	183	115	71	38	36	29
16	77	66	129	104	376	517	173	108	59	38	32	28
17	76	72	133	102	196	332	175	104	55	36	32	28
18	74	79	137	100	212	238	285	102	52	37	33	27
19	72	82	135	96	215	207	447	98	53	36	37	28
20	76	133	125	93	215	201	518	95	60	35	79	27
21	147	89	119	95	198	196	272	96	58	34	50	31
22	96	77	113	96	185	185	247	127	51	35	36	32
23	82	77	100	79	157	178	224	127	50	35	35	28
24	137	93	106	95	152	173	207	108	55	33	32	27
25	174	79	108	87	146	173	193	93	48	35	62	29
26	104	91	100	b60	315	161	190	87	46	33	52	27
27	93	93	364	b70	329	154	198	84	46	41	40	27
28	95	95	157	b70	461	323	292	79	46	54	35	29
29	95	93	123	b70	-	209	209	76	46	51	35	28
30	86	89	113	b200	-	249	183	72	56	53	34	37
31	80	-	106	256	-	260	-	66	-	51	34	-

b Stage-discharge relation affected by ice.

South Branch of Raritan River near High Bridge--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	107	23	b29	b33	45	245	156	506	91	46	593
2	61	54	33	b25	33	43	190	161	988	80	44	222
3	73	44	93	b21	28	67	175	158	392	76	41	127
4	58	40	80	b20	42	335	285	208	285	94	40	98
5	50	73	62	b19	33	214	206	161	236	87	40	85
6	46	235	54	b19	36	165	165	138	203	71	41	76
7	45	87	50	b18	44	143	147	129	178	66	60	70
8	43	65	48	b17	45	121	407	119	163	64	49	66
9	41	54	43	b18	39	121	680	129	186	60	43	94
10	36	50	41	b19	45	123	289	121	250	59	40	82
11	34	46	48	b19	279	92	234	108	168	78	38	73
12	33	45	45	b20	73	74	333	106	152	147	37	65
13	34	44	41	b21	56	76	382	100	138	100	48	62
14	33	40	56	b50	b54	273	279	98	119	73	50	59
15	31	38	50	b230	b54	2 740	245	94	119	64	41	58
16	31	33	48	96	b54	455	231	105	112	59	40	58
17	33	31	49	56	b58	254	200	228	100	58	39	54
18	31	30	52	b50	b72	164	208	134	96	58	41	52
19	31	29	54	b45	91	403	208	110	106	53	39	52
20	32	29	139	b43	140	414	528	218	110	49	53	50
21	32	28	178	b40	106	351	537	760	85	48	41	50
22	31	29	93	b38	80	236	445	273	82	46	36	54
23	32	28	62	b37	66	190	312	236	78	45	34	49
24	32	26	b45	b37	60	147	266	208	122	46	33	46
25	32	26	b39	b37	58	134	239	185	121	46	31	246
26	32	24	b35	b36	54	121	217	188	150	66	61	177
27	32	24	b33	b34	48	123	198	175	143	90	59	85
28	38	25	b32	b34	50	138	182	287	110	139	158	70
29	37	24	b33	b34	48	152	170	217	165	75	126	64
30	34	24	b34	b34	-	204	161	170	102	64	76	60
31	64	-	b33	b34	-	545	-	311	-	53	158	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	4 213	449	79	136	2.08	2.40
November	3 290	360	76	110	1.68	1.87
December	4 543	475	75	147	2.25	2.59
Calendar year 1934	42 140	1 220	31	115	1.76	24.11
January 1935	3 917	372	72	126	1.93	2.22
February	4 079	512	70	146	2.24	2.33
March	4 872	318	115	157	2.40	2.77
April	2 839	125	66	94.6	1.45	1.62
May	1 825	93	42	58.9	.902	1.04
June	1 655	110	37	55.2	.845	.94
July	5 151	1 190	35	166	2.54	2.93
August	1 585	108	36	51.1	.783	.90
September	1 796	214	36	59.9	.917	1.03
Water year 1934-35	39 765	1 190	35	109	1.67	22.64
October 1935	2 345	931	35	75.6	1.16	1.34
November	4 494	576	82	150	2.30	2.57
December	3 008	193	40	97.0	1.49	1.72
Calendar year 1935	37 565	1 190	35	103	1.58	21.41
January 1936	6 080	1 170	43	196	3.00	3.46
February	2 239	200	47	77.2	1.18	1.27
March	14 449	1 960	137	466	7.14	8.23
April	7 954	1 180	125	265	4.06	4.53
May	2 964	247	62	95.6	1.46	1.68
June	2 553	250	51	85.1	1.30	1.45
July	1 334	63	35	43.0	.658	.76
August	1 080	72	29	34.8	.533	.61
September	939	41	27	31.3	.479	.53
Water year 1935-36	49 439	1 960	27	135	2.07	28.15

South Branch of Raritan River near High Bridge--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	1 249	85	30	40.3	0.617	0.71
November	1 101	58	30	36.7	.562	.63
December	3 602	828	28	116	1.78	2.05
Calendar year 1936	45 544	1 960	27	124	1.90	25.91
January 1937	6 071	456	89	196	3.00	3.46
February	4 354	680	87	156	2.39	2.49
March	3 998	316	86	129	1.98	2.28
April	4 853	420	98	162	2.48	2.77
May	4 448	644	76	143	2.19	2.52
June	2 180	220	52	72.7	1.11	1.24
July	1 582	96	36	51.0	.781	.90
August	2 049	359	33	66.1	1.01	1.16
September	1 311	63	35	43.7	.669	.75
Water year 1936-37	36 798	828	28	101	1.55	20.96
October 1937	2 425	363	32	78.2	1.20	1.38
November	4 127	599	50	138	2.11	2.35
December	3 282	312	55	106	1.62	1.87
Calendar year 1937	40 680	680	32	111	1.70	23.17
January 1938	4 831	1 390	60	156	2.39	2.76
February	3 894	260	100	139	2.13	2.22
March	4 036	244	93	130	1.99	2.29
April	4 030	330	91	134	2.05	2.29
May	2 641	248	63	85.2	1.30	1.50
June	3 183	534	50	106	1.62	1.81
July	6 256	1 010	63	202	3.09	3.56
August	3 167	215	55	102	1.56	1.80
September	5 121	1 130	45	171	2.62	2.92
Water year 1937-38	46 993	1 390	32	129	1.98	26.75
October 1938	3 044	174	72	98.2	1.50	1.73
November	2 500	133	66	83.3	1.28	1.43
December	6 116	931	80	197	3.02	3.48
Calendar year 1938	48 819	1 390	45	134	2.05	27.79
January 1939	3 645	315	60	118	1.81	2.09
February	6 655	461	115	238	3.64	3.79
March	7 509	517	154	242	3.71	4.28
April	7 816	518	173	261	4.00	4.46
May	3 673	262	66	118	1.81	2.09
June	1 737	127	46	57.9	.887	.99
July	1 287	60	33	41.5	.636	.73
August	1 177	79	30	38.0	.582	.67
September	906	38	27	30.2	.462	.52
Water year 1938-39	46 065	931	27	126	1.93	26.26
October 1939	1 250	78	31	40.3	.617	.71
November	1 432	235	24	47.7	.730	.81
December	1 726	178	23	55.7	.853	.98
Calendar year 1939	38 813	518	23	106	1.62	22.12
January 1940	1 230	230	17	39.7	.608	.70
February	1 879	279	28	64.8	.992	1.07
March	8 663	2 740	43	279	4.27	4.92
April	8 364	680	147	279	4.27	4.76
May	5 791	760	94	187	2.86	3.30
June	5 765	988	78	192	2.94	3.28
July	2 205	147	45	71.1	1.09	1.26
August	1 683	158	31	54.3	.832	.96
September	2 997	593	46	99.9	1.53	1.71
Water year 1939-40	42 985	2 740	17	117	1.79	24.46

South Branch of Raritan River at Stanton

Location.- Water-stage recorder, lat. 40°34'21", long. 74°52'10", at highway bridge near Stanton railroad station, Reading Township, Hunterdon County, half a mile upstream from Prescott Brook. Datum of gage is 125.01 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 147 square miles.

Records available.- July 1903 to December 1906 and July 1919 to September 1940.

Average discharge.- 20 years (1920-40), 236 second-feet.

Extremes.- 1903-6, 1919-40: Maximum discharge, 10,900 second-feet Mar. 15, 1940 (gage height, 12.19 feet), from rating curve extended above 2,500 second-feet on basis of slope-area determinations and flow over dam at gage heights 9.37 and 10.72 feet; minimum, 9 second-feet (regulated) Nov. 7, 1931; minimum daily, 20 second-feet Sept. 22, 1939.

Peak gage height and discharge during period of this report.-
1935: Feb. 14 (12 p.m.) 7.91 ft., 3,700 sec.-ft.; July 9 (7 p.m.) 10.80 ft., 7,070 sec.-ft.
1936: Jan. 3, missing; Mar. 12 (2 a.m.) 9.37 ft., 5,800 sec.-ft.; Apr. 6 (1 p.m.) 8.38 ft., 4,460 sec.-ft.; Dec. 20 (7 to 8 a.m.) 7.66 ft., 3,610 sec.-ft.
1938: July 23 (10 p.m.) 8.51 ft., 4,600 sec.-ft.; Sept. 21 (7:30 p.m.) 10.72 ft., 8,130 sec.-ft.; Dec. 6 (6:30 a.m.) 8.08 ft., 4,080 sec.-ft.
1940: Mar. 15 (4:30 a.m.) 12.19 ft., 10,900 sec.-ft.; May 21 (12:30 a.m.) 9.35 ft., 5,780 sec.-ft.; June 2 (12:30 a.m.) 8.40 ft., 4,460 sec.-ft.

Remarks.- Slight diurnal fluctuation caused by small power plants above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	668	172	865	297	b160	286	224	153	74	88	168	67
2	423	215	560	387	b160	304	218	136	66	74	191	64
3	355	153	367	286	b170	367	209	138	70	62	298	84
4	304	329	419	215	b200	a310	191	140	74	56	177	463
5	272	463	347	194	b175	a280	182	123	79	61	143	540
6	1 100	250	297	200	b165	a350	221	138	96	52	126	410
7	665	228	275	237	b160	a345	180	172	81	54	126	250
8	405	188	247	297	b170	a290	174	174	71	163	128	158
9	339	172	b220	289	b180	a265	258	131	133	3 050	116	143
10	315	158	b190	770	b190	a260	254	126	119	2 070	111	150
11	278	161	b165	423	b180	a350	206	123	90	695	128	133
12	275	161	b150	297	b170	a695	209	109	75	436	123	98
13	221	150	b140	247	b175	575	275	123	66	463	111	86
14	228	153	b140	258	b270	414	237	105	62	312	105	126
15	224	158	b143	b200	1 580	359	221	114	62	250	101	109
16	200	146	b170	b230	772	372	215	103	59	237	92	83
17	215	138	188	224	1 080	384	209	92	60	212	88	83
18	177	136	180	212	575	312	174	94	81	188	83	81
19	188	133	419	212	414	289	180	84	158	172	83	94
20	174	133	675	228	347	293	172	88	203	194	86	83
21	172	132	289	268	297	399	163	88	110	182	90	77
22	212	143	250	468	275	388	163	84	112	193	84	79
23	209	143	231	308	254	300	158	86	96	177	79	81
24	163	255	212	b240	247	300	153	83	88	367	74	68
25	166	185	206	b190	278	268	148	83	67	276	68	61
26	172	150	337	b220	602	258	143	75	67	327	66	67
27	188	140	b250	b200	432	244	128	77	62	191	67	60
28	182	150	b220	b190	289	250	133	74	130	161	79	47
29	169	188	231	b180	-	339	131	70	96	148	67	66
30	146	649	221	b170	-	254	161	72	90	140	74	68
31	146	-	180	b165	-	228	-	74	-	133	79	-

a No gage-height record; discharge computed on basis of records for station near High Bridge.
b Stage-discharge relation affected by ice.

South Branch of Raritan River at Stanton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	632	420	b105	b127	b470	470	238	110	147	67	52
2	71	336	381	b110	b124	b450	488	222	99	106	55	51
3	66	257	344	b2 600	b120	438	537	237	95	99	49	49
4	64	232	b300	954	b135	589	420	498	106	92	52	51
5	59	207	b270	532	b160	759	385	309	101	88	56	45
6	59	199	b250	402	b150	568	2 580	244	92	86	54	45
7	73	182	b245	356	b145	433	1 210	216	88	84	60	44
8	66	210	247	320	b140	424	820	210	88	78	52	45
9	71	179	294	1 210	b120	488	689	193	88	78	39	46
10	55	165	277	970	b110	994	914	199	86	73	51	51
11	59	171	254	508	b108	3 280	882	160	113	75	73	46
12	62	193	232	424	b107	3 960	759	168	244	101	59	42
13	55	273	219	442	b108	1 660	820	187	506	82	60	46
14	60	219	219	442	b150	1 100	666	254	298	88	210	41
15	60	184	225	484	b220	914	573	187	238	88	90	41
16	57	165	348	939	b200	790	563	165	196	73	194	46
17	54	488	257	429	b200	759	488	152	139	73	88	42
18	55	666	216	394	b240	2 420	451	147	496	67	60	49
19	57	493	213	369	b200	1 690	429	160	593	66	51	84
20	55	512	204	b320	b180	1 210	398	182	260	78	51	62
21	57	470	b160	b260	b165	1 520	373	147	193	78	49	55
22	57	377	b140	b190	b160	1 140	364	132	165	71	54	49
23	64	344	b125	b165	b160	851	328	127	137	64	45	49
24	84	298	b117	b190	b160	790	309	122	139	69	120	49
25	69	277	b108	b175	b160	700	294	122	139	69	88	52
26	60	257	b105	b160	b250	605	280	110	115	64	69	39
27	60	250	b100	b150	b350	970	273	163	115	60	55	45
28	62	324	b98	b140	b600	1 040	257	134	115	64	57	45
29	62	1 370	b98	b135	b500	643	257	115	112	60	60	44
30	815	522	b98	b132	-	579	247	110	112	55	60	60
31	1 630	-	b100	b128	-	527	-	110	-	52	57	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	188	54	b50	324	660	257	217	320	130	204	78	114
2	105	51	b130	211	404	248	211	a300	127	122	65	104
3	68	54	237	511	320	241	202	a280	124	96	62	98
4	48	64	121	356	327	232	191	a260	130	89	61	96
5	54	96	85	270	309	244	194	a240	114	83	59	121
6	52	92	90	161	294	229	723	a250	131	87	59	140
7	51	71	671	348	284	214	393	a250	245	79	61	102
8	55	64	214	414	280	208	277	220	127	75	65	92
9	59	107	110	309	277	223	316	214	114	71	64	85
10	64	84	112	462	312	191	382	208	102	68	64	81
11	67	75	201	485	244	186	270	191	120	67	74	78
12	57	61	346	331	226	172	254	177	114	81	159	76
13	51	64	188	298	223	183	232	180	96	73	183	81
14	51	57	143	274	274	188	235	596	149	65	92	104
15	51	58	122	570	277	194	248	1 260	132	211	70	87
16	51	62	112	478	226	197	254	454	102	368	64	78
17	164	62	347	352	205	191	217	362	92	173	61	75
18	164	58	205	805	194	202	202	327	112	121	59	76
19	92	56	146	466	194	238	226	305	102	92	59	73
20	73	55	2 230	386	186	298	200	288	96	83	164	71
21	67	55	544	412	204	771	226	254	149	76	122	67
22	61	52	274	790	1 660	602	641	229	588	71	290	65
23	61	52	241	876	541	408	491	217	165	70	1 330	64
24	58	57	209	587	404	342	316	211	120	70	515	62
25	55	54	208	1 130	358	370	277	186	107	65	285	61
26	58	58	197	680	316	370	267	175	100	104	205	61
27	58	b54	186	515	309	284	779	166	94	176	243	62
28	55	b52	186	439	264	264	571	169	98	93	186	65
29	64	b50	156	430	-	244	425	158	104	71	148	68
30	58	b50	153	395	-	232	350	148	135	65	137	64
31	54	-	227	581	-	223	-	137	-	97	127	-

a No gage-height record; discharge computed on basis of records for station near High Bridge.
b Stage-discharge relation affected by ice.

South Branch of Raritan River at Stanton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	155	237	204	317	a210	282	160	107	266	387	180
2	60	148	222	216	a240	234	240	152	99	256	387	138
3	59	142	207	219	a250	234	207	160	97	216	313	114
4	62	132	193	185	a330	196	190	140	109	196	279	105
5	64	128	199	177	a250	234	188	142	105	174	262	103
6	94	123	280	171	a250	306	185	142	105	155	501	103
7	82	118	328	444	a500	259	202	130	100	152	423	99
8	70	118	213	349	a320	216	257	123	413	135	306	96
9	64	116	b180	228	a260	204	626	128	177	130	259	94
10	66	112	b160	b180	a300	204	494	158	a120	135	234	92
11	72	109	b140	b180	234	196	324	150	a130	128	324	90
12	72	105	b120	b180	234	204	272	138	148	155	256	96
13	66	1 510	b110	b180	256	213	250	123	185	150	188	101
14	64	1 470	b110	b170	303	388	225	126	275	138	185	99
15	66	506	b120	b160	253	631	222	525	163	155	182	103
16	64	383	b140	b150	204	426	219	268	128	145	168	114
17	59	332	240	b140	202	551	199	150	106	121	218	94
18	62	299	891	b130	210	501	265	132	458	152	243	96
19	87	266	356	b110	253	379	499	130	182	136	174	165
20	468	272	246	b130	558	343	289	135	132	671	152	1 410
21	253	259	225	b130	336	321	266	138	121	939	148	3 410
22	132	231	210	b140	b250	296	231	138	109	1 310	140	2 380
23	854	207	207	171	b290	279	213	123	195	1 830	132	770
24	503	196	193	244	b350	269	202	121	199	2 180	128	535
25	231	190	253	2 750	a300	243	196	163	135	896	114	413
26	185	196	234	847	a270	243	190	148	195	653	121	351
27	168	190	199	458	a240	256	182	234	885	560	130	406
28	397	404	196	404	a230	228	179	182	1 200	726	94	376
29	284	513	193	339	-	219	177	148	526	549	116	292
30	202	286	185	306	-	216	168	107	332	694	107	272
31	171	-	182	347	-	240	-	94	-	426	99	-

a No gage-height record; discharge computed on basis of records for station near High Bridge.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	256	148	b170	a220	444	1 220	422	332	117	81	71	54
2	234	145	b160	a230	317	664	1 060	303	101	79	49	34
3	219	142	b150	a230	1 580	556	571	292	107	72	46	45
4	210	142	796	a220	1 310	525	482	279	105	70	49	43
5	202	163	953	a210	614	663	440	253	107	85	49	79
6	236	174	2 410	a1 000	525	770	1 040	256	101	75	48	33
7	358	168	832	a500	540	546	1 190	240	109	85	46	57
8	234	163	609	a350	486	440	647	234	92	62	94	35
9	204	163	566	a300	449	440	571	246	98	64	59	38
10	193	155	710	a250	530	431	525	400	62	74	49	57
11	182	145	491	a260	929	371	496	253	83	57	45	71
12	168	142	444	a260	566	422	598	237	111	57	43	34
13	160	142	396	a220	482	510	440	222	98	55	41	53
14	168	116	355	a220	467	530	400	210	282	59	62	36
15	158	128	321	a230	858	591	383	213	128	55	57	48
16	150	118	286	a220	875	1 300	359	193	107	54	48	35
17	150	127	272	a210	491	770	371	182	97	54	45	48
18	148	138	289	a200	496	556	653	188	64	54	30	88
19	148	147	282	a200	491	486	1 050	162	111	52	47	42
20	152	259	256	a190	486	458	1 100	155	118	52	138	38
21	306	170	276	a190	435	426	603	199	103	54	126	22
22	190	145	240	a190	413	417	535	287	88	52	67	20
23	160	142	160	a150	343	383	472	228	78	51	34	29
24	314	166	210	a200	332	367	426	204	71	51	35	26
25	372	148	a230	a190	324	359	400	166	77	49	76	53
26	219	b160	a210	a180	716	332	392	160	94	49	79	38
27	193	b180	a1 100	b160	747	324	400	148	72	52	62	39
28	190	b180	a400	b150	1 210	694	530	121	66	64	73	51
29	190	b180	a300	b150	-	434	409	132	82	68	59	56
30	174	b170	a240	b1 100	-	602	355	123	87	88	62	78
31	163	-	a220	985	-	577	-	125	-	119	41	-

a No gage-height record; discharge computed on basis of records for station near High Bridge.
b Stage-discharge relation affected by ice.

South Branch of Raritan River at Stanton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	165	210	37	b39	b47	b86	431	296	1 270	184	79	1 070
2	130	128	75	b35	b51	85	313	296	2 080	146	71	456
3	116	74	103	b32	b51	310	286	296	795	144	68	224
4	100	53	78	b30	b51	1 630	486	359	603	174	66	170
5	62	114	74	b30	b56	598	355	286	506	166	68	163
6	63	447	60	b29	b60	422	282	244	435	139	71	109
7	52	193	53	b28	b73	347	253	229	367	129	105	122
8	41	95	68	b27	b80	317	804	206	332	109	90	94
9	66	69	60	b28	b68	315	1 600	229	426	122	73	194
10	44	77	26	b29	b80	296	614	215	559	91	64	151
11	54	76	70	b30	b450	216	472	201	347	108	61	127
12	42	68	74	b30	b200	168	642	176	324	282	59	104
13	59	95	62	b32	b107	182	858	184	303	184	69	98
14	46	55	74	b150	b90	508	582	174	241	138	113	90
15	50	42	74	b640	b85	5 920	482	156	260	104	73	94
16	27	60	52	b180	b85	928	444	212	241	107	66	116
17	56	62	55	b130	b90	477	392	409	204	104	73	113
18	44	60	78	b100	b100	463	392	232	195	104	82	90
19	51	124	71	b80	b200	a700	409	190	201	99	80	72
20	44	41	147	b64	b600	a740	1 440	676	212	76	103	86
21	36	32	271	b60	b500	a600	1 350	1 940	176	88	84	37
22	75	37	150	b58	b300	a400	1 080	625	153	105	73	81
23	71	51	86	b58	b185	a300	705	491	158	81	69	105
24	26	70	68	b58	b140	a250	582	431	234	88	68	90
25	26	44	b52	b60	b120	a220	510	387	241	89	64	719
26	51	48	b43	b62	b100	a210	454	392	267	103	145	445
27	56	64	b41	b51	b85	a210	404	359	270	160	129	192
28	67	57	b41	b50	b90	212	359	729	269	205	355	139
29	89	41	b43	b52	b88	241	328	472	374	129	258	118
30	35	64	b45	b49	-	256	306	359	206	111	151	144
31	142	-	b43	b49	-	883	-	693	-	96	221	-

a No gage-height record; discharge computed on basis of records for station near High Bridge.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	8 951	1 100	146	289	1.97	2.27
November	5 912	649	132	197	1.34	1.50
December	8 784	865	140	283	1.93	2.23
Calendar year 1934	84 777	3 020	36	232	1.58	21.46
January 1935	8 302	770	165	268	1.82	2.10
February	9 967	1 580	160	356	2.42	2.52
March	10 328	695	228	333	2.27	2.62
April	5 690	275	128	190	1.29	1.44
May	3 332	174	70	107	.728	.84
June	2 697	203	59	89.9	.612	.68
July	11 184	3 050	52	361	2.46	2.84
August	3 411	298	66	110	.748	.86
September	3 979	540	47	133	.905	1.01
Water year 1934-35	82 537	3 050	47	226	1.54	20.91
October 1935	4 242	1 630	54	137	.932	1.07
November	10 452	1 370	165	348	2.37	2.64
December	6 664	420	98	215	1.46	1.68
Calendar year 1935	80 248	3 050	47	220	1.50	20.30
January 1936	14 135	2 600	105	456	3.10	3.57
February	5 549	600	107	191	1.30	1.40
March	32 761	3 960	424	1 057	7.19	8.29
April	17 524	2 580	247	584	3.97	4.43
May	5 720	498	110	185	1.26	1.45
June	5 378	593	86	179	1.22	1.36
July	2 428	147	52	78.3	.533	.61
August	2 185	210	39	70.5	.480	.55
September	1 465	84	39	48.8	.332	.37
Water year 1935-36	108 503	3 960	39	296	2.01	27.42

South Branch of Raritan River at Stanton--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	2 214	188	48	71.4	0.486	0.56
November	1 879	107	50	62.6	.426	.48
December	8 441	2 230	50	272	1.85	2.13
Calendar year 1936	99 679	3 960	39	272	1.85	25.20
January 1937	14 646	1 130	161	472	3.21	3.70
February	9 772	1 660	186	349	2.37	2.47
March	8 446	771	172	272	1.85	2.13
April	9 787	779	191	326	2.22	2.48
May	8 732	1 260	137	282	1.92	2.21
June	4 119	588	92	137	.932	1.04
July	3 266	368	65	105	.714	.82
August	5 211	1 330	59	168	1.14	1.31
September	2 471	140	61	82.4	.561	.63
Water year 1936-37	78 984	2 230	48	216	1.47	19.96
October 1937	5 145	854	59	166	1.13	1.30
November	9 216	1 510	105	307	2.09	2.33
December	6 969	891	110	225	1.53	1.76
Calendar year 1937	87 780	1 660	59	240	1.63	22.18
January 1938	10 039	2 750	110	324	2.20	2.54
February	7 990	558	202	285	1.94	2.02
March	8 939	631	196	288	1.96	2.26
April	7 639	626	168	255	1.73	1.93
May	4 908	525	94	158	1.07	1.23
June	7 236	1 200	97	241	1.64	1.83
July	14 529	2 180	121	469	3.19	3.68
August	6 770	501	94	218	1.48	1.71
September	12 697	3 410	90	423	2.88	3.21
Water year 1937-38	102 077	3 410	59	280	1.90	25.80
October 1938	6 401	372	148	206	1.40	1.61
November	4 666	259	116	156	1.06	1.18
December	14 334	2 410	150	462	3.14	3.62
Calendar year 1938	106 148	3 410	90	291	1.98	26.82
January 1939	9 365	1 100	150	302	2.05	2.36
February	17 456	1 580	317	623	4.24	4.42
March	17 164	1 300	324	554	3.77	4.35
April	17 320	1 190	355	577	3.93	4.38
May	6 743	400	121	218	1.48	1.71
June	3 016	282	62	101	.687	.77
July	1 993	119	49	64.3	.437	.50
August	1 830	138	30	59.0	.401	.46
September	1 380	88	20	46.0	.313	.35
Water year 1938-39	101 668	2 410	20	279	1.90	25.71
October 1939	1 986	165	26	64.1	.436	.50
November	2 651	447	32	88.4	.601	.67
December	2 274	271	41	73.4	.499	.58
Calendar year 1939	83 178	1 580	20	228	1.55	21.05
January 1940	2 350	640	27	75.8	.516	.59
February	4 232	600	47	146	.993	1.07
March	18 490	5 920	85	596	4.05	4.67
April	17 615	1 600	253	587	3.99	4.45
May	12 144	1 940	156	392	2.67	3.08
June	12 249	2 080	153	408	2.78	3.10
July	3 965	282	76	128	.871	1.00
August	3 151	355	59	102	.694	.80
September	5 813	1 070	37	194	1.32	1.47
Water year 1939-40	86 920	5 920	26	237	1.61	21.98

Raritan River at Manville

Location.- Water-stage recorder, lat. 40°33'18", long. 74°35'02", at highway bridge at Manville Somerset County, 1¼ miles upstream from Millstone River. Datum of gage is 20.61 feet (revised) above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 490 square miles.

Records available.- June 1903 to March 1907, August 1908 to April 1915 (gage heights only), and August 1921 to September 1940.

Average discharge.- 19 years (1921-40), 745 second-feet (adjusted for diversion since Oct. 1, 1934).

Extremes.- 1903-7, 1921-40: Maximum discharge, 36,100 second-feet Sept. 22, 1938 (gage height, 20.42 feet, from floodmark in gage house), by slope-area method; minimum, about 15 second-feet Sept. 12, 1932.

Peak gage height and discharge during period of this report.-
1935: Feb. 15 (11 a.m.) 11.60 ft., 10,500 sec.-ft.
1936: Jan. 3 (8:30 p.m.) 16.10 ft., 20,600 sec.-ft.; Jan. 10 (1 a.m.) 13.09 ft., 13,200 sec.-ft.; Mar. 12 (6 a.m.) 14.90 ft., 17,300 sec.-ft.; Apr. 6 (6 p.m.) 12.78 ft., 12,500 sec.-ft.; Dec. 20 (1:20 p.m.) 14.23 ft., 15,800 sec.-ft.
1937: Nov. 14 (6:30 a.m.) 12.77 ft., 12,500 sec.-ft.
1938: Jan. 25 (3:30 p.m.) 13.55 ft., 14,300 sec.-ft.; July 23 (10 p.m.) 17.75 ft., from floodmark, 26,000 sec.-ft.; Sept. 22 (2 a.m.) 20.42 ft. from floodmark, 36,100 sec.-ft.
1939: Feb. 4 (3 a.m.) 14.99 ft., 17,500 sec.-ft.; Apr. 7 (4 a.m.) 12.25 ft., 10,600 sec.-ft.; Apr. 20 (3 a.m.) 12.53 ft., 11,400 sec.-ft.
1940: Mar. 15 (1 p.m.) 18.15 ft. from floodmark, 27,400 sec.-ft.; Apr. 9 (6 a.m.) 14.80 ft., 17,000 sec.-ft.

Remarks.- Water for industrial use diverted to Johns-Manville plant 1,500 feet above station and returned to river 2,400 feet below station; not included in tables of daily discharge. Slight diurnal fluctuation at low stages.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 510	360	3 110	966	b425	828	560	364	162	159	251	144
2	1 460	490	1 950	1 120	b430	1 010	546	313	144	155	486	129
3	1 180	397	1 110	966	b440	1 400	512	313	113	116	786	136
4	977	922	1 230	900	b460	1 030	473	313	116	116	413	338
5	820	1 590	1 100	b520	b430	907	448	298	166	97	318	2 160
6	a4 500	634	900	b520	b410	963	546	298	162	119	247	1 930
7	a2 500	599	790	b620	b400	1 010	506	380	166	107	216	1 350
8	1 520	490	608	b700	b410	992	430	466	166	129	220	581
9	1 190	427	382	800	b440	846	703	338	200	1 440	207	430
10	944	404	397	1 890	b470	752	846	293	265	5 090	191	385
11	860	404	458	1 470	b450	812	640	289	220	2 850	238	328
12	752	382	442	977	b450	1 720	595	265	182	1 130	256	260
13	687	360	556	634	460	2 640	846	247	162	1 050	199	229
14	608	339	b600	b600	506	1 620	786	247	129	863	182	225
15	574	325	b500	b570	6 780	1 230	670	229	129	632	178	229
16	523	318	450	b550	3 410	1 110	632	220	110	525	166	195
17	499	318	523	b540	4 220	1 040	581	211	110	473	144	166
18	482	325	450	b540	2 510	881	270	195	110	413	155	155
19	466	311	752	b580	1 560	778	473	191	208	374	129	148
20	442	299	a1 700	b660	1 260	778	454	178	364	369	126	159
21	435	299	1 080	820	934	1 010	430	203	308	546	129	162
22	482	318	724	1 740	837	1 150	413	191	229	380	133	a160
23	466	325	660	982	760	828	390	174	216	359	140	a150
24	420	382	687	448	711	820	374	162	195	454	129	136
25	374	435	616	b520	844	736	338	155	151	532	107	129
26	389	332	1 410	b600	2 060	678	328	159	123	736	113	129
27	458	318	762	b550	1 630	625	318	144	116	430	110	129
28	442	325	669	b510	899	610	303	140	129	338	123	148
29	389	367	870	b485	-	855	303	136	211	289	113	123
30	360	2 200	466	b460	-	703	328	136	174	260	116	123
31	332	-	458	b430	-	588	-	170	-	238	113	-

a No gage-height record; discharge computed on basis of records for other stations in Raritan River Basin.
b Stage-discharge relation affected by ice.
Note.- Discharge Oct. 1 to Jan. 21 computed on basis of twice-daily readings of staff gage.

Raritan River at Manville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	129	2 890	1 100	b240	b350	b2 300	1 210	530	208	259	97	91
2	151	1 180	961	b240	b330	b2 200	1 210	500	195	236	80	80
3	140	876	836	b9 000	b320	2 170	1 360	530	174	195	91	82
4	144	733	740	8 000	b335	2 560	1 100	2 290	178	191	94	72
5	136	641	604	1 780	b420	3 150	860	1 060	195	191	78	72
6	133	582	b580	1 180	b410	2 360	7 580	722	182	187	91	65
7	151	510	560	988	b395	1 570	4 570	620	170	170	94	70
8	155	553	582	910	b380	1 320	2 580	590	170	153	104	70
9	144	510	656	3 650	b350	1 570	2 000	530	161	131	100	75
10	148	448	679	6 500	b300	2 690	2 580	460	157	134	94	65
11	144	435	604	1 470	b300	8 130	2 520	440	193	134	94	70
12	136	482	567	1 100	b300	14 200	2 060	380	550	204	107	78
13	148	795	524	1 140	b320	5 920	2 260	420	1 180	195	113	72
14	123	1 100	517	1 140	b380	3 290	1 800	671	871	166	161	62
15	119	641	532	1 440	b450	2 380	1 510	530	849	174	166	68
16	129	539	918	3 510	b520	2 000	1 430	420	600	153	259	72
17	113	2 390	717	1 280	b540	1 740	1 230	380	334	120	213	72
18	103	4 450	597	1 100	b620	6 920	1 110	360	1 200	123	131	78
19	110	1 940	560	1 020	b700	5 700	1 020	380	1 680	127	116	182
20	113	1 320	539	827	b560	3 600	959	480	806	134	91	170
21	110	1 180	396	b700	b500	4 120	893	370	530	166	80	113
22	129	979	b355	b600	b480	3 330	839	302	390	138	91	107
23	110	852	b330	b535	b480	2 190	785	278	297	127	94	88
24	126	756	b303	b500	b480	1 930	732	264	278	131	254	78
25	133	694	b286	b470	b500	1 740	671	236	278	146	218	78
26	116	656	b270	b435	b750	1 490	650	222	264	131	222	78
27	100	611	b260	b405	b1 500	2 350	640	254	226	110	161	75
28	100	641	b255	b385	b2 800	3 270	590	274	236	120	104	65
29	94	4 320	b248	b370	b2 600	1 930	580	226	250	110	123	70
30	893	1 520	b245	b355	-	1 550	550	218	222	104	123	85
31	8 560	-	b242	b345	-	1 380	-	218	-	97	104	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	520	97	90	1 370	2 660	671	510	959	300	1 630	236	274
2	390	91	116	860	1 320	630	500	860	281	438	166	242
3	222	116	796	2 700	937	600	470	764	281	294	140	225
4	166	107	380	1 660	904	570	430	691	294	255	126	215
5	116	153	245	1 000	860	580	410	640	274	215	126	287
6	123	191	236	764	796	560	1 970	630	300	204	133	367
7	107	174	2 570	1 510	743	520	1 250	630	614	183	149	294
8	123	149	806	1 860	691	490	817	570	381	153	153	249
9	123	187	430	1 310	702	550	806	560	287	140	236	199
10	208	208	342	2 010	785	450	1 040	540	236	136	188	204
11	182	166	600	2 550	640	410	774	460	255	130	262	188
12	157	142	1 800	1 370	530	370	660	420	294	268	1 460	194
13	131	127	849	1 080	550	400	600	400	249	174	760	220
14	110	113	550	937	753	420	570	980	460	149	388	327
15	100	123	440	2 540	785	460	580	3 820	340	300	255	255
16	100	116	370	1 980	610	806	600	1 370	274	1 170	204	220
17	550	116	2 690	1 270	530	764	540	970	220	424	188	204
18	610	100	1 010	3 510	470	882	480	828	249	340	140	204
19	274	78	620	1 740	450	970	520	722	268	242	133	183
20	213	91	10 500	1 270	440	1 210	460	671	242	194	225	188
21	187	100	2 900	1 330	480	2 940	460	570	255	170	360	144
22	170	107	1 290	3 440	5 660	1 860	2 180	500	1 210	153	855	140
23	142	100	871	3 900	2 160	1 190	1 860	500	482	122	3 540	136
24	142	116	774	2 190	1 350	981	1 080	475	294	136	1 800	140
25	116	100	691	4 130	1 110	992	871	402	242	140	828	133
26	123	123	650	2 540	937	1 100	764	367	215	119	582	140
27	110	113	580	1 670	860	796	3 700	367	194	262	646	144
28	110	94	540	1 330	743	743	2 720	360	204	231	559	144
29	110	110	440	1 230	-	650	1 550	354	242	174	402	144
30	113	90	410	1 110	-	590	1 160	340	242	133	347	153
31	107	-	797	2 000	-	540	-	320	-	204	300	-

Raritan River at Manville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	144	367	981	587	943	b500	557	408	235	908	896	223
2	126	334	814	713	b600	b600	537	368	235	803	860	263
3	133	313	713	769	b600	567	462	360	240	660	681	203
4	130	274	639	587	919	416	416	352	269	527	577	188
5	136	255	607	517	735	517	376	323	269	443	537	179
6	199	249	837	480	660	724	368	329	258	376	1 210	149
7	255	231	1 140	1 650	1 550	618	408	316	229	329	2 390	157
8	162	225	660	1 420	1 070	507	547	282	1 840	309	896	161
9	140	215	577	803	849	443	2 300	289	649	282	692	149
10	133	199	443	577	884	434	1 640	344	352	289	567	142
11	153	194	b390	b480	735	392	919	376	344	276	791	142
12	153	183	b360	b430	639	452	735	329	498	289	724	153
13	144	3 440	b340	b400	681	443	660	309	968	336	471	153
14	133	7 830	b320	b370	803	908	577	296	872	309	384	161
15	133	2 000	b320	b340	671	3 150	557	1 490	607	416	368	153
16	116	1 330	b330	b320	498	1 840	507	931	376	425	344	170
17	130	1 040	b400	b310	462	2 650	471	517	316	309	360	165
18	126	884	2 070	b300	498	2 000	713	336	1 390	712	1 010	149
19	149	735	1 240	b300	628	1 350	1 840	329	660	344	425	688
20	778	724	780	b300	2 860	1 100	884	323	400	2 870	323	6 060
21	736	692	671	b310	1 520	968	724	336	316	3 590	296	12 100
22	367	587	607	b340	1 140	825	660	329	282	7 980	269	h21 600
23	903	498	597	416	1 510	747	628	309	537	14 900	246	a3 760
24	1 440	452	537	692	2 000	692	547	289	803	16 600	235	a2 200
25	567	434	849	10 400	1 170	628	489	368	392	4 660	218	1 380
26	431	425	780	4 580	896	577	462	352	434	2 650	203	1 080
27	367	443	607	1 680	825	607	443	639	3 340	1 700	212	1 080
28	1 070	2 360	587	b1 100	b600	527	434	557	4 840	2 090	212	1 870
29	855	2 820	597	b900	-	480	416	408	2 740	1 260	184	860
30	559	1 340	527	b800	-	462	408	329	1 300	2 240	184	735
31	438	-	517	1 040	-	498	-	269	-	1 070	179	-

a No gage-height record; discharge computed on basis of records for Millstone River at Blackwells Mills.
b Stage-discharge relation affected by ice.
h Recorder chart missing; discharge computed on basis of readings of staff gage at intake to pump house of Johns-Manville Co. each quarter of an hour to noon.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	681	392	681	723	1 880	b5 000	1 490	955	244	210	196	105
2	597	368	692	701	1 320	2 200	4 080	861	232	174	116	92
3	537	352	607	679	b5 000	1 630	2 070	804	216	160	156	102
4	498	336	4 160	623	b8 000	1 470	1 560	746	216	133	266	81
5	462	360	5 210	580	2 960	1 950	1 330	712	222	130	133	90
6	489	416	7 430	2 440	1 880	2 540	2 710	645	205	133	100	85
7	968	416	2 990	1 520	1 950	1 760	b6 000	634	192	141	79	81
8	660	392	1 920	1 120	1 880	1 330	2 400	612	205	149	111	68
9	537	392	1 710	943	1 690	1 280	1 820	601	174	141	160	102
10	489	384	2 140	943	2 020	1 220	1 570	850	192	a130	102	111
11	452	352	1 580	966	3 710	1 060	1 480	701	196	a110	83	87
12	434	344	1 310	692	2 220	1 110	1 760	537	196	94	79	97
13	400	344	1 190	701	1 570	1 820	1 330	548	205	94	72	100
14	400	336	981	b600	1 430	2 070	1 170	537	692	116	54	79
15	400	269	884	b580	2 180	2 070	1 120	516	435	97	97	76
16	376	276	735	b560	3 510	4 740	1 040	465	238	119	90	61
17	352	276	713	b540	1 500	2 600	1 050	435	232	87	79	74
18	329	316	747	b530	1 450	1 760	2 020	405	196	111	74	54
19	329	336	735	b520	1 420	1 470	3 730	425	187	94	100	100
20	336	735	649	b500	1 340	1 360	b5 500	333	254	92	558	76
21	607	547	607	b500	1 200	1 260	2 070	389	249	94	349	61
22	517	392	618	b500	1 140	1 170	1 690	815	192	94	200	68
23	384	384	392	b490	966	1 090	1 440	580	182	102	130	72
24	416	443	507	b470	885	1 040	1 270	548	160	97	90	67
25	1 060	376	537	b450	861	990	1 150	435	160	97	92	40
26	597	b350	462	b420	2 140	955	1 070	357	160	90	130	48
27	498	b400	3 310	b400	2 800	885	1 110	349	156	85	130	68
28	471	b450	1 470	b370	3 970	1 780	1 470	318	145	266	111	76
29	537	b500	1 020	b350	-	1 390	1 220	306	137	273	116	81
30	489	b600	885	2 450	-	2 060	1 010	280	196	187	149	130
31	434	-	758	b5 000	-	2 410	-	260	-	238	152	-

a No gage-height records; discharge interpolated.
b Stage-discharge relation affected by backwater from ice or unknown origin; discharge computed on basis of four discharge measurements, recorder charts, weather records, and records for other stations in Raritan River Basin.

Raritan River at Manville--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	238	850	108	b100	b120	b400	1 760	734	2 640	373	210	2 470
2	357	389	130	b90	b130	405	1 110	746	5 670	318	178	1 760
3	266	266	227	b84	b130	810	943	780	2 390	280	160	712
4	210	210	200	b78	b130	6 790	1 700	1 140	1 730	357	149	485
5	164	606	160	b78	b140	3 550	1 290	850	1 420	357	141	373
6	116	2 300	149	b74	b150	1 810	943	656	1 200	292	130	312
7	111	780	130	b70	b170	1 380	804	591	990	254	182	260
8	100	455	130	b66	b200	1 190	1 920	505	885	232	192	249
9	81	306	119	b68	b190	1 090	10 100	526	850	192	164	333
10	92	238	119	b70	238	1 120	2 600	516	1 380	200	152	333
11	92	227	102	b74	1 160	758	1 580	435	920	205	141	266
12	65	196	119	b78	1 340	573	2 080	415	780	1 260	141	216
13	85	174	137	b90	746	591	3 540	373	734	591	145	200
14	74	174	156	318	b300	728	2 270	365	591	381	210	187
15	83	137	152	3 990	b200	18 200	1 640	325	526	286	182	182
16	83	114	160	1 270	b300	4 580	1 420	496	623	273	152	178
17	70	133	141	b350	b350	1 780	1 190	1 950	455	260	156	a175
18	65	149	137	b250	435	1 740	1 120	804	415	260	164	a180
19	85	141	160	b200	565	1 870	1 190	558	425	232	174	a165
20	72	169	204	b170	2 870	1 820	4 510	475	475	227	210	a160
21	97	116	780	b160	2 510	1 700	5 130	2 950	373	196	164	a160
22	100	97	445	b150	1 790	1 370	4 000	1 730	333	192	145	a170
23	126	105	286	b150	1 220	1 170	2 350	1 310	318	192	122	a160
24	116	111	b200	b150	b900	850	1 760	1 180	425	182	126	a150
25	83	119	b140	b150	b700	734	1 470	1 050	656	182	111	a2 500
26	72	126	b120	b150	b560	638	1 260	1 080	516	200	230	a1 500
27	72	122	b100	b140	b400	601	1 090	1 020	746	318	286	a600
28	149	108	b100	b130	b400	580	966	2 340	445	425	753	a430
29	137	105	b110	b120	b400	634	873	1 620	1 080	333	804	a400
30	156	102	b120	b120	-	712	780	1 120	526	249	397	a370
31	295	-	b110	b120	-	2 490	-	3 240	-	249	299	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for other stations in the basin especially those for Millstone River at Blackwells Mills.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	28 041	4 500	332	905	923	1.88	2.17
November	14 995	2 200	299	500	518	1.06	1.18
December	26 410	3 110	382	852	870	1.78	2.05
Calendar year 1934	276 476	14 000	78	757	775	1.58	21.45
January 1935	23 668	1 890	430	763	781	1.59	1.83
February	34 596	6 780	400	1 236	1 254	2.56	2.67
March	30 950	2 640	588	998	1 016	2.07	2.39
April	15 042	846	270	501	519	1.06	1.18
May	7 418	466	136	239	257	.524	.60
June	5 236	364	110	175	193	.394	.44
July	20 769	5 090	97	670	688	1.40	1.61
August	6 434	786	107	208	226	.461	.53
September	11 066	2 160	123	369	387	.790	.88
Water year 1934-35	224 625	6 780	97	615	633	1.29	17.53
October 1935	13 140	8 560	94	424	442	.902	1.04
November	35 224	4 450	435	1 174	1 192	2.43	2.71
December	16 563	1 100	242	534	552	1.13	1.30
Calendar year 1935	220 106	8 560	94	603	621	1.27	17.18
January 1936	51 615	9 000	240	1 665	1 683	3.43	3.95
February	18 370	2 800	300	633	651	1.33	1.43
March	101 050	14 200	1 320	3 260	3 278	6.69	7.71
April	47 879	7 580	550	1 596	1 614	3.29	3.67
May	15 155	2 290	218	489	507	1.03	1.19
June	13 024	1 680	157	434	452	.922	1.03
July	4 757	259	97	153	171	.349	.40
August	3 948	259	78	127	145	.296	.34
September	2 503	182	62	83.4	101	.206	.23
Water year 1935-36	323 228	14 200	62	883	901	1.84	25.00

* Adjusted for diversion by Johns-Manville Co. on basis of measurements made in 1940-41.
Note.- Figures of discharge per square mile and runoff in inches previously published did not represent the natural flow because of the diversion.

Raritan River at Manville--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	5 955	610	100	192	210	0.429	0.49
November	3 698	208	78	123	141	.288	.32
December	35 383	10 500	90	1 141	1 159	2.37	2.73
Calendar year 1936	303 337	14 200	62	829	847	1.73	23.49
January 1937	58 161	4 130	764	1 876	1 894	3.87	4.46
February	29 456	5 660	440	1 052	1 070	2.18	2.27
March	24 695	2 940	370	797	815	1.66	1.91
April	30 332	3 700	410	1 011	1 029	2.10	2.34
May	22 040	3 820	320	711	729	1.49	1.72
June	9 679	1 210	194	323	341	.696	.78
July	8 883	1 630	119	287	305	.622	.72
August	15 887	3 540	126	512	530	1.08	1.24
September	6 157	367	133	205	223	.455	.51
Water year 1936-37	250 326	10 500	78	686	704	1.44	19.49
October 1937	11 306	1 440	116	365	383	.782	.90
November	31 073	7 830	183	1 036	1 054	2.15	2.40
December	20 837	2 070	320	672	690	1.41	1.63
Calendar year 1937	268 506	7 830	116	736	754	1.54	20.88
January 1938	33 911	10 400	300	1 094	1 112	2.27	2.62
February	26 946	2 860	462	962	980	2.00	2.08
March	26 622	3 150	392	859	877	1.79	2.06
April	20 685	2 300	368	690	708	1.44	1.61
May	12 792	1 490	269	413	431	.880	1.01
June	25 991	4 840	229	866	884	1.80	2.01
July	69 952	16 600	276	2 257	2 275	4.64	5.35
August	16 944	2 390	179	547	565	1.15	1.33
September	56 473	21 600	142	1 882	1 900	3.88	4.33
Water year 1937-38	353 532	21 600	116	969	987	2.01	27.33
October 1938	15 736	1 060	329	508	526	1.07	1.23
November	11 834	735	269	394	412	.841	.94
December	47 630	7 430	392	1 536	1 554	3.17	3.66
Calendar year 1938	365 516	21 600	142	1 001	1 019	2.08	28.23
January 1939	27 861	5 000	350	899	917	1.87	2.16
February	62 872	8 000	861	2 245	2 263	4.62	4.81
March	55 470	5 000	885	1 789	1 807	3.69	4.25
April	58 730	6 000	1 010	1 958	1 976	4.03	4.50
May	16 959	955	260	547	565	1.15	1.33
June	6 666	692	137	222	240	.490	.55
July	4 138	273	85	133	151	.308	.36
August	4 354	558	54	140	158	.322	.37
September	2 432	130	40	81.1	99.1	.202	.23
Water year 1938-39	314 682	8 000	40	862	880	1.80	24.39
October 1939	3 912	357	65	126	144	.294	.34
November	9 125	2 300	97	304	322	.657	.73
December	5 451	780	100	176	194	.396	.46
Calendar year 1939	257 970	8 000	40	707	725	1.48	20.09
January 1940	9 108	3 990	66	294	312	.637	.73
February	18 744	2 870	120	646	664	1.36	1.47
March	62 664	18 200	400	2 021	2 039	4.16	4.80
April	63 389	10 100	780	2 113	2 131	4.35	4.85
May	31 880	3 240	325	1 028	1 046	2.13	2.46
June	30 517	5 670	318	1 017	1 035	2.11	2.35
July	9 548	1 260	182	308	326	.665	.77
August	6 770	753	111	218	236	.482	.56
September	15 636	2 500	150	521	539	1.10	1.23
Water year 1939-40	266 744	18 200	65	729	747	1.52	20.75

* Adjusted for diversion by Johns-Manville Co. on basis of measurements made in 1940-41.

Neshanic River at Reaville

Location.- Water-stage recorder and, since Sept. 26, 1935, concrete control, lat. 40°28'18", long. 74°49'42", at highway bridge half a mile southwest of Reaville, Hunterdon County. Datum of gage is 109.46 feet above mean sea level (unadjusted, United States Coast and Geodetic Survey datum).

Drainage area.- 25.7 square miles.

Records available.- June 1930 to September 1940.

Average discharge.- 10 years, 34.2 second-feet.

Extremes.- 1930-40: Maximum discharge, 4,370 second-feet Aug. 23, 1933 (gage height, 10.80 feet), from rating curve extended above 1,700 second-feet; minimum, 0.2 second-foot Feb. 2, 1931, Aug. 27-30, 1934, June 26, 1935, and Feb. 15, 1940.

Peak gage height and discharge during period of this report.-
1935: July 9 (10:15 p.m.) 8.67 ft., 2,660 sec.-ft.
1936: Jan. 3 (9 a.m.) 9.12 ft., 2,940 sec.-ft.; Jan. 9 (4 p.m.) 8.79 ft., 2,720 sec.-ft.; Dec. 20 (2:45 a.m.) 8.50 ft., 2,510 sec.-ft.
1937: Nov. 13 (9 p.m.) 8.60 ft., 2,580 sec.-ft.
1938: July 20 (9 a.m.) 9.00 ft., 2,870 sec.-ft.; July 23 (10:30 a.m.) 9.12 ft., 2,960 sec.-ft.; Sept. 21 (4:30 p.m.) 10.74 ft., 4,300 sec.-ft.
1939: Feb. 3 (5:45 p.m.) 8.62 ft., 2,580 sec.-ft.
1940: Mar. 15 (2:30 a.m.) 9.04 ft., 2,900 sec.-ft.; Apr. 8 (10 p.m.) 8.76 ft., 2,690 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	6.1	145	191	b13.0	b38	16.4	10.0	2.4	1.7	6.7	1.3
2	31	6.8	73	43	b15.0	80	15.0	9.6	2.1	1.6	10.3	1.1
3	25	5.4	48	b25	b19.0	62	13.5	9.2	2.1	1.1	11.4	2.4
4	20	29	85	b15.0	b25	44	12.5	8.1	3.7	1.0	7.5	c90
5	16.4	22	46	b10.0	b20	46	12.5	7.7	3.7	1.0	11.1	c100
6	369	25	36	15.0	b16.0	49	22	8.8	3.9	1.0	4.4	c200
7	92	19.6	31	16.4	b15.0	50	14.5	14.6	a3.7	.9	3.9	c50
8	52	15.4	24	19.6	b15.5	51	13.0	11.1	a3.5	7.1	3.9	c15.0
9	38	12.5	b19.0	26	b17.0	36	38	8.1	a5.5	517	3.2	c9.5
10	30	11.3	b14.7	51	b22	34	28	7.1	a3.7	286	2.7	c7.5
11	27	11.7	b12.0	42	b20	41	23	6.8	2.9	65	11.1	c6.0
12	20	10.9	b10.0	27	b19.5	132	32	5.4	2.4	30	4.7	c5.2
13	16.4	10.0	b9.2	b17.0	56	164	50	5.1	2.5	59	3.7	c4.7
14	14.5	10.9	b9.2	b12.0	217	78	33	5.4	2.4	22	2.9	c4.4
15	13.0	8.1	b9.4	b12.0	549	58	30	4.9	2.1	15.4	2.7	c4.0
16	11.7	7.4	9.6	b12.0	261	49	30	4.4	1.9	12.5	2.4	c3.9
17	10.4	7.4	10.4	b13.0	274	39	25	4.4	2.1	10.0	2.4	c3.7
18	10.0	7.1	b10.0	17.4	102	31	21	3.9	3.0	22	1.9	c3.6
19	8.8	6.8	b107	b15.0	91	30	18.5	3.7	4.5	8.1	1.9	c3.5
20	8.4	6.4	51	b20	59	28	16.4	3.7	7.6	61	1.8	c3.5
21	8.1	6.1	27	42	42	56	15.4	3.4	2.5	21	2.2	c3.4
22	10.8	7.1	24	95	36	34	14.5	3.4	2.5	11.3	7.5	c3.2
23	8.1	7.1	21	33	33	30	13.0	3.2	2.2	9.6	5.6	c3.0
24	7.1	9.6	18.5	b24	32	29	12.1	3.2	1.9	8.4	2.1	2.9
25	6.8	7.4	17.4	b22	83	25	10.9	2.9	1.3	8.4	1.6	2.9
26	7.1	6.4	86	b28	175	22	9.2	2.7	1.1	10.1	1.4	2.9
27	7.7	6.4	b20	b23	b50	19.1	8.8	2.5	1.3	6.4	1.3	2.7
28	7.7	6.8	b12.0	b19.5	b40	23	8.4	2.4	1.3	5.1	1.4	2.9
29	6.1	9.2	b12.0	b16.5	-	26	8.4	2.5	1.7	4.6	1.1	3.2
30	5.8	166	b10.0	b14.5	-	18.5	12.5	2.9	2.8	3.9	1.3	2.7
31	5.4	-	b10.0	b13.5	-	16.4	-	2.7	-	3.4	1.7	-

a No gage-height record; discharge computed on basis of records for stations on South Branch of Raritan River.
b Stage-discharge relation affected by ice.
c Backwater caused by coffer dam used for erection of concrete control; discharge computed on basis of records for South Branch of Raritan River at Stanton.

Neshanic River at Reaville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	68	58	b7.0	b11.0	b130	37	9.7	3.4	3.0	0.8	0.8
2	3.0	43	46	b8.0	10.9	b102	42	8.9	3.0	2.4	.7	.8
3	2.6	31	35	b1 100	10.9	b95	40	66	2.6	2.1	.7	.9
4	2.4	24	25	109	11.8	b250	28	76	2.4	2.1	.7	.8
5	2.3	21	27	84	13.9	199	26	26	2.4	2.1	.7	.8
6	2.3	17.3	19.2	52	10.9	116	623	17.9	2.3	1.8	1.0	.7
7	3.0	16.1	15.5	47	9.7	80	145	15.0	2.1	1.5	1.0	.7
8	2.6	21	18.5	42	10.1	104	87	12.8	2.1	1.4	1.8	.7
9	2.4	15.5	33	637	9.7	131	75	10.9	2.1	1.3	.9	.7
10	2.3	13.3	27	134	10.9	264	110	10.1	2.0	1.2	.7	.6
11	2.3	12.8	27	67	10.9	1 130	132	9.3	2.2	1.3	1.7	.6
12	2.4	16.7	22	58	10.5	518	82	8.9	4.3	6.0	1.2	.5
13	2.4	17.3	19.8	67	10.1	163	102	10.1	14.5	1.8	.7	.9
14	2.3	14.4	22	47	12.8	99	66	15.0	5.7	1.6	.6	1.2
15	2.0	12.3	32	214	14.4	77	55	8.2	6.7	1.9	.6	.7
16	1.8	11.4	62	129	16.7	66	46	7.2	4.5	1.3	2.0	.7
17	1.7	276	37	63	16.1	68	37	6.6	3.0	1.3	2.4	.7
18	1.8	342	31	55	53	593	33	6.6	30	1.2	1.2	1.7
19	2.1	116	29	38	b26	232	28	11.5	17.8	1.0	.8	9.1
20	2.0	84	24	52	b20	127	25	10.3	7.1	1.2	.7	1.6
21	2.0	60	16.5	43	b18.5	203	22	6.0	5.1	1.4	.6	1.3
22	2.3	48	13.9	35	b18.0	108	19.2	5.2	3.6	1.3	.8	1.2
23	2.1	39	b11.4	b20	b18.0	70	16.7	4.9	3.2	1.1	.7	1.2
24	2.1	33	b9.5	b21	b18.0	61	15.0	4.6	3.4	1.3	.9	1.0
25	2.1	31	b8.5	b24	b22	52	13.9	4.1	3.4	1.5	1.3	.9
26	2.0	28	b7.5	b18.5	b60	43	13.3	3.8	3.0	1.4	5.0	.8
27	2.0	24	b6.8	b15.0	b150	138	12.3	4.4	2.6	1.2	1.6	.8
28	2.0	60	b6.5	b12.8	b200	153	11.4	4.4	3.0	1.2	1.0	.8
29	2.1	261	b6.4	b12.0	b160	71	11.4	3.8	3.1	1.1	1.6	.8
30	158	77	b6.5	b11.5	-	56	10.5	3.6	2.6	1.0	1.8	.9
31	117	-	b6.6	b11.2	-	46	-	3.4	-	.8	1.2	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.3	1.0	0.7	59	100	21	18.5	47	4.9	62	2.6	4.6
2	3.0	1.0	10.4	50	52	19.8	16.7	38	4.4	16.2	2.0	3.8
3	1.7	1.1	16.7	209	b35	18.5	14.4	31	4.6	10.1	1.8	3.2
4	1.3	1.1	4.1	b70	b30	17.3	12.8	25	5.7	7.8	1.5	2.7
5	1.2	1.5	2.4	b40	32	17.9	12.8	22	4.4	6.3	1.4	6.6
6	1.1	1.5	5.9	b30	27	16.1	104	19.8	54	6.6	1.5	8.0
7	1.1	1.4	79	b90	24	13.3	37	17.9	18.3	5.4	1.3	4.4
8	1.2	1.5	15.1	104	24	14.4	29	15.5	6.9	4.1	1.5	3.4
9	1.3	2.3	9.3	77	28	16.1	36	15.0	5.2	3.6	2.8	2.7
10	1.4	1.8	8.5	197	31	10.9	37	13.9	4.4	3.0	2.2	2.4
11	1.7	1.3	40	145	20	10.5	26	11.8	6.8	25	242	2.3
12	1.3	1.2	59	82	17.2	9.5	22	10.1	5.6	17.1	110	2.3
13	1.0	1.2	27	58	17.9	10.5	18.5	10.5	4.1	4.9	38	2.3
14	1.0	1.2	16.7	50	41	10.1	17.9	51	36	4.1	9.5	3.0
15	1.0	1.2	13.3	273	26	13.3	18.5	106	7.1	14.5	6.0	2.3
16	1.0	1.1	11.7	102	23	27	16.1	35	4.6	57	4.4	2.0
17	9.5	1.0	186	91	19.8	28	13.3	27	4.4	8.9	3.6	1.8
18	3.8	b.8	40	207	17.3	37	12.3	20	6.3	6.3	3.0	1.8
19	2.1	.9	b25	87	16.7	108	13.3	17.9	4.9	4.9	2.6	1.8
20	1.7	1.0	702	63	16.7	140	10.5	16.1	4.1	3.4	2.4	1.8
21	1.3	1.1	84	94	20	228	16.2	13.3	4.6	3.4	2.3	1.5
22	1.2	1.1	47	268	397	87	119	11.4	12.9	2.7	4.5	1.4
23	1.2	1.1	b20	212	82	60	86	16.7	5.0	2.4	22	1.4
24	1.1	1.2	b22	114	61	47	47	13.8	3.8	2.3	16.5	1.3
25	1.1	b1.1	24	256	49	63	37	9.3	3.2	2.0	14.6	1.3
26	1.1	b1.0	23	99	34	52	33	8.2	2.7	3.9	9.3	1.3
27	1.0	b.9	19.8	b60	33	36	370	7.8	2.6	4.8	12.9	1.2
28	1.0	b.8	17.9	b45	24	32	182	8.5	5.5	2.3	10.5	1.3
29	1.0	b.8	13.9	47	-	27	90	7.2	5.8	1.7	6.6	1.8
30	1.1	b.8	13.9	39	-	23	61	6.0	155	1.5	6.3	1.5
31	1.0	-	67	199	-	20	-	5.7	-	10.6	5.7	-

b Stage-discharge relation affected by ice.

Neshanic River at Reaville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	16.7	48	32	33	b20	16.1	7.8	3.6	31	38	5.0
2	1.2	15.0	39	45	24	27	13.9	6.9	3.4	26	33	3.4
3	1.2	13.3	31	36	32	24	12.8	6.6	3.4	18.5	23	3.0
4	1.2	10.9	27	27	35	17.5	11.4	6.3	3.4	13.3	19.8	2.7
5	1.4	10.1	25	25	26	21	10.5	6.0	4.1	10.9	17.3	2.4
6	5.6	9.3	64	21	31	27	9.7	5.7	4.6	8.9	18.2	2.3
7	2.1	8.2	42	116	90	20	11.8	4.9	5.7	7.5	18.5	2.3
8	1.3	7.8	26	56	43	18.5	37	4.4	98	6.6	15.0	2.6
9	1.2	7.2	23	37	42	16.1	82	4.4	13.9	6.3	12.8	2.3
10	1.7	6.3	17.2	28	41	15.0	36	6.0	8.9	5.7	10.1	2.1
11	2.3	6.0	14.7	27	28	15.4	24	5.7	17.7	5.4	11.4	2.1
12	1.8	5.4	12.8	24	27	17.9	21	5.2	28	7.8	8.9	2.1
13	1.5	849	10.5	23	30	20	18.5	4.9	87	5.7	7.5	2.1
14	1.5	238	9.3	19.2	32	88	16.7	5.1	89	7.6	6.9	2.4
15	1.4	90	9.3	16.0	23	229	15.0	50	27	6.0	6.6	2.4
16	1.3	60	12.8	14.4	17.4	143	12.8	13.4	18.5	4.9	6.3	2.3
17	1.3	49	28	15.0	15.2	145	11.8	8.2	15.0	30	49	2.1
18	1.3	38	84	10.7	18.5	110	48	6.6	31	24	19.7	2.3
19	2.8	33	37	9.1	39	70	44	6.0	13.9	8.5	8.2	154
20	34	33	28	10.1	229	58	24	6.0	10.1	545	6.6	727
21	11.3	27	25	9.3	86	46	19.2	6.0	8.5	329	5.7	1 480
22	6.6	21	23	15.0	67	39	17.9	6.6	7.5	630	5.2	174
23	127	17.3	24	26	166	33	15.0	5.2	7.8	1 500	4.6	76
24	37	16.1	20	136	108	29	12.8	5.7	6.6	318	4.4	48
25	22	15.0	52	720	67	24	11.8	7.3	5.4	129	3.8	33
26	16.1	15.0	32	119	50	23	10.9	6.2	6.2	82	3.8	26
27	13.3	22	25	59	46	20	10.1	11.8	110	60	4.9	315
28	143	200	27	42	31	17.3	9.3	8.2	214	154	6.1	78
29	49	115	29	33	-	16.1	8.9	5.4	76	133	3.8	43
30	31	63	25	32	-	15.5	7.8	4.9	43	102	3.4	33
31	21	-	25	63	-	16.7	-	4.1	-	47	3.2	-

b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	19.2	44	24	101	181	67	24	3.4	3.0	1.5	2.0
2	20	17.3	40	24	76	88	273	20	3.6	2.1	1.0	1.5
3	16.7	15.5	35	23	932	64	84	17.9	3.2	1.8	1.9	1.3
4	14.4	13.9	452	19.8	343	56	60	16.1	3.0	1.7	7.5	1.3
5	12.8	16.7	522	18.5	116	111	48	14.4	2.7	1.7	1.6	1.2
6	32	15.5	513	151	97	130	513	13.3	2.4	1.5	1.2	1.1
7	41	13.9	118	55	147	68	220	11.8	2.3	1.7	1.2	1.0
8	23	12.3	84	46	108	50	97	11.4	2.3	1.7	19.5	1.0
9	18.5	12.3	82	37	90	49	73	10.9	2.1	1.4	3.4	1.0
10	16.7	10.9	117	53	158	40	61	11.4	2.4	2.1	1.8	.9
11	14.4	10.5	68	41	265	32	53	9.7	3.0	2.2	1.4	.8
12	13.3	10.1	66	33	95	37	62	8.9	2.6	1.4	1.1	.9
13	12.3	10.1	52	25	74	82	40	8.2	4.6	1.3	.9	.9
14	11.4	9.3	44	30	61	124	35	8.9	39	1.4	1.2	.8
15	10.5	8.2	36	31	234	130	33	7.8	6.3	1.4	2.0	.8
16	9.7	8.2	29	27	107	274	29	7.2	4.2	1.1	1.1	.7
17	8.9	8.9	29	23	59	88	37	6.9	3.2	.9	1.0	.7
18	8.2	9.7	30	23	59	64	120	6.3	4.4	1.0	2.7	.7
19	7.5	16.2	27	22	52	49	579	6.0	3.6	1.1	17.7	.6
20	8.2	43	23	18.5	49	45	170	5.7	5.4	1.1	14.8	.7
21	16.2	19.2	21	17.9	50	37	87	10.3	3.6	1.0	3.0	.7
22	9.3	17.9	16.1	18.5	39	36	66	35	3.0	.9	1.8	.8
23	8.2	18.5	17.8	14.6	27	31	50	11.4	2.6	.8	1.6	.7
24	40	21	16.1	16.7	27	29	42	8.9	2.4	1.0	1.3	.7
25	30	17.8	15.0	15.9	24	28	36	7.2	2.1	1.3	2.0	.7
26	18.5	23	12.8	11.8	193	27	33	6.3	2.0	1.2	1.3	.7
27	16.7	28	264	12.3	105	25	33	5.7	1.8	1.0	1.2	.7
28	23	32	50	10.5	429	106	62	5.2	2.0	1.4	1.1	.9
29	34	33	41	11.8	-	46	33	4.9	2.1	1.8	1.1	1.2
30	25	38	32	421	-	181	28	4.1	1.4	1.7	8.8	1.8
31	22	-	27	267	-	93	-	3.6	-	3.4	4.5	-

Neshanic River at Reaville--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	13.9	1.8	bl.8	1.5	12.8	60	20	90	4.1	1.4	34
2	6.1	4.9	2.6	bl.5	1.7	9.3	38	20	101	3.4	1.2	19.7
3	6.1	3.4	4.4	bl.3	2.1	266	33	27	53	3.2	1.2	9.7
4	2.6	2.7	3.4	bl.2	2.0	787	79	36	39	6.4	1.1	6.6
5	1.8	46	2.6	bl.1	2.0	119	47	19.8	29	4.4	1.1	4.9
6	1.5	52	2.4	bl.1	3.2	80	33	16.1	23	3.0	1.2	3.6
7	1.3	16.1	2.4	bl.1	b4.5	57	27	13.9	17.3	2.4	2.5	3.2
8	1.2	10.9	2.0	bl.1	5.2	59	608	12.3	14.4	2.3	2.0	2.7
9	1.1	7.5	1.6	bl.1	3.6	52	355	12.8	14.8	2.3	1.7	3.0
10	1.1	6.0	1.8	bl.1	6.3	39	100	10.5	16.7	2.3	1.4	3.0
11	1.1	5.4	2.1	bl.2	103	25	67	10.1	12.8	2.1	1.2	2.6
12	1.0	4.4	2.2	1.4	12.8	21	188	9.7	10.9	4.6	1.1	2.3
13	1.0	3.8	2.0	1.7	7.8	18.1	192	8.5	9.3	3.2	1.0	2.0
14	1.1	3.4	4.0	115	4.9	235	101	8.5	7.2	2.4	1.2	1.8
15	1.0	3.2	2.6	189	.5	843	71	7.5	6.9	2.0	1.2	1.8
16	1.0	3.0	2.6	22	1.8	66	59	41	6.3	2.1	1.0	2.0
17	1.0	3.0	2.4	10.9	3.4	73	48	53	5.4	2.3	1.1	1.5
18	1.0	2.7	2.4	b7.0	5.2	67	44	19.8	5.4	2.1	1.8	1.4
19	1.0	2.7	2.1	b5.0	104	82	54	15.0	6.0	2.0	5.6	1.4
20	1.1	2.6	16.4	b3.6	619	57	635	36	5.4	1.7	5.0	1.5
21	1.1	2.4	21	b3.0	252	59	426	64	4.4	1.4	1.5	1.4
22	1.5	2.4	10.1	b2.7	87	58	182	43	3.8	1.4	1.2	1.5
23	1.5	2.6	6.6	b2.5	48	34	95	42	3.8	1.4	1.2	1.4
24	1.2	2.4	5.7	b2.5	33	26	70	33	7.5	1.7	1.1	1.3
25	1.1	2.3	4.6	b2.4	b32	21	55	31	11.5	1.7	1.0	161
26	1.1	2.0	4.1	b2.0	30	19.0	44	34	6.3	2.6	6.7	31
27	1.2	1.8	b2.0	bl.7	22	16.1	36	33	5.4	1.7	3.9	14.4
28	1.4	1.8	b2.0	bl.6	19.2	17.3	30	114	8.0	1.4	44	9.7
29	1.4	1.8	b2.0	bl.6	14.2	17.3	25	49	15.6	1.3	13.0	7.5
30	1.4	1.8	b2.0	bl.6	-	30	22	37	4.9	2.1	7.5	6.0
31	15.6	-	bl.8	bl.5	-	85	-	203	-	2.7	5.7	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	937.3	369	5.4	30.2	1.18	1.36
November	471.9	166	5.4	15.7	.611	.68
December	1 017.4	145	9.2	32.8	1.28	1.48
Calendar year 1934	12 456.9	1 510	.8	34.1	1.33	18.04
January 1935	930.4	191	10.0	30.0	1.17	1.35
February	2 317.0	549	13.0	82.8	3.22	3.35
March	1 439.0	164	16.4	46.4	1.81	2.09
April	577.5	50	8.4	19.2	.747	.83
May	173.8	14.6	2.4	5.61	.218	.25
June	84.3	7.6	1.1	2.81	.109	.12
July	1 215.6	517	.9	39.2	1.53	1.76
August	127.8	11.4	1.1	4.12	.160	.18
September	549.1	200	1.1	18.3	.712	.79
Water year 1934-35	9 841.1	549	.9	27.0	1.05	14.24
October 1935	340.0	158	1.7	11.0	.428	.49
November	1 834.1	342	11.4	61.1	2.38	2.66
December	710.1	62	6.4	22.9	.891	1.03
Calendar year 1935	10 298.7	549	.9	28.2	1.10	14.90
January 1936	3 234.0	1 100	7.0	104	4.05	4.67
February	964.8	200	9.7	33.3	1.30	1.40
March	5 545	1 130	43	179	6.96	8.02
April	1 964.7	623	10.5	65.5	2.55	2.84
May	395.2	76	3.4	12.7	.494	.57
June	153.2	30	2.0	5.11	.199	.22
July	50.8	6.0	.8	1.64	.064	.07
August	37.4	5.0	.6	1.21	.047	.05
September	34.9	9.1	.5	1.16	.045	.05
Water year 1935-36	15 264.2	1 130	.5	41.7	1.62	22.07

Neshanic River at Reaville--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	65.8	16.3	1.0	2.12	0.082	0.09
November	35.0	2.3	.8	1.17	.046	.05
December	1 625.3	702	.7	52.4	2.04	2.35
Calendar year 1936	14 106.1	1 130	.5	38.5	1.50	20.38
January 1937	3 517	273	30	113	4.40	5.07
February	1 298.6	397	16.7	46.4	1.81	1.88
March	1 234.2	228	9.5	39.8	1.55	1.79
April	1 527.8	370	10.5	50.9	1.98	2.21
May	658.4	106	5.7	21.2	.825	.95
June	397.8	155	2.6	13.3	.518	.58
July	308.8	62	1.5	9.96	.388	.45
August	551.3	242	1.3	17.8	.693	.80
September	77.2	8.0	1.2	2.57	.100	.11
Water year 1936-37	11 297.2	702	.7	31.0	1.21	16.33
October 1937	544.7	143	1.2	17.6	.685	.79
November	2 017.6	849	5.4	67.3	2.62	2.92
December	895.6	84	9.3	28.9	1.12	1.29
Calendar year 1937	13 029.0	849	1.2	35.7	1.39	18.84
January 1938	1 845.8	720	9.1	59.5	2.32	2.68
February	1 477.1	229	15.2	52.8	2.05	2.14
March	1 382.0	229	15.0	44.6	1.74	2.01
April	600.7	82	7.8	20.0	.778	.87
May	241.5	50	4.1	7.79	.303	.35
June	971.2	214	3.4	32.4	1.26	1.41
July	4 263.6	1 500	4.9	138	5.37	6.19
August	385.7	49	3.2	12.4	.482	.56
September	3 232.9	1 480	2.1	108	4.20	4.69
Water year 1937-38	17 858.4	1 500	1.2	48.9	1.90	25.90
October 1938	569.4	41	7.5	18.4	.716	.83
November	530.1	43	8.2	17.7	.689	.77
December	2 923.8	522	12.8	94.3	3.67	4.23
Calendar year 1938	18 423.8	1 500	2.1	50.5	1.96	26.73
January 1939	1 542.8	421	10.5	49.8	1.94	2.24
February	4 117	932	24	147	5.72	5.96
March	2 401	274	25	77.5	3.02	3.48
April	3 124	579	28	104	4.05	4.52
May	329.4	35	3.6	10.6	.412	.48
June	126.7	39	1.4	4.22	.164	.18
July	47.1	3.4	.8	1.52	.059	.07
August	112.2	19.5	.9	3.62	.141	.16
September	28.8	2.0	.6	.96	.037	.04
Water year 1938-39	15 852.3	932	.6	43.4	1.69	22.96
October 1939	70.2	15.6	1.0	2.26	.088	.10
November	218.9	52	1.8	7.30	.284	.32
December	125.7	21	1.6	4.05	.158	.18
Calendar year 1939	12 243.8	932	.6	33.5	1.30	17.73
January 1940	392.3	189	1.1	12.7	.494	.57
February	1 431.9	619	.5	49.4	1.92	2.07
March	3 350.9	843	9.3	108	4.20	4.84
April	3 824	635	22	127	4.94	5.51
May	1 080.5	203	7.5	34.9	1.36	1.57
June	545.0	101	3.8	18.2	.708	.79
July	77.7	6.4	1.3	2.51	.098	.11
August	121.8	44	1.0	3.93	.153	.18
September	343.9	161	1.3	11.5	.447	.50
Water year 1939-40	11 582.8	843	.5	31.6	1.23	16.74

Walnut Brook near Flemington

Location.- Water-stage recorder and concrete control, lat. 40°30'57", long. 74°53'00", 1¼ miles northwest of Flemington, Hunterdon County, and 3 miles upstream from mouth. Datum of gage is 267.33 feet above mean sea level (unadjusted, United States Coast and Geodetic Survey datum).

Drainage area.- 2.24 square miles.

Records available.- April 1936 to September 1940.

Extremes.- 1936-40: Maximum discharge, 326 second-feet Sept. 21, 1938 (gage height, 2.82 feet), from rating curve extended above 120 second-feet by logarithmic plotting; no flow at times.

Daily discharge, in second-feet, 1936-40

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	0.83	0.16	0.16	0	0.02
2							-	.74	.13	.16	0	.01
3							-	3.7	.13	.13	0	.01
4							-	3.7	.10	.10	0	.01
5							-	1.8	.10	.10	0	.01
6							-	1.4	a.10	.08	0	.01
7							-	1.3	a.09	.08	0	0
8							7.5	1.1	a.09	.06	0	0
9							6.5	.92	a.09	.04	0	0
10							9.2	.83	a.09	.01	0	0
11							11.8	.74	a.09	1.1	0	0
12							6.8	.67	a.2	.32	0	0
13							9.2	.83	a1.0	.10	0	0
14							5.8	.74	a.5	.35	0	0
15							4.9	.67	a.6	.21	0	0
16							4.1	.60	a.4	.08	.03	0
17							3.4	.53	a.2	.06	.01	0
18							2.7	.46	1.4	.06	.01	.02
19							2.3	.77	1.3	.04	.01	.08
20							2.2	.67	.60	.06	0	.06
21							1.8	.46	.46	.08	0	.06
22							1.7	.40	.28	.06	0	.04
23							1.5	.34	.28	.04	0	.02
24							1.4	.28	.23	.06	.08	.01
25							1.1	.23	.23	.04	.28	.01
26							1.0	.23	.19	.02	.23	.01
27							.92	.28	.16	.02	.04	0
28							.92	.23	.19	.02	.02	0
29							.92	.23	.19	.01	.04	0
30							.83	.19	.19	.01	.04	.01
31							-	.19	-	0	.02	-

a No gage-height record; discharge computed on basis of records for Neshanic River at Reaville.

Walnut Brook near Flemington--Continued

Daily discharge, in second-feet, 1936-40--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.60	0.04	b0.02	4.4	9.2	2.0	2.0	4.6	0.40	3.2	0.16	0.67
2	.10	.04	.65	5.8	5.5	1.8	1.8	3.6	.40	1.1	.10	.60
3	.06	.04	1.2	17.9	3.8	1.7	1.7	2.9	.34	.83	.08	.46
4	.04	.04	.40	6.5	3.1	1.7	1.5	2.5	.34	.67	.06	.40
5	.04	.06	.23	4.4	2.9	1.5	1.4	2.2	.34	.53	.06	.83
6	.04	.06	2.9	3.1	2.5	1.5	16.3	2.0	.44	.46	.04	.74
7	.04	.06	7.7	10.5	2.3	1.4	4.6	1.8	.40	.40	.02	.53
8	.04	.06	1.1	9.2	2.2	1.3	3.6	1.7	.28	.34	.04	.40
9	.04	.08	.74	6.1	2.3	1.4	4.1	1.5	.23	.23	.04	.34
10	.04	.08	.67	17.1	2.3	1.1	3.8	1.4	.23	.19	.04	.34
11	.02	.08	5.8	10.1	1.8	1.0	2.9	1.3	.28	.19	5.2	.28
12	.02	.08	4.8	6.8	1.7	.92	2.5	1.0	.23	.23	2.3	.28
13	.02	.08	2.2	4.9	1.7	.92	2.3	1.1	.19	.19	.88	.28
14	.02	.08	1.4	4.4	3.1	.92	2.0	9.7	1.1	.13	.40	.28
15	.02	.08	1.1	16.8	2.3	1.1	2.0	10.2	.34	2.6	.28	.23
16	.02	.06	1.9	6.8	2.0	1.7	1.8	3.8	.23	2.2	.23	.19
17	.30	.06	13.0	9.8	1.7	2.0	1.5	3.1	.19	.67	.16	.19
18	.16	.06	2.9	16.0	1.5	2.3	1.4	2.3	.28	.53	.13	.19
19	.10	c.04	4.1	7.2	1.5	6.6	1.4	2.0	.23	.40	.13	.19
20	.08	c.04	38	5.5	1.4	14.1	1.3	1.8	.23	.34	.13	.16
21	.06	c.04	6.8	7.9	3.2	34	3.1	1.5	.45	.28	.27	.16
22	.06	c.04	3.8	24	33	11.0	19.6	1.4	.83	.23	2.4	.16
23	.06	.02	2.5	17.6	6.9	6.9	8.2	1.3	.34	.19	7.2	.16
24	.06	.02	2.2	10.5	5.2	5.2	5.2	1.1	.23	.16	3.4	.13
25	.06	.02	1.8	23	4.4	6.2	4.1	.92	.19	.13	2.5	.13
26	.06	.02	1.7	8.7	3.1	4.6	4.1	.83	.16	.42	1.8	.13
27	.06	.02	1.7	6.1	2.7	3.6	38	.83	.13	.28	1.8	.13
28	.06	.02	1.4	4.6	2.2	3.1	17.9	.74	.28	.16	1.4	.13
29	.06	.02	1.3	4.6	-	2.7	8.1	.67	.28	.13	1.1	.13
30	.04	.02	1.1	3.8	-	2.3	5.8	.60	5.7	.10	1.0	.13
31	.04	-	6.7	21	-	2.2	-	.46	-	.58	.83	-

b Stage-discharge relation affected by ice.
c Backwater from debris on control; discharge computed on basis of gage height records and records for Neshanic River at Reaville.

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.13	1.8	4.1	2.9	2.9	2.9	1.7	1.1	0.60	2.2	4.1	0.28
2	.13	1.7	3.6	4.4	2.3	2.5	1.5	1.0	.60	1.8	3.1	.16
3	.10	1.5	2.9	3.4	2.7	2.3	1.4	.92	.53	1.4	2.3	.10
4	.10	1.4	2.7	2.7	2.9	1.8	1.3	.92	.46	1.0	1.8	.10
5	.14	1.3	2.5	2.5	2.3	2.0	1.1	.83	.46	.83	1.7	.08
6	.28	1.1	6.2	2.2	3.2	2.2	1.1	.74	.46	.67	2.6	.06
7	.19	1.0	3.6	11.3	11.1	1.8	1.0	.67	.50	.53	1.8	.08
8	.16	.92	2.5	4.9	4.1	1.7	5.2	.60	2.2	.46	1.5	.13
9	.13	.83	2.3	3.6	3.8	1.5	12.0	.60	.67	.40	1.1	.06
10	.16	.74	1.8	3.1	4.1	1.5	4.4	.60	.53	.40	1.0	.06
11	.16	.74	1.5	2.9	3.1	1.5	3.1	.60	.53	.40	.92	.06
12	.13	.67	1.4	2.7	2.9	1.7	2.7	.60	.75	.40	.74	.08
13	.13	61	1.1	2.3	2.9	2.3	2.5	.53	2.7	.34	.67	.10
14	.13	18.4	1.4	2.2	3.1	11.3	2.3	.70	4.4	.34	.60	.08
15	.10	8.1	1.1	1.8	2.5	24	2.0	8.8	1.5	.53	.53	.08
16	.10	5.2	1.0	1.5	2.0	16.3	1.8	2.0	1.3	.34	.46	.08
17	.10	4.6	2.0	1.5	1.8	16.7	1.7	1.3	1.0	.55	.53	.06
18	.10	3.6	7.2	1.3	2.0	11.5	13.2	1.0	1.2	.46	.60	.08
19	.36	3.1	3.1	1.1	5.3	7.3	8.6	.92	.83	.40	.46	2.7
20	5.4	3.1	2.5	1.3	24	5.8	4.6	.92	.67	13.6	.34	46
21	1.3	2.7	2.3	1.0	7.3	4.6	3.6	.83	.60	21	.28	79
22	.92	2.3	2.2	1.3	5.8	3.8	3.6	.83	.82	47	.28	15.1
23	20	2.0	2.0	1.8	15.8	3.4	2.7	.74	.74	69	.23	5.5
24	3.8	1.8	2.4	13.7	9.5	2.9	2.2	.83	.46	25	.16	3.8
25	2.5	1.7	4.9	66	6.1	2.7	2.0	.83	.40	10.0	.16	2.7
26	2.0	1.7	3.1	12.0	4.6	2.5	1.8	.83	.89	6.1	.16	2.2
27	1.7	2.2	2.5	6.1	4.4	2.2	1.7	1.4	7.5	5.8	.16	2.5
28	15.0	22	2.5	4.1	2.9	2.0	1.5	1.1	10.8	14.7	.16	2.0
29	4.4	9.0	2.7	3.4	-	1.8	1.4	.92	5.0	12.0	.13	1.7
30	2.9	5.5	2.5	2.9	-	1.7	1.3	.74	2.7	11.0	.10	1.5
31	2.3	-	2.5	4.3	-	1.7	-	.67	-	5.5	.10	-

Walnut Brook near Flemington--Continued

Daily discharge, in second-feet, 1936-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	1.2	3.1	2.1	8.8	17.0	6.7	2.1	0.34	0.13	0.02	0.01
2	1.1	1.2	2.9	2.1	7.0	8.8	25	1.7	.34	.08	.01	.01
3	.97	1.1	2.5	1.9	78	6.2	8.3	1.6	.28	.06	.01	.01
4	.86	1.1	38	1.7	28	5.5	6.2	1.4	.28	.06	.01	.01
5	.76	1.2	52	1.7	12.1	11.4	4.8	1.3	.28	.06	.01	.01
6	1.3	1.2	43	14.9	9.3	12.0	50	1.2	.23	.06	0	0
7	1.8	1.2	12.1	5.5	12.1	6.2	19.0	1.1	.16	.06	0	0
8	1.2	1.1	7.8	4.5	11.2	4.5	9.8	.97	.16	.04	0	0
9	1.1	1.1	7.4	3.9	9.8	4.5	7.0	1.1	.16	.04	.02	0
10	.97	.97	11.0	5.1	19.9	3.6	5.8	1.1	.13	.02	.01	0
11	.86	.86	6.2	3.9	30	2.9	5.5	.97	.16	.02	0	0
12	.76	.76	5.8	3.1	10.3	3.2	6.2	.86	.16	.01	0	0
13	.76	.68	4.8	2.5	7.4	6.2	3.9	.76	1.9	.01	0	0
14	.68	.60	3.9	2.7	6.2	11.0	3.4	.76	1.5	.01	0	0
15	.68	.60	3.1	2.3	28	23	3.1	.68	.46	.01	0	0
16	.60	.60	2.7	2.1	10.9	26	2.7	.68	.34	.01	0	0
17	.60	.60	2.7	2.1	6.2	9.3	3.2	.68	.28	.01	0	0
18	.60	.60	2.7	2.1	5.8	6.6	11.8	.53	.23	.01	.01	0
19	.60	2.2	2.3	1.9	4.8	4.8	40	.46	.31	0	.04	0
20	.67	3.0	2.1	1.5	4.8	4.5	18.2	.46	.46	0	.16	0
21	.94	1.4	1.9	1.4	3.9	3.4	9.3	8.8	.31	0	.10	0
22	.68	1.4	1.6	b1.2	3.6	3.4	6.6	4.6	.19	0	.04	0
23	.60	1.3	1.3	b1.0	2.7	2.9	5.1	2.3	.16	0	.02	0
24	3.0	1.3	1.3	b1.0	2.5	2.7	4.2	1.6	.16	0	.02	0
25	2.0	1.3	1.3	b1.0	2.1	2.5	3.4	1.2	.13	0	.02	0
26	1.4	1.3	1.2	b.9	22	2.5	3.1	.97	.10	0	.02	0
27	1.3	1.4	25	b.8	10.2	2.3	2.9	.86	.10	0	.01	0
28	1.2	1.7	4.2	b.8	38	13.5	3.4	.68	.10	0	.01	0
29	1.9	1.9	3.1	b.8	-	4.8	2.7	.60	.10	0	.01	0
30	1.4	2.5	2.9	45	-	19.7	2.3	.53	.19	.02	.01	.03
31	1.3	-	2.5	20	-	9.5	-	.40	-	.02	.01	-

b Stage-discharge relation affected by ice.

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.08	0.49	0.10	b0.13	b0.08	1.3	7.9	2.1	17.6	0.34	0.02	1.7
2	.10	.23	.10	b.10	b.08	1.1	4.8	2.1	13.8	.23	.01	.82
3	.08	.16	.10	b.08	b.10	25	5.7	3.4	7.0	.23	.01	.50
4	.04	.13	.10	b.06	b.11	55	12.4	3.6	5.1	.40	0	.34
5	.04	5.1	.10	b.06	a.10	15.7	6.6	2.5	3.6	.28	0	.23
6	.04	2.1	.10	b.06	a.20	12.0	4.5	2.1	2.7	.23	0	.16
7	.04	.68	.10	b.06	a.35	10.2	3.4	1.9	2.1	.16	.01	.13
8	.02	.46	.13	b.06	a.40	9.1	59	1.6	1.7	.16	.01	.13
9	.02	.34	.16	b.06	a.30	8.9	26	1.4	2.1	.13	0	.16
10	.02	.34	.16	b.06	a.60	5.7	9.8	1.3	1.9	.13	0	.16
11	.01	.28	.13	b.08	a4.0	3.6	6.6	1.3	1.6	.10	0	.13
12	.01	.23	.13	b.10	a1.0	2.8	20	1.2	1.4	.16	0	.13
13	.01	.19	.13	.34	a.60	2.5	19.7	1.1	1.2	.13	0	.10
14	.01	.13	.19	2.2	a.30	38	10.9	1.1	.86	.13	0	.08
15	.01	.13	.19	11.5	a.08	62	7.8	.97	.76	.10	0	.08
16	.01	.13	.19	1.4	a.13	7.2	6.2	4.8	.76	.08	0	.06
17	.01	.13	.19	b.90	a.25	8.7	5.1	5.6	.76	.08	0	.06
18	.01	.13	.19	b.60	a.40	7.4	4.5	2.5	.76	.08	.01	.04
19	.01	.13	.16	b.48	a.70	9.3	6.3	1.9	.68	.06	.75	.04
20	.01	.13	3.4	b.35	1.4	7.2	65	2.6	.60	.06	.75	.04
21	.02	.13	2.0	b.28	3.1	6.2	45	8.9	.60	.06	.02	.04
22	.02	.13	1.1	b.25	3.6	5.5	19.7	6.0	.53	.04	.02	.04
23	.01	.13	.76	b.23	3.4	3.4	10.9	5.5	.46	.04	.01	.04
24	.01	.13	.53	b.19	2.5	2.7	7.4	4.2	.86	.04	.01	.04
25	.01	.13	.46	b.16	1.9	2.0	5.8	4.2	c.60	.04	.01	8.9
26	.02	.10	.40	b.13	1.7	1.7	4.5	5.5	c.46	.04	.15	1.5
27	.02	.10	b.25	b.10	b1.5	1.6	3.6	5.8	.34	.04	.19	.86
28	.04	.10	b.18	b.08	b1.5	1.6	3.1	17.3	.51	.04	2.7	.60
29	.06	.10	b.17	b.08	1.4	1.6	2.7	7.0	.57	.01	.73	.46
30	.04	.10	b.17	b.08	-	5.6	2.3	5.1	.34	.02	.46	.34
31	.80	-	b.15	b.08	-	13.2	-	26	-	.04	.34	-

a No gage-height record; discharge computed on basis of records for Neshanic River at Reaville.
b Stage-discharge relation affected by ice.
c Backwater from stones on control; discharge computed on basis of gage-height records and records for Neshanic River at Reaville.

Walnut Brook near Flemington--Continued

Monthly and annual discharge, in second-feet, 1936-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
April 8-30, 1936	88.49	11.8	0.83	3.85	1.72	1.47
May	26.06	3.7	.19	.841	.375	.43
June	9.77	1.4	.09	.326	.146	.16
July	3.66	1.1	0	.118	.053	.06
August	.81	.28	0	.026	.012	.01
September	.39	.08	0	.013	.006	.01
Water year	-	-	-	-	-	-
October 1936	2.42	.60	.02	.078	.035	.04
November	1.46	.08	.02	.049	.022	.02
December	121.81	38	.02	3.93	1.75	2.02
Calendar year	-	-	-	-	-	-
January 1937	305.1	24	3.1	9.84	4.39	5.06
February	115.5	33	1.4	4.12	1.84	1.92
March	128.76	34	.92	4.15	1.85	2.13
April	174.0	38	1.3	5.80	2.59	2.89
May	70.85	10.2	.46	2.29	1.02	1.18
June	15.29	5.7	.13	.510	.228	.25
July	18.09	3.2	.10	.584	.261	.30
August	34.18	7.2	.02	1.10	.491	.57
September	8.97	.83	.13	.299	.133	.15
Water year 1936-37	996.43	38	.02	2.73	1.22	16.53
October 1937	65.05	20	.10	2.10	.937	1.08
November	171.70	61	.67	5.72	2.55	2.84
December	84.1	7.2	1.0	2.71	1.21	1.40
Calendar year 1937	1 191.59	61	.02	3.26	1.46	19.77
January 1938	176.2	66	1.0	5.68	2.54	2.93
February	145.4	24	1.8	5.19	2.32	2.42
March	147.9	24	1.5	4.77	2.13	2.46
April	95.0	13.2	1.0	3.17	1.42	1.58
May	35.07	8.8	.53	1.13	.504	.58
June	51.80	10.8	.40	1.73	.772	.86
July	254.15	69	.34	8.20	3.66	4.22
August	28.77	4.1	.10	.928	.414	.48
September	166.43	79	.06	5.55	2.48	2.77
Water year 1937-38	1 421.57	79	.06	3.89	1.74	23.62
October 1938	33.89	3.0	.60	1.09	.487	.56
November	37.37	3.0	.60	1.25	.558	.62
December	262.4	52	1.2	8.46	3.78	4.36
Calendar year 1938	1 434.38	79	.06	3.93	1.75	23.84
January 1939	141.5	45	.8	4.56	2.04	2.35
February	395.6	78	2.1	14.1	6.29	6.55
March	244.4	26	2.3	7.88	3.52	4.06
April	283.6	50	2.3	9.45	4.22	4.71
May	42.95	8.8	.40	1.39	.621	.72
June	9.70	1.9	.10	.323	.144	.16
July	.74	.13	0	.024	.011	.01
August	.57	.16	0	.018	.008	.01
September	.08	.03	0	.003	.001	.001
Water year 1938-39	1 452.80	78	0	3.98	1.78	24.11
October 1939	1.63	.80	.01	.053	.024	.03
November	12.79	5.1	.10	.426	.190	.21
December	12.22	3.4	.10	.394	.176	.20
Calendar year 1939	1 145.78	78	0	3.14	1.40	19.01
January 1940	20.34	11.5	.06	.656	.293	.34
February	31.78	4.0	.08	1.10	.491	.53
March	337.8	62	1.1	10.9	4.87	5.62
April	397.2	65	2.3	13.2	5.89	6.57
May	140.57	26	.97	4.53	2.02	2.33
June	72.25	17.6	.34	2.41	1.08	1.20
July	3.68	.40	.01	.119	.053	.06
August	6.21	2.7	0	.200	.089	.10
September	17.91	8.9	.04	.597	.267	.30
Water year 1939-40	1 054.38	65	0	2.88	1.29	17.49

North Branch of Raritan River near Far Hills

Location.- Water-stage recorder above masonry dam, lat. 40°42'27", long. 74°38'20", at Ravine Lake, 2 miles north of Far Hills, Somerset County, and 2 miles upstream from Peapack Brook. Datum of gage is 224.49 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 26.2 square miles (revised).

Records available.- February 1922 to September 1940.

Average discharge.- 18 years, 47.0 second-feet.

Extremes.- 1922-40: Maximum discharge, 3,410 second-feet Mar. 15, 1940 (gage height, 5.85 feet), from rating curve extended above 500 second-feet on basis of formula for flow over dam; no flow several days in November 1930, May 1934, May 1935, and on May 22, 1939, when Ravine Lake was filling.

A stage of 7.6 feet, from authentic floodmark, occurred July 23, 1919 (discharge, about 7,000 second-feet).

Peak gage height and discharge during period of this report.-

1934: Oct. 6 (9 to 10 a.m.) 3.44 ft., 724 sec.-ft.
1935: Feb. 15 (1:30 a.m.) 3.45 ft., 732 sec.-ft.
1936: Jan. 3 (9:30 a.m.) 4.81 ft. caused by ice jam: Mar. 11 (5:30 p.m.) 4.60 ft., 1,860 sec.-ft.; Apr. 6 (11 a.m.) 4.24 ft., 1,480 sec.-ft.; Dec. 20 (6 a.m.) 3.91 ft., 1,140 sec.-ft.
1937: Feb. 22 (6 a.m.) 4.07 ft., 1,270 sec.-ft.; Nov. 13 (2 p.m.) 3.71 ft., 956 sec.-ft.
1938: Jan. 25 (5 to 6 a.m.) 3.80 ft., 1,040 sec.-ft.; July 23 (7 p.m.) 3.69 ft., 938 sec.-ft.; Aug. 6 (5 p.m.) 4.09 ft., 1,290 sec.-ft.; Sept. 21 (8 p.m.) 5.31 ft., 2,700 sec.-ft.
1939: Feb. 3 (6 p.m.) 3.37 ft., 657 sec.-ft.
1940: Jan. 15 (2 to 3 a.m.) 3.44 ft., 703 sec.-ft.; Mar. 15 (3:30 a.m.) 5.85 ft., 3,410 sec.-ft.; Apr. 8 (9 to 10 p.m.) 3.60 ft., 835 sec.-ft.; June 1 (11 p.m.) 3.47 ft., 728 sec.-ft.

Remarks.- Water diverted by small turbine at dam (about 2 second-feet) included in records of discharge.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	177	33	219	111	27	46	52	39	19	11	16	9.5
2	136	40	100	61	28	64	52	34	14	9.5	18	8.9
3	114	36	71	46	29	74	52	34	12	8.5	24	11
4	93	147	81	37	29	64	46	34	14	8	21	111
5	81	87	67	30	27	55	44	34	20	8	17	82
6	323	67	58	36	25	64	44	34	16	8	15	55
7	158	55	55	41	23	64	44	46	14	7.6	15	35
8	118	46	49	49	26	58	41	40	14	45	15	23
9	106	41	41	49	26	52	91	34	30	255	14	20
10	93	39	37	102	28	49	64	32	22	151	11	20
11	89	37	37	58	28	61	49	31	17	22	15	18
12	78	36	36	44	25	113	55	28	16	30	16	16
13	67	30	44	37	24	106	67	27	15	31	15	15
14	61	32	44	36	61	78	55	27	12	26	14	14
15	55	30	39	32	254	67	46	27	11	21	12	14
16	49	30	37	34	102	71	46	25	10	24	12	14
17	46	30	37	32	140	74	44	24	10	22	11	13
18	53	30	37	34	77	58	41	21	15	18	11	12
19	48	30	118	31	55	55	41	20	25	17	11	12
20	41	29	116	36	46	55	41	a19	28	17	11	12
21	36	30	55	41	39	92	39	a18	18	a16	11	12
22	49	36	49	73	37	71	37	a17	18	a21	18	11
23	a43	36	44	48	36	64	36	a16	19	a31	15	11
24	a40	41	41	32	37	64	32	a15	15	44	10	11
25	32	34	39	36	50	61	30	a14	12	56	8.9	10
26	37	30	71	37	107	58	29	a14	10	49	8	10
27	39	29	48	32	61	55	28	a13	10	25	8.5	11
28	37	30	37	30	46	63	28	14	16	21	9.5	11
29	34	34	39	32	-	80	28	17	13	19	9.5	11
30	34	193	39	32	-	58	46	22	12	18	8.5	11
31	32	-	31	27	-	52	-	20	-	16	10	-

a No gage-height record or blow-off gate in dam open; discharge computed on basis of records for nearby streams.

North Branch of Raritan River near Far Hills--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	89	85	b22	b23	71	c122	c49	21	24	7.6	8.9
2	12	61	74	b27	b22	67	c131	c46	19	21	7.6	8.9
3	12	46	67	b600	b22	67	c149	c49	18	18	7.6	8.5
4	11	36	61	152	b24	93	c114	151	22	18	7.6	8.0
5	11	34	55	110	b35	118	c106	74	20	17	7.6	7.6
6	11	36	55	89	b34	85	c609	61	17	16	7.6	7.6
7	12	34	49	81	b31	67	c235	55	16	16	7.6	7.1
8	12	41	52	74	b29	64	c187	55	16	15	7.6	7.1
9	12	39	58	218	b22	81	c177	46	16	14	7.6	8.0
10	11	34	58	166	b20	197	c224	41	16	13	7.6	8.5
11	11	32	52	106	b20	843	c213	39	17	13	8.5	8.5
12	11	41	49	93	b20	c760	c167	37	40	18	8.5	8.0
13	11	80	46	102	b20	c318	c144	50	55	15	8.0	7.6
14	11	92	44	89	b26	c229	c131	67	77	16	8.0	7.1
15	11	46	49	143	b46	c192	c114	44	57	16	8.3	6.7
16	9.5	39	89	155	b42	c162	c106	37	36	12	18	6.7
17	10	66	55	93	b40	c154	c93	36	24	11	15	6.7
18	11	89	44	85	b47	c381	c89	34	87	11	11	8.1
19	12	78	46	85	b35	c293	c81	36	95	11	10	25
20	12	93	44	b60	b27	c213	c78	41	46	12	10	16
21	13	89	31	b37	b27	c312	c74	32	39	14	10	11
22	14	74	29	b33	b28	c214	c71	29	29	12	10	9.5
23	11	64	b25	b30	b30	c167	c67	28	24	11	23	8.5
24	11	55	b23	b29	b31	c167	c61	26	22	12	56	8.5
25	10	52	b21	b32	b35	c149	c58	26	22	13	18	8.0
26	9.5	49	b20	b29	b58	c131	c58	26	22	11	12	6.7
27	8.9	49	b19	b27	b76	c208	c58	26	20	9.5	11	6.7
28	8.9	71	b18	b26	b74	c198	c55	26	21	10	10	7.6
29	9.5	245	b18	b25	71	c154	c55	23	23	10	9.5	7.1
30	145	93	b18	b24	-	c140	c52	22	22	8.5	11	9.5
31	333	-	b19	b23	-	c131	-	22	-	8.0	10	-

b Stage-discharge relation affected by ice.
c Backwater caused by debris on dam; discharge computed on basis of three discharge measurements, gage-height records and observer's and engineers' notes.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	9.5	6.7	86	137	65	49	62	27	88	15.0	29
2	24	10.0	11.0	58	88	62	49	58	26	30	13.6	28
3	13.4	10.6	52	154	72	62	46	55	25	24	12.4	22
4	8.6	12.6	27	79	72	58	42	52	26	23	10.6	20
5	9.5	22	17.9	55	75	62	44	52	24	19.5	10.0	21
6	8.4	18.7	18.2	44	72	55	235	52	28	18.7	10.0	25
7	8.0	14.3	138	96	68	49	92	49	52	17.9	10.0	21
8	9.5	13.6	32	96	68	49	75	44	27	16.4	12.5	19.5
9	10.0	23	25	75	68	55	83	44	24	15.7	20	18.7
10	13.0	17.2	22	99	72	46	83	44	22	13.6	14.8	17.9
11	15.0	13.6	42	88	58	44	68	38	26	13.6	15.6	17.9
12	11.8	11.8	71	68	52	42	62	38	26	16.4	60	17.9
13	8.9	11.2	37	62	52	44	58	38	22	15.7	33	29
14	6.7	10.6	28	62	83	42	58	114	26	14.3	21	36
15	7.6	10.6	25	139	65	46	62	263	27	64	13.6	22
16	8.0	11.2	23	88	52	62	55	83	21	44	11.8	17.9
17	81	10.0	66	88	46	49	44	68	17.9	34	11.2	16.4
18	37	10.6	35	215	42	52	46	62	21	24	11.2	16.4
19	21	8.9	26	109	42	65	46	55	23	20	17.4	16.4
20	15.7	9.5	421	96	42	82	40	52	19.5	17.2	27	15.7
21	13.6	9.5	96	100	47	180	63	52	41	15.7	23	14.3
22	12.4	10.0	65	222	442	104	136	42	137	14.3	71	14.3
23	11.8	10.0	49	185	c136	83	96	44	32	13.6	221	14.3
24	10.6	10.0	46	130	c105	72	65	42	23	13.6	79	14.3
25	10.0	10.0	44	245	c92	79	58	38	19.5	13.0	55	14.3
26	10.0	11.8	42	156	79	79	52	37	17.9	14.6	42	14.3
27	10.0	11.2	40	127	75	62	131	35	17.9	24	44	13.0
28	10.6	8.4	40	105	68	58	113	35	19.4	15.7	37	13.6
29	11.2	9.5	38	96	-	52	79	34	23	13.0	32	14.3
30	10.0	8.4	38	92	-	49	72	31	35	12.4	32	14.3
31	8.9	-	85	156	-	49	-	29	-	14.3	30	-

c Backwater caused by debris on dam; discharge computed on basis of gage-height records and records for nearby streams.

North Branch of Raritan River near Far Hills--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13.6	24	58	38	58	41	68	37	22	55	93	26
2	13.0	24	52	40	46	46	55	35	21	49	78	24
3	13.0	25	46	44	55	46	46	34	24	42	65	22
4	13.0	a22	46	37	68	37	42	32	24	38	56	22
5	13.6	a20	46	35	55	49	40	32	23	35	53	20
6	30	a19	65	34	52	68	40	31	22	34	342	17.8
7	21	a18	62	119	98	52	46	27	26	31	182	18.5
8	14.3	17.9	46	65	58	44	66	25	101	a30	131	19.1
9	13.0	17.9	44	42	52	42	156	27	35	a29	105	18.5
10	14.3	17.2	35	35	58	40	106	37	26	a27	85	18.5
11	19.5	16.4	b28	38	46	37	75	32	34	a26	101	17.8
12	17.9	16.4	b25	38	46	38	58	30	35	a28	71	17.1
13	14.3	424	b24	38	58	40	55	28	42	a29	62	18.5
14	13.0	c241	b24	37	65	76	52	27	37	a26	56	18.5
15	12.4	c96	b30	37	52	96	49	118	31	a38	53	19.1
16	11.8	68	40	31	40	74	46	44	26	a31	50	19.1
17	11.8	62	55	37	40	105	44	34	26	a28	47	17.1
18	11.8	52	116	31	42	88	72	29	43	a28	47	17.8
19	26	49	62	24	52	75	104	27	31	a28	42	88
20	116	49	49	37	108	72	58	28	26	a59	39	297
21	38	49	46	31	55	68	52	29	24	a137	35	776
22	25	42	44	35	49	65	52	29	23	206	33	302
23	76	40	42	35	68	65	49	27	34	415	31	140
24	52	38	40	54	88	58	44	29	52	237	29	126
25	30	38	58	526	62	55	44	37	26	140	27	113
26	25	38	49	125	49	55	42	34	61	118	26	97
27	24	38	40	79	52	58	42	63	146	142	26	85
28	77	166	40	62	46	52	40	38	198	133	25	82
29	46	112	40	55	-	52	38	30	104	101	24	74
30	32	68	37	58	-	52	37	25	68	113	23	65
31	26	-	37	68	-	65	-	23	-	85	23	-

a No gage-height record; discharge computed on basis of records for station at Milltown.
b Stage-discharge relation affected by ice.
c Backwater from debris on dam; discharge computed on basis of recorder charts.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	29	33	43	52	167	79	75	22	21	12.7	10.5
2	52	30	31	41	52	115	194	66	21	15.1	10.5	9.5
3	47	29	28	41	262	107	102	60	20	13.3	9.5	8.9
4	45	30	127	39	175	102	90	57	20	12.7	10.5	8.4
5	45	33	198	39	98	137	82	55	21	12.2	9.5	8.4
6	52	39	240	175	90	189	225	55	18.9	12.2	8.9	7.9
7	73	41	107	69	86	111	185	55	16.9	12.7	8.4	7.4
8	47	39	86	55	82	98	133	d55	16.9	12.2	8.4	8.4
9	43	43	102	52	82	98	111	d55	16.9	11.6	8.9	10.5
10	39	37	107	52	94	98	107	d80	16.3	11.6	8.9	9.5
11	37	31	82	52	166	86	107	d60	16.9	10.0	7.9	8.4
12	37	30	75	47	94	94	119	d55	17.6	8.9	7.9	7.9
13	36	31	69	45	86	107	90	d50	17.3	8.4	7.9	7.9
14	36	29	60	45	86	107	86	d50	49	8.9	10.0	7.4
15	36	27	52	43	197	134	82	d46	24	9.5	9.5	7.4
16	36	27	50	41	150	303	79	d44	18.9	8.9	8.4	7.0
17	36	33	47	43	98	161	79	d42	16.3	8.9	7.9	6.5
18	34	37	50	41	98	128	148	d40	16.3	8.4	7.9	5.7
19	33	36	50	41	98	111	238	d38	16.9	8.4	9.2	5.7
20	36	63	47	35	94	107	190	d36	25	7.9	48	5.7
21	66	36	45	37	86	98	124	d35	19.6	7.4	20	7.4
22	39	28	41	39	82	94	115	d70	16.3	7.0	13.9	8.4
23	33	27	37	32	69	90	102	d40	15.1	7.0	10.0	7.4
24	54	28	37	39	66	86	94	34	19.6	7.0	8.9	7.4
25	88	26	37	36	63	82	90	31	15.7	6.5	29	7.4
26	41	28	37	27	148	79	86	30	13.9	6.5	15.7	7.4
27	36	31	179	31	116	75	90	28	13.9	10.0	11.1	7.0
28	37	31	57	28	238	145	107	27	13.3	51	8.9	7.9
29	36	30	45	34	-	86	82	26	13.3	24	8.4	8.9
30	33	31	45	143	-	119	72	24	25	23	8.9	11.1
31	31	-	43	119	-	100	-	22	-	16.9	10.5	-

d Blow-off gate in dam open; discharge computed on basis of records for station at Milltown and for Black River near Pottersville.

North Branch of Raritan River near Far Hills--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	43	12.2	8.9	8.4	18.2	78	63	219	30	22	206
2	21	20	15.1	8.9	8.9	16.9	66	66	284	27	18.2	107
3	19.6	14.5	24	8.4	8.9	23	84	80	149	27	16.9	47
4	16.9	14.5	18.9	7.9	8.9	148	143	119	119	37	16.3	37
5	12.7	53	13.9	7.9	9.5	84	164	68	102	31	16.3	31
6	11.1	88	13.3	7.4	10.0	60	172	60	92	26	18.2	27
7	10.5	32	12.2	7.9	12.2	55	110	55	82	24	27	26
8	10.0	22	10.5	7.9	12.7	50	291	52	74	22	23	25
9	9.5	17.6	10.5	8.4	11.6	51	259	55	74	21	18.2	32
10	9.5	15.1	15.1	7.9	12.2	53	140	52	71	20	15.1	30
11	8.9	14.5	18.2	7.9	96	40	119	50	68	121	13.3	27
12	8.4	14.5	15.1	7.9	31	34	184	45	63	111	13.3	24
13	8.9	15.7	13.3	8.9	21	36	178	45	57	44	19.3	23
14	8.4	16.9	15.7	27	16.9	155	136	45	50	31	31	22
15	7.4	16.3	13.9	245	10.0	1 070	119	41	50	27	19.6	21
16	7.0	16.3	13.9	30	15.7	121	110	70	45	27	16.3	20
17	7.9	15.1	12.7	17.1	17.6	82	102	128	41	27	16.3	19.6
18	7.4	11.6	12.7	b15	16.9	93	119	60	41	27	18.2	18.9
19	7.4	12.2	12.2	b13	22	137	119	52	46	24	18.9	18.2
20	7.9	11.6	16.4	b11	73	108	266	54	52	23	28	18.2
21	7.9	11.1	36	b10	52	82	290	122	37	22	19.6	18.2
22	10.0	10.5	19.6	b9	36	78	218	78	37	21	15.1	19.6
23	8.4	10.5	14.5	b9	27	68	149	78	31	19.6	14.5	18.2
24	7.4	12.4	12.2	b9	24	56	115	68	49	20	13.3	17.6
25	7.4	30	12.2	b9	23	45	96	60	52	20	12.7	113
26	7.4	24	11.6	b9.2	21	41	85	63	64	22	30	55
27	7.9	22	8.9	8.4	16.9	43	78	63	53	32	28	31
28	12.2	20	8.9	7.9	20	45	85	108	36	71	87	27
29	11.6	15.1	8.9	7.9	18.9	50	78	71	50	27	52	24
30	10.0	12.7	10.0	7.9	-	85	66	57	33	29	33	22
31	35	-	10.0	8.4	-	190	-	148	-	34	28	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	2 399	323	32	77.4	2.95	3.40
November	1 398	193	29	46.6	1.78	1.99
December	1 816	219	31	58.6	2.24	2.58
Calendar year 1934	19 610.5	762	9.5	53.7	2.05	28.00
January 1935	1 356	111	27	43.7	1.67	1.92
February	1 493	254	23	53.3	2.03	2.11
March	2 046	113	46	66.0	2.52	2.90
April	1 348	91	28	44.9	1.71	1.91
May	790	46	13	25.5	.973	1.12
June	477	30	10	15.9	.607	.68
July	1 055.6	255	7.6	34.0	1.29	1.49
August	410.9	24	8	13.3	.508	.58
September	624.4	111	8.9	20.8	.794	.88
Water year 1934-35	15 213.9	323	7.6	41.6	1.59	21.56
October 1935	798.3	333	8.9	25.8	.985	1.14
November	1 947	245	32	64.9	2.48	2.77
December	1 373	85	18	44.3	1.69	1.95
Calendar year 1935	13 719.2	333	7.6	37.6	1.44	19.45
January 1936	2 865	600	22	92.4	3.53	4.07
February	1 015	76	20	35.0	1.34	1.44
March	6 426	843	64	207	7.90	9.11
April	3 879	609	52	129	4.92	5.49
May	1 334	151	22	43.0	1.64	1.89
June	959	95	16	32.0	1.22	1.36
July	426.0	24	8.0	13.7	.523	.60
August	361.8	56	7.6	11.7	.447	.52
September	263.7	25	6.7	8.79	.335	.37
Water year 1935-36	21 647.8	843	6.7	59.1	2.26	30.71

North Branch of Raritan River near Far Hills--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	488.2	81	6.7	15.7	0.599	0.69
November	358.3	23	8.4	11.9	.454	.51
December	1 706.8	421	6.7	55.1	2.10	2.42
Calendar year 1936	20 082.8	843	6.7	54.9	2.10	28.47
January 1937	3 471	245	44	112	4.27	4.92
February	2 370	442	42	84.6	3.23	3.36
March	1 958	180	42	63.2	2.41	2.78
April	2 202	235	40	73.4	2.80	3.12
May	1 742	263	29	56.2	2.15	2.48
June	876.1	137	17.9	29.2	1.11	1.24
July	694.2	88	12.4	22.4	.855	.99
August	1 016.7	221	10.0	32.8	1.25	1.44
September	568.7	36	13.0	19.0	.725	.81
Water year 1936-37	17 452.0	442	6.7	47.8	1.82	24.76
October 1937	864.3	116	11.8	27.9	1.06	1.22
November	1 907.8	424	16.4	63.6	2.43	2.71
December	1 426	116	24	46.0	1.76	2.03
Calendar year 1937	19 096.8	442	10.0	52.3	2.00	27.10
January 1938	1 965	526	24	63.4	2.42	2.79
February	1 618	108	40	57.8	2.21	2.30
March	1 811	105	37	58.4	2.23	2.57
April	1 718	156	37	57.3	2.19	2.44
May	1 078	118	23	34.8	1.33	1.53
June	1 391	198	21	46.4	1.77	1.98
July	2 518	415	26	81.2	3.10	3.57
August	2 060	342	23	66.5	2.54	2.93
September	2 596.4	776	17.1	86.5	3.30	3.68
Water year 1937-38	20 953.5	776	11.8	57.4	2.19	29.75
October 1938	1 354	88	31	43.7	1.67	1.92
November	990	63	26	33.0	1.26	1.41
December	2 244	240	28	72.4	2.76	3.18
Calendar year 1938	21 343.4	776	17.1	58.5	2.23	30.30
January 1939	1 604	175	27	51.7	1.97	2.27
February	3 108	262	52	111	4.24	4.42
March	3 614	303	75	117	4.47	5.15
April	3 488	238	72	116	4.43	4.94
May	1 441	80	22	46.5	1.77	2.04
June	573.8	49	13.3	19.1	.729	.81
July	389.1	51	6.5	12.6	.481	.55
August	366.1	48	7.9	11.8	.450	.52
September	239.3	11.1	5.7	7.98	.305	.34
Water year 1938-39	19 411.3	303	5.7	53.2	2.03	27.55
October 1939	351.6	35	7.0	11.3	.431	.50
November	632.7	88	10.5	21.1	.805	.90
December	442.6	36	8.9	14.3	.546	.63
Calendar year 1939	16 250.2	303	5.7	44.5	1.70	23.07
January 1940	560.0	245	7.4	18.1	.691	.80
February	662.2	96	8.4	22.8	.870	.94
March	3 218.1	1 070	16.9	104	3.97	4.58
April	4 219	291	66	141	5.38	6.00
May	2 176	148	41	70.2	2.68	3.09
June	2 221	284	31	74.0	2.82	3.15
July	1 044.6	121	19.6	33.7	1.29	1.49
August	718.6	87	12.7	23.2	.885	1.02
September	1 125.5	206	17.6	37.5	1.43	1.60
Water year 1939-40	17 371.9	1 070	7.0	47.5	1.81	24.70

North Branch of Raritan River at Milltown

Location.- Water-stage recorder and, since Sept. 2, 1936, concrete control, lat. 40°34'10", long. 74°40'45", at Milltown, Somerset County, 400 feet upstream from State Highway 29 and 1½ miles upstream from confluence with South Branch. Datum of gage is 50.43 feet above mean sea level (United States Coast and Geodetic Survey datum). Prior to Sept. 2, 1936, staff gage at same site and datum.

Drainage area.- 190 square miles.

Records available.- June 1923 to September 1940.

Average discharge.- 17 years, 291 second-feet.

Extremes.- 1923-40: Maximum discharge, *16,500 second-feet Sept. 21, 1938 (gage height, 12.16 feet), by slope-area method; minimum observed, about 3 second-feet Nov. 28, 1930 (gage height, 1.72 feet).

Peak gage height and discharge during period of this report.-
1934: Oct. 6 (8 a.m.) 8.40 ft. from graph based on gage readings, *6,770 sec.-ft.
1936: Jan. 3 (5 p.m.) 11.35 ft. from floodmark, 14,400 sec.-ft.; Jan. 9 (12 p.m.) 9.00 ft., 8,080 sec.-ft.; Mar. 11 (12 p.m.) 10.50 ft., 11,900 sec.-ft.; Apr. 6 (2 p.m.) 9.00 ft., 8,080 sec.-ft.; Dec. 20 (8 a.m.) 8.60 ft., 7,190 sec.-ft.
1938: July 23 (4 p.m.) 8.92 ft., 7,900 sec.-ft.; Sept. 21 (8:40 p.m.) 12.16 ft., 16,500 sec.-ft.
1939: Feb. 3 (8:30 p.m.) 8.67 ft., 7,410 sec.-ft.
1940: Mar. 15 (8 a.m.) 11.62 ft., 15,100 sec.-ft.; Apr. 9 (12:30 a.m.) 8.72 ft., 7,450 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	795	184	1 400	b790	b153	326	273	180	73	57	138	62
2	592	238	630	555	b150	485	252	138	73	60	176	53
3	485	176	485	354	b149	433	224	184	68	53	171	96
4	426	520	710	184	b148	326	201	138	78	51	127	452
5	378	485	446	b176	b147	315	238	141	99	47	159	390
6	2 290	360	390	b210	b146	378	201	141	78	47	91	670
7	840	304	354	247	b145	384	243	156	91	44	96	555
8	555	262	326	262	b146	354	192	152	78	205	115	224
9	466	243	288	354	b147	299	299	180	115	3 050	91	192
10	414	210	262	752	b148	299	201	145	88	980	80	167
11	390	219	b234	452	b150	315	354	134	88	752	115	163
12	349	201	b217	321	b160	555	555	134	73	592	83	121
13	310	188	b380	b250	b172	520	304	156	83	390	66	102
14	288	192	b260	b210	485	349	390	134	73	384	73	96
15	268	167	228	b202	4 510	315	278	105	64	321	64	70
16	247	171	247	b193	1 080	360	294	102	68	252	62	70
17	238	167	224	b186	555	360	278	102	68	252	60	80
18	228	167	205	b190	670	349	262	99	159	171	60	70
19	233	159	485	b200	452	228	184	99	176	171	55	62
20	210	163	630	b220	332	321	188	83	180	163	57	66
21	201	163	349	b339	326	485	184	75	152	127	55	62
22	268	159	315	932	b270	378	214	78	93	131	60	51
23	228	167	304	402	b260	332	224	73	73	134	53	57
24	219	214	283	b190	299	332	262	70	70	378	55	62
25	188	180	257	b210	332	304	156	66	68	188	51	51
26	197	176	630	b198	752	278	184	73	55	238	62	62
27	219	176	294	b186	b350	273	184	73	53	167	53	57
28	201	184	b250	b175	b248	278	156	73	64	149	62	51
29	176	192	b228	b169	-	360	159	83	66	134	57	57
30	184	1 640	b215	b162	-	273	197	78	55	105	53	53
31	176	-	b210	b155	-	304	-	73	-	121	62	-

* Revised; supersedes figure published in Water Supply Papers of United States Geological Survey.
b Stage-discharge relation affected by ice.

North Branch of Raritan River at Milltown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	1 280	458	75	b135	b580	472	a246	166	143	c40	c44
2	59	629	458	72	b132	b560	443	a250	126	154	c36	45
3	55	404	354	3 010	b130	b560	510	340	133	143	c38	43
4	57	373	331	1 130	b145	b680	443	902	129	129	c36	46
5	46	282	b300	a900	b210	b880	480	328	129	92	c36	41
6	46	228	b270	a600	b200	b740	3 910	312	116	87	c40	40
7	53	163	247	a450	b190	b660	1 460	239	a116	80	c46	40
8	53	200	232	300	b175	b600	1 190	290	a116	70	c44	41
9	33	159	282	1 960	b130	614	1 010	284	a116	70	c40	43
10	46	126	282	2 570	b120	1 130	1 070	181	a116	64	c34	46
11	33	98	252	658	b120	3 270	1 190	190	a126	68	c48	43
12	46	191	228	494	b120	7 190	902	181	151	90	c44	35
13	33	282	257	457	b120	2 140	a800	207	253	77	c38	33
14	46	232	205	389	b120	1 300	703	224	377	90	c50	36
15	37	257	214	423	b260	799	a630	a200	290	92	c52	33
16	33	214	247	423	b240	751	a560	a190	211	77	c159	33
17	53	a250	214	658	b230	799	a500	181	166	66	c64	36
18	53	a530	b195	573	b280	2 570	a465	a180	658	77	c44	40
19	30	a460	b190	389	b210	1 760	a425	a190	389	77	c40	119
20	37	a500	b190	358	b160	1 190	a390	207	430	62	c38	64
21	27	418	b150	b230	b165	1 860	a365	181	253	72	c38	59
22	46	336	126	b200	b170	1 250	a340	162	224	60	c44	50
23	48	247	b119	b180	b180	850	a325	143	211	77	c50	46
24	57	304	b114	b170	b190	799	a310	143	181	62	c307	46
25	46	272	b109	b190	b210	703	a295	207	224	66	c100	45
26	53	247	b106	b175	b300	658	a280	198	181	44	c100	43
27	57	277	b103	b165	b660	1 300	a265	224	97	a52	c80	45
28	46	320	b100	b155	b630	1 360	253	190	154	a52	c64	38
29	53	1 030	59	b150	b600	703	a250	166	143	c52	c61	33
30	547	287	59	b145	-	614	a248	154	109	c46	c64	45
31	3 700	-	72	b140	-	573	-	119	-	c38	c54	-

a No gage-height record; discharge computed on basis of records for nearby streams.
b Stage-discharge relation affected by ice.
c Coffer-dams in channel for erection of concrete control; discharge computed on basis of temporary staff-gage readings.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	h372	53	42	478	833	274	216	342	126	437	71	106
2	h250	57	70	300	476	268	206	300	119	154	60	99
3	h82	57	409	1 130	321	256	200	274	116	126	57	88
4	h66	62	158	505	342	256	185	250	123	116	53	82
5	h64	99	116	321	349	274	185	232	109	99	48	96
6	h55	93	134	268	328	256	1 080	232	116	96	50	116
7	h50	79	1 170	706	300	232	456	226	185	85	50	93
8	h57	74	236	637	286	232	349	206	133	79	55	85
9	h64	113	175	446	293	262	388	206	119	71	93	77
10	h106	96	162	879	321	211	420	200	106	66	64	71
11	h77	79	447	739	256	206	314	180	119	62	166	69
12	h71	71	646	446	226	190	274	171	119	77	272	66
13	h57	66	274	364	232	200	250	167	99	71	201	92
14	h50	64	200	328	356	200	238	509	137	66	113	133
15	h46	64	171	939	314	221	250	1 460	123	249	91	91
16	h46	64	150	545	256	388	244	476	106	366	82	79
17	328	60	900	526	216	423	216	404	93	146	69	77
18	216	57	286	1 360	206	404	206	356	106	123	60	71
19	123	48	190	627	200	436	221	314	109	109	64	66
20	102	57	3 740	486	200	466	195	286	96	93	123	66
21	96	57	669	535	216	1 120	240	250	115	85	144	60
22	88	55	420	1 320	2 560	586	981	216	741	74	444	57
23	77	55	300	1 240	679	420	711	206	180	66	1 860	60
24	66	55	286	769	545	372	396	195	137	71	577	57
25	60	57	256	1 540	476	404	335	175	119	60	349	57
26	62	66	232	787	396	404	300	167	106	64	250	57
27	62	62	211	596	356	307	1 080	162	91	113	307	57
28	57	46	190	495	300	286	787	154	99	79	216	57
29	60	60	167	466	-	256	486	154	109	66	154	62
30	57	39	162	412	-	238	388	146	159	62	133	60
31	57	-	443	999	-	226	-	133	-	77	123	-

h No recorder graph; discharge computed on basis of twice-daily readings of staff gage.

North Branch of Raritan River at Milltown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	137	314	221	322	222	232	154	102	307	342	137
2	55	130	274	283	253	250	211	150	99	274	342	119
3	53	123	244	267	282	232	200	141	106	221	268	106
4	55	113	221	195	356	189	185	137	109	185	244	106
5	57	106	211	185	274	243	175	133	102	158	232	99
6	99	106	355	175	268	335	171	130	102	137	1 530	93
7	85	96	349	687	625	262	190	123	93	123	1 110	88
8	64	96	221	401	349	232	340	113	766	119	515	96
9	60	96	195	244	307	211	1 100	119	209	116	388	85
10	62	91	158	190	342	206	594	146	146	109	314	85
11	69	88	132	211	268	184	380	141	201	109	596	82
12	64	85	124	195	244	206	314	130	195	119	357	85
13	60	1 780	126	200	286	216	286	119	330	126	256	88
14	60	1 730	132	185	321	527	262	119	262	116	226	91
15	57	555	154	169	262	1 000	238	752	175	206	211	93
16	55	436	175	146	208	632	216	257	141	157	190	96
17	55	364	270	171	201	842	200	175	123	113	275	85
18	57	307	772	136	211	658	372	154	771	123	447	91
19	74	262	379	93	284	446	607	141	222	123	211	516
20	461	262	274	158	1 010	396	314	141	158	671	175	3 130
21	220	238	244	130	436	356	274	137	133	1 230	162	7 040
22	133	200	226	162	356	314	262	130	119	2 440	154	3 340
23	515	180	221	162	582	286	238	126	325	4 810	141	977
24	346	171	200	324	615	274	211	123	244	2 560	133	722
25	185	162	367	4 010	388	244	200	162	133	898	126	535
26	154	162	268	912	300	244	190	137	649	658	123	428
27	137	171	216	566	300	244	180	282	1 360	555	119	372
28	540	1 060	211	456	244	216	175	185	1 770	644	116	342
29	276	778	211	358	-	206	167	146	640	458	113	286
30	185	380	190	342	-	206	158	130	380	722	109	262
31	154	-	190	406	-	226	-	113	-	349	106	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	244	154	238	232	466	1 300	505	388	102	96	88	53
2	216	158	206	226	396	754	1 660	342	99	71	77	48
3	206	150	190	221	3 070	627	690	321	96	69	64	43
4	195	146	1 470	206	1 820	576	566	300	96	60	88	41
5	185	162	1 880	195	765	848	476	274	99	64	62	41
6	206	171	1 930	1 280	637	932	1 580	268	93	60	48	39
7	328	185	776	505	722	617	1 630	256	85	64	50	34
8	211	171	596	372	658	505	743	274	85	62	55	37
9	195	175	596	328	576	486	658	256	85	57	53	60
10	185	162	701	a356	790	456	586	328	79	57	46	46
11	175	154	486	a310	1 370	388	545	256	82	48	43	43
12	171	150	436	a280	669	446	658	226	88	46	39	39
13	167	150	388	a250	535	857	456	221	88	48	39	39
14	167	146	335	a190	515	886	412	238	290	48	48	35
15	162	126	300	a220	1 220	817	396	216	126	48	48	35
16	158	123	256	a220	1 070	1 670	364	200	102	43	44	32
17	154	123	256	a210	545	831	364	190	93	43	44	29
18	154	133	268	a210	555	658	858	180	88	41	43	30
19	150	141	262	a200	535	566	2 320	171	93	39	48	29
20	154	286	232	a200	515	525	1 490	167	119	39	218	26
21	272	180	221	190	446	476	787	162	102	39	126	30
22	185	158	206	211	428	436	669	216	85	39	71	35
23	162	154	180	147	349	396	566	200	79	37	62	37
24	265	171	200	216	321	380	505	206	79	37	55	29
25	346	b190	190	216	307	356	446	175	71	37	74	30
26	216	195	175	139	1 080	342	420	162	74	35	64	30
27	195	211	1 380	195	895	328	436	150	69	59	57	30
28	195	216	357	171	2 000	773	727	137	66	214	57	37
29	200	216	274	190	-	446	456	126	64	137	57	43
30	180	232	256	1 650	-	930	396	116	100	99	60	54
31	171	-	238	1 280	-	735	-	109	-	113	62	-

a Faulty or no gage-height record; discharge computed on basis of records for station near Far Hills and for Black River near Pottersville.
b Stage-discharge relation affected by ice.

North Branch of Raritan River at Milltown--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	274	55	b39	46	b84	555	286	1 310	158	116	1 090
2	113	119	71	b35	50	96	380	300	2 540	141	99	497
3	109	99	130	b32	50	537	356	333	853	133	88	244
4	88	79	106	b30	50	2 810	760	535	648	180	79	200
5	74	455	85	b30	55	848	456	328	525	154	79	175
6	66	789	74	b29	57	552	328	280	436	126	77	150
7	55	216	69	b27	71	424	286	262	349	113	116	130
8	43	162	66	b25	77	349	1 640	232	314	109	93	116
9	43	130	57	b26	66	328	2 480	250	326	99	82	173
10	41	116	55	b27	77	323	743	221	477	96	79	133
11	39	a100	69	b29	b665	216	576	195	307	177	71	116
12	37	a90	70	b30	211	179	944	195	274	835	74	102
13	35	a80	68	b34	130	175	1 160	180	250	234	75	96
14	35	a72	85	b65	87	436	743	175	211	167	119	91
15	34	a68	79	b900	41	7 110	586	167	211	146	82	88
16	34	66	76	b200	102	1 020	515	333	211	141	74	91
17	34	66	71	b120	116	722	420	786	175	133	77	85
18	34	66	71	b90	102	658	446	300	171	126	85	93
19	35	62	69	b70	b195	743	456	250	175	113	93	77
20	35	64	136	a60	b890	617	1 820	238	200	99	116	74
21	39	62	265	a54	711	617	1 780	817	154	96	82	74
22	48	62	141	a52	393	476	1 220	512	146	93	71	82
23	48	64	106	a52	241	380	787	436	141	85	71	74
24	41	64	64	a52	b140	276	627	396	230	88	69	71
25	39	71	b52	a54	b115	240	525	349	232	88	60	1 150
26	41	74	b43	55	b94	229	456	372	265	93	149	473
27	44	74	b40	50	b80	216	396	342	274	149	119	200
28	66	66	b40	48	b86	211	356	1 050	255	198	391	162
29	64	64	b42	50	b84	221	314	476	413	116	249	150
30	57	57	b45	48	-	311	286	349	185	126	154	141
31	179	-	b42	48	-	1 160	-	1 140	-	133	137	-

a No gage-height record; discharge computed on basis of records for Raritan River at Manville.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	12 259	2 290	176	395	2.08	2.40
November	8 027	1 640	159	268	1.41	1.57
December	11 736	1 400	205	379	1.99	2.29
Calendar year 1934	114 729	7 670	44	314	1.65	22.47
January 1935	9 426	932	155	304	1.60	1.84
February	12 882	4 510	145	460	2.42	2.52
March	10 868	555	228	351	1.85	2.13
April	7 331	555	156	244	1.28	1.43
May	3 518	184	66	113	.595	.69
June	2 622	180	53	87.4	.460	.51
July	9 914	3 050	44	320	1.68	1.94
August	2 562	176	51	82.6	.435	.50
September	4 324	670	51	144	.758	.85
Water year 1934-35	95 469	4 510	44	262	1.38	18.67
October 1935	5 584	3 700	30	180	.947	1.09
November	10 596	1 280	98	353	1.86	2.08
December	6 523	458	59	210	1.11	1.28
Calendar year 1935	86 150	4 510	30	236	1.24	16.86
January 1936	17 789	3 010	72	574	3.02	3.48
February	6 532	660	120	225	1.18	1.27
March	39 443	7 190	560	1 272	6.69	7.71
April	20 484	3 910	248	683	3.59	4.00
May	7 209	902	119	233	1.23	1.42
June	6 091	658	97	203	1.07	1.19
July	2 429	154	38	78.4	.413	.48
August	1 929	307	34	62.2	.327	.38
September	1 351	119	33	45.0	.237	.26
Water year 1935-36	125 960	7 190	30	344	1.81	24.64

North Branch of Raritan River at Milltown--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	3 024	372	46	97.5	0.513	0.59
November	1 965	113	39	65.5	.345	.38
December	13 012	3 740	42	420	2.21	2.55
Calendar year 1936	121 258	7 190	33	331	1.74	23.71
January 1937	21 189	1 540	268	684	3.60	4.15
February	11 839	2 560	200	423	2.23	2.32
March	10 274	1 120	190	331	1.74	2.01
April	11 797	1 080	185	393	2.07	2.31
May	8 749	1 460	133	282	1.48	1.71
June	4 215	741	91	140	.737	.82
July	3 508	437	60	113	.595	.69
August	6 399	1 860	48	206	1.08	1.24
September	2 307	133	57	76.9	.405	.45
Water year 1936-37	98 278	3 740	39	269	1.42	19.22
October 1937	4 504	540	53	145	.763	.88
November	10 465	1 780	85	349	1.84	2.05
December	7 624	772	124	246	1.29	1.49
Calendar year 1937	102 870	2 560	48	282	1.48	20.12
January 1938	12 340	4 010	93	398	2.09	2.41
February	9 894	1 010	201	353	1.86	1.94
March	10 305	1 000	184	332	1.75	2.02
April	8 642	1 100	158	288	1.52	1.70
May	5 146	752	113	166	.874	1.01
June	10 165	1 770	93	339	1.78	1.99
July	18 936	4 810	109	611	3.22	3.71
August	9 631	1 530	106	311	1.64	1.89
September	19 675	7 040	82	656	3.45	3.85
Water year 1937-38	127 327	7 040	53	349	1.84	24.94
October 1938	6 170	346	150	199	1.05	1.21
November	5 089	286	123	170	.895	1.00
December	15 479	1 930	175	499	2.63	3.03
Calendar year 1938	131 472	7 040	82	360	1.89	25.76
January 1939	10 816	1 650	139	349	1.84	2.12
February	23 255	3 070	307	831	4.37	4.55
March	20 343	1 670	328	656	3.45	3.98
April	22 365	2 320	364	746	3.93	4.38
May	6 831	388	109	220	1.16	1.34
June	2 877	290	64	95.9	.505	.56
July	1 949	214	35	62.9	.331	.38
August	1 990	218	39	64.2	.338	.39
September	1 134	60	26	37.8	.199	.22
Water year 1938-39	118 298	3 070	26	324	1.71	23.16
October 1939	1 766	179	34	57.0	.300	.35
November	3 831	789	62	128	.674	.75
December	2 442	265	40	78.8	.415	.48
Calendar year 1939	99 599	3 070	26	273	1.44	19.50
January 1940	2 461	900	25	79.4	.418	.48
February	5 082	890	41	175	.921	.99
March	22 564	7 110	84	728	3.83	4.42
April	22 397	2 480	286	747	3.93	4.38
May	12 085	1 140	167	390	2.05	2.36
June	12 258	2 540	141	409	2.15	2.40
July	4 745	835	85	153	.805	.93
August	3 326	391	60	107	.563	.65
September	6 398	1 150	71	213	1.12	1.25
Water year 1939-40	99 355	7 110	25	271	1.43	19.44

Black River near Pottersville

Location.- Water-stage recorder and, since July 8, 1937, concrete control, lat. 40°43'39", long. 74°43'50", 1 mile upstream from highway bridge in Pottersville, Somerset County, and 8 miles upstream from Rockaway Creek. Datum of gage is 284.14 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 32.8 square miles (revised).

Records available.- June 1922 to September 1940. November 1921 to June 1922 at site at Pottersville, 1 mile downstream.

Average discharge.- 19 years, 55.3 second-feet.

Extremes.- 1921-40: Maximum discharge, 1,600 second-feet Nov. 17, 1927 (gage height, 4.75 feet), from rating curve extended above 800 second-feet; maximum gage height, 5.34 feet Mar. 15, 1940; minimum discharge, 1.3 second-feet Oct. 4, 1930.

Peak gage height and discharge during period of this report.-

1935: Feb. 14 (9 a.m.) 3.45 ft., 658 sec.-ft.; July 8 (3:30 p.m.) 3.50 ft., 783 sec.-ft.; July 9 (10 a.m.) 3.47 ft., 763 sec.-ft.; Oct. 30 (9 p.m.) 3.36 ft., 692 sec.-ft.; Oct. 31 (11 a.m.) 2.95 ft., 454 sec.-ft.

1936: Jan. 3 (8 a.m.) 4.19 ft. caused by ice jam; Jan. 9 (4 p.m.) 2.92 ft. caused by ice jam; Mar. 12 (4:30 to 9 p.m.) 3.55 ft., 818 sec.-ft.; Mar. 18 (4 a.m.) 2.86 ft., 408 sec.-ft.; Mar. 21 (6 a.m.) 2.80 ft., 379 sec.-ft.; Apr. 6 (9 a.m.) 3.38 ft., 704 sec.-ft.

1937: Feb. 22 (3:30 a.m.) 2.92 ft., 438 sec.-ft.

1938: Jan. 25 (2 a.m.) 3.39 ft., 478 sec.-ft.; Sept. 21 (4:40 p.m.) 3.97 ft., 760 sec.-ft.

1939: Apr. 19 (4:30 p.m.) 3.13 ft., 373 sec.-ft.

1940: Jan. 15 (1 a.m.) 3.54 ft. caused by ice jam; Mar. 15 (1 a.m.) 5.34 ft., 1,570 sec.-ft.; June 1 (7 p.m.) 3.13 ft., 373 sec.-ft.; July 11 (6:30 p.m.) 3.27 ft., 428 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	182	59	151	90	a43	b67	62	40	18.8	20	33	16.4
2	185	57	133	72	a42	77	60	39	17.8	18.3	47	15.9
3	173	52	129	b62	42	82	54	39	16.2	15.4	38	22
4	140	112	136	b54	41	74	51	37	17.2	13.6	32	95
5	117	101	118	b50	39	72	49	36	19.4	12.2	30	86
6	205	85	104	b57	39	77	48	36	a19.2	11.4	30	86
7	142	85	91	68	b43	77	46	44	18.8	10.6	30	82
8	120	82	78	74	43	76	45	46	19.4	161	28	75
9	115	76	71	85	41	72	57	44	31	333	26	67
10	108	69	b65	124	42	67	60	41	29	188	24	58
11	101	62	61	104	42	69	60	36	28	155	25	45
12	91	56	b56	91	44	101	66	33	25	161	24	37
13	81	52	53	78	42	101	71	31	20	161	23	30
14	74	51	47	b66	78	96	63	30	17.2	126	23	25
15	69	47	47	b57	188	89	60	29	15.4	101	21	23
16	66	46	47	b52	120	88	57	27	14.0	82	21	21
17	62	44	49	55	168	84	53	26	13.6	67	20	20
18	61	43	50	52	144	74	50	24	22	58	19.0	19.0
19	58	43	99	56	129	73	47	23	30	50	18.4	18.4
20	56	42	110	54	102	73	44	23	40	a47	18.4	18.4
21	55	42	84	62	81	87	42	22	35	a44	19.0	17.9
22	63	42	b74	95	76	81	42	22	36	a45	19.5	17.9
23	57	43	b66	74	67	78	41	21	31	a46	18.4	16.9
24	54	53	b63	54	60	77	39	21	25	a120	17.4	16.4
25	54	49	b60	b49	66	73	37	21	19.9	66	16.4	15.4
26	56	48	91	b48	94	69	35	21	16.2	65	15.4	15.4
27	57	48	67	b47	69	63	34	19.9	17.0	51	15.4	15.4
28	55	47	b56	b46	b60	63	33	19.4	21	47	16.4	15.4
29	54	53	64	b45	-	68	30	18.8	19.4	44	15.9	15.9
30	51	143	64	a44	-	63	40	19.4	20	41	16.9	15.9
31	50	-	64	a43	-	62	-	19.4	-	37	17.4	-

a No gage-height record; discharge computed on basis of records for nearby streams.
b Stage-discharge relation affected by ice.

Black River near Pottersville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14.7	186	111	b28	b30	95	132	68	a28	30	10.5	13.8
2	15.7	170	107	b35	b30	94	129	66	28	27	10.2	12.5
3	15.2	145	98	b400	b29	83	127	89	28	26	9.8	11.7
4	14.7	117	83	201	b32	104	117	128	29	24	10.2	11.3
5	14.3	95	70	196	b39	124	114	107	29	22	10.2	11.3
6	14.3	75	60	159	b38	101	409	101	28	21	10.2	10.5
7	15.2	61	56	122	b37	89	312	94	26	19.4	10.5	9.8
8	15.2	58	54	100	b36	88	285	83	24	18.3	10.2	9.8
9	15.2	52	61	172	b32	100	225	72	23	17.2	9.8	10.9
10	14.7	49	65	155	b27	166	212	64	23	17.2	9.1	10.9
11	14.7	46	65	114	b27	460	206	58	30	25	10.2	10.2
12	15.2	52	64	109	b27	763	191	53	39	24	9.5	9.5
13	14.3	62	60	115	b27	648	186	64	60	19.4	9.5	8.8
14	13.8	61	59	107	b35	413	170	75	71	22	9.5	7.0
15	13.8	56	63	138	b56	281	151	66	75	20	11.7	7.3
16	13.8	51	79	142	54	212	142	62	70	18.3	11.0	9.1
17	13.8	62	70	112	51	186	129	59	62	16.7	9.8	9.1
18	13.8	75	66	107	59	317	120	53	82	15.2	9.8	11.9
19	13.8	79	62	90	b41	288	114	52	104	15.2	9.1	18.8
20	13.8	94	57	71	b38	280	107	52	71	15.7	8.8	18.3
21	14.3	95	42	b50	b39	318	101	48	64	16.2	8.5	16.7
22	14.3	86	b37	b45	b40	256	98	46	58	15.2	8.8	14.3
23	15.2	82	b34	b41	b43	222	92	42	52	14.7	13.2	12.5
24	17.2	75	b31	b39	48	201	88	38	48	16.2	29	11.7
25	16.7	70	b29	b43	50	174	83	37	44	15.2	18.8	11.3
26	16.6	65	b27	b39	91	157	82	a37	39	14.7	19.4	11.3
27	15.2	61	b26	b37	107	208	79	a36	34	14.3	20	9.1
28	15.2	84	b25	b35	95	209	75	a36	30	13.8	19.4	8.5
29	15.7	149	b25	b34	90	176	73	a35	29	12.9	18.3	8.8
30	196	112	b25	b33	-	166	71	a33	28	12.1	17.7	13.6
31	304	-	b26	b32	-	149	-	a30	-	11.3	15.7	-

a No gage-height record; discharge computed on basis of records for North Branch of Raritan River near Far Hills and Passaic River near Millington.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	15.2	b10	64	a130	70	57	80	36	c49	17.3	20
2	33	15.2	b16	61	a90	67	54	71	34	c49	15.2	18.0
3	31	14.7	49	95	a75	66	52	62	33	c49	14.1	16.6
4	29	17.7	39	82	b75	64	51	58	33	c43	13.5	15.9
5	21	29	33	68	80	64	52	53	32	c32	13.0	19.1
6	14.7	30	38	61	75	64	142	52	37	c24	13.0	23
7	13.4	27	85	82	70	61	111	51	47	c20	11.4	23
8	14.3	25	52	83	68	60	106	50	46	18.0	11.4	19.6
9	15.2	30	b43	72	70	61	112	50	43	16.6	13.0	17.3
10	19.4	29	b40	85	73	57	107	49	c32	15.9	14.1	15.9
11	22	24	60	88	68	54	89	48	c35	16.6	24	15.2
12	20	20	66	76	65	51	79	45	c35	18.0	47	14.6
13	16.2	18.3	56	70	65	49	72	52	a30	17.3	45	18.8
14	14.3	17.2	51	66	76	49	66	127	c32	18.8	41	24
15	13.4	16.7	46	90	72	50	66	180	c32	52	40	25
16	13.4	16.7	37	83	68	50	66	142	c32	52	34	24
17	42	15.7	61	86	60	52	64	144	c35	45	22	18.8
18	44	14.7	50	124	62	54	61	131	c29	45	14.6	17.3
19	42	b12	46	107	57	61	59	109	a31	43	20	15.9
20	41	12.9	199	98	53	74	57	89	a29	34	28	15.2
21	40	13.8	114	94	58	122	45	75	a45	25	24	14.1
22	33	13.8	96	117	203	114	114	66	c92	19.6	35	14.1
23	22	13.8	92	126	134	106	109	60	c63	18.8	110	13.5
24	18.3	13.8	86	117	136	104	98	56	c58	17.3	77	13.0
25	16.7	13.8	73	155	131	106	95	51	c52	17.3	64	13.0
26	16.2	15.7	64	136	104	98	83	48	c32	22	60	11.4
27	16.2	b14	54	124	90	83	96	45	c26	23	60	11.9
28	16.2	b12	49	111	78	78	96	44	c26	21	51	11.4
29	16.2	b13	44	103	-	70	90	44	c29	19.6	37	13.0
30	15.7	b11.5	40	94	-	64	86	42	c32	16.6	28	13.0
31	15.7	-	55	a140	-	60	-	38	-	21	23	-

a No gage-height record; discharge computed on basis of weather records and records for North Branch of Raritan River near Far Hills.
b Stage-discharge relation affected by ice.
c Concrete control in process of erection; discharge computed on basis of readings of temporary staff gage and rating for partly obstructed control.

Black River near Pottersville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13.0	41	85	45	85	47	66	43	27	85	81	32
2	12.4	34	81	46	75	59	66	41	25	73	79	27
3	11.9	30	72	51	81	59	66	40	29	59	73	26
4	11.9	27	62	45	87	48	62	38	30	45	72	25
5	12.4	25	56	43	77	57	56	37	29	31	70	22
6	20	25	64	41	77	70	51	36	26	26	99	20
7	18.8	24	68	77	107	68	51	33	40	24	94	19.6
8	16.6	24	54	73	92	66	60	31	96	22	81	19.6
9	14.6	23	54	54	87	62	109	32	62	21	73	18.8
10	14.6	23	48	54	87	56	109	40	51	20	68	18.8
11	14.6	23	40	54	77	51	100	41	43	19.6	72	18.0
12	14.6	22	37	48	72	51	96	38	42	22	62	17.3
13	14.6	135	30	45	75	54	87	34	46	24	56	18.8
14	14.1	159	29	42	77	77	77	35	54	27	51	18.8
15	14.1	132	32	40	72	98	68	103	43	29	48	19.6
16	13.5	144	41	34	62	100	60	75	32	26	43	19.6
17	13.5	132	56	40	59	116	56	68	27	22	43	19.6
18	13.0	107	98	32	59	114	79	61	39	20	45	20
19	32	87	79	29	66	102	98	52	37	23	41	62
20	89	75	73	37	98	94	83	42	30	47	36	185
21	68	66	72	34	79	89	81	38	24	97	32	323
22	57	59	66	38	73	81	81	36	22	123	30	302
23	105	52	59	40	87	77	73	34	22	187	29	263
24	94	49	52	88	94	72	66	37	25	208	27	227
25	70	46	59	344	79	68	60	43	26	172	26	183
26	59	45	57	222	70	66	56	46	33	157	25	144
27	56	43	54	194	70	64	51	59	85	142	24	116
28	72	100	52	165	59	62	49	54	104	130	22	96
29	57	102	49	127	-	59	46	49	92	111	21	79
30	49	87	46	104	-	57	45	40	87	102	21	72
31	46	-	45	104	-	60	-	30	-	87	21	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	49	51	67	80	190	118	104	29	24	35	19.3
2	60	46	54	63	71	167	176	96	28	23	31	17.9
3	59	44	48	63	161	149	137	92	27	21	23	15.3
4	a58	41	109	60	170	134	129	86	27	17.9	19.3	14.1
5	a56	46	129	57	134	139	122	80	26	16.6	15.9	12.9
6	a60	51	192	121	124	159	168	76	24	16.6	14.1	12.3
7	a75	54	152	96	120	139	173	72	23	17.2	12.9	11.7
8	a65	49	149	94	113	127	149	69	22	16.6	12.3	14.3
9	a60	54	142	94	107	122	144	74	21	16.6	12.3	14.7
10	a55	52	132	92	107	113	134	84	21	14.7	12.3	13.5
11	54	49	113	82	137	102	124	76	23	13.5	11.7	12.9
12	54	48	104	72	111	98	127	76	22	12.9	10.7	11.7
13	52	45	96	63	102	100	113	74	27	12.3	10.7	10.7
14	49	42	88	49	109	104	109	72	44	12.9	13.5	10.7
15	48	41	80	54	150	129	107	65	34	12.3	12.9	10.2
16	45	39	71	55	147	201	100	62	33	11.7	12.3	9.8
17	43	40	65	55	113	173	102	58	32	11.2	11.2	9.3
18	42	40	67	55	118	159	124	55	30	10.7	10.7	8.9
19	42	46	67	54	122	142	182	52	27	9.8	14.8	8.9
20	47	60	63	50	118	129	190	49	29	9.8	32	8.4
21	62	54	62	48	109	118	165	53	27	10.2	27	10.7
22	52	51	58	52	107	111	154	71	25	10.2	26	11.7
23	49	52	49	46	92	104	134	69	23	9.8	27	10.7
24	72	54	52	52	84	102	118	67	23	9.8	25	9.8
25	79	44	52	49	82	98	111	65	23	9.3	23	9.3
26	68	49	51	51	132	96	107	60	23	9.8	23	9.3
27	66	49	116	42	134	92	102	52	21	17.2	25	11.3
28	66	49	72	41	177	127	120	42	18.6	24	29	14.7
29	64	58	65	45	-	111	109	37	17.9	22	31	14.7
30	59	49	69	100	-	127	104	34	26	30	29	21
31	54	-	69	98	-	129	-	30	-	34	23	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for North Branch of Raritan River near Far Hills.

Black River near Pottersville--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	44	14.7	b14	13.5	22	118	74	164	55	a47	120
2	34	39	21	b13	12.9	22	115	76	197	51	a41	94
3	37	39	32	b13	13.5	27	111	76	152	46	a36	88
4	36	34	30	b12	14.1	104	120	88	139	51	29	92
5	33	56	25	b12	14.7	78	96	86	122	45	25	84
6	26	72	20	11.7	15.3	76	84	84	102	41	23	71
7	17.9	54	17.9	10.7	18.6	76	76	82	88	37	28	57
8	14.7	52	17.2	11.2	18.6	72	142	74	78	35	27	46
9	13.5	52	15.9	11.7	17.9	69	189	71	100	31	28	46
10	12.9	46	15.9	12.3	22	65	144	65	94	28	30	39
11	12.3	36	21	14.1	95	51	139	60	74	74	30	35
12	11.7	23	20	15.9	40	45	154	57	71	58	26	33
13	11.7	21	17.9	16.6	b32	45	154	54	65	48	24	32
14	11.7	19.3	21	44	b25	200	134	52	60	46	23	32
15	11.2	17.9	18.6	b139	b20	663	124	51	58	48	23	30
16	10.7	17.9	17.2	62	b25	373	115	70	55	46	25	29
17	10.7	17.9	17.2	b30	b27	253	104	94	51	41	27	27
18	10.7	17.2	17.9	b22	b28	187	100	78	48	35	26	25
19	10.7	17.2	18.6	b20	34	176	96	78	53	31	28	24
20	10.7	16.6	34	a16	45	152	159	103	51	28	27	23
21	10.7	15.9	45	a15	41	147	170	157	46	25	24	23
22	11.2	15.9	39	a14	38	132	165	122	45	23	26	22
23	12.9	16.6	30	a14	39	109	154	120	44	23	28	20
24	11.7	16.6	18.6	a14	37	82	139	115	58	23	28	20
25	10.7	15.9	17.2	a14	36	76	122	104	57	23	24	69
26	10.7	15.3	15.3	b14	34	71	109	96	78	32	35	57
27	11.2	15.3	11.2	b13	30	62	98	90	74	36	30	45
28	14.7	15.3	12.3	b12	27	60	90	107	65	34	67	48
29	16.6	15.3	14.7	b12	25	60	84	94	72	33	57	51
30	15.9	14.7	15.3	b12	-	84	78	86	60	45	52	48
31	36	-	14.7	b12	-	142	-	113	-	a52	54	-

a No gage-height record; discharge computed on basis of records for stations on North Branch of Raritan River.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	2 812	205	50	90.7	2.77	3.19
November	1 832	143	42	61.1	1.86	2.08
December	2 448	151	47	79.0	2.41	2.78
Calendar year 1934	22 721.0	378	12.6	62.2	1.90	25.64
January 1935	2 008	124	43	64.8	1.98	2.28
February	2 045	188	39	73.0	2.23	2.32
March	2 373	101	62	76.5	2.33	2.69
April	1 476	71	30	49.2	1.50	1.67
May	908.9	46	18.8	29.3	.893	1.03
June	672.5	40	13.6	22.4	.682	.76
July	2 397.5	333	10.6	77.3	2.36	2.72
August	718.9	47	15.4	23.2	.707	.81
September	1 022.6	95	15.4	34.1	1.04	1.16
Water year 1934-35	20 714.4	333	10.6	56.8	1.73	23.49
October 1935	930.4	304	13.8	30.0	.915	1.05
November	2 525	186	46	84.2	2.57	2.87
December	1 737	111	25	56.0	1.71	1.97
Calendar year 1935	18 814.8	333	10.6	51.5	1.57	21.33
January 1936	3 101	400	32	100	3.05	3.52
February	1 348	107	27	46.5	1.42	1.53
March	7 128	763	83	230	7.01	8.08
April	4 420	409	71	147	4.48	5.00
May	1 884	128	30	60.8	1.85	2.13
June	1 356	104	23	45.2	1.38	1.54
July	570.2	30	11.3	18.4	.561	.65
August	388.4	29	8.5	12.5	.381	.44
September	340.3	18.8	7.0	11.3	.345	.38
Water year 1935-36	25 728.3	763	7.0	70.3	2.14	29.16

Black River near Pottersville--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	726.5	44	13.4	23.4	0.713	0.82
November	536.2	30	11.5	17.9	.546	.61
December	1 844	199	10	59.5	1.81	2.09
Calendar year 1936	23 642.6	763	7.0	64.6	1.97	26.79
January 1937	2 958	155	61	95.4	2.91	3.36
February	2 386	203	53	85.2	2.60	2.71
March	2 183	122	49	70.4	2.15	2.48
April	2 435	142	45	81.2	2.48	2.77
May	2 212	180	38	71.4	2.18	2.51
June	1 148	92	26	38.3	1.17	1.30
July	879.4	52	15.9	28.4	.866	1.00
August	1 020.6	110	11.4	32.9	1.00	1.15
September	505.6	25	11.4	16.9	.515	.57
Water year 1936-37	18 834.3	203	10	51.6	1.57	21.37
October 1937	1 112.2	105	11.9	35.9	1.09	1.26
November	1 941	159	22	64.7	1.97	2.20
December	1 770	98	29	57.1	1.74	2.01
Calendar year 1937	20 550.8	203	11.4	56.3	1.72	23.32
January 1938	2 390	344	29	77.1	2.35	2.71
February	2 183	107	59	78.0	2.38	2.48
March	2 204	116	47	71.1	2.17	2.50
April	2 108	109	45	70.3	2.14	2.39
May	1 386	103	30	44.7	1.36	1.57
June	1 328	104	22	44.3	1.35	1.51
July	2 181.6	208	19.6	70.4	2.15	2.48
August	1 565	99	21	50.5	1.54	1.78
September	2 432.5	323	17.3	81.1	2.47	2.76
Water year 1937-38	22 601.3	344	11.9	61.9	1.89	25.65
October 1938	1 779	79	42	57.4	1.75	2.02
November	1 445	60	39	48.2	1.47	1.64
December	2 687	192	48	86.7	2.64	3.04
Calendar year 1938	23 689.1	344	17.3	64.9	1.98	26.88
January 1939	2 020	121	41	65.2	1.99	2.29
February	3 331	177	71	119	3.63	3.78
March	3 991	201	92	129	3.93	4.53
April	3 952	190	100	132	4.02	4.48
May	2 052	104	30	66.2	2.02	2.33
June	776.5	44	17.9	25.9	.790	.88
July	487.6	34	9.3	15.7	.479	.55
August	616.6	35	10.7	19.9	.607	.70
September	370.7	21	8.4	12.4	.378	.42
Water year 1938-39	23 508.4	201	8.4	64.4	1.96	26.66
October 1939	533.4	37	10.7	17.2	.524	.60
November	848.8	72	14.7	28.3	.863	.96
December	646.3	45	11.2	20.8	.634	.73
Calendar year 1939	19 625.9	201	8.4	53.8	1.64	22.25
January 1940	647.2	139	10.7	20.9	.637	.73
February	838.1	95	12.9	28.9	.881	.95
March	3 781	663	22	122	3.72	4.29
April	3 683	189	76	123	3.75	4.18
May	2 677	157	51	86.4	2.63	3.03
June	2 421	197	44	80.7	2.46	2.74
July	1 224	74	23	39.5	1.20	1.38
August	998	67	23	32.2	.982	1.13
September	1 430	120	20	47.7	1.45	1.62
Water year 1939-40	19 727.8	663	10.7	53.9	1.64	22.34

Lake Carnegie at Princeton

Location.- Staff gage above dam, lat. 40°22'10", long. 74°37'20", at Kingston Dam on Millstone River, 2 miles northeast of Princeton, Mercer County. Datum of gage is 51.86 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 159 square miles.

Records available.- October and November 1924, May 1925, and January 1926 to September 1940.

Extremes.- 1924-40: Maximum stage, 4.20 feet Sept. 21, 1938, from floodmarks on dam.

Remarks.- Elevation of crest of lower spillway is zero gage height. Gage read once a day usually about 8 a.m.

Cooperation.- Record furnished by Princeton University.

Daily gage height, in feet, 1924-40

1924-25

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	0.20						0.33				
2	-	.20						.33				
3	-	.20						.29				
4	-	.19						.27				
5	-	.19						.29				
6	-	.19						.25				
7	-	.19						.27				
8	-	.19						.27				
9	-	.18						.25				
10	-	.18						.27				
11	-	.21						.25				
12	-	.21						.38				
13	-	.21						.33				
14	-	.18						.29				
15	-	.17						.31				
16	-	.17						.31				
17	-	.17						.27				
18	-	.17						.25				
19	-	.17						.25				
20	0.25	.17						.25				
21	-	.17						.25				
22	-	.17						.25				
23	-	.25						.23				
24	-	.29						.21				
25	-	.29						.29				
26	-	.25						.27				
27	.23	.25						.27				
28	.22	.21						.25				
29	.22	.21						.25				
30	.21	.21						.27				
31	.21	-						.25				

Note.- Record started Oct. 20. No record Oct. 21-26, Dec. 1 to Apr. 30 and June 1 to Sept. 30.

Lake Carnegie at Princeton--Continued

Daily gage height, in feet, 1924-40--Continued

1926

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0.23	0.38	0.62	0.62	0.25	0.38	0.12	0.21	0.21
2				.21	.35	.67	.42	.25	.33	.12	.21	.19
3				.10	.27	.58	.38	.25	.33	-	.17	.38
4				.08	.31	.56	.34	.25	.29	-	.17	.29
5				.12	.29	.54	.38	25	.25	-	.15	.27
6				.21	.27	.50	.35	.25	.25	-	.08	.29
7				.23	.25	.38	.33	.25	.25	.12	.12	2.12
8				.23	.23	.79	.33	.25	.25	.15	.15	.67
9				.25	.21	.67	.62	.25	.25	.17	.12	.46
10				.23	.21	.58	.58	.25	.25	.17	.10	.46
11				.23	.19	.50	.54	.25	.25	.17	.08	.48
12				.25	.21	.48	.38	.25	.25	.12	.04	.40
13				.23	.21	.38	.35	.25	.23	.12	.79	.35
14				.25	.23	.35	.35	.25	.23	.10	.75	.38
15				.25	.38	.35	.35	.27	.25	.08	.69	.38
16				.25	.54	.33	.33	.31	.25	.17	.62	.33
17				.27	.54	.33	.31	.40	.21	.17	.40	.21
18				.27	.50	.31	.29	.38	.17	.17	.38	.21
19				.65	.85	.31	.29	.35	.17	.17	.38	.19
20				.42	.88	.31	.27	.29	.21	.21	.38	.19
21				.38	.75	.31	.27	.29	.17	.17	.38	.19
22				.73	.62	.29	.27	.29	.17	.12	.35	.19
23				.54	.54	.29	.25	.29	.17	.08	.35	.17
24				.42	.38	.31	.25	.29	.25	.08	.35	.19
25				.40	.71	.33	.29	.33	.29	.17	.38	.21
26				.31	1.29	.35	.27	.29	.25	.25	.33	.21
27				.24	1.02	.40	.31	.25	.25	.17	.35	.21
28				.19	.71	.38	.29	.25	.17	.12	.38	.21
29				.19	-	.38	.29	.25	.21	.12	.27	.21
30				.17	-	.35	.29	.25	.17	.17	.23	.21
31				.17	-	.35	-	.27	-	.21	.21	-

Note.- No record Oct. 1 to Dec. 31 and July 3-6.

1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.21	0.71	0.58	0.56	0.33	0.54	0.29	0.29	0.25	0.21	0.79	0.62
2	.19	.56	.54	.50	.33	.54	.27	.29	.25	.21	.50	.58
3	.17	.31	.50	.33	.27	.40	.33	.33	.25	.23	.42	.54
4	.19	.31	.38	.35	.27	.38	.29	.29	.23	.21	.38	.42
5	.19	.29	.33	.35	.27	.35	.29	.33	.29	.21	.33	.38
6	.21	.27	.31	.33	.25	.33	.38	.29	.29	.19	.27	.35
7	.21	.25	.29	.33	.29	.42	.31	.31	.27	.23	.25	.33
8	.21	.23	.29	.31	.33	.42	.33	.31	.27	.21	.23	.33
9	.19	.19	.27	.29	.33	.54	.27	.31	.25	.21	1.29	.29
10	.19	.79	.25	.27	.33	.38	.25	.25	.25	.19	.62	.25
11	.17	.54	.25	.27	.31	.33	.25	.29	.21	.21	.42	.25
12	.12	.50	.25	.25	.29	.33	.31	.29	.21	.21	.42	.25
13	.12	.38	.23	.21	.27	.33	.27	.27	.21	.21	.42	.25
14	.15	.35	.25	.19	.27	.31	.25	.27	.19	.17	.44	.23
15	.19	.33	.25	-	.33	.29	.25	.25	.23	.17	.54	.23
16	.17	.35	.27	-	.54	.27	.25	.27	.23	.15	.50	.23
17	.17	.92	.31	.38	.54	.25	.25	.27	.23	.33	.50	.25
18	.15	.67	.27	.35	.58	.25	.27	.25	.19	.25	.54	.25
19	.15	.62	.27	.38	.62	.29	.25	.25	.25	.23	.50	.25
20	.15	.58	.25	.40	.67	.29	.25	.29	.58	.21	.42	.29
21	.23	.54	.25	.88	.54	.27	.25	.27	.50	.17	.42	.27
22	.29	.52	.27	.79	.54	.33	.27	.25	.38	.17	.38	.27
23	.25	.50	.29	.75	.56	.38	.33	.25	.33	.29	.38	.25
24	.25	.38	.29	.67	.79	.31	.31	.25	.27	.75	.33	.23
25	.25	.38	.31	.56	.79	.29	.29	.35	.25	.42	.33	.23
26	.54	.35	.54	.54	1.04	.25	.27	.56	.25	.33	.33	.23
27	.40	.60	.62	.35	.79	.25	.25	.38	.23	.31	.71	.21
28	.35	.40	.67	.35	.62	.25	.33	.33	.23	.25	.62	.21
29	.29	.38	.92	.58	-	.25	-	.29	.25	.21	.58	.23
30	.29	.71	.79	.54	-	.31	-	.29	.21	.21	.54	.21
31	.27	-	.71	.56	-	.25	-	.27	-	.23	.54	-

Note.- No record Jan. 15, 16, Apr. 29, 30.

Lake Carnegie at Princeton--Continued

Daily gage height, in feet, 1924-40--Continued

1927-28

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.22	0.35	0.46	0.58	0.25	0.54	0.54	0.58	0.31	0.42	0.50	0.42
2	.23	.33	.58	.33	.25	.54	.46	.54	.31	.50	.46	.42
3	.23	.38	.71	.33	.25	.50	.46	.50	.29	.46	.44	.42
4	.38	.67	.71	.29	.25	.46	.42	.46	.29	.42	.42	.40
5	.38	.65	.79	.27	.54	.42	.42	.44	.33	.62	.42	.40
6	.25	.62	.88	.25	.46	.38	.40	.42	.58	1.12	.44	.42
7	.25	.58	.79	.29	.42	.38	.40	.42	.67	.96	.44	.58
8	.23	.42	.79	.29	.88	.38	.42	.38	.58	.67	.42	.46
9	.38	.46	.88	.31	.75	.42	.42	.42	.56	.58	.40	.46
10	.54	.42	.62	.33	.71	.42	.40	.46	.73	.54	.40	.46
11	.38	.42	.60	.33	.69	.42	.40	.56	.46	.46	.40	.44
12	.35	.40	.54	.33	.42	.54	.46	.42	.42	.44	.46	.42
13	.62	.38	.54	.31	.38	.50	.46	.40	.42	.71	.46	.42
14	.54	.35	.67	.33	.35	.62	.46	.38	.38	.75	.44	.38
15	.54	.35	.56	.33	.96	.46	.42	.35	.67	.71	.44	.33
16	.50	.33	.54	.33	.75	.46	.42	.33	.50	.67	.42	.33
17	.42	.33	.62	.33	.62	.42	.40	.33	.46	.62	.44	.31
18	.96	.33	.58	.31	.58	.58	.38	.31	.46	.46	.54	.29
19	1.79	.58	.54	.29	.56	.54	.38	.46	.42	.46	.54	.33
20	1.29	.56	.58	.67	.54	.50	.38	.46	.42	.54	.50	.46
21	.88	.54	.46	.62	.50	.46	.38	.42	.44	.58	.46	.46
22	.62	.50	.42	.25	.46	.46	.54	.38	.46	.58	.42	.50
23	.62	.42	.38	.25	.83	.46	.62	.35	.50	.54	.62	.44
24	.54	.38	.33	.23	.79	.42	1.12	.33	.52	.46	.46	.42
25	.50	.35	.33	.62	.67	.42	.88	.33	.50	.46	.46	.44
26	.46	.38	.31	.58	.54	.42	.62	.35	.46	.48	.46	.40
27	.44	.35	.29	.38	.52	.40	.54	.35	.44	.48	.46	.38
28	.42	.56	.27	.38	.50	.40	.92	.33	.42	.88	.48	.33
29	.42	.54	.27	.29	.46	.40	.79	.33	.42	.71	.46	.31
30	.40	.50	.38	.27	-	.62	.71	.33	.42	.67	.44	.38
31	.40	-	.42	.25	-	.67	-	.31	-	.58	.46	-

1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.46	0.27	0.50	0.42	-	0.71	0.33	0.54	0.31	0.29	0.10	0.08
2	.42	.27	.42	.58	-	.62	.31	.54	.31	.25	.10	.08
3	.40	.29	.38	.46	-	.71	.29	.50	.29	.23	.10	.08
4	.40	.31	.35	.40	-	.62	.29	.42	.27	.33	.10	.08
5	.38	.35	.35	.40	-	.88	.33	.42	.27	.29	.10	.08
6	.38	.38	.33	.71	-	.96	.38	.42	.25	.21	.10	.17
7	.38	.35	.33	.58	-	.71	.33	.50	.25	.21	.10	.21
8	.33	.35	.31	.46	-	.62	.33	.48	.27	.21	.10	.42
9	.33	.33	.31	.46	-	.58	.31	.50	.25	.19	.08	.50
10	.31	.31	.31	.54	-	.54	.33	-	.25	-	.08	.50
11	.31	.31	.33	.48	-	.50	.33	.42	.25	-	.08	.50
12	.29	.31	.31	.46	-	.50	.40	.40	.25	-	.08	.46
13	.29	.31	.31	.42	-	.50	.67	.38	.25	-	.10	.33
14	.27	.29	.31	.42	-	.54	.54	.35	.25	-	.10	.25
15	.27	.29	.33	.38	-	.54	.54	.42	.23	-	.17	.23
16	.25	.29	.33	.35	-	.54	.62	.40	.23	.10	.15	.23
17	.27	.29	.33	.33	-	.54	.83	.38	.23	.12	.12	.21
18	.27	.27	.31	.38	-	.42	.71	.33	.23	.10	.12	.19
19	.38	.27	.46	.44	-	.42	.62	.92	.21	.10	.12	.19
20	.46	.27	.42	.44	-	.42	.54	.83	.21	.08	.10	.17
21	.46	.27	.40	.44	-	.38	.42	.73	.33	.08	.10	.17
22	.44	.27	.31	.42	-	.38	.67	.62	.33	.12	.10	.15
23	.44	.29	.31	-	-	.38	.62	.54	.25	.12	.08	.15
24	.33	.29	.31	-	0.25	.35	.58	.50	.25	.10	.08	.15
25	.33	.29	.29	-	.33	.35	.54	.42	.25	.12	.08	.15
26	.31	.25	.29	-	.62	.40	.52	.38	.42	.12	.08	.15
27	.31	.23	.29	-	.96	.40	.54	.35	.40	.12	.08	.15
28	.31	.25	.33	-	.88	.33	.42	.33	.29	.10	.08	.15
29	.29	.25	.35	-	-	.35	.62	.33	.08	.12	.10	.15
30	.29	.25	.33	-	-	.38	.58	.38	.33	.12	.08	.15
31	.29	-	.27	-	-	.33	-	.33	-	.10	.08	-

Note.- Water below crest of dam Jan. 23 to Feb. 23 and July 10-15. No record May 10.

Lake Carnegie at Princeton--Continued

Daily gage height, in feet, 1924-40--Continued

1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.19	0.29				-	0.38	0.25				-
2	.42	.29				0.33	.38	.25				-
3	.54	.40				.38	.38	.29				-
4	.52	.50				.29	.33	.29				-
5	.50	.42				.29	.27	.25				-
6	.50	.42				.25	.27	.29				-
7	.29	.35				.25	.42	.25				-
8	.21	.33				.71	.42	.29				-
9	.21	.25				.67	.42	.27				-
10	.19	.25				.54	.42	.25				-
11	.19	.25				.50	.40	.25				-
12	.19	.25				.50	.40	.25				-
13	.19	.25				.50	.40	.25				-
14	.17	.25				.50	.42	.23				-
15	.17	.25				.42	.42	.33				-
16	.19	.25				.42	.42	.38				-
17	.23	.27				.42	.42	.38				-
18	.23	.42				.42	.42	.31				0.02
19	.23	.54				.54	.42	.25				.08
20	.21	.42				.50	.42	.33				.12
21	.17	.38				.50	.42	.33				.12
22	.17	.33				.42	.42	.31				.10
23	.25	.29				.42	.42	.29				.10
24	.31	.27				.42	.38	.25				.12
25	.33	.27				.42	.33	.29				.12
26	.29	.27				.50	.33	.27				.10
27	.29	.27				.42	.33	.25				.10
28	.25	.27				.42	.31	.27				.10
29	.17	.25				.40	.31	.27				.10
30	.21	.25				.38	.29	.27				.10
31	.23	-				.33	-	.23				-

Note.- Water below crest of dam Dec. 1 to Mar. 1 and June 18 to Sept. 17. No record June 1-17.

1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.10	0.17	-	0.29	0.12	0.29	0.62	0.25	0.33	0.17	0.15	0.21
2	.11	.17	-	.25	.12	.33	.79	.25	.31	.17	.15	.21
3	.10	.15	-	.17	.12	.33	.67	.23	.29	.15	.15	.17
4	.10	.15	-	.17	.08	.31	.58	.23	.25	.15	.17	.17
5	.10	.21	-	.08	.08	.31	.50	.23	.23	.15	.15	.19
6	.11	.21	-	.58	.08	.31	.42	.21	.21	.15	.12	.21
7	.11	.21	-	.42	.08	.29	.50	.21	.21	.23	.12	.17
8	.12	.19	-	.33	.08	.33	.62	.42	.71	.27	.10	.17
9	.11	.17	-	.25	.08	.62	.52	.46	.48	.25	.10	.15
10	.11	.15	-	.21	.58	.58	.50	.46	.50	.25	.12	.17
11	.11	.15	-	.17	.42	.52	.38	.46	.52	1.17	.67	.17
12	.11	.15	-	.17	.33	.50	.38	.50	.48	.46	.67	.15
13	.12	.15	-	.25	.33	.40	.33	.50	.46	.38	.65	.12
14	.12	.15	-	.21	.54	.38	.29	.40	.42	.38	.50	.12
15	.19	.23	-	.17	.38	.33	.27	.40	.33	.40	.50	.12
16	.19	.25	-	.15	.33	.29	.27	.40	.92	.40	.33	.12
17	.17	.29	-	.12	.29	.29	.25	.38	.92	.25	.31	.12
18	.17	.33	-	.08	.67	.29	.25	.38	.83	.25	.29	.15
19	.17	.29	-	.54	.58	.33	.25	.29	.54	.25	.25	.17
20	.12	.29	-	.50	.54	.33	.25	.25	.44	.25	.21	.15
21	.12	.27	-	.40	.50	.38	.25	.29	.33	.25	.21	.15
22	.12	.21	-	.29	.38	.31	.25	.38	.31	.75	.21	.15
23	.12	.21	-	.25	.29	.31	.27	.46	.29	.50	.21	.15
24	.14	.21	-	.19	.29	.29	.25	.46	.29	.50	.25	.15
25	.15	.21	0.04	.17	.25	.29	.27	.31	.29	.38	.25	.12
26	.15	.21	-	.17	.29	.25	.27	.31	.25	.29	.23	.17
27	.15	.17	-	.17	.27	.29	.29	.29	.25	.27	.23	.17
28	.12	.17	.54	.17	.27	.29	.29	.27	.21	.25	.21	.17
29	.15	.17	.46	.17	-	1.00	.27	.21	.21	.21	.21	.17
30	.15	.17	.40	.17	-	.79	.27	.21	.21	.21	.21	.17
31	.20	-	.38	.17	-	.67	-	.21	-	.19	.21	-

Note.- Water below crest of dam Dec. 1-24. No record Dec. 26-27.

Lake Carnegie at Princeton--Continued

Daily gage height, in feet, 1924-40--Continued

1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.17	0.23	0.19	0.17	-	0.25	0.67	0.40	0.21	0.29	0.25	0.31
2	.17	.17	.19	.33	-	.17	.58	.46	.23	.21	.23	.33
3	.17	.17	.17	.50	-	.17	.58	.46	.23	.15	.23	.29
4	.15	.17	.21	.42	-	.21	.50	.40	.21	.12	.23	.25
5	.15	.17	.25	.40	-	.23	.42	.33	.21	.12	.23	.23
6	.15	.17	.25	.42	-	.25	.42	.29	.19	.15	.15	.40
7	.17	.17	.23	.77	-	.75	.42	.29	.21	.15	.12	.25
8	.17	.17	.23	.58	-	.58	.38	.25	.19	.12	.12	.21
9	.19	.17	.25	.67	-	.58	.42	.31	.19	.12	.10	.19
10	.17	.17	.29	.71	0.21	.50	.46	.31	.19	.12	.10	.12
11	.17	.15	.29	.71	.29	.40	.54	.29	.19	.08	.10	.12
12	.15	.15	.25	.62	.31	.38	.75	.29	.19	.12	.10	.12
13	.15	.15	.23	.52	.33	.33	.75	.38	.23	.12	.08	.12
14	.17	.15	.23	.50	.27	.33	.67	.38	.27	.10	.08	.12
15	.17	.15	.25	-	.25	.29	.58	.38	.31	.10	.08	.10
16	.21	.15	.25	-	.21	.29	.58	.31	.25	.08	.08	.10
17	.21	.15	.21	-	.27	.29	.42	.29	.25	.04	.08	.17
18	.21	.15	.21	-	.25	.38	.42	.29	.29	.08	.08	.15
19	.19	.12	.21	-	.29	.42	.42	.27	.25	.10	.10	.12
20	.19	.15	.19	-	.25	.35	.38	.25	.25	.12	.12	.12
21	.17	.19	.19	-	.21	.35	.33	.25	.23	.15	.10	.10
22	.17	.17	.21	-	.23	.50	.29	.25	.21	.12	.10	.10
23	.17	.17	.23	-	.23	.58	.29	.25	.15	.12	.10	.10
24	.17	.15	.27	-	.23	.50	.29	.25	.10	.10	.10	.15
25	.17	.15	.25	-	.23	.46	.29	.25	.10	.10	.12	.15
26	.15	.10	.21	-	.23	.42	.29	.23	.10	.12	.12	.10
27	.15	.15	.19	-	.23	.40	.38	.21	.12	.10	.08	.12
28	.15	.19	.19	-	.25	1.17	.38	.25	.44	.15	.12	.12
29	.23	.19	.19	-	.25	1.12	.33	.21	.29	.15	.08	.15
30	.21	.19	.17	-	-	.85	.29	.21	.27	.15	.08	.15
31	.25	-	.17	-	-	.67	-	.21	-	.19	.15	-

Note.- Water below crest of dam Jan. 15 to Feb. 9

1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.12	0.50	0.33	0.44	0.38	0.46	0.50	0.29	0.50	0.23	0.06	0.46
2	.12	.75	.33	.42	.38	.42	.54	.29	.42	.25	.06	.38
3	.12	.50	.33	.40	.31	.38	.52	.29	.35	.38	.04	-
4	.12	.50	.33	.38	.31	.38	.67	.33	.35	.33	.29	-
5	.15	.44	.29	.38	.33	.33	.67	.33	.33	.33	.25	-
6	.42	.31	.29	.38	.31	.33	.58	.33	.60	.29	.23	-
7	.46	.50	.29	.33	.31	.33	.58	.54	.54	.25	.21	-
8	.29	.52	.23	.33	.67	.75	.58	.52	.50	.23	.15	-
9	.25	1.50	.23	.56	.58	.54	.58	.52	.50	.21	.10	-
10	.19	1.00	.21	.56	.54	.50	.52	.83	.42	.17	.10	-
11	.17	.79	.21	.50	.42	.50	.50	.67	.33	.15	.17	-
12	.17	.62	.25	.42	.33	.46	.50	.58	.29	-	.27	-
13	.17	.50	.38	.38	.31	.42	.92	.54	.25	.02	.25	-
14	.12	.46	.42	.38	.31	.83	.81	.50	.25	.12	.27	-
15	.12	.42	.33	.38	.33	.83	.62	.50	.25	.12	.27	-
16	.12	.40	.33	.33	.33	.67	.58	.50	.25	.21	.23	-
17	.15	.40	.33	.33	.35	.65	.67	.50	.25	.27	.21	-
18	.75	.50	.25	.33	.33	.50	.67	.52	.25	.25	.21	-
19	.50	1.00	.25	.33	.50	.50	.58	.50	.23	.21	.17	-
20	.42	.92	.25	.33	.75	.83	.54	.50	.23	.17	.17	-
21	.42	.75	.25	.33	.83	1.17	.50	.54	.23	.17	.17	-
22	.31	.58	.25	.33	.67	.92	.50	.50	.21	.15	.50	-
23	.23	.50	.25	.35	.54	.71	.46	.42	.21	.12	.58	-
24	.21	.46	.38	.35	.54	.67	.42	.33	.17	.10	1.42	-
25	.21	.46	.42	.31	.50	.62	.42	.38	.17	.08	.83	-
26	.21	.46	.50	.46	.50	.62	.38	.38	.17	.10	.75	-
27	.23	.42	.58	.54	.50	.60	.38	.31	.23	.12	.62	-
28	.27	.38	.71	.54	.42	.58	.33	.54	.23	.08	.52	-
29	.27	.38	.71	.54	-	.50	.29	.46	.21	.08	.60	-
30	.25	.33	.67	.50	-	.50	.29	.42	.19	.08	.67	-
31	.23	-	.58	.38	-	.44	-	.50	-	.08	.54	-

Note.- Water below crest of dam Sept. 2-30. No record July 12.

Lake Carnegie at Princeton--Continued

Daily gage height, in feet, 1924-40--Continued

1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	0.25	0.22	0.26	0.30	0.22	1.04	0.40	0.30	0.28	0.28	0.22
2	-	.25	.26	.56	.30	.26	.80	.38	.30	.28	.28	.22
3	-	.25	.26	.46	.24	.28	.70	.52	.28	.28	.28	.20
4	-	.25	.26	.48	.24	1.30	.60	.80	.28	.28	.26	.22
5	-	.25	.26	.48	.24	1.87	.58	.90	.26	.26	.24	.22
6	-	.25	.30	1.09	.26	2.15	.56	.68	.26	.26	.24	.24
7	0.25	.31	.28	.94	.26	1.80	.54	.68	.24	.26	.24	.26
8	.25	.31	.26	1.09	.26	1.10	.58	.52	.28	.26	.24	.36
9	.25	.33	.24	.86	.24	.56	.56	.48	.26	.26	.24	.62
10	.25	.31	.24	.72	.22	.50	.52	.48	.26	.26	.24	.54
11	.25	.29	.24	.60	.20	.40	.48	.40	.28	.26	.24	.66
12	.25	.29	.24	.54	.18	.40	.76	.38	.28	.26	.24	.56
13	.25	.27	.24	.50	.18	.40	.60	.38	.70	.26	.28	.44
14	.25	.27	.24	.66	.22	.50	.56	.38	.48	.30	.28	.36
15	.25	.25	.22	.56	.22	1.08	.52	.38	.48	.28	.28	.32
16	.25	.25	.22	.52	.22	1.08	.50	.42	.46	.28	.28	.32
17	.25	.25	.22	.46	.20	.56	.76	.40	.30	.28	.26	.50
18	.40	.25	.36	.36	.18	1.10	.54	.38	.28	.26	.26	1.16
19	.33	.23	.38	.36	.18	.56	.60	.36	.50	.26	.24	1.09
20	.33	.23	.40	.32	.18	.52	.58	.34	.60	.26	.22	.62
21	.29	.23	.62	.30	.20	.50	.56	.32	.50	.26	.22	.58
22	.29	.25	.50	.30	.26	.46	.54	.32	.42	.24	.22	.48
23	.25	.25	.50	.42	.26	.46	.50	.34	.38	.24	.22	.35
24	.25	.25	.44	.50	.26	.48	.50	.36	.40	.26	.22	.56
25	.27	.25	.40	.50	.26	.36	.50	.38	.32	.26	.22	.46
26	.27	.25	.36	.48	.26	.38	.48	.54	.32	.26	.22	.46
27	.25	.25	.30	.40	.26	.42	.46	.48	.30	.24	.22	.42
28	.25	.25	.26	.40	.26	1.39	.46	.38	.30	.26	.28	.38
29	.25	.28	.26	.42	-	1.10	.44	.35	.28	.28	.24	.32
30	.25	.28	.28	.60	-	.56	.40	.33	.32	.28	.24	.66
31	.25	-	.30	.40	-	.50	-	.33	-	.30	.22	-

Note.- Water below crest of dam Oct. 1-6.

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.64	0.30	0.48	0.60	0.36	0.54	0.48	0.40	0.28	0.22	0.22	0.20
2	.60	.30	.54	.56	.36	.62	.46	.40	.28	.20	.26	.18
3	.56	.30	.48	.56	.30	.66	.46	.38	.28	.20	.26	.18
4	.48	.30	.48	.48	.30	.62	.46	.38	.28	.20	.28	.20
5	.42	.42	.48	.46	.28	.62	.44	.36	.28	.18	.28	.32
6	.98	.42	.48	.40	.28	.52	.44	.36	.32	.20	.28	.76
7	.86	.42	.42	.38	.28	.48	.44	.42	.32	.18	.30	.74
8	.78	.42	.42	.38	.28	.48	.50	.44	.32	.18	.26	.70
9	.66	.42	.36	.40	.30	.46	.56	.52	.38	.24	.22	.62
10	.56	.38	.36	.50	.36	.48	.68	.50	.42	.90	.20	.62
11	.50	.38	.36	.56	.38	.40	.68	.48	.42	.56	.18	.46
12	.46	.36	.34	.48	.38	.50	.66	.48	.40	.50	.18	.40
13	.38	.34	.30	.40	.42	.86	.62	.48	.34	.50	.18	.34
14	.32	.32	.30	.40	.46	.72	.58	.48	.34	.40	.18	.30
15	.32	.32	.28	.30	.96	.60	.54	.48	.30	.28	.18	.28
16	.32	.32	.28	.30	1.00	.56	.52	.46	.28	.26	.18	.28
17	.32	.32	.28	.30	1.00	.52	.50	.44	.28	.26	-	.28
18	.30	.32	.30	.30	.90	.50	.50	.42	.26	.24	-	.28
19	.30	.32	.32	.28	.78	.46	.48	.32	.32	.24	-	.28
20	.30	.30	.62	.28	.74	.48	.46	.32	.42	.26	-	.28
21	.30	.30	.56	.50	.56	.50	.46	.32	.40	.28	.14	.26
22	.36	.30	.52	.60	.52	.50	.46	.30	.30	.28	.16	.26
23	.38	.30	.50	.56	.50	.48	.44	.30	.28	.28	.18	.26
24	.36	.30	.46	.50	.48	.50	.44	.30	.26	.24	.18	.26
25	.34	.30	.44	.48	.52	.48	.40	.30	.26	.20	.18	.26
26	.32	.30	.44	.48	.66	.56	.40	.28	.24	.38	.18	.24
27	.32	.32	.44	.50	.64	.56	.38	.28	.24	.34	.18	.24
28	.32	.32	.44	.54	.64	.46	.38	.28	.28	.28	.20	.24
29	.32	.32	.48	.56	-	.56	.38	.28	.28	.24	.18	.26
30	.32	.33	.44	.48	-	.52	.40	.28	.24	.22	.20	.24
31	.30	-	.44	.48	-	-	-	.28	-	.22	.20	-

Note.- No record Mar. 31. Water below crest of dam Aug. 17-20.

Lake Carnegie at Princeton--Continued

Daily gage height, in feet, 1924-30--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.24	0.92	0.82	0.26	0.26	0.90	0.48	0.40	0.30	0.28	0.20	0.26
2	.26	.84	.68	.26	.26	1.00	.50	.40	.28	.28	.20	.24
3	.24	.72	.60	1.01	.28	.94	.50	.40	.28	.28	.18	.24
4	.24	.62	.50	.09	.28	.94	.52	.96	.28	.28	.18	.20
5	.24	.56	.50	.98	.28	1.00	.52	.80	.28	.26	.18	.20
6	.26	.50	.48	.80	.28	.98	.54	.72	.28	.24	.18	.18
7	.26	.44	.48	.80	.28	.80	.86	.54	.28	.24	.20	.18
8	.28	.48	.48	.60	.26	.68	.78	.52	.26	.24	.18	.18
9	.28	.48	.48	.60	.26	.68	.68	.50	.26	.22	.18	.18
10	.28	.46	.48	1.07	.26	.74	.68	.48	.26	.22	.18	.18
11	.28	.44	.48	.96	.26	.92	.72	.42	.24	.22	.16	.18
12	.28	.44	.48	.80	.26	1.60	.70	.38	.32	.22	.16	.16
13	.28	.48	.44	.76	.26	1.00	.74	.38	.46	.22	.16	.16
14	.28	.60	.44	.64	.26	.84	.68	.60	.48	.22	.16	.18
15	.28	.56	.98	.62	.30	.64	.62	.54	.50	.22	.16	.18
16	.26	.48	.58	.96	.30	.64	.56	.48	.44	.22	.16	.18
17	.26	.50	.50	.70	.38	.68	.54	.48	.44	.22	.16	.18
18	.26	1.08	.48	.66	.40	.98	.52	.40	.44	.20	.16	.18
19	.26	.90	.48	.62	.48	.90	.50	.40	.42	.20	.16	.46
20	.26	.76	.48	.60	.48	.86	.48	.44	.38	.18	.16	.54
21	.24	.66	.46	.60	.50	.80	.48	.42	.34	.18	.16	.58
22	.24	.58	.46	.50	.48	.70	.46	.40	.32	.18	.14	.58
23	.26	.56	.46	.50	.38	.68	.44	.34	.30	.18	.14	.50
24	.28	.50	.40	.40	.38	.58	.42	.30	.28	.18	.20	.48
25	.26	.48	.38	.40	.50	.54	.40	.30	.26	.22	.20	.42
26	.26	.48	.36	.40	.94	.50	.40	.30	.24	.22	.22	.30
27	.26	.48	.38	.40	.98	.54	.38	.30	.22	.22	.20	.28
28	.24	.48	.34	.40	.98	.80	.38	.32	.22	.22	.20	.22
29	.24	1.02	.28	.28	.86	.64	.38	.32	.22	.22	.26	.22
30	.38	.96	.26	.28	-	.64	.35	.32	.28	.20	.26	.24
31	.60	-	.26	.28	-	.54	-	.30	-	.20	.26	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.44	0.18	0.24	0.60	0.74	0.42	0.36	0.58	0.32	0.32	0.22	0.34
2	.44	.16	.24	.50	.64	.38	.34	.48	.30	.42	.22	.32
3	.44	.16	.38	.60	.56	.38	.34	.44	.40	.44	.20	.30
4	.42	.16	.38	.62	.52	.34	.32	.40	.32	.44	.20	.30
5	.42	.18	.38	.58	.50	.34	.32	.38	.32	.38	.18	.30
6	.38	.18	.38	.52	.44	.34	.40	.36	.32	.28	.18	.30
7	.22	.28	.74	.52	.44	.34	.58	.32	.34	.30	.18	.34
8	.28	.30	.64	.68	.42	.32	.56	.32	.44	.30	.18	.34
9	.30	.32	.64	.60	.44	.40	.52	.32	.52	.30	.24	.34
10	.32	.34	.68	.58	.46	.40	.52	.30	.50	.28	.24	.32
11	.30	.36	.68	.80	.46	.38	.50	.32	.42	.26	.24	.28
12	.28	.32	.68	.72	.38	.40	.42	.30	.42	.28	.70	.26
13	.28	.32	.62	.60	.36	.36	.42	.26	.40	.26	.66	.26
14	.26	.32	.54	.52	.44	.34	.38	.28	.50	.26	.48	.32
15	.26	.30	.52	.50	.50	.36	.38	1.02	.52	.26	.36	.32
16	.28	.30	.50	.70	.48	.64	.36	.68	.52	.32	.28	.32
17	.44	.28	.94	.64	.46	.62	.36	.66	.52	.26	.28	.28
18	.48	.28	.60	.94	.42	.74	.36	.56	.50	.26	.26	.26
19	.56	.26	.60	.70	.40	.68	.36	.44	.42	.24	.24	.26
20	.54	.26	1.46	.60	.38	.60	.34	.44	.34	.24	.24	.24
21	.48	.26	.80	.70	.38	.74	.32	.38	.34	.22	.22	.24
22	.38	.26	.72	.90	1.00	.56	.62	.36	.50	.22	.22	.24
23	.38	.26	.69	1.00	.74	.54	.66	.24	.50	.20	.38	.24
24	.28	.26	.52	.80	.68	.48	.64	.24	.50	.18	.48	.22
25	.28	.26	.58	.94	.58	.46	.56	.26	.52	.18	.58	.22
26	.24	.28	.38	.84	.50	.46	.40	.24	.44	.16	.56	.22
27	.20	.28	.38	.74	.48	.46	.94	.22	.34	.22	.52	.20
28	.18	.28	.36	.64	.46	.40	.89	.22	.32	.26	.46	.20
29	.18	.24	.36	.56	-	.40	.78	.30	.34	.26	.48	.22
30	.18	.24	.34	.52	-	.36	.68	.32	.41	.24	.48	.22
31	.18	-	.34	.50	-	.34	-	.32	-	.26	.42	-

Lake Carnegie at Princeton--Continued

Daily gage height, in feet, 1924-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.20	0.50	0.70	0.40	0.56	0.60	0.42	0.38	0.34	0.76	0.50	0.26
2	.20	.46	.62	.42	.56	.48	.36	.36	.34	.68	.48	.24
3	.18	.42	.52	.44	.50	.48	.34	.34	.34	.52	.42	.24
4	.18	.38	.48	.40	.50	.46	.30	.30	.34	.48	.40	.24
5	.16	.38	.46	.40	.50	.40	.30	.30	.32	.46	.38	.24
6	.24	.36	.48	.38	.48	.40	.30	.30	.34	.42	.38	.24
7	.32	.36	.65	.52	.50	.42	.30	.30	.38	.42	.56	.24
8	.26	.36	.58	.62	.50	.42	.32	.30	.89	.36	.58	.24
9	.24	.36	.46	.52	.48	.42	.70	.30	.52	.36	.54	.24
10	.22	.36	.44	.50	.44	.40	.64	.30	.42	.32	.54	.24
11	.26	.34	.44	.50	.44	.40	.60	.34	.38	.32	.52	.22
12	.28	.34	.40	.48	.42	.40	.50	.32	.42	.32	.46	.22
13	.30	.52	.34	.40	.42	.40	.50	.32	.50	.30	.38	.24
14	.28	1.06	.34	.40	.42	.40	.48	.34	.56	.30	.38	.24
15	.26	.86	.34	.38	.40	.86	.42	.42	.60	.50	.36	.26
16	.26	.74	.34	.36	.38	.66	.38	.53	.56	.40	.34	.26
17	.26	.60	.34	.36	.36	.72	.36	.52	.48	.38	.34	.26
18	.26	.52	.52	.34	.36	.62	.34	.48	.38	.50	.58	.34
19	.28	.48	.50	.34	.40	.62	.72	.40	.38	.40	.42	.34
20	.38	.48	.48	.32	.89	.60	.60	.38	.38	.82	.34	1.12
21	.48	.48	.46	.30	.72	.58	.58	.36	.36	.98	.32	1.30
22	.50	.46	.38	.34	.72	.50	.54	.36	.34	1.50	.30	3.21
23	.54	.42	.40	.36	.72	.50	.50	.36	.32	1.09	.28	1.50
24	.52	.40	.38	.42	.78	.48	.48	.36	.52	1.79	.28	.94
25	.46	.40	.40	1.22	.60	.42	.40	.36	.50	1.62	.26	.70
26	.42	.40	.38	.86	.58	.42	.40	.36	.58	1.08	.28	.60
27	.42	.38	.38	.68	.50	.42	.40	.40	.82	.84	.34	.82
28	.56	.18	.40	.60	.52	.42	.40	.42	1.42	.64	.30	.76
29	.56	.90	.42	.60	-	.42	.40	.40	1.09	.64	.28	.68
30	.56	.70	.38	.45	-	.42	.38	.38	.96	.60	.28	.50
31	.56	-	.38	.48	-	.40	-	.36	-	.60	.26	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.50	0.52	0.54	0.46	0.92	1.02	0.78	0.54	0.28	0.50	0.24	0.32
2	.46	.42	.54	.40	.78	.84	1.00	.50	.28	.48	.26	.32
3	.44	.40	.58	.42	1.20	.74	.76	.48	.28	.36	.22	.24
4	.44	.38	.94	.42	.60	.64	.64	.48	.28	.34	.22	.22
5	.42	.38	.86	.40	1.02	.62	.60	.46	.28	.28	.24	.20
6	.40	.38	1.20	.50	.80	.74	.56	.46	.28	.28	.22	.18
7	.54	.38	.84	.66	.70	.72	1.36	.44	.28	.28	.20	.14
8	.54	.38	.72	.73	.72	.70	.96	.44	.28	.28	.20	.09
9	.52	.40	.64	.64	.70	.58	.78	.40	.28	.24	.22	.09
10	.50	.42	.66	.58	.90	.56	.66	.40	.28	.34	.20	.14
11	.46	.42	.60	.50	.80	.54	.66	.42	.28	.30	.20	.16
12	.42	.40	.58	.48	.72	.54	.68	.40	.26	.28	.20	.22
13	.42	.38	.56	.46	.64	.82	.56	.40	.28	.24	.18	.22
14	.38	.36	.54	.40	.60	.86	.54	.38	.38	.24	.18	.18
15	.36	.36	.50	.40	.64	.78	.52	.38	.34	.24	.18	.14
16	.36	.36	.48	.40	.56	1.20	.52	.48	.34	.22	.18	.14
17	.36	.36	.46	.42	.56	.80	.56	.48	.30	.22	.18	.14
18	.38	.36	.46	.40	.56	.74	.68	.48	.28	.22	.16	.14
19	.36	.36	.44	.38	.56	.64	.72	.48	.30	.20	.18	.14
20	.36	.36	.44	.38	.56	.58	1.02	.56	.32	.16	.66	-
21	.38	.58	.42	.38	.54	.54	.74	.64	.30	.12	.60	-
22	.40	.62	.34	.36	.50	.54	.66	.58	.28	.16	.56	-
23	.38	.70	.38	.36	.50	.54	.64	.46	.28	.16	.48	.06
24	.38	.58	.38	.38	.70	.54	.56	.36	.28	.16	.34	.14
25	.44	.52	.38	.36	.84	.50	.54	.34	.28	.18	.36	.14
26	.44	.50	.38	.36	.74	.52	.56	.30	.28	.16	.24	.18
27	.44	.50	.78	.36	.74	.50	.56	.28	.26	.12	.24	.18
28	.44	.50	.60	.36	.74	.70	.58	.28	.26	.16	.24	.18
29	.48	.50	.60	.32	-	.60	.58	.28	.24	.22	.24	.18
30	.50	.50	.60	.72	-	.68	.58	.28	.36	.22	.24	.26
31	.52	-	.48	1.28	-	.76	-	.28	-	.24	.42	-

Note.- Water below crest of dam Sept. 20-22.

Lake Carnegie at Princeton--Continued

Daily gage height, in feet, 1924-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.26	0.54	0.34	0.09	0.12	0.38	0.62	0.50	1.09	0.34	0.18	0.68
2	.26	.48	.32	.09	.12	.38	.56	.50	.86	.34	.18	1.08
3	.26	.44	.32	.08	.14	.36	.50	.48	.70	.30	.18	1.06
4	.28	.38	.34	.08	.14	1.28	.58	.60	.68	.30	.18	.76
5	.26	.38	.36	.08	.14	1.12	.56	.54	.60	.30	.18	.54
6	.26	.74	.34	.06	.18	.84	.54	.50	.50	.32	.18	.50
7	.24	.58	.34	.02	.20	.68	.48	.50	.48	.30	.18	.38
8	.22	.58	.32	.02	.24	.66	.48	.48	.46	.28	.20	.38
9	.22	.52	.30	.06	.24	.60	1.90	.50	.40	.28	.26	.38
10	.22	.42	.28	.06	.28	.54	.92	.48	.40	.28	.26	.34
11	.20	.34	.26	.06	.30	.54	.62	.48	.40	.26	.26	.32
12	.20	.34	.24	.12	.38	.42	.64	.44	.40	.22	.24	.30
13	.20	.34	.26	.12	.40	.42	.89	.40	.40	.24	.20	.26
14	.20	.32	.28	.14	.38	.40	.82	.38	.38	.26	.14	.24
15	.18	.32	.30	1.00	.38	1.79	.82	.38	.38	.24	.20	.24
16	.18	.32	.28	.54	.38	.80	.80	.38	.36	.24	.20	.24
17	.18	.32	.26	.52	.26	.70	.60	.97	.36	.22	.20	.24
18	.20	.32	.26	.50	.30	.70	.60	.70	.38	.22	.22	.24
19	.20	.26	.16	.36	.36	.66	.56	.64	.36	.22	.22	.24
20	.18	.26	.16	.28	.86	.66	1.06	.60	.36	.20	.24	.24
21	.18	.28	.20	.28	.89	.66	1.09	.52	.34	.20	.26	.24
22	.24	.30	.18	.22	.78	.56	.89	.68	.34	.20	.32	.22
23	.24	.28	.14	.20	.64	.56	.84	.78	.32	.20	.36	.20
24	.26	.26	.14	.20	.54	.52	.72	.80	.32	.20	.30	.20
25	.26	.26	.12	.18	.50	.50	.68	.74	.42	.26	.22	.36
26	.26	.26	.09	.18	.42	.48	.56	.62	.42	.26	.20	.56
27	.26	.28	.09	.09	.40	.46	.56	.62	.38	.24	.16	.50
28	.28	.30	.09	.16	.40	.44	.50	.74	.36	.22	.18	.48
29	.24	.30	.09	.16	.40	.44	.50	.64	.36	.20	.36	.38
30	.24	.28	.09	.09	-	.46	.50	.62	.36	.20	.48	.34
31	.34	-	.09	.09	-	.46	-	.89	-	.18	.54	-

Millstone River near Kingston

Location.- Water-stage recorder, lat. 40°23'05", long. 74°37'29", at Princeton sewage-disposal plant, 1 mile north of Kingston, Middlesex County, and 1 mile downstream from Heathcote Brook. Datum of gage is 38.00 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 171 square miles.

Records available.- May 1933 to September 1940.

Average discharge.- 7 years, 258 second-feet.

Extremes.- 1933-40: Maximum discharge, 9,820 second-feet Sept. 21, 1938 (gage height, 14.12 feet, from floodmark), from rating curve extended above 2,100 second-feet by logarithmic plotting; minimum daily, 12 second-feet Jan. 7, 1940, computed on basis of record for station at Blackwells Mills.

Peak gage height and discharge during period of this report.-
1934: Oct. 6 (8 p.m.) 6.53 ft., 1,640 sec.-ft.
1935: Sept. 6 (9 p.m.) 6.84 ft., 1,820 sec.-ft.
1936: Jan. 3, about 4,500 sec.-ft.; Jan. 10 (2 a.m.) 9.43 ft., 4,020 sec.-ft.; Mar. 12 (8 a.m.) 9.09 ft., 3,710 sec.-ft.; Mar. 18 (5 p.m.) 6.87 ft., 1,950 sec.-ft.; Apr. 6 (7:30 p.m.) 6.53 ft., 1,700 sec.-ft.; Dec. 20 (1:30 p.m.) 8.77 ft., about 3,440 sec.-ft.
1937: Feb. 22 (2 p.m.) 6.43 ft., 1,640 sec.-ft.; Nov. 14 (8 a.m.) 6.86 ft., 1,780 sec.-ft.
1938: Jan. 25 (3 p.m.) 7.82 ft., 2,360 sec.-ft.; June 28 (6 p.m.) 8.11 ft., 2,580 sec.-ft.; July 23 (about 10 p.m.) 13.37 ft. from floodmark, 8,600 sec.-ft.; Sept. 21 (about 10 p.m.) 14.12 ft. from floodmark, 9,820 sec.-ft.; Dec. 6 (noon) 7.08 ft., 1,890 sec.-ft.
1939: Jan. 31 (5 a.m.) 8.61 ft., 2,990 sec.-ft.; Feb. 4 (3 a.m.) 10.9 ft. estimated, 5,260 sec.-ft.; Mar. 1 (2 a.m.) 7.69 ft., 2,280 sec.-ft.; Mar. 16 (11 a.m.) 7.00 ft., 1,840 sec.-ft.; Apr. 7 (5 a.m.) 8.96 ft., 3,280 sec.-ft.; Apr. 20 (4:30 a.m.) 6.90 ft., 1,780 sec.-ft.
1940: Mar. 4 (10 p.m.) 8.27 ft., 2,960 sec.-ft.; Mar. 15 (noon) 9.68 ft., 4,280 sec.-ft.; Apr. 9 (8 a.m.) 10.50 ft., 5,190 sec.-ft.; Apr. 20 (7 p.m.) 7.16 ft., 2,110 sec.-ft.; May 31 (7 p.m.) 7.40 ft., 2,280 sec.-ft.; Sept. 2 (4 to 6 p.m.) 6.90 ft., 1,930 sec.-ft.

Remarks.- Delaware & Raritan Canal parallels river for some distance and there may be a slight amount of water interchanged between the canal and river or diverted from Delaware River through canal. The canal has been closed to navigation since 1933. Flow slightly regulated by Lake Carnegie, 2 miles above station, and at low flow, by operation of grist mill.

Cooperation.- Water-stage recorder inspected by employees of Borough of Princeton.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	455	141	435	462	a120	a365	230	172	110	71	74	54
2	405	143	335	447	a118	a427	217	168	112	68	78	52
3	335	145	256	347	a118	a500	199	160	111	74	75	58
4	237	176	315	264	a128	a400	199	160	114	67	88	96
5	190	224	302	179	a121	a350	172	147	117	72	90	203
6	1 100	201	253	147	a113	a310	187	148	127	67	99	1 080
7	861	258	220	148	a106	a270	199	201	131	74	108	729
8	639	234	190	166	a109	a280	183	302	120	77	82	508
9	468	217	156	185	a112	a242	405	283	a170	190	68	405
10	335	187	a140	282	a140	a225	508	232	a187	704	47	347
11	253	168	a130	305	a154	a206	494	187	a187	382	a44	224
12	194	168	a118	222	a153	a320	405	160	a160	320	a42	162
13	176	174	a118	154	a142	a835	393	160	a150	234	a39	131
14	143	150	a116	139	a160	a515	347	152	a120	141	a37	104
15	145	154	a108	112	a1 100	a370	305	145	a105	102	a36	87
16	134	141	106	116	a1 700	a330	272	138	102	90	a60	87
17	131	139	114	126	1 520	a262	242	126	101	81	a90	92
18	139	a132	119	122	1 090	a207	230	122	104	87	a50	76
19	124	a137	216	117	720	a212	206	112	122	84	a52	75
20	116	a134	516	a118	521	a220	190	120	203	78	a25	73
21	120	a140	313	a216	382	a250	179	132	162	102	a23	70
22	154	a137	294	a360	323	a320	181	129	127	94	47	a76
23	166	a131	a220	a268	275	a295	181	126	101	88	48	a76
24	156	a142	a180	a310	a266	269	176	127	92	74	48	a73
25	148	150	a157	a283	a350	256	168	122	96	74	a53	a74
26	147	147	a288	a207	a620	227	166	116	90	147	a58	a73
27	148	148	a300	a164	a620	206	164	117	92	117	a61	a78
28	148	145	a200	a144	a430	219	158	116	105	90	a59	a76
29	148	148	a255	a135	-	358	147	114	86	77	a54	75
30	139	238	a255	a128	-	310	174	112	80	74	a51	74
31	138	-	194	a123	-	269	-	116	-	76	a53	-

a No gage-height record; discharge computed on basis of records for station at Blackwells Mills and for Assunpink Creek at Trenton.

Millstone River near Kingston--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	a1 380	a750	a80	99	1 110	243	133	117	104	a48	73
2	70	a1 000	a460	a80	80	1 110	225	135	124	111	a45	75
3	75	627	a370	a2 500	77	977	278	162	110	102	a45	70
4	61	442	a290	a2 700	96	1 040	268	875	102	88	a42	49
5	69	347	a220	a1 300	106	1 340	243	660	104	88	37	54
6	a72	264	a210	660	100	1 110	1 020	508	91	84	52	54
7	a76	240	a180	455	98	710	812	348	93	82	66	42
8	a74	280	a180	370	91	494	580	253	95	82	54	46
9	a72	272	a240	959	84	508	442	206	95	76	53	40
10	a71	a250	a280	2 030	91	673	468	171	91	67	48	39
11	a72	a220	a250	956	95	1 530	521	158	106	68	41	42
12	a73	a230	a220	a740	86	3 080	508	151	145	93	38	43
13	a77	a290	a200	a570	77	1 580	521	358	217	91	42	38
14	a88	a500	a200	a400	91	837	455	490	229	91	36	40
15	a87	a340	a210	a450	88	565	370	297	238	88	50	39
16	a85	a260	a340	832	86	430	338	236	210	76	38	44
17	86	a560	a290	508	109	359	287	190	210	70	37	35
18	86	1 470	a250	442	161	1 230	255	173	188	57	36	67
19	a78	895	a230	a420	a160	998	232	182	173	a56	45	232
20	a67	660	a210	a600	a145	818	225	200	158	a58	34	287
21	a63	494	a170	a380	a110	781	214	182	137	a54	35	348
22	a65	370	a140	a280	a103	643	190	152	124	a56	31	317
23	a73	307	a130	a220	a100	468	184	132	111	a52	26	253
24	a70	a280	a120	a190	a100	359	163	116	114	a54	55	208
25	a67	a260	a100	a170	130	307	160	111	99	a56	53	156
26	a81	a250	a100	a150	258	268	133	112	80	a60	78	112
27	a81	a250	a100	a150	948	310	138	130	62	a60	65	82
28	a88	a280	a90	a140	1 090	643	142	125	80	a58	64	72
29	a75	a1 200	a85	a130	915	468	144	132	93	a54	88	76
30	a155	1 090	a75	a120	-	382	130	124	96	a50	80	82
31	a1 220	-	a85	a110	-	297	-	116	-	a46	73	-

a No gage-height record; discharge computed on basis of occasional gage reading and records for station at Blackwells Mills.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	219	a45	86	417	a690	186	130	294	108	179	85	138
2	240	a48	104	304	430	170	127	224	114	183	85	125
3	202	a50	238	516	326	157	120	186	127	133	78	118
4	184	46	254	480	272	157	112	153	116	107	75	104
5	149	58	244	348	232	144	112	133	106	94	72	112
6	119	67	240	294	209	142	293	119	100	106	67	119
7	117	101	590	401	201	127	337	114	144	112	67	127
8	98	130	442	522	207	138	294	106	226	107	86	142
9	93	144	430	382	226	175	262	101	254	100	106	133
10	137	151	359	457	250	168	283	94	207	89	106	122
11	110	153	338	723	236	142	242	104	175	97	147	107
12	98	140	580	455	205	132	199	94	170	122	455	86
13	98	136	468	370	166	128	175	81	166	135	425	100
14	89	138	393	315	230	128	149	260	315	110	209	122
15	86	118	326	498	294	164	136	863	272	107	148	128
16	98	114	272	552	242	472	124	481	258	122	116	116
17	196	135	759	430	226	565	122	417	234	119	107	122
18	243	104	417	853	199	596	100	283	194	100	96	103
19	287	127	348	508	183	468	104	205	157	90	103	89
20	317	130	1 890	405	172	393	112	151	142	83	94	84
21	247	116	818	575	172	521	119	133	148	74	80	84
22	156	112	596	1 110	970	359	474	103	242	72	112	84
23	100	142	382	1 140	596	283	430	84	236	74	201	88
24	105	153	272	763	481	238	359	88	254	68	283	80
25	91	144	212	1 150	348	228	260	72	250	68	359	68
26	75	136	181	815	272	272	175	75	181	70	326	60
27	50	135	168	536	242	222	944	78	119	70	272	72
28	60	133	159	382	205	183	800	101	119	104	236	90
29	54	94	148	326	-	168	596	93	127	100	256	94
30	47	88	142	283	-	149	417	112	133	84	236	96
31	36	-	250	a430	-	135	-	112	-	93	186	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for station at Blackwells Mills.

Millstone River near Kingston--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	271	438	161	312	172	155	148	144	450	255	114
2	88	212	340	176	263	218	136	142	144	312	234	107
3	70	176	271	193	246	202	114	140	132	271	224	100
4	85	172	233	182	255	187	119	140	125	231	191	80
5	108	163	212	159	246	180	116	144	127	206	187	96
6	136	149	246	146	229	193	119	136	132	178	216	85
7	140	146	303	384	303	212	135	125	130	159	330	98
8	127	149	263	350	271	191	166	118	541	144	294	85
9	122	155	222	294	234	202	435	132	279	135	286	80
10	103	142	191	255	216	191	360	153	208	124	286	85
11	116	133	165	210	204	185	330	149	176	122	242	72
12	132	125	148	185	191	185	263	149	168	125	178	88
13	130	538	135	187	185	178	224	132	238	127	149	98
14	130	1 140	128	191	200	230	200	133	286	279	133	92
15	128	528	125	185	193	620	180	209	321	279	124	96
16	120	438	120	146	174	438	157	286	271	185	120	97
17	118	330	133	151	157	514	140	255	216	163	155	103
18	124	271	273	136	159	426	170	229	174	214	334	118
19	146	229	255	120	195	340	392	172	142	232	172	350
20	224	214	231	119	745	286	312	159	136	891	140	1 560
21	263	200	204	128	528	271	286	140	135	1 850	113	a5 000
22	286	193	176	149	488	246	263	144	133	3 400	112	a6 800
23	312	189	157	180	504	236	236	149	211	a4 300	114	2 510
24	303	168	151	242	593	200	198	155	278	a6 000	110	947
25	225	157	159	1 580	392	193	185	142	233	a2 700	104	542
26	206	157	174	769	321	182	191	138	191	a1 300	108	a400
27	182	172	157	450	271	159	191	204	747	a880	106	a450
28	364	565	163	340	238	161	174	206	1 960	a640	90	a680
29	340	837	182	238	-	165	161	187	1 740	a370	112	330
30	330	501	170	214	-	151	157	172	894	321	114	278
31	312	-	159	266	-	157	-	151	-	271	108	-

a No gage-height record; discharge computed on basis of recorded range in stage, floodmarks, and records for station at Blackwells Mills.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	255	257	314	183	1 070	1 610	594	261	a80	274	80	127
2	222	199	317	180	a718	873	1 090	245	89	242	81	105
3	196	177	291	199	1 670	570	604	215	a82	177	77	78
4	174	162	1 140	194	a3 670	417	445	218	85	129	72	64
5	159	162	1 100	183	a1 360	438	375	205	a88	106	72	56
6	182	158	1 550	346	a729	642	702	196	a85	98	68	47
7	278	183	844	433	568	542	2 240	186	91	96	74	35
8	278	218	565	523	579	426	1 100	196	a90	93	80	27
9	263	202	455	388	512	350	651	196	89	107	80	25
10	233	186	468	314	552	312	475	186	a85	135	62	45
11	193	167	410	291	993	289	405	183	a88	110	60	50
12	163	155	362	260	761	336	421	162	a85	91	64	64
13	149	146	314	231	576	743	340	158	a80	77	60	64
14	144	144	305	215	448	808	307	146	160	81	48	53
15	142	142	298	202	496	678	282	146	146	83	53	38
16	136	133	231	202	769	1 440	272	150	125	75	59	41
17	148	142	194	199	448	823	300	146	a108	61	51	44
18	165	146	235	191	394	550	571	142	a96	64	48	42
19	159	217	238	183	360	394	671	146	a92	46	135	41
20	148	439	205	165	348	338	1 080	147	125	40	433	25
21	187	579	167	170	308	310	512	296	116	31	360	14.0
22	198	472	155	175	312	293	403	340	a105	42	310	14.0
23	178	321	140	158	288	284	338	253	a98	48	231	18.2
24	189	264	138	175	267	270	307	161	a94	40	140	24
25	220	264	138	158	249	260	283	131	a93	48	106	45
26	224	231	131	129	564	260	270	121	a92	48	91	44
27	198	260	628	a120	999	260	288	101	a91	40	75	47
28	191	271	406	a118	957	564	321	a75	a91	50	80	44
29	259	274	317	115	-	462	303	a75	85	64	83	44
30	294	286	272	696	-	718	274	a80	183	78	155	81
31	286	-	209	2 150	-	888	-	a80	-	80	198	-

a Faulty or no gage-height record; discharge computed on basis of partial recorder graph and records for station at Blackwells Mills.

Millstone River near Kingston--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	344	119	25	20	146	357	235	1 620	127	47	603
2	88	275	131	21	23	127	292	242	1 010	121	46	1 550
3	100	238	125	12.9	21	268	221	256	549	112	46	1 230
4	106	191	135	14.5	21	2 150	300	306	385	129	46	562
5	100	309	148	13.4	26	1 750	296	270	300	125	48	248
6	80	686	144	a13	37	909	267	245	259	129	44	212
7	75	378	146	a12	48	566	215	228	218	110	61	153
8	61	342	125	a13	65	429	360	212	199	94	71	125
9	60	287	116	a14	67	362	2 830	199	165	101	88	125
10	64	209	94	a16	68	309	1 060	202	170	88	86	119
11	57	165	100	a22	144	260	690	172	170	88	61	100
12	59	148	105	26	175	c215	594	142	165	74	56	94
13	56	140	112	27	158	c191	1 150	138	165	77	57	96
14	55	138	121	46	135	192	883	142	150	78	59	91
15	47	127	121	848	75	2 320	650	150	142	68	55	85
16	45	121	116	364	60	766	496	229	129	57	59	86
17	44	129	96	a250	68	581	387	790	133	64	72	88
18	50	114	78	a150	69	537	368	474	142	71	64	83
19	56	101	83	a110	315	490	327	402	144	67	67	81
20	57	103	49	a90	1 050	424	1 290	306	138	57	74	78
21	80	114	71	a70	980	397	1 610	304	127	53	125	81
22	100	114	61	a60	648	357	1 340	463	127	54	146	69
23	89	103	39	a55	c409	380	821	a500	121	56	106	71
24	94	106	31	a45	c298	c291	560	a470	129	64	68	78
25	101	103	27	36	a250	c231	434	a400	202	88	56	201
26	98	101	25	32	a200	199	321	a370	186	81	91	317
27	100	105	27	23	a170	191	283	a320	162	67	101	253
28	112	119	21	15.0	c162	183	270	a540	162	62	215	244
29	88	119	23	17.5	142	172	256	a450	194	60	253	202
30	98	116	24	18.7	-	191	231	a360	153	61	275	150
31	229	-	23	18.1	-	339	-	c1 450	-	48	272	-

a No gage-height record; discharge computed on basis of record for station at Blackwells Mills.
c Computed from partly estimated gage-height record.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	8 192	1 100	116	264	1.54	1.78
November	4 949	258	131	165	.965	1.08
December	6 919	516	106	223	1.30	1.50
Calendar year 1934	86 734	2 640	65	238	1.39	18.87
January 1935	6 496	462	112	210	1.23	1.42
February	11 711	1 700	106	418	2.44	2.54
March	9 825	835	206	317	1.85	2.13
April	7 277	508	147	243	1.42	1.58
May	4 722	302	112	152	.889	1.02
June	3 684	203	80	123	.719	.80
July	4 076	704	67	131	.766	.88
August	1 839	108	23	59.3	.347	.40
September	5 388	1 080	52	180	1.05	1.17
Water year 1934-35	75 078	1 700	23	206	1.20	16.30
October 1935	3 551	1 220	61	115	.673	.78
November	15 308	1 470	220	510	2.98	3.32
December	6 775	750	75	219	1.28	1.48
Calendar year 1935	80 652	1 700	23	221	1.29	17.52
January 1936	19 092	2 700	80	616	3.60	4.15
February	5 774	1 090	77	199	1.16	1.25
March	25 425	3 080	268	820	4.80	5.53
April	9 889	1 020	130	330	1.93	2.15
May	7 318	875	111	236	1.38	1.59
June	3 892	238	62	130	.760	.85
July	2 232	111	46	72.0	.421	.49
August	1 535	88	26	49.5	.289	.33
September	3 115	348	35	104	.608	.68
Water year 1935-36	103 906	3 080	26	284	1.66	22.60

Millstone River near Kingston--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	4 201	317	36	136	0.795	0.92
November	3 388	153	45	113	.661	.74
December	12 106	1 890	86	391	2.29	2.64
Calendar year 1936	97 967	3 080	26	268	1.57	21.32
January 1937	16 740	1 150	283	540	3.16	3.64
February	8 482	970	166	303	1.77	1.84
March	7 510	596	127	242	1.42	1.64
April	8 107	944	100	270	1.58	1.76
May	5 514	863	72	178	1.04	1.20
June	5 394	315	100	180	1.05	1.17
July	3 172	183	68	102	.596	.69
August	5 274	455	67	170	.994	1.15
September	3 113	142	60	104	.608	.68
Water year 1936-37	83 001	1 890	36	227	1.33	18.07
October 1937	5 564	364	70	179	1.05	1.21
November	8 820	1 140	125	294	1.72	1.92
December	6 284	438	120	203	1.19	1.37
Calendar year 1937	83 974	1 150	60	230	1.35	18.27
January 1938	8 486	1 580	119	274	1.60	1.84
February	8 313	745	157	297	1.74	1.81
March	7 471	620	151	241	1.41	1.63
April	6 265	435	114	209	1.22	1.36
May	5 039	286	118	163	.953	1.10
June	10 612	1 960	125	354	2.07	2.31
July	26 859	6 000	122	866	5.06	5.83
August	5 441	334	90	176	1.03	1.19
September	21 541	6 800	72	718	4.20	4.69
Water year 1937-38	120 695	6 800	70	331	1.94	26.26
October 1938	6 211	294	136	200	1.17	1.35
November	6 957	579	133	232	1.36	1.52
December	12 537	1 550	131	404	2.36	2.72
Calendar year 1938	125 732	6 800	72	344	2.01	27.35
January 1939	9 246	2 150	115	298	1.74	2.01
February	20 965	3 670	249	749	4.38	4.56
March	17 148	1 610	260	553	3.23	3.72
April	16 224	2 240	270	541	3.16	3.53
May	5 343	340	75	172	1.01	1.16
June	3 017	183	80	101	.591	.66
July	2 754	274	31	88.8	.519	.60
August	3 586	433	48	116	.678	.78
September	1 446.2	127	14.0	48.2	.282	.31
Water year 1938-39	105 434.2	3 670	14.0	289	1.69	22.92
October 1939	2 527	229	44	81.5	.477	.55
November	5 645	686	101	188	1.10	1.23
December	2 636	148	21	85.0	.497	.57
Calendar year 1939	90 537.2	3 670	14.0	248	1.45	19.68
January 1940	2 478.1	848	12	79.9	.467	.54
February	5 904	1 050	20	204	1.19	1.28
March	15 923	2 320	127	514	3.01	3.47
April	19 159	2 830	215	639	3.74	4.17
May	10 967	1 450	138	354	2.07	2.39
June	7 916	1 620	121	264	1.54	1.72
July	2 531	129	48	81.6	.477	.55
August	2 915	275	44	94.0	.550	.63
September	7 475	1 550	69	249	1.46	1.63
Water year 1939-40	86 076.1	2 830	12	235	1.37	18.73

Millstone River at Blackwells Mills

Location.- Water-stage recorder and concrete control, lat. 40°28'30", long. 74°34'34", at highway bridge at Blackwells Mills, Somerset County, a quarter of a mile downstream from Middlebrush Brook. Datum of gage is 26.97 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 258 square miles.

Records available.- August 1921 to September 1940. June 1903 to December 1904 (gage heights only). at site at Millstone, 1¾ miles downstream.

Average discharge.- 18 years (1922-40), 371 second-feet.

Extremes.- 1921-40: Maximum discharge, 18,300 second-feet Sept. 21, 1938 (gage height, 15.29 feet, from floodmark), by slope-area method; minimum, about 5 second-feet Sept. 16, 1923.

Peak gage height and discharge during period of this report.-
1934: Oct. 6 (10 p.m.) 6.56 ft., 2,580 sec.-ft.
1935: Feb. 16* (1 a.m.) 6.91 ft. caused by ice jam; Sept. 6 (9 p.m.) 6.61 ft., 2,580 sec.-ft.; Nov. 1 (1 to 2 a.m.) 6.84 ft., 2,730 sec.-ft.; Nov. 18 (2 to 4 p.m.) 6.65 ft., 2,580 sec.-ft.
1936: Jan. 3 (10:30 p.m.) 10.05 ft., 6,330 sec.-ft.; Jan. 10 (7 a.m.) 8.08 ft., 3,900 sec.-ft.; Mar. 12 (9 a.m.) 9.27 ft., 5,260 sec.-ft.; Mar. 19 (3 a.m.) 6.54 ft., 2,540 sec.-ft.; Dec. 20 (5:30 p.m.) 7.97 ft., 3,800 sec.-ft.
1937: Nov. 14 (10 to 11 a.m.) 6.58 ft., 2,580 sec.-ft.
1938: Jan. 25 (9 p.m.) 8.00 ft., 3,800 sec.-ft.; June 29 (4 a.m.) 7.20 ft., 3,050 sec.-ft.; July 23 (11 p.m.) 13.22 ft. from floodmark, 12,400 sec.-ft.; Sept. 21 (12 p.m.) 15.29 ft. from floodmark, 18,300 sec.-ft.; Dec. 6 (1 to 3 p.m.) 6.90 ft., 2,810 sec.-ft.
1939: Jan. 31 (11 a.m. to noon) 8.38 ft. caused by ice jam, 3,600 sec.-ft.; Feb. 4 (7:30 a.m.) 10.04 ft., 6,270 sec.-ft.; Mar. 1 (8:30 a.m.) 7.22 ft., 3,050 sec.-ft.; Mar. 16 (4 p.m.) 6.53 ft., 2,510 sec.-ft.; Apr. 7 (11 a.m.) 7.84 ft., 3,600 sec.-ft.
1940: Mar. 4 (9 p.m.) 8.07 ft., 3,870 sec.-ft.; Mar. 15 (6 p.m.) 9.41 ft., 5,440 sec.-ft.; Apr. 9 (11:30 a.m.) 9.15 ft., 5,100 sec.-ft.; Apr. 21 (8 to 11 a.m.) 6.95 ft., 2,850 sec.-ft.; May 31 (7 p.m.) 7.37 ft., 3,200 sec.-ft.

Remarks.- Delaware & Raritan Canal parallels river for some distance and there may be a slight amount of water diverted from Delaware River to Millstone River through this canal.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	742	168	759	819	175	561	317	231	116	80	90	65
2	523	160	548	838	168	673	297	213	106	69	125	62
3	427	160	378	487	168	885	273	209	109	69	153	76
4	322	206	511	388	192	628	268	213	112	71	122	132
5	258	307	475	273	188	523	245	196	132	78	122	433
6	1 830	273	378	226	168	475	278	196	132	75	125	1 660
7	1 920	332	327	245	149	421	273	295	138	69	138	1 740
8	970	292	278	273	153	433	249	410	128	76	112	696
9	670	263	226	332	160	373	619	352	226	194	90	561
10	475	235	200	568	235	322	728	302	240	1 480	88	574
11	373	213	188	542	278	322	628	249	240	944	78	362
12	292	204	168	378	273	523	548	217	204	410	73	278
13	254	213	168	278	249	1 320	548	204	192	317	69	226
14	222	183	164	235	279	915	457	188	168	213	65	a195
15	209	179	156	204	2 150	656	404	175	128	149	60	a165
16	188	171	153	183	2 580	511	373	168	109	128	75	a149
17	179	164	168	188	2 320	410	337	149	106	109	124	a136
18	188	156	168	183	2 030	322	317	145	109	125	60	a120
19	171	164	404	164	1 310	332	288	125	145	109	62	a118
20	149	160	994	179	915	347	258	128	285	155	29	a110
21	149	168	475	400	594	445	245	149	209	153	27	a105
22	204	168	404	690	493	499	249	149	160	135	62	103
23	209	156	352	512	427	410	249	149	125	119	60	101
24	196	171	288	599	415	378	245	142	101	98	53	96
25	183	179	249	542	542	347	226	135	101	96	65	98
26	179	179	433	383	1 090	317	222	125	98	171	69	98
27	183	171	455	302	1 090	288	217	125	88	149	73	106
28	183	171	312	240	676	302	196	116	119	119	71	103
29	183	168	373	249	-	523	196	116	96	98	65	101
30	164	390	373	226	-	404	245	112	90	85	60	98
31	160	-	297	188	-	347	-	122	-	88	62	-

* Incorrect discharge for this peak published in Water Supply Paper 871 of the United States Geological Survey.
a No gage-height record; discharge computed on basis of records for station near Kingston.

Millstone River at Blackwells Mills--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	2 350	1 090	125	149	b1 750	373	175	128	119	65	78
2	96	1 310	690	122	125	b1 750	352	175	132	128	62	83
3	98	915	511	3 550	119	b1 710	415	192	119	116	62	80
4	90	642	404	4 000	138	b1 630	373	1 340	109	103	60	65
5	88	493	327	1 950	160	1 950	337	915	112	98	53	65
6	96	388	322	1 070	149	1 810	1 660	670	101	96	65	67
7	112	347	278	735	145	1 260	1 780	457	103	90	76	60
8	109	427	278	628	132	970	970	337	103	88	67	56
9	106	388	362	1 340	122	1 050	716	278	119	83	65	56
10	106	357	415	3 320	128	1 380	855	231	116	73	65	51
11	106	327	367	1 690	132	2 500	942	204	213	67	60	53
12	109	352	337	1 050	135	4 780	855	196	298	88	58	54
13	116	445	297	825	145	2 860	915	485	245	85	54	53
14	128	855	297	683	171	1 490	783	842	278	96	53	49
15	122	542	307	724	168	942	600	427	362	93	60	51
16	106	394	511	1 580	153	702	535	327	278	85	60	54
17	103	1 070	439	915	156	594	445	273	249	83	54	51
18	109	2 420	373	765	217	1 740	388	235	254	73	47	80
19	98	1 770	347	702	240	2 200	337	240	263	73	56	352
20	98	1 050	322	1 050	b190	1 390	327	254	213	76	58	273
21	93	765	254	915	b170	1 430	302	231	175	69	51	357
22	98	568	209	561	b170	1 130	268	196	145	73	47	332
23	112	463	200	362	b170	765	254	164	128	69	42	273
24	109	410	188	322	171	587	231	142	128	73	82	226
25	103	388	149	278	175	493	217	132	125	76	69	175
26	122	383	156	231	488	415	196	125	101	80	87	132
27	122	373	149	222	b1 590	572	183	145	83	80	78	103
28	135	402	138	209	b1 750	1 200	188	145	90	76	71	85
29	112	1 930	122	196	b1 710	783	192	149	106	73	87	85
30	232	1 580	116	175	-	587	175	138	112	69	88	90
31	2 110	-	132	171	-	457	-	132	-	62	85	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	401	58	90	889	1 330	297	213	481	132	254	85	171
2	312	60	115	535	747	278	209	373	128	222	78	145
3	249	60	421	1 070	511	258	192	312	149	175	71	132
4	213	67	327	1 010	445	254	183	263	149	135	69	119
5	183	56	297	594	383	235	175	231	132	112	69	187
6	145	65	278	481	342	231	507	209	125	112	60	213
7	138	83	1 280	742	327	204	517	192	160	122	60	171
8	125	116	714	1 140	317	213	421	171	217	119	73	164
9	116	153	568	765	352	273	399	164	288	109	88	164
10	185	160	499	859	394	254	463	156	254	98	90	142
11	153	160	603	1 500	347	217	373	145	200	96	302	125
12	128	153	1 230	855	302	196	312	142	204	142	1 020	103
13	112	142	759	656	263	200	278	116	188	153	813	123
14	112	153	587	529	394	200	245	401	452	125	278	164
15	106	132	487	966	457	237	231	1 530	352	116	192	142
16	112	119	445	1 190	362	929	213	760	288	204	138	132
17	477	138	1 830	768	337	995	200	587	268	138	122	125
18	367	109	1 080	1 630	302	1 020	168	415	231	116	112	122
19	332	116	587	1 060	278	825	156	302	188	98	109	98
20	373	135	3 050	728	263	663	160	245	171	88	103	101
21	307	128	2 120	1 050	268	1 050	176	209	168	80	90	106
22	213	106	1 060	1 800	1 670	635	959	168	278	78	113	103
23	142	132	628	2 000	1 240	487	825	135	273	78	258	109
24	132	160	457	1 430	795	399	568	128	268	76	357	101
25	116	149	373	1 850	594	394	421	116	278	73	481	88
26	98	142	327	1 530	457	469	297	101	217	73	388	71
27	85	135	297	915	399	373	1 610	101	149	71	367	73
28	67	142	283	649	337	317	1 610	132	135	98	317	98
29	73	101	249	535	-	283	1 040	122	164	103	288	106
30	65	90	245	469	-	254	690	171	153	85	273	106
31	54	-	461	759	-	226	-	138	-	98	217	-

Millstone River at Blackwells Mills--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	106	337	783	263	568	286	226	179	171	819	347	145
2	101	288	600	312	410	342	200	175	171	511	307	138
3	88	235	457	322	388	312	175	168	156	388	283	135
4	80	217	378	288	427	273	171	168	149	312	245	112
5	101	209	327	254	394	283	160	168	145	273	231	112
6	145	192	399	226	367	317	156	164	156	235	258	125
7	145	183	517	928	635	322	179	153	149	209	445	119
8	135	175	404	765	487	302	273	128	1 050	192	399	112
9	122	188	327	505	399	288	1 050	142	460	179	367	112
10	116	168	273	394	367	288	683	175	263	164	352	112
11	109	160	245	322	322	273	523	179	222	160	302	109
12	128	145	213	288	337	283	399	171	213	164	213	103
13	132	1 070	196	288	327	273	332	164	367	164	192	125
14	132	2 360	175	278	337	449	292	145	394	286	168	116
15	125	1 100	168	263	307	1 520	268	633	404	439	164	122
16	119	759	175	213	268	1 080	240	427	342	240	153	122
17	112	554	209	217	240	1 230	213	322	273	217	207	125
18	116	421	587	196	245	915	236	273	273	322	472	135
19	132	347	469	168	370	656	795	209	204	275	231	594
20	387	317	373	160	1 480	523	493	196	175	1 340	179	2 260
21	337	292	327	168	1 120	457	415	171	168	2 180	153	a7 860
22	307	268	288	226	885	399	352	175	153	4 710	142	a13 500
23	404	258	263	278	1 020	362	317	175	317	a8 020	145	5 130
24	415	231	235	388	1 270	307	258	179	497	a9 260	142	2 160
25	292	217	292	2 870	789	288	231	175	273	4 880	128	917
26	249	213	292	2 460	587	273	231	164	235	2 600	132	614
27	222	226	254	953	487	245	231	258	1 270	1 390	132	622
28	743	1 090	258	635	399	231	217	268	2 320	1 160	135	1 450
29	568	2 030	302	415	-	235	204	226	2 780	621	132	554
30	445	970	273	347	-	217	183	209	1 730	505	142	457
31	399	-	258	534	-	222	-	183	-	415	142	-

a Fragmentary gage-height record; discharge computed on basis of floodmarks and available recorder graph.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	399	322	451	292	b1 900	2 760	942	352	122	395	a120	171
2	337	273	463	288	b1 200	1 560	1 820	327	132	273	a120	138
3	302	240	399	288	2 480	942	1 170	297	125	213	a110	106
4	273	226	1 820	288	5 430	690	741	292	125	160	a100	88
5	263	226	2 260	268	a2 200	783	600	283	132	132	a100	80
6	308	213	2 650	753	a1 200	1 170	975	268	132	119	a95	71
7	554	226	1 900	670	a900	968	3 230	249	132	122	a105	60
8	457	254	995	735	a900	676	2 000	254	132	116	a115	49
9	399	263	795	580	a800	568	1 130	263	128	121	a115	42
10	362	240	825	487	a850	493	795	249	125	196	a80	53
11	322	222	690	445	a1 500	445	676	240	128	164	a75	60
12	273	213	587	373	a1 200	512	753	217	125	112	a80	73
13	249	204	499	327	a900	1 260	561	209	116	98	a75	88
14	240	204	445	317	a700	1 430	493	209	235	96	a60	80
15	235	188	421	307	a750	1 280	433	209	196	93	62	65
16	226	175	347	297	a1 200	2 380	404	204	164	96	65	58
17	235	183	297	292	a700	1 610	445	196	142	78	65	62
18	240	192	322	288	a600	942	1 020	192	132	78	58	58
19	235	227	332	273	a550	656	1 200	196	125	76	116	58
20	217	621	307	249	a500	587	2 080	267	168	58	620	53
21	268	676	268	240	463	487	955	388	156	49	383	34
22	249	642	235	245	427	463	676	568	138	45	347	25
23	213	427	213	283	399	433	554	352	132	58	292	23
24	213	357	217	245	362	399	475	249	125	53	171	36
25	268	332	209	235	327	378	427	196	119	a58	132	63
26	258	312	200	217	970	362	383	179	109	a58	119	71
27	231	337	1 250	200	1 820	362	404	156	106	a54	98	71
28	217	362	779	188	1 570	951	439	125	103	a70	98	78
29	363	367	481	171	-	747	433	116	96	a90	98	65
30	399	394	410	1 110	-	1 040	383	122	220	a115	220	106
31	362	-	327	b3 200	-	1 550	-	119	-	a120	278	-

a No gage-height record; discharge computed on basis of records for station near Kingston.
b Stage-discharge relation affected by ice.

Millstone River at Blackwells Mills--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	122	493	132	44	40	231	621	332	2 590	175	62	1 060
2	128	317	149	42	47	200	451	337	1 720	156	58	1 630
3	135	263	164	33	45	513	373	342	884	145	54	1 670
4	135	231	156	30	44	2 960	523	433	580	188	54	864
5	128	509	168	30	47	2 920	475	373	445	175	54	421
6	116	1 350	164	26	58	1 480	404	332	362	168	54	302
7	101	594	164	24	93	861	347	302	312	153	65	222
8	93	475	145	23	101	975	714	283	283	132	65	171
9	88	373	132	24	101	574	4 290	292	240	128	88	160
10	88	302	112	27	106	475	2 030	312	235	122	103	160
11	83	240	112	30	276	378	1 090	254	245	116	78	132
12	80	213	116	37	258	317	1 090	217	231	112	67	122
13	80	192	122	44	222	288	1 980	204	226	101	69	119
14	78	183	149	75	196	312	1 510	209	204	106	71	112
15	73	171	145	b1 500	133	3 930	1 060	204	196	93	69	106
16	69	160	138	759	106	2 360	813	328	188	78	69	103
17	69	164	122	415	106	926	635	1 440	179	78	80	103
18	71	153	103	288	112	915	587	709	179	88	80	101
19	73	135	85	213	479	855	529	561	188	85	76	96
20	78	132	78	145	1 590	735	1 850	433	183	78	80	98
21	88	138	135	116	1 530	696	2 830	508	168	73	112	98
22	119	142	116	106	1 160	628	2 420	735	156	69	156	90
23	112	132	78	90	683	635	1 390	813	156	69	128	83
24	106	128	62	78	487	427	903	747	175	76	88	90
25	112	128	54	73	404	362	722	614	278	93	69	458
26	116	122	51	69	337	322	529	554	254	103	98	600
27	112	125	45	62	278	312	445	487	226	85	112	357
28	125	132	45	45	249	302	404	873	219	76	267	312
29	106	138	42	37	226	297	373	690	342	73	322	263
30	101	138	49	40	-	322	342	523	226	76	312	200
31	267	-	44	40	-	621	-	2 380	-	67	312	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	12 355	1 920	149	398	1.54	1.78
November	6 124	390	156	204	.791	.88
December	10 822	994	153	349	1.35	1.56
Calendar year 1934	127 716	4 300	73	350	1.36	18.46
January 1935	11 314	838	164	365	1.41	1.63
February	19 467	2 580	149	695	2.69	2.80
March	15 212	1 320	288	491	1.90	2.19
April	9 995	728	196	333	1.29	1.44
May	5 805	410	112	187	.725	.84
June	4 312	285	88	144	.558	.62
July	6 231	1 480	69	201	.779	.90
August	2 527	153	27	81.5	.316	.36
September	8 867	1 740	62	295	1.14	1.27
Water year 1934-35	113 031	2 580	27	310	1.20	16.27
October 1935	5 442	2 110	88	176	.682	.79
November	24 104	2 420	327	803	3.11	3.47
December	10 087	1 090	116	325	1.26	1.45
Calendar year 1935	123 363	2 580	27	338	1.31	17.76
January 1936	30 466	4 000	122	983	3.81	4.39
February	9 468	1 750	119	326	1.26	1.36
March	42 877	4 780	415	1 383	5.36	6.18
April	16 164	1 780	175	539	2.09	2.33
May	9 952	1 340	125	321	1.24	1.43
June	4 988	362	83	166	.643	.72
July	2 613	128	62	84.3	.327	.38
August	1 987	88	42	64.1	.248	.29
September	3 589	357	49	120	.465	.52
Water year 1935-36	161 737	4 780	42	442	1.71	23.31

Millstone River at Blackwells Mills--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	5 691	477	54	184	0.713	0.82
November	3 520	160	56	117	.453	.51
December	21 747	3 050	90	702	2.72	3.14
Calendar year 1936	153 062	4 780	42	418	1.62	22.07
January 1937	30 954	2 000	469	999	3.87	4.46
February	14 213	1 670	263	508	1.97	2.05
March	12 866	1 020	196	415	1.61	1.86
April	13 811	1 610	156	460	1.78	1.99
May	8 716	1 530	101	281	1.09	1.26
June	6 359	452	125	212	.822	.92
July	3 647	254	71	118	.457	.53
August	7 081	1 020	60	228	.884	1.02
September	3 804	213	71	127	.492	.55
Water year 1936-37	132 409	3 050	54	363	1.41	19.11
October 1937	7 012	743	80	226	.876	1.01
November	15 220	2 360	145	507	1.97	2.20
December	10 317	783	168	333	1.29	1.49
Calendar year 1937	134 000	2 360	60	367	1.42	19.34
January 1938	15 924	2 870	160	514	1.99	2.29
February	15 232	1 480	240	544	2.11	2.20
March	13 451	1 520	217	434	1.68	1.94
April	9 703	1 050	156	323	1.25	1.40
May	6 522	633	128	210	.814	.94
June	15 480	2 780	145	516	2.00	2.23
July	42 630	9 260	160	1 375	5.33	6.14
August	7 040	472	128	227	.880	1.01
September	38 297	13 500	103	1 277	4.95	5.52
Water year 1937-38	196 828	13 500	80	539	2.09	28.37
October 1938	9 167	554	213	296	1.15	1.33
November	9 118	676	175	304	1.18	1.32
December	21 394	2 650	200	690	2.67	3.08
Calendar year 1938	203 958	13 500	103	559	2.17	29.40
January 1939	14 151	3 200	171	456	1.77	2.04
February	32 798	5 430	327	1 171	4.54	4.73
March	28 884	2 760	362	932	3.61	4.16
April	26 597	3 230	383	887	3.44	3.84
May	7 543	568	116	243	.942	1.09
June	4 120	235	96	137	.531	.59
July	3 566	395	45	115	.446	.51
August	4 572	620	58	147	.570	.66
September	2 085	171	23	69.5	.269	.30
Water year 1938-39	163 995	5 430	23	449	1.74	23.65
October 1939	3 252	267	69	105	.407	.47
November	7 973	1 350	122	266	1.03	1.15
December	3 377	168	42	109	.422	.49
Calendar year 1939	138 918	5 430	23	381	1.48	20.03
January 1940	4 565	1 500	23	147	.570	.66
February	9 514	1 590	40	328	1.27	1.37
March	27 129	3 930	200	875	3.39	3.91
April	31 730	4 290	342	1 060	4.11	4.59
May	16 821	2 380	204	543	2.10	2.42
June	11 870	2 590	156	396	1.53	1.71
July	3 337	188	67	108	.419	.48
August	3 372	322	54	109	.422	.49
September	10 303	1 670	83	343	1.33	1.48
Water year 1939-40	133 243	4 290	23	364	1.41	19.23

Green Brook at Plainfield

Location.- Water-stage recorder and concrete control, lat. 40°36'50", long. 74°25'55", just downstream from Sycamore Avenue in Plainfield, Union County, and 1 mile upstream from Stony Brook. Datum of gage is 70.37 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 9.75 square miles.

Records available.- May 1938 to September 1940.

Extremes.- 1938-40: Maximum discharge, 2,890 second-feet July 23, 1938 (gage height, 5.82 feet), by contracted-opening method; minimum, 0.1 second-foot Feb. 15, 1940 (gage height, 0.59 foot).

Peak gage height and discharge during period of this record.-
1938: July 23 (11:30 a.m.) 5.82 ft., 2,890 sec.-ft.; Sept. 21 (3:40 p.m.) 4.89 ft., 1,740 sec.-ft.
1939: Feb. 3 (4:45 p.m.) 2.86 ft., 422 sec.-ft.
1940: Jan. 15 (1 to 2 a.m.) 2.64 ft., 341 sec.-ft.; Mar. 15 (5 a.m.) 3.36 ft., 639 sec.-ft.; Apr. 8 (9 p.m.) 3.09 ft., 516 sec.-ft.; May 16 (11 p.m.) 2.57 ft., 317 sec.-ft.; May 31 (10 a.m.) 3.92 ft., 950 sec.-ft.; June 9 (6 p.m.) 2.74 ft., 377 sec.-ft.; July 27 (8 a.m.) 2.86 ft., 422 sec.-ft.

Remarks.- Water for municipal supply diverted from Baltusrol well field of Commonwealth Water Co.

Daily discharge, in second-feet, 1938-40

1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	3.6	9.5	13.5	3.5
2								-	2.4	9.0	10.4	2.2
3								-	4.0	7.5	9.5	2.0
4								-	3.4	6.2	8.3	2.0
5								-	2.6	5.8	7.5	2.0
6								-	3.6	4.8	10.6	1.8
7								-	10.7	3.6	8.7	2.0
8								-	55	3.4	7.7	1.7
9								-	12.6	3.6	8.0	1.7
10								-	6.2	3.6	8.7	1.7
11								-	6.8	7.9	11.0	1.5
12								-	6.9	5.2	6.6	1.4
13								-	12.7	5.2	4.2	1.7
14								-	6.9	5.9	3.9	1.7
15								56	5.7	9.1	3.6	2.9
16								11.4	4.1	6.3	3.4	2.4
17								8.7	4.5	23	3.4	2.9
18								7.8	7.9	9.7	3.2	2.9
19								3.4	4.3	6.4	3.2	44
20								4.4	3.6	18.5	2.9	104
21								4.2	3.2	41	2.6	498
22								5.0	4.3	69	2.6	81
23								4.9	3.4	911	2.6	26
24								7.1	3.1	168	2.4	16.4
25								10.0	4.0	64	2.2	14.0
26								7.4	9.2	40	2.6	10.1
27								15.5	32	42	2.0	7.4
28								8.3	109	44	1.7	7.2
29								6.2	33	27	2.4	6.0
30								4.7	19.8	21	2.2	4.8
31								3.3	-	16.4	2.3	-

Green Brook at Plainfield--Continued

Daily discharge, in second-feet, 1938-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.2	3.2	8.7	8.7	22	64	23	12.4	3.2	6.2	1.2	1.3
2	3.3	3.2	7.9	8.3	17.7	32	77	10.8	2.9	3.2	1.4	1.1
3	3.2	2.9	7.0	8.7	163	23	31	9.0	2.9	2.2	3.2	1.1
4	4.2	2.6	82	7.9	77	19.8	22	6.6	2.6	2.0	5.8	1.1
5	4.2	2.6	89	6.9	34	34	19.0	9.9	2.4	1.8	3.0	1.1
6	7.7	2.6	83	55	25	33	83	7.5	2.4	1.7	1.5	1.0
7	8.2	2.6	31	21	26	21	65	4.2	2.2	1.7	1.2	1.1
8	4.2	3.3	21	14.6	24	17.7	33	3.9	2.4	1.7	1.3	2.9
9	3.6	4.4	21	11.3	21	17.7	26	70	2.4	1.7	1.2	1.1
10	3.2	3.4	27	11.8	34	16.4	24	13.5	6.7	1.5	1.1	1.2
11	3.4	3.2	17.1	11.8	69	14.0	23	65	4.1	1.5	1.1	1.0
12	3.4	3.2	14.6	9.5	33	19.9	28	4.9	a2.9	1.5	1.1	1.0
13	3.4	2.2	12.9	8.3	23	39	21	4.5	13.4	1.4	1.1	1.0
14	3.2	1.8	10.8	8.7	22	34	18.3	3.6	12.2	1.5	1.4	1.0
15	3.2	1.5	9.9	8.2	87	42	15.2	5.6	3.6	1.5	1.1	1.0
16	3.2	1.7	7.9	7.2	40	87	12.9	5.2	3.2	1.4	1.0	1.0
17	3.2	3.3	7.9	7.2	40	35	14.4	3.6	2.9	1.4	1.0	1.0
18	2.9	2.6	7.9	6.6	21	25	38	3.4	2.9	1.2	.9	1.0
19	2.6	12.6	7.9	6.3	18.3	21	66	2.4	3.5	1.2	14.8	.9
20	4.2	17.0	7.5	5.4	14.6	21	42	2.2	4.0	1.2	7.9	.9
21	5.9	7.9	6.6	5.2	14.6	17.7	26	3.0	2.4	1.2	1.8	.9
22	4.5	6.2	5.5	5.8	14.0	14.6	23	9.1	2.0	1.2	1.3	.9
23	3.4	7.6	4.4	4.8	11.8	12.4	17.1	7.7	1.8	1.2	1.1	.9
24	4.8	7.5	5.2	4.8	10.8	10.8	14.6	5.2	1.7	1.1	3.7	.9
25	5.5	7.2	5.2	4.8	10.8	11.3	14.0	4.2	1.5	1.1	1.5	.9
26	4.2	6.6	4.9	2.2	60	10.8	13.5	3.9	1.5	1.1	1.3	.9
27	4.2	6.9	76	2.0	40	11.6	14.0	3.4	1.5	5.0	1.1	1.2
28	8.3	7.5	19.2	2.0	88	31	18.9	3.4	1.5	1.7	1.0	1.1
29	5.5	7.2	11.4	2.3	-	17.1	14.0	3.6	3.4	2.0	1.0	1.0
30	4.5	7.9	10.4	87	-	43	12.9	3.6	24	2.7	3.5	6.1
31	3.9	-	9.1	57	-	34	-	3.4	-	1.4	1.5	-

a Faulty gage-height record; discharge computed on basis of partly estimated gage-height graph.

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.1	7.1	0.2	a0.4	a0.3	3.8	21	9.1	74	4.8	1.9	82
2	5.5	2.2	1.8	a.4	a.3	2.9	14.1	10.4	52	4.0	1.6	35
3	4.2	1.2	1.5	a.3	a.3	23	14.4	10.0	30	6.0	1.5	11.2
4	1.7	.7	1.1	a.3	a.3	95	31	10.9	21	11.8	1.5	6.7
5	.7	29	.7	a.3	.3	30	19.2	9.1	16.4	6.1	1.5	4.3
6	.4	18.1	.5	a.2	.5	26	13.5	7.1	13.0	3.8	2.1	3.3
7	.4	3.9	.4	a.3	1.1	18.0	11.4	6.0	10.0	3.1	3.5	3.1
8	.4	2.2	.4	a.3	.7	14.6	121	5.4	8.7	2.6	1.9	2.4
9	.4	1.4	.2	a.3	.7	15.4	104	9.1	34	2.4	1.5	4.7
10	.4	.8	.4	a.3	2.8	14.2	36	6.7	22	2.1	1.5	3.1
11	.4	.8	.7	a.3	7.1	9.8	23	6.0	10.4	2.7	1.3	2.6
12	.4	.8	.4	a.3	3.0	7.7	61	6.0	8.3	7.7	1.2	2.2
13	.3	.8	1.8	a.5	2.0	6.6	68	5.1	7.1	3.8	4.3	1.9
14	.3	.6	1.7	a3.0	1.3	27	40	4.8	5.4	2.4	3.7	1.6
15	.3	.5	.6	102	.4	222	29	4.3	4.8	1.9	1.9	1.5
16	.3	.5	.7	10.0	1.9	41	23	55	4.5	2.6	1.5	1.5
17	.3	.5	1.2	a2.0	2.0	24	19.2	78	3.8	2.4	1.5	1.3
18	.3	.4	.6	a1.2	1.9	24	19.2	22	3.5	2.0	3.2	1.2
19	.3	.4	.5	a1.0	26	31	19.9	14.6	5.5	1.7	3.8	1.2
20	.3	.4	3.6	a.8	42	23	96	17.0	4.7	1.6	3.6	1.2
21	1.0	.4	5.2	a.7	20	19.7	90	25	3.1	1.5	1.7	2.0
22	1.4	.8	2.2	a.5	13.9	18.8	59	18.5	2.6	1.5	1.5	1.4
23	.5	1.1	1.2	a.4	10.6	15.4	33	30	2.6	1.2	1.3	1.1
24	.3	1.0	.8	a.4	8.9	9.8	26	19.2	13.7	1.0	1.2	1.1
25	.3	.8	.6	a.4	8.0	9.1	21	19.2	8.2	1.0	1.2	48
26	.3	.7	.5	a.4	7.1	7.5	17.8	22	28	3.9	13.2	11.2
27	.6	.4	.3	a.3	3.9	7.5	15.2	22	11.3	23	3.6	3.9
28	1.4	.4	.2	a.3	4.7	7.5	13.0	68	20	13.9	18.9	2.9
29	.8	.2	.2	a.2	4.2	7.9	11.4	29	19.9	3.3	8.9	2.2
30	2.2	.2	.5	a.2	-	6.1	8.7	19.2	6.7	2.6	4.5	1.9
31	17.6	-	a.5	a.2	-	41	-	264	-	2.2	3.8	-

a No gage-height record; discharge computed on basis of weather records and records for Elizabeth River at Elizabeth and North Branch of Raritan River near Far Hills.

Green Brook at Plainfield--Continued

Monthly and annual discharge, in second-feet, 1938-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
May 15-31, 1938	168.3	56	3.3	9.90	-	-	-
June	388.5	109	2.4	13.0	15.5	1.59	1.77
July	1 597.6	911	3.4	51.5	54.0	5.54	6.39
August	163.9	13.5	1.7	5.29	7.81	.801	.92
September	856.9	498	1.4	28.6	31.3	3.21	3.58
Water year	-	-	-	-	-	-	-
October 1938	135.4	8.3	2.6	4.37	7.06	.724	.83
November	152.4	17.0	1.5	5.08	7.91	.811	.91
December	639.9	89	4.4	20.6	23.5	2.41	2.78
Calendar year	-	-	-	-	-	-	-
January 1939	411.3	87	2.0	13.3	16.2	1.66	1.91
February	1 061.6	163	10.8	37.9	41.1	4.22	4.39
March	830.8	87	10.8	26.8	29.6	3.04	3.50
April	849.8	83	12.9	28.3	31.1	3.19	3.56
May	298.7	70	2.2	9.64	12.3	1.26	1.45
June	124.1	24	1.5	4.14	6.90	.708	.79
July	57.2	6.2	1.1	1.85	4.46	.457	.53
August	71.1	14.8	.9	2.29	4.85	.497	.57
September	37.6	6.1	.9	1.25	3.85	.395	.44
Water year 1938-39	4 669.9	163	.9	12.8	15.6	1.60	21.66
October 1939	50.8	17.6	.3	1.64	4.12	.423	.49
November	78.3	29	.2	2.61	5.08	.521	.58
December	31.2	5.2	.2	1.01	3.27	.335	.39
Calendar year 1939	3 902.5	163	.2	10.7	13.4	1.37	18.60
January 1940	128.2	102	.2	4.14	6.30	.646	.74
February	176.2	42	.3	6.08	8.27	.848	.91
March	809.3	222	2.9	26.1	28.1	2.88	3.32
April	1 079.0	121	8.7	36.0	38.1	3.91	4.36
May	832.7	264	4.3	26.9	28.9	2.96	3.41
June	455.2	74	2.6	15.2	17.3	1.77	1.98
July	130.6	23	1.0	4.21	6.31	.647	.75
August	104.3	18.9	1.2	3.36	5.58	.572	.66
September	247.7	82	1.1	8.26	10.5	1.08	1.20
Water year 1939-40	4 123.5	264	.2	11.3	13.5	1.38	18.79

* Adjusted for diversion from Baltusrol well field.

Lawrence Brook at Farrington Dam

Location.- Water-stage recorder above concrete dam, lat. 40°27'00", long. 74°27'05", at Farrington Dam, half a mile southwest of Milltown, Middlesex County, and 4¾ miles upstream from mouth.

Drainage area.- 34.4 square miles (revised).

Records available.- May 1927 to September 1940. June 1922 to December 1926 at site at Patricks Corner, 2¾ miles upstream.

Average discharge.- 12 years (1928-40), 36.6 second-feet (adjusted for storage).

Extremes.- 1927-40: Maximum discharge, 2,660 second-feet Sept. 21, 1938 (gage height, 26.18 feet), from rating curve extended above 400 second-feet on basis of dam formulae; no flow at times when gates in dam were closed and there was no flow over spillway.

Peak gage height and discharge during period of this report.-
1934: Oct. 6 (2 p.m.) 25.14 ft., 645 sec.-ft.
1935: Sept. 6 (5 p.m.) 25.16 ft., 675 sec.-ft.
1936: Jan. 3 (4 p.m.) 25.26 ft., 825 sec.-ft.; Jan. 9 (12 p.m.) 25.06 ft., 535 sec.-ft.; Mar. 12 (1 a.m.) 25.13 ft., 630 sec.-ft.; Dec. 20 (10:15 a.m.) 25.04 ft., 505 sec.-ft.
1938: July 23 (7 to 9 p.m.) 25.40 ft., 1,050 sec.-ft.; Sept. 21 (8 p.m.) 26.18 ft., 2,660 sec.-ft.
1939: Feb. 3 (11 p.m.) 25.42 ft., 885 sec.-ft.; Apr. 7 (2 a.m.) 25.42 ft., 749 sec.-ft.
1940: Mar. 4 (12:30 to 2 p.m.) 25.27 ft., 521 sec.-ft.; Apr. 9 (3:30 a.m.) 25.31 ft., 577 sec.-ft.; May 31 (noon) 25.70 ft., 1,260 sec.-ft.

Remarks.- Figures of daily discharge include flow over dam and through blow-off gates. Flow regulated by Farrington Reservoir (capacity, 87,600,000 cubic feet).

Cooperation.- Water-stage recorder inspected by employee of city of New Brunswick.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	22	94	98	29	56	a29	19.4	15.0	9.0	11.8	4.6
2	51	22	56	84	25	75	a26	17.1	13.1	7.9	25	4.6
3	41	22	41	51	25	102	a24	19.4	9.0	7.4	46	5.1
4	29	25	70	32	29	68	a23	19.4	9.0	7.1	32	17.5
5	25	36	56	25	29	56	a22	19.4	13.1	6.8	25	117
6	389	41	41	25	a25	51	a30	19.4	15.0	6.6	19.4	387
7	188	46	32	29	a22	51	32	44	13.1	6.3	15.0	194
8	87	32	29	36	22	51	22	56	11.5	6.1	13.1	68
9	56	29	25	41	25	46	125	32	42	9.6	11.5	46
10	46	25	19.4	68	41	41	102	25	36	80	10.0	56
11	36	29	22	62	46	41	62	22	25	109	13.1	36
12	32	25	17.1	41	46	69	51	19.4	19.4	46	13.1	a26
13	25	22	15.0	29	36	151	68	17.1	15.0	25	10.0	a18.0
14	25	19.4	17.1	25	57	87	51	17.1	11.5	19.4	8.4	a15.0
15	22	19.4	17.1	22	285	62	41	15.0	10.0	15.0	7.9	13.1
16	22	19.4	17.1	22	210	51	41	13.1	8.4	15.0	7.7	11.5
17	22	19.4	17.1	25	241	41	32	11.5	9.0	15.0	7.4	10.0
18	22	19.4	19.4	25	151	32	29	11.5	9.0	41	6.8	8.4
19	25	17.1	47	22	109	32	29	10.0	15.0	19.4	6.3	8.4
20	22	19.4	109	25	80	36	25	9.0	19.4	22	6.1	7.9
21	19.4	19.4	62	56	62	60	25	10.0	17.1	32	5.8	7.9
22	29	22	46	80	56	62	25	10.0	15.0	22	5.8	7.7
23	32	19.4	36	62	51	46	22	9.0	13.1	19.4	5.3	7.4
24	32	25	32	41	56	41	22	9.0	13.1	19.4	4.8	7.1
25	29	25	29	36	68	36	19.4	9.0	11.5	25	4.6	7.1
26	29	22	60	36	117	32	17.1	9.0	11.5	25	4.3	7.1
27	29	22	62	36	102	29	17.1	8.4	11.5	19.4	4.3	7.1
28	25	25	36	32	68	a32	15.0	7.9	15.0	15.0	4.3	7.1
29	22	26	51	32	-	a65	15.0	7.9	11.5	13.1	4.1	7.4
30	22	64	46	29	-	a42	25	9.0	10.0	10.0	4.3	6.8
31	22	-	32	29	-	a32	-	11.5	-	8.4	4.6	-

a No gage-height record; discharge computed on basis of records for stations on Millstone River.

Lawrence Brook at Farrington Dam--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a6.8	270	68	17.1	15.0	170	36	25	17.1	19.4	6.6	7.7
2	a6.8	117	56	19.2	13.1	151	36	25	15.0	15.0	6.3	7.4
3	a6.8	80	46	491	15.0	142	51	39	15.0	15.0	6.1	7.7
4	a6.8	56	36	245	19.4	170	41	252	15.0	13.1	5.8	7.4
5	a6.8	46	29	125	19.4	190	32	125	15.0	13.1	5.5	7.1
6	a7.3	36	25	80	17.1	160	245	68	13.1	11.5	8.3	6.8
7	a8.0	36	25	68	a15.7	109	142	51	13.1	10.0	11.5	6.6
8	7.9	51	25	68	a14.6	87	80	46	11.5	9.0	9.0	6.6
9	7.7	36	36	194	a14.0	102	62	36	11.5	8.4	7.9	6.3
10	7.7	32	46	275	a20	142	94	32	11.5	7.9	7.7	6.1
11	7.7	29	36	109	a16.5	370	117	29	41	12.1	7.4	5.8
12	7.9	32	32	80	a15.0	459	94	25	111	29	7.1	5.8
13	7.7	57	25	68	a15.5	200	109	60	56	22	7.1	6.3
14	7.9	109	25	68	a22	125	102	228	56	15.0	6.8	6.1
15	7.7	56	32	77	a20	94	68	84	106	11.5	6.6	5.8
16	7.4	36	62	151	a19.4	80	60	51	88	10.0	6.8	5.8
17	7.4	154	46	80	19.4	74	46	41	46	8.4	6.6	5.5
18	7.4	319	36	68	32	253	41	32	51	7.9	6.1	26
19	7.4	142	32	80	a32	252	41	36	68	7.9	5.8	92
20	7.1	87	29	56	a26	142	36	41	62	7.9	5.5	46
21	7.1	68	25	51	a22	210	32	29	32	7.7	5.3	36
22	7.1	51	19.4	41	a20	134	32	25	22	7.4	5.3	25
23	7.4	41	19.4	36	a19.8	87	32	25	19.4	7.4	5.0	19.4
24	7.9	41	19.4	29	19.4	74	29	19.4	19.4	7.7	9.6	17.1
25	7.9	36	19.4	25	a31	68	29	19.4	19.4	7.7	8.4	13.1
26	7.7	41	19.4	22	51	46	25	19.4	17.1	7.7	13.1	11.5
27	7.4	41	17.1	22	109	51	29	22	15.0	7.4	11.5	11.5
28	7.1	50	17.1	19.4	117	117	29	19.4	19.4	7.4	9.0	10.0
29	7.4	306	15.0	17.1	142	62	29	17.1	17.1	7.4	10.0	8.4
30	27	118	17.1	17.1	-	46	25	17.1	17.1	7.1	10.0	9.0
31	408	-	17.1	17.1	-	46	-	17.1	-	6.8	7.9	-

a No gage-height record; discharge computed on basis of records for Millstone River near Kingston.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	11.5	9.0	109	163	36	22	46	13.1	19.4	6.3	25
2	61	11.5	24	56	80	36	25	41	11.5	17.1	6.1	22
3	36	11.5	102	117	56	36	22	36	13.1	15.0	15.1	17.1
4	25	11.5	56	87	46	36	22	32	15.0	13.1	18.2	15.0
5	22	13.1	36	51	46	36	22	29	13.1	11.5	16.4	36
6	17.1	13.1	36	36	46	32	87	29	15.0	11.5	15.6	62
7	17.1	13.1	203	90	41	32	74	29	19.4	11.5	15.5	36
8	17.1	13.1	87	109	46	a32	46	25	17.1	10.0	15.5	25
9	17.1	19.4	51	68	51	32	51	25	13.1	9.0	15.5	22
10	22	17.1	46	89	56	29	68	25	11.5	8.4	15.4	19.4
11	19.4	15.0	81	134	46	25	46	22	15.0	8.4	13.2	17.1
12	15.0	13.1	170	74	41	22	36	19.4	17.1	9.0	41	15.0
13	13.1	13.1	87	56	36	25	32	34	15.0	8.4	68	26
14	13.1	13.1	56	46	56	25	29	152	65	7.9	36	36
15	13.1	11.5	46	101	56	32	25	216	56	7.7	25	25
16	13.1	10.0	36	102	46	178	25	87	29	17.1	17.1	19.4
17	122	9.0	146	74	46	110	22	56	22	13.1	15.0	17.1
18	80	8.4	74	151	41	74	22	46	22	10.0	13.1	17.1
19	41	8.4	51	87	41	62	25	41	17.1	8.4	11.5	15.0
20	32	9.0	349	62	36	51	22	36	17.1	7.9	10.0	13.1
21	25	9.0	125	117	36	87	30	29	18.7	7.7	9.0	11.5
22	22	10.0	68	200	217	56	200	29	36	7.4	23	10.0
23	19.4	9.0	46	180	109	41	134	25	25	7.1	62	10.0
24	17.1	13.1	41	109	74	32	68	22	19.4	6.8	80	9.0
25	17.1	15.0	36	220	56	36	46	19.4	15.0	6.6	94	9.0
26	17.1	15.0	36	142	51	46	32	17.1	13.1	6.6	56	9.0
27	15.0	13.1	32	87	46	32	268	17.1	11.5	7.1	85	7.9
28	15.0	11.5	29	68	41	29	160	17.1	15.0	6.8	134	8.4
29	15.0	10.0	25	62	-	29	87	17.1	17.1	6.6	56	9.0
30	13.1	10.0	29	56	-	25	62	17.1	15.0	6.3	41	9.0
31	11.5	-	70	93	-	25	-	15.0	-	6.6	32	-

a No gage-height record; discharge interpolated.

Lawrence Brook at Farrington Dam--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.4	29	62	32	74	29	34	20	19.4	46	41	19.4
2	7.9	25	51	41	51	25	26	c10.0	17.1	32	32	17.1
3	7.9	22	41	41	46	29	24	c5.4	15.0	25	29	15.0
4	7.9	22	36	32	56	29	22	c7.1	15.0	19.4	25	13.1
5	8.6	22	32	29	51	32	21	c8.4	15.0	17.1	25	13.1
6	19.4	19.4	46	25	46	41	21	c11.5	15.0	13.1	36	13.1
7	17.1	19.4	62	111	74	41	21	c11.5	17.8	11.5	62	10.0
8	13.1	19.4	36	88	56	36	34	c10.0	142	11.5	41	10.0
9	11.5	17.1	32	51	46	32	226	c11.5	68	10.0	32	9.0
10	13.1	17.1	29	36	41	29	112	c19.4	36	13.1	29	9.0
11	15.0	15.0	25	32	36	29	62	c19.4	29	11.5	29	9.0
12	13.1	15.0	22	32	32	32	48	c17.1	25	11.5	25	15.9
13	11.5	164	19.4	32	36	36	41	c17.1	25	10.0	22	17.5
14	10.0	182	19.4	32	36	64	38	c17.1	29	21	22	15.4
15	10.0	85	19.4	32	32	185	35	c114	22	29	22	14.1
16	10.0	56	22	29	29	117	31	c74	19.4	19.4	22	13.8
17	10.0	46	29	29	25	117	27	c41	17.1	15.0	22	12.7
18	10.0	41	74	29	25	87	36	c29	19.4	22	22	12.7
19	13.5	32	68	29	49	68	118	c22	19.4	22	22	45
20	75	32	51	25	190	56	67	c19.4	15.0	93	19.4	401
21	66	32	41	25	107	46	45	c17.1	13.1	300	17.1	1 280
22	41	29	36	36	74	41	38	c19.4	11.5	285	15.0	822
23	36	25	32	41	79	36	33	c17.1	11.5	586	15.0	233
24	32	25	32	55	102	32	29	c19.4	13.1	668	13.1	130
25	29	22	41	334	68	29	26	c22	11.5	253	13.1	87
26	22	22	41	168	51	29	25	c19.4	12.6	142	13.1	59
27	22	29	32	80	46	25	23	56	125	94	15.4	36
28	113	159	36	56	41	29	22	51	241	118	25	107
29	78	208	46	41	-	25	22	32	134	68	17.1	150
30	46	94	36	36	-	22	21	25	68	51	17.1	143
31	36	-	32	58	-	29	-	22	-	41	15.0	-

c Stage-discharge relation affected by moss on dam; discharge computed on basis of one discharge measurement, gage-height records, and rating table.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	97	55	56	31	95	220	91	44	10.9	74	15.1	15.3
2	64	37	56	31	130	113	178	39	10.9	25	13.9	15.3
3	49	16	54	31	369	78	98	31	10.0	16.9	13.0	15.3
4	35	4	64	31	490	65	65	31	10.9	14.9	12.8	14.9
5	35	16	75	31	173	91	54	28	10.9	13.3	12.3	14.4
6	35	27	125	35	136	136	184	28	10.0	12.0	11.9	13.4
7	35	45	89	41	128	91	419	28	9.3	10.9	11.2	12.6
8	36	60	78	41	127	59	144	25	8.6	10.0	10.7	12.2
9	39	58	73	77	124	54	98	25	8.6	9.3	10.6	11.6
10	51	56	69	71	121	49	84	25	8.6	10.9	10.3	11.2
11	66	55	62	38	124	44	78	22	10.0	12.0	9.8	10.6
12	64	31	54	30	125	71	84	22	14.9	10.9	9.5	10.2
13	45	21	37	31	122	198	59	22	12.0	10.0	9.1	9.7
14	21	21	30	31	116	162	54	28	39	10.0	8.6	9.3
15	21	41	30	31	108	120	49	25	25	9.3	8.3	9.0
16	21	53	30	32	111	281	49	22	16.9	8.1	8.0	8.7
17	22	39	30	32	105	128	54	22	13.3	7.0	7.8	8.4
18	22	30	30	32	42	84	124	22	16.9	6.1	7.6	7.9
19	22	30	30	32	0	65	128	19.3	16.9	5.7	8.2	7.6
20	22	38	30	32	20	54	128	19.3	22	5.3	15.3	7.3
21	40	56	30	32	33	49	78	19.3	16.9	12.1	15.4	7.6
22	52	62	30	32	33	49	59	31	13.3	15.5	15.4	7.4
23	52	56	30	32	32	49	49	28	13.3	15.4	15.4	7.2
24	52	54	30	32	31	44	44	22	12.0	15.3	15.4	7.0
25	52	53	30	32	32	44	44	19.3	10.9	15.3	15.3	6.9
26	52	53	30	32	38	44	44	16.9	9.3	15.1	15.3	6.8
27	53	55	35	31	95	44	49	14.9	9.3	15.3	15.3	6.6
28	55	56	44	31	139	141	49	14.9	9.3	15.3	15.3	6.7
29	58	58	84	30	-	91	49	13.3	9.3	15.3	14.6	6.6
30	62	57	77	39	-	148	49	12.0	38	15.3	15.3	7.0
31	59	-	31	82	-	158	-	12.0	-	15.3	15.3	-

Lawrence Brook at Farrington Dam--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.6	9.9	9.3	8.6	6.1	25	54	28	221	25	6.5	198
2	8.3	6.3	10.0	8.6	6.1	22	35	31	113	19.3	5.3	164
3	9.2	0	14.9	7.5	6.5	58	31	35	71	19.3	5.0	65
4	9.5	0	13.3	7.0	6.5	403	54	39	49	39	4.7	44
5	9.6	.7	12.0	6.5	7.0	193	39	35	39	28	4.4	35
6	9.5	82	12.0	5.7	8.1	105	31	35	31	22	3.3	28
7	9.3	44	10.9	5.3	10.0	71	25	28	28	19.3	3.6	22
8	9.2	31	9.3	5.0	12.0	59	99	25	25	14.9	3.8	19.3
9	9.2	25	8.1	5.0	13.3	49	350	28	25	14.9	3.1	19.3
10	9.1	22	8.6	5.0	13.3	39	98	25	22	13.3	2.5	19.3
11	8.7	16.9	10.0	4.7	35	31	59	22	25	12.0	1.9	19.3
12	8.3	16.9	10.0	4.4	28	25	118	25	25	14.9	1.6	14.9
13	8.1	16.9	10.9	5.0	22	22	208	25	22	16.9	2.0	13.3
14	7.8	16.9	14.9	13.6	25	32	120	22	19.3	14.9	3.3	12.0
15	7.6	16.9	14.9	183	19.3	284	71	19.3	19.3	12.0	3.6	12.0
16	7.5	14.9	13.3	54	16.9	91	59	79	22	10.0	3.1	12.0
17	7.3	14.9	10.9	28	16.9	65	49	281	19.3	10.0	4.7	12.0
18	7.0	14.9	10.9	22	16.9	71	49	84	19.3	12.0	5.7	12.0
19	7.0	13.3	10.9	19.3	68	71	49	54	19.3	12.0	6.1	12.0
20	6.8	10.9	13.3	16.9	198	54	286	39	19.3	10.9	10.0	12.0
21	9.5	10.0	16.9	13.3	144	65	270	49	14.9	10.0	9.3	12.0
22	15.0	12.0	13.3	13.3	91	59	171	71	14.9	8.6	8.6	12.0
23	15.0	13.3	12.0	12.0	54	59	91	120	14.9	8.6	8.1	10.0
24	15.0	12.0	10.9	10.9	39	35	59	78	25	10.0	7.5	9.3
25	14.9	10.9	10.0	10.9	39	31	49	59	59	12.0	6.5	82
26	14.9	10.9	10.0	10.0	35	25	44	59	44	10.9	27	89
27	14.9	10.9	8.6	8.6	28	25	35	54	31	10.0	28	39
28	14.8	10.0	8.6	7.5	25	25	31	153	35	8.6	59	31
29	14.8	10.0	8.1	7.0	22	25	31	84	65	8.6	54	25
30	14.8	10.0	9.3	6.5	-	31	28	49	31	8.6	39	22
31	9.3	-	9.3	6.5	-	59	-	661	-	7.5	31	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	1 553.4	389	19.4	50.1	49.3	1.43	1.65
November	778.3	64	17.1	25.9	26.6	.773	.86
December	1 253.3	109	15.0	40.4	39.9	1.16	1.34
Calendar year 1934	13 435.8	389	6.1	36.8	36.8	1.07	14.65
January 1935	1 256	98	22	40.5	40.5	1.18	1.36
February	2 113	285	22	75.5	75.8	2.20	2.29
March	1 676	151	29	54.1	53.8	1.56	1.80
April	1 066.6	125	15.0	35.6	35.5	1.03	1.15
May	517.5	56	7.9	16.7	16.6	.483	.56
June	447.8	42	8.4	14.9	14.7	.427	.48
July	682.3	109	6.1	22.0	21.9	.637	.73
August	347.8	46	4.1	11.2	10.7	.311	.36
September	1 126.8	387	4.6	37.6	37.9	1.10	1.23
Water year 1934-35	12 818.8	389	4.1	35.1	35.0	1.02	13.81
October 1935	650.2	408	6.8	21.0	23.1	.672	.77
November	2 574	319	29	85.8	84.5	2.46	2.74
December	952.4	68	15.0	30.7	30.2	.878	1.01
Calendar year 1935	13 410.4	408	4.1	36.7	36.7	1.07	14.48
January 1936	2 716.0	491	17.1	87.6	87.6	2.55	2.94
February	912.3	142	13.1	31.5	32.3	.940	1.01
March	4 413	459	46	142	142	4.13	4.76
April	1 824	245	25	60.8	60.7	1.76	1.96
May	1 555.9	252	17.1	50.2	50.1	1.46	1.68
June	1 020.7	111	11.5	34.0	34.1	.991	1.11
July	335.8	29	6.8	10.8	10.4	.302	.35
August	235.6	13.1	5.0	7.60	7.74	.225	.26
September	435.8	92	5.5	14.5	14.8	.430	.48
Water year 1935-36	17 625.7	491	5.0	48.2	48.2	1.40	19.07

* Adjusted for change in contents in Farrington Reservoir.

Lawrence Brook at Farrington Dam--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	880.5	122	11.5	28.4	28.3	0.823	0.95
November	361.2	19.4	8.4	12.0	12.0	.349	.39
December	2 283.0	349	9.0	73.6	74.7	2.17	2.50
Calendar year 1936	16 973.8	491	5.0	46.4	46.5	1.35	18.39
January 1937	3 033	220	36	97.8	98.1	2.85	3.29
February	1 706	217	36	60.9	60.0	1.74	1.81
March	1 379	178	22	44.5	44.4	1.29	1.49
April	1 810	268	22	60.3	60.6	1.76	1.96
May	1 251.3	216	15.0	40.4	40.0	1.16	1.34
June	603.0	65	11.5	20.1	20.2	.587	.65
July	300.0	19.4	6.3	9.68	9.19	.267	.31
August	1 061.5	134	6.1	34.2	34.8	1.01	1.16
September	573.1	62	7.9	19.1	18.8	.547	.61
Water year 1936-37	15 241.6	349	6.1	41.8	41.7	1.21	16.46
October 1937	814.0	113	7.9	26.3	26.7	.776	.89
November	1 525.4	208	15.0	50.8	51.1	1.49	1.66
December	1 181.2	74	19.4	38.1	37.9	1.10	1.27
Calendar year 1937	15 237.5	268	6.1	41.7	41.7	1.21	16.44
January 1938	1 717	334	25	55.4	55.7	1.62	1.87
February	1 599	190	25	57.1	56.8	1.65	1.72
March	1 457	185	22	47.0	46.9	1.36	1.57
April	1 328	226	21	44.3	43.4	1.26	1.41
May	785.3	114	5.4	25.3	26.0	.756	.87
June	1 221.9	241	11.5	40.7	41.0	1.19	1.33
July	3 059.1	668	10.0	98.7	98.7	2.87	3.31
August	755.4	62	13.1	24.4	24.0	.698	.80
September	3 732.9	1 280	9.0	124	118	3.43	3.83
Water year 1937-38	19 176.2	1 280	5.4	52.5	52.0	1.51	20.53
October 1938	1 389	97	21	44.8	44.1	1.28	1.48
November	1 293	62	4	43.1	43.0	1.25	1.40
December	1 553	125	30	50.1	48.7	1.42	1.64
Calendar year 1938	19 890.6	1 280	4	54.5	53.7	1.56	21.23
January 1939	1 146	82	30	37.0	46.7	1.36	1.57
February	3 199	490	0	114	115	3.34	3.48
March	3 024	281	44	97.5	97.3	2.83	3.26
April	2 736	419	44	91.2	90.8	2.64	2.94
May	731.2	44	12.0	23.6	23.2	.674	.78
June	427.2	39	8.6	14.2	14.9	.433	.48
July	446.8	74	5.3	14.4	9.82	.285	.33
August	382.0	15.4	7.6	12.3	12.5	.363	.42
September	294.7	15.3	6.6	9.82	7.35	.214	.24
Water year 1938-39	16 621.9	490	0	45.5	45.6	1.33	18.02
October 1939	319.5	15.0	6.8	10.3	10.3	.299	.34
November	484.3	82	0	16.1	22.5	.654	.73
December	345.4	16.9	8.1	11.1	11.1	.323	.37
Calendar year 1939	13 536.1	490	0	37.1	37.9	1.10	14.94
January 1940	521.6	183	4.4	16.8	16.7	.485	.56
February	1 011.9	198	6.1	34.9	35.4	1.03	1.11
March	2 209	403	22	71.3	71.6	2.08	2.40
April	2 693	350	25	89.8	89.5	2.60	2.90
May	2 396.3	661	19.3	77.3	78.9	2.29	2.64
June	1 168.5	221	14.9	39.0	37.4	1.09	1.22
July	444.0	39	7.5	14.3	13.8	.401	.46
August	362.2	59	1.6	11.7	12.1	.352	.41
September	1 076.7	198	9.3	35.9	35.8	1.04	1.16
Water year 1939-40	13 032.4	661	0	35.6	36.1	1.05	14.30

* Adjusted for change in contents in Farrington Reservoir.

South River at Old Bridge

Location.- Water-stage recorder above Duhernal Dam, lat. 40°24'09", long. 74°21'58", 1,500 feet downstream from Iresick Brook and 0.6 mile south of Old Bridge, Middlesex County. Datum of gage is at mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 94.6 square miles.

Records available.- August 1939 to September 1940.

Extremes.- 1939-40: Maximum discharge, 1,190 second-feet June 1, 1940 (gage height, 10.73 feet), from rating curve extended above 700 second-feet on basis of laboratory rating; minimum, 33 second-feet Sept. 26, 1939 (gage height, 9.61 feet).

Peak gage height and discharge during period of this record.-
1940: Feb. 20-21 (12 p.m. to 10 a.m.) 10.51 ft., 741 sec.-ft.; Mar. 5 (9 a.m. to 8 p.m.) 10.54 ft., 797 sec.-ft.; Apr. 9-10 (9 p.m. to 4 a.m.) 10.51 ft., 741 sec.-ft.; Apr. 21-22 (8 p.m. to 7 a.m.) 10.63 ft., 973 sec.-ft.; June 1 (10 a.m. to 2 p.m.) 10.73 ft., 1,190 sec.-ft.; Sept. 2 (6 to 7 a.m.) 10.67 ft., 1,060 sec.-ft.

Remarks.- Duhernal Dam, constructed in 1939, forms a pond to supply ground water to be pumped from nearby wells constructed at the same time. Records of pumpage from these wells and run-off in the river, studied by comparison with run-off in nearby streams, indicate that the flow in the river was not diminished because of water pumped from the wells until after the period of the records published herein. During this period the water pumped from these wells probably was drawn from ground storage, rather than from infiltration from the pond.

Cooperation.- Water-stage recorder inspected by employee of E. I. du Pont de Nemours & Co.

Daily discharge, in second-feet, 1939-40

1939

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1	-	91	7	39	51	13	36	44	19	49	35	25	60	36
2	-	73	8	39	49	14	38	44	20	317	35	26	60	35
3	-	64	9	41	51	15	38	42	21	290	36	27	70	36
4	-	60	10	42	49	16	38	39	22	166	36	28	64	42
5	-	58	11	41	48	17	36	38	23	102	36	29	60	48
6	-	54	12	38	46	18	36	36	24	68	36	30	72	51
												31	96	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	290	64	56	48	110	181	124	1 080	102	42	441
2	93	166	66	54	48	105	137	124	524	86	39	850
3	159	130	75	53	49	126	124	144	255	79	39	380
4	130	105	79	49	49	553	159	151	173	122	38	181
5	99	108	77	49	51	778	181	137	144	144	38	137
6	79	356	73	49	54	488	113	124	137	105	90	110
7	73	a250	68	46	68	255	110	113	124	86	116	96
8	64	a190	62	46	81	222	144	108	102	77	79	86
9	60	a160	60	49	77	173	658	108	99	68	58	81
10	60	a140	62	51	75	159	537	113	166	62	49	86
11	54	a120	62	48	132	130	255	105	151	60	44	84
12	51	a110	64	48	159	113	255	102	124	84	42	79
13	49	a95	62	53	124	113	402	102	110	96	46	75
14	49	a90	68	72	108	116	429	99	96	84	92	70
15	48	81	73	324	91	449	279	96	94	73	94	68
16	48	79	73	384	81	574	211	109	91	64	68	66
17	49	a75	70	181	96	315	190	473	79	62	64	62
18	48	a70	70	124	94	244	173	383	75	60	64	62
19	46	a70	70	105	155	233	173	200	79	58	85	58
20	44	68	70	a90	542	190	392	159	116	54	211	58
21	44	68	73	a80	673	173	854	173	94	53	166	58
22	54	66	68	a70	378	166	891	315	79	49	108	54
23	66	66	66	64	200	166	480	436	75	51	79	54
24	58	66	64	62	159	119	279	378	79	58	66	53
25	54	66	60	60	159	113	222	290	171	56	58	115
26	53	66	58	56	144	108	190	200	144	54	108	352
27	54	64	58	53	116	110	173	200	181	51	159	211
28	62	64	56	49	119	110	159	233	130	51	247	137
29	60	64	54	48	113	110	144	211	144	51	365	108
30	60	64	56	48	-	110	130	173	130	48	290	91
31	135	-	56	48	-	159	-	518	-	44	190	-

a No gage-height record; discharge computed on basis of records for Lawrence Brook at Farrington Dam.

South River at Old Bridge--Continued

Monthly and annual discharge, in second-feet, 1939-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
August 7-31, 1939	1 936	317	36	77.4	0.818	0.76
September	1 399	91	35	46.6	.493	.55
Water year	-	-	-	-	-	-
October 1939	2 059	159	44	66.4	.702	.81
November	3 407	356	64	114	1.21	1.35
December	2 037	79	54	65.7	.695	.80
Calendar year	-	-	-	-	-	-
January 1940	2 569	384	46	82.9	.876	1.01
February	4 243	673	48	146	1.54	1.66
March	6 890	778	105	222	2.35	2.71
April	8 625	891	110	288	3.04	3.39
May	6 201	518	96	200	2.11	2.43
June	5 046	1 080	75	168	1.78	1.99
July	2 192	144	44	70.7	.747	.86
August	3 234	365	38	104	1.10	1.27
September	4 363	850	53	145	1.53	1.71
Water year 1939-40	50 866	1 080	38	139	1.47	19.99

Note.- No adjustment made for pumpage from wells near the river above station.

Deep Run near Browntown

Location.- Water-stage recorder and wooden control, lat. 40°22'32", long. 74°18'08", half a mile downstream from Middlesex-Monmouth County line and 1¾ miles south of Browntown, Middlesex County.

Drainage area.- 8.07 square miles.

Records available.- August 1932 to November 1940 (discontinued).

Average discharge.- 8 years, 14.0 second-feet.

Extremes.- 1932-40: Maximum discharge, 1,240 second-feet Sept. 21, 1938 (gage height, 9.61 feet), from rating curve extended above 400 second-feet; minimum, 0.1 second-foot Feb. 3, 1936, and July 23, 1939 (gage height, 1.15 feet).

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	8.4	11.7	41	b8.6	16.4	12.1	11.7	13.0	2.8	1.9	1.0
2	15.9	8.4	11.3	23	b9.3	21	11.7	9.8	7.7	2.4	2.6	1.2
3	13.0	8.0	9.4	15.0	10.5	26	10.5	9.8	5.9	2.2	6.8	1.7
4	11.3	10.1	16.4	11.0	10.5	17.7	9.8	9.1	6.6	2.2	4.5	7.1
5	10.5	14.2	13.8	8.4	9.1	16.4	9.8	9.1	10.9	2.2	3.4	17.7
6	82	15.7	11.3	9.4	9.0	15.5	15.5	9.1	11.7	2.1	2.4	65
7	37	16.8	10.2	10.2	8.4	14.2	12.6	28	9.8	1.9	2.2	22
8	18.1	12.1	8.8	11.3	8.8	13.8	10.9	26	10.2	1.9	2.2	10.5
9	14.2	10.2	7.0	12.6	9.8	12.1	125	15.0	36	6.2	1.9	8.0
10	12.1	9.4	6.2	17.2	14.2	11.7	56	12.6	18.6	14.6	1.8	10.9
11	11.7	10.9	6.0	15.5	13.0	12.6	26	11.3	13.8	7.7	2.2	7.0
12	10.2	10.5	5.4	11.7	11.3	18.3	24	9.8	10.2	4.8	2.4	5.6
13	9.4	9.4	6.2	9.8	10.0	45	34	9.1	8.0	3.6	1.9	4.8
14	9.1	9.1	6.4	9.8	15.8	24	23	9.1	6.4	3.2	1.7	4.2
15	8.8	8.4	6.4	9.1	124	18.1	18.6	8.4	5.6	2.8	1.7	4.0
16	8.4	8.0	6.4	8.8	76	15.9	17.2	7.4	4.8	2.8	1.7	3.8
17	8.4	8.0	7.0	9.4	84	14.2	15.9	7.0	4.2	2.6	1.4	3.4
18	8.4	8.0	7.0	11.3	42	12.1	14.2	6.7	6.8	2.2	1.4	3.2
19	8.0	7.7	23	9.1	27	12.1	13.0	6.2	9.8	2.1	1.4	3.0
20	7.7	7.7	40	11.0	22	13.8	12.1	5.6	9.4	5.0	1.4	2.8
21	7.4	7.7	15.9	16.8	17.2	18.6	11.7	5.6	6.7	5.6	1.4	2.8
22	13.7	7.7	12.6	17.7	15.9	17.7	11.3	5.6	5.9	3.6	1.5	6.6
23	11.3	7.7	11.3	13.7	15.9	14.2	10.5	5.3	5.0	2.8	2.0	3.8
24	9.4	9.8	10.9	b12.0	18.1	15.0	10.5	5.3	4.2	2.4	1.3	3.2
25	8.8	9.1	10.2	b10.2	20	13.0	10.2	5.3	3.8	5.8	1.0	2.8
26	10.2	8.4	15.4	b8.8	28	11.7	9.4	5.0	3.4	10.1	1.0	2.6
27	12.1	8.4	15.9	b8.1	28	10.5	9.1	4.5	3.2	4.8	1.0	2.6
28	10.5	8.4	10.5	b9.4	21	14.0	8.8	4.2	3.4	3.4	1.0	2.4
29	9.4	8.4	17.2	b12.6	-	27	8.8	4.2	3.0	2.6	.9	2.4
30	8.8	10.2	15.5	b9.0	-	15.9	13.4	6.7	3.0	2.2	1.2	2.2
31	8.4	-	10.2	b8.0	-	13.0	-	11.3	-	2.1	1.3	-

b Stage-discharge relation affected by ice.

Deep Run near Browntown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	76	20	10.5	1.2	b48	13.8	8.6	3.4	4.9	1.5	1.4
2	2.1	24	16.4	8.0	2.3	40	16.1	7.9	2.9	3.6	1.3	1.1
3	2.1	18.1	14.2	195	2.3	44	19.5	8.6	2.5	2.9	1.2	1.4
4	1.9	13.4	13.0	49	8.6	60	15.2	26	2.7	2.7	1.1	1.5
5	1.8	11.7	10.9	26	8.9	42	13.3	19.5	2.7	3.1	1.1	1.3
6	2.2	10.5	10.5	18.0	7.2	29	48	13.3	2.1	2.9	1.5	1.1
7	4.8	11.4	9.1	19.0	6.0	20	31	11.2	2.0	2.3	2.3	1.0
8	3.8	18.1	9.8	18.5	6.3	17.1	22	10.0	2.0	2.0	1.6	.9
9	3.4	12.6	13.8	59	5.7	20	18.0	8.6	2.1	1.6	1.3	.8
10	3.0	10.5	13.8	75	11.2	28	29	7.5	2.1	1.5	1.2	.8
11	3.0	9.8	12.1	25	8.2	132	38	7.2	2.6	8.2	1.1	.8
12	5.6	10.5	10.5	20	6.6	132	27	6.6	11.7	35	1.1	.8
13	4.2	10.9	10.5	19.0	6.0	38	27	7.2	9.2	8.2	1.1	1.2
14	3.6	9.8	10.2	17.5	6.6	26	24	14.2	14.7	6.0	.9	1.0
15	3.4	8.8	10.4	26	8.2	23	19.5	9.6	13.8	11.2	.9	.9
16	3.0	8.0	16.4	49	11.6	22	17.1	7.5	10.8	5.2	1.0	.9
17	2.6	60	13.0	23	b15.0	22	14.7	6.6	6.6	3.6	1.0	.8
18	2.6	110	10.5	20	b26	59	13.3	6.3	14.9	2.9	.8	29
19	2.6	33	10.2	23	b25	41	12.9	7.5	16.1	2.7	.8	173
20	2.6	20	9.8	23	b17.0	28	12.4	6.9	10.0	2.3	.7	17.1
21	2.6	15.9	7.7	14.2	b12.5	40	11.6	6.0	6.9	2.3	.9	76
22	2.8	13.8	6.7	12.0	11.1	28	10.8	5.2	4.9	2.0	.9	20
23	3.2	12.1	7.4	10.0	10.0	20	10.4	4.9	3.8	1.8	.9	12.9
24	3.8	12.1	7.0	9.6	7.2	18.0	10.0	4.6	4.9	2.3	2.8	10.0
25	4.5	11.7	5.9	9.6	b30	17.1	9.6	4.1	4.9	3.1	1.4	8.2
26	4.0	11.7	6.4	8.6	b46	15.6	9.3	3.6	3.6	4.1	4.5	6.6
27	3.0	12.1	7.0	7.5	b40	20	9.3	4.3	2.9	5.4	2.3	6.0
28	2.8	22	7.0	8.2	b30	36	8.9	4.6	4.3	4.8	1.8	5.7
29	3.0	144	6.7	6.6	b52	22	8.9	3.8	4.6	2.3	3.9	4.9
30	4.8	32	7.7	4.3	-	18.0	8.9	3.8	4.6	2.9	3.4	6.0
31	76	-	8.0	4.9	-	15.6	-	3.4	-	2.0	1.8	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	5.4	3.4	21	36	11.2	9.6	17.5	5.4	5.7	1.5	8.6
2	20	5.4	9.9	16.1	21	10.8	10.0	15.6	4.9	4.1	1.3	6.9
3	12.0	5.4	38	31	16.6	10.8	10.0	14.2	4.6	3.6	2.7	5.4
4	9.3	6.0	17.1	25	13.8	10.4	9.3	12.9	6.0	3.1	1.6	4.6
5	7.9	6.6	11.6	17.5	13.3	10.4	9.3	12.0	4.9	2.9	1.4	8.0
6	6.9	6.3	12.4	14.7	12.9	10.4	39	12.4	4.6	3.1	1.2	14.3
7	6.6	6.0	75	25	12.9	10.0	24	13.3	5.4	3.1	1.2	8.6
8	6.6	6.6	24	28	13.8	11.6	16.6	12.0	4.6	2.5	1.3	6.3
9	6.9	14.2	16.6	20	16.6	17.1	19.0	11.6	4.3	2.1	1.4	5.2
10	7.2	9.6	21	26	17.1	12.0	21	11.2	3.6	1.8	1.3	4.6
11	6.6	7.5	31	36	13.8	10.8	15.6	10.0	8.8	2.3	2.9	4.3
12	5.4	6.9	50	22	12.0	10.4	13.3	9.3	9.3	8.2	4.6	4.1
13	4.9	6.6	26	17.5	11.6	10.0	12.0	8.9	6.0	5.2	4.9	16.6
14	4.9	6.0	17.5	16.1	21	10.0	11.6	41	20	3.6	2.7	24
15	4.6	6.0	14.7	28	20	15.4	11.2	63	11.6	3.6	1.6	10.4
16	4.6	6.0	13.3	28	15.6	68	10.4	24	7.2	8.8	1.4	7.2
17	60	5.4	60	20	14.2	31	10.0	17.5	5.4	4.9	1.2	6.0
18	38	4.9	25	28	13.3	22	9.3	13.8	5.7	3.1	1.1	6.0
19	16.1	4.3	18.0	23	12.9	18.0	10.0	13.3	5.2	2.3	1.1	5.4
20	12.0	4.6	163	22	12.9	16.1	9.3	14.2	4.9	2.0	1.1	5.2
21	10.0	5.2	35	51	12.9	28	13.2	11.6	5.7	1.8	.9	4.3
22	8.9	4.9	21	48	67	19.5	52	10.0	35	1.5	10.5	3.8
23	7.9	4.6	16.6	43	27	15.6	34	8.6	13.3	1.4	83	3.8
24	7.5	7.2	14.7	33	20	13.8	20	7.5	8.2	1.4	42	3.6
25	7.2	7.9	14.2	50	17.1	14.2	15.6	6.9	6.0	1.3	33	3.6
26	6.9	6.9	14.2	29	14.7	15.6	14.2	6.3	4.9	2.0	18.5	3.4
27	6.9	5.7	13.3	21	14.2	12.9	139	6.6	4.3	6.0	19.0	3.1
28	6.6	4.3	12.9	17.1	12.0	12.4	46	11.2	4.9	2.9	12.4	3.8
29	6.3	4.6	11.6	17.1	-	11.2	28	8.9	5.7	2.0	9.3	4.9
30	6.3	4.6	11.2	15.6	-	10.4	21	7.2	4.6	1.6	13.1	4.1
31	5.7	-	14.2	24	-	10.0	-	6.0	-	1.6	14.4	-

Deep Run near Browntown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	9.6	18.0	11.2	16.8	10.8	8.2	6.0	5.4	16.1	15.0	4.4
2	3.1	8.9	14.7	11.2	12.0	10.0	7.5	5.7	4.6	12.9	11.3	3.8
3	3.1	8.6	12.9	11.2	12.4	10.0	7.2	5.4	4.1	10.8	9.4	3.3
4	3.1	7.9	11.2	11.2	15.6	7.9	6.6	5.2	4.1	9.3	8.6	2.9
5	3.1	7.5	10.8	11.2	11.6	10.4	6.3	4.9	4.6	7.9	9.4	2.6
6	9.4	7.2	29	10.8	11.2	13.8	6.0	4.9	5.2	6.6	8.6	2.4
7	6.6	6.9	24	43	21	11.2	7.2	4.6	3.8	6.0	10.9	2.4
8	4.9	6.6	15.2	26	14.2	10.0	15.1	3.8	15.7	5.4	14.2	2.4
9	4.1	6.6	12.9	15.8	12.4	8.9	56	4.1	8.2	4.6	10.9	2.4
10	5.2	6.3	10.0	12.0	11.6	8.6	24	8.9	4.9	4.9	8.6	2.3
11	6.6	6.0	7.9	11.2	10.0	8.5	14.7	8.9	4.6	4.9	10.8	2.3
12	5.4	6.0	7.9	10.8	9.6	10.4	12.4	7.9	7.9	5.2	13.6	2.1
13	4.9	90	6.9	12.9	10.0	9.6	10.8	6.9	14.4	4.6	8.3	2.6
14	4.3	51	6.6	12.9	10.8	14.4	10.0	6.3	14.1	6.6	6.6	2.8
15	4.1	23	6.6	11.2	9.3	33	9.3	40	8.2	10.7	5.8	9.6
16	3.8	17.1	7.5	9.4	8.2	21	8.6	19.0	6.3	6.0	5.5	6.6
17	3.8	14.2	10.4	9.6	7.6	22	8.2	11.2	5.4	4.9	5.5	4.7
18	3.6	12.4	18.3	7.9	8.9	18.5	10.0	8.6	18.4	4.9	5.8	5.5
19	4.3	12.0	21	6.8	16.9	14.7	26	7.5	10.2	9.5	5.8	15.0
20	57	12.0	17.5	7.9	63	12.9	14.2	7.2	6.3	173	4.4	36
21	30	12.0	15.2	6.6	26	11.6	10.8	6.6	5.2	141	4.2	474
22	15.2	10.4	13.3	10.4	18.0	10.4	10.8	8.6	4.3	79	4.0	134
23	13.3	9.6	12.4	12.0	21	10.0	10.0	7.5	40	70	3.5	31
24	11.6	8.9	11.6	12.0	26	9.3	8.6	6.3	36	213	3.3	22
25	9.6	8.9	11.6	63	17.1	8.6	7.9	6.3	12.8	50	3.1	16.8
26	8.9	8.6	11.6	28	13.3	8.6	7.5	7.6	8.1	27	2.9	13.8
27	8.6	9.3	11.6	15.4	12.9	8.2	7.2	22	185	22	2.9	15.0
28	42	45	11.2	10.8	11.0	7.5	6.9	15.2	211	18.2	5.7	29
29	23	79	11.2	8.9	-	7.2	6.6	9.6	44	15.4	4.0	17.7
30	14.7	26	11.2	9.3	-	7.2	6.3	7.2	23	12.5	3.3	15.4
31	11.2	-	11.2	17.6	-	8.2	-	6.0	-	12.1	3.1	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.4	13.4	19.0	11.3	31	74	24	14.6	3.8	6.3	1.3	7.0
2	13.0	12.1	16.8	11.3	26	28	39	13.8	3.5	3.8	1.2	4.7
3	11.7	11.7	15.4	11.7	168	22	25	13.0	6.6	2.8	1.1	4.0
4	11.3	11.3	48	11.7	106	21	20	12.5	13.4	2.6	1.2	3.5
5	10.5	11.3	40	10.9	34	30	17.7	11.7	8.5	2.4	1.6	3.1
6	15.8	12.1	54	104	26	37	64	11.3	3.3	2.3	1.1	2.8
7	42	13.8	27	32	29	25	118	10.9	3.1	2.1	1.0	2.6
8	20	13.0	21	21	29	19.0	31	10.1	3.1	2.0	1.0	2.6
9	15.0	18.6	23	16.8	25	18.6	26	10.1	2.9	1.8	1.3	3.3
10	13.0	14.2	29	16.8	32	17.2	24	10.1	2.6	2.1	1.1	2.9
11	12.1	12.5	21	15.9	67	15.4	22	9.4	2.9	2.4	.9	2.8
12	11.3	11.3	18.2	13.8	31	32	21	9.4	2.8	2.0	.9	2.4
13	10.9	10.9	16.4	12.1	24	65	17.7	9.8	2.9	1.7	.9	2.4
14	10.5	10.9	14.6	13.8	21	37	16.8	10.9	18.8	2.4	.9	2.3
15	10.5	10.1	13.4	12.7	23	28	16.4	10.1	8.7	2.1	.9	2.1
16	10.1	9.4	12.1	12.5	30	75	15.4	9.8	5.5	1.6	.8	2.0
17	9.8	10.9	12.1	12.1	19.5	31	18.6	9.4	4.2	1.4	1.0	1.8
18	9.4	11.7	13.0	12.1	18.6	24	27	9.0	4.7	1.4	.9	1.6
19	9.4	39	13.0	12.1	18.2	20	37	8.3	4.7	1.4	9.3	1.4
20	9.4	153	12.5	10.7	17.7	19.0	35	8.3	6.3	1.3	41	1.6
21	14.2	30	11.7	11.3	17.2	18.2	22	8.3	5.2	1.4	7.9	1.7
22	11.7	21	11.3	13.4	17.2	17.2	19.0	9.0	3.5	1.4	4.7	1.7
23	10.1	18.6	10.1	15.2	15.0	16.4	16.8	7.9	3.3	1.3	3.1	1.6
24	10.9	17.7	10.1	12.1	13.4	15.9	15.4	7.3	3.1	1.3	2.8	1.6
25	13.8	17.2	10.1	11.8	13.4	15.9	15.0	6.6	2.8	1.2	2.6	1.6
26	11.3	17.2	9.4	10.8	50	15.4	19.0	6.0	2.6	1.3	8.2	1.4
27	10.5	17.2	50	10.1	48	15.0	21	5.8	2.6	1.3	5.0	2.0
28	16.2	16.8	20	10.1	61	37	17.7	5.8	2.6	2.1	3.3	3.1
29	42	15.9	14.2	12.3	-	26	16.8	5.2	2.4	1.7	9.8	2.4
30	24	16.8	12.5	134	-	46	15.9	9.6	6.2	1.8	11.1	2.9
31	16.4	-	11.3	85	-	41	-	8.8	-	1.7	10.5	-

Deep Run near Browntown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	30	4.4	3.7	3.1	10.4	16.6	10.8	42	7.6	1.6	37
2	15.4	12.1	5.0	3.5	3.1	9.6	12.4	11.2	25	6.1	1.5	21
3	19.0	8.6	7.0	3.3	b3.0	22	11.6	12.0	18.0	5.2	1.5	12.2
4	9.8	7.3	6.0	b3.2	4.0	106	21	12.0	13.3	16.0	1.5	9.0
5	7.0	25	5.5	b3.1	4.2	47	16.1	11.6	10.8	10.0	1.5	7.3
6	5.5	40	5.2	b3.0	4.7	30	12.4	10.4	9.6	7.3	2.3	6.2
7	4.7	15.9	4.7	b3.0	8.3	23	10.8	9.6	8.2	5.5	14.6	5.4
8	4.0	11.7	4.4	b3.0	7.0	20	26	8.9	7.3	4.8	5.8	5.2
9	3.8	9.8	4.2	b3.0	6.3	18.5	78	10.0	9.3	4.1	3.5	6.4
10	3.3	8.3	4.2	b3.0	8.1	15.6	27	9.6	20	3.7	2.6	6.4
11	3.1	8.3	4.2	b3.0	19.9	12.3	20	8.6	12.4	3.7	2.4	5.9
12	3.1	7.9	4.0	b3.5	12.1	11.2	26	8.6	10.4	11.2	2.1	5.6
13	2.9	7.0	4.0	7.3	10.1	10.4	51	8.2	8.6	8.9	3.2	4.9
14	2.8	6.6	5.2	13.5	8.0	12.3	32	7.9	7.0	6.4	6.0	4.4
15	2.6	6.3	5.2	78	b7.0	89	24	7.3	6.1	4.8	3.2	4.2
16	2.6	6.0	5.0	21	b7.0	29	20	18.8	5.5	3.9	2.5	4.0
17	2.6	6.0	5.0	15.9	b7.0	23	17.5	61	4.8	3.9	3.3	3.6
18	2.6	5.8	4.7	10.5	8.3	24	15.2	23	4.8	3.9	4.1	3.6
19	2.6	5.8	4.4	9.4	62	22	14.2	15.6	9.0	3.3	4.8	3.5
20	2.8	5.2	5.0	a7.0	108	18.5	72	12.0	15.1	2.8	8.8	3.5
21	2.8	5.2	6.0	a6.0	42	18.0	88	11.6	7.9	2.6	4.1	3.3
22	6.1	5.2	5.2	a5.5	28	18.0	45	12.9	6.1	2.4	3.0	3.1
23	4.7	5.2	4.7	b5.0	20	16.1	27	31	5.2	2.4	2.6	2.9
24	3.5	5.2	3.7	b4.7	16.6	12.7	21	21	8.0	2.5	2.8	2.9
25	3.1	5.2	3.8	b4.2	18.0	11.4	18.0	19.5	15.6	2.5	2.4	26
26	3.3	5.2	3.8	b3.8	16.0	10.4	16.1	19.5	14.7	2.5	17.1	28
27	3.5	4.7	3.1	b3.5	12.4	10.4	13.8	16.1	11.6	2.2	12.6	11.8
28	3.8	4.4	3.3	3.5	11.2	10.8	12.4	18.5	9.5	2.1	31	9.0
29	3.8	4.4	3.5	3.3	10.8	10.8	11.2	14.7	17.5	1.9	27	7.3
30	4.0	4.4	4.0	3.3	-	11.6	10.8	11.2	10.4	1.9	17.7	6.7
31	26	-	4.0	3.1	-	19.0	-	163	-	1.8	13.8	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.

1940

Day	Oct.	Nov.	Day	Oct.	Nov.	Day	Oct.	Nov.	Day	Oct.	Nov.	Day	Oct.	Nov.
1	6.4	12.6	7	7.9	9.3	13	6.7	22	19	5.4	-	25	5.4	-
2	19.1	22	8	7.6	8.3	14	6.2	39	20	5.4	-	26	5.4	-
3	23	21	9	11.0	7.9	15	5.9	50	21	5.6	-	27	5.2	-
4	13.4	12.6	10	9.0	7.6	16	5.6	24	22	5.4	-	28	5.2	-
5	10.4	11.4	11	7.6	7.3	17	5.6	17.7	23	5.4	-	29	4.9	-
6	8.6	10.4	12	7.0	12.2	18	5.6	f13.8	24	5.4	-	30	15.6	-
												31	19.4	-

f Discharge computed on basis of partly estimated gage height.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	439.2	82	7.4	14.2	1.76	2.03
November	286.8	16.8	7.7	9.56	1.18	1.32
December	365.5	40	5.4	11.8	1.46	1.68
Calendar year 1934	5 312.7	262	1.7	14.6	1.81	24.50
January 1935	390.9	41	8.0	12.7	1.57	1.81
February	687.4	124	8.4	24.6	3.05	3.18
March	521.5	45	10.5	16.8	2.08	2.40
April	575.6	125	8.8	19.2	2.38	2.66
May	283.8	28	4.2	9.15	1.13	1.30
June	251.0	36	3.0	8.37	1.04	1.16
July	120.7	14.6	1.9	3.89	.483	.56
August	60.5	6.8	.9	1.95	.242	.28
September	218.3	65	1.0	7.28	.902	1.01
Water year 1934-35	4 201.2	125	.9	11.5	1.43	19.48

Deep Run near Browntown--Continued
Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1935	171.0	76	1.8	5.52	0.684	0.79
November	774.5	144	8.0	25.8	3.20	3.57
December	322.6	20	5.9	10.4	1.29	1.49
Calendar year 1935	4 377.8	144	.9	12.0	1.49	20.21
January 1936	819.0	195	4.3	26.4	3.27	3.77
February	428.7	52	1.2	14.8	1.83	1.97
March	1 121.4	132	15.6	36.2	4.49	5.18
April	529.5	48	8.9	17.6	2.18	2.43
May	249.1	26	3.4	8.30	1.03	1.19
June	180.3	16.1	2.0	6.01	.745	.83
July	145.8	35	1.5	4.70	.582	.67
August	48.1	4.5	.7	1.55	.192	.22
September	393.1	173	.8	13.1	1.62	1.81
Water year 1935-36	5 183.1	195	.7	14.2	1.76	23.92
October 1936	363.7	60	4.6	11.7	1.45	1.67
November	185.6	14.2	4.3	6.19	.767	.86
December	826.4	163	3.4	26.7	3.31	3.82
Calendar year 1936	5 290.7	195	.7	14.5	1.80	24.42
January 1937	813.7	51	14.7	26.2	3.25	3.75
February	506.2	67	11.6	18.1	2.24	2.33
March	490.0	68	10.0	15.8	1.96	2.26
April	663.5	139	9.3	22.1	2.74	3.06
May	438.5	63	6.0	14.1	1.75	2.02
June	225.0	35	3.6	7.50	.929	1.04
July	99.5	8.8	1.3	3.21	.398	.46
August	293.6	83	.9	9.47	1.17	1.35
September	200.1	24	3.1	6.67	.827	.92
Water year 1936-37	5 105.8	163	.9	14.0	1.73	23.54
October 1937	332.1	57	3.1	10.7	1.33	1.53
November	537.5	90	6.0	17.9	2.22	2.48
December	401.4	29	6.6	12.9	1.60	1.84
Calendar year 1937	5 001.1	139	.9	13.7	1.70	23.04
January 1938	458.2	63	6.6	14.8	1.83	2.11
February	438.4	63	7.6	15.7	1.95	2.03
March	363.4	33	7.2	11.7	1.45	1.67
April	350.9	56	6.0	11.7	1.45	1.62
May	279.9	40	3.8	9.03	1.12	1.29
June	725.8	211	3.8	24.2	3.00	3.35
July	975.0	213	4.6	31.5	3.90	4.50
August	219.0	15.0	2.9	7.06	.875	1.01
September	884.8	474	2.1	29.5	3.66	4.08
Water year 1937-38	5 966.4	474	2.1	16.3	2.02	27.51
October 1938	453.2	42	9.4	14.6	1.81	2.09
November	599.6	153	9.4	20.0	2.48	2.77
December	610.2	54	9.4	19.7	2.44	2.81
Calendar year 1938	6 358.4	474	2.1	17.4	2.16	29.33
January 1939	701.4	134	10.1	22.6	2.80	3.23
February	1 011.2	168	13.4	36.1	4.47	4.66
March	902.2	75	15.0	29.1	3.61	4.16
April	794.2	118	15.0	26.5	3.28	3.66
May	292.8	14.6	5.2	9.45	1.17	1.35
June	146.6	18.8	2.4	4.89	.606	.68
July	62.4	6.3	1.2	2.01	.249	.29
August	138.4	41	.8	4.46	.553	.64
September	76.9	7.0	1.4	2.56	.317	.35
Water year 1938-39	5 789.1	168	.8	15.9	1.97	26.69
October 1939	169.0	26	2.6	5.45	.675	.78
November	282.7	40	4.4	9.42	1.17	1.30
December	142.4	7.0	3.1	4.59	.569	.66
Calendar year 1939	4 720.2	168	.8	12.9	1.60	21.76
January 1940	246.8	78	3.0	7.96	.986	1.14
February	476.2	108	3.0	16.4	2.03	2.19
March	703.0	106	9.6	22.7	2.81	3.24
April	787.1	88	10.8	26.2	3.25	3.63
May	616.1	163	7.3	19.9	2.47	2.85
June	353.7	42	4.8	11.8	1.46	1.63
July	147.9	16.0	1.8	4.77	.591	.68
August	210.9	31	1.5	6.80	.843	.97
September	260.3	37	2.9	8.68	1.08	1.20
Water year 1939-40	4 396.1	163	1.5	12.0	1.49	20.27
October 1940	260.3	23	4.9	8.40	1.04	1.20
November 1-18	309.1	50	7.3	17.2	2.13	1.43

Tennent Brook near Browntown

Location.- Water-stage recorder and wooden control, lat. 40°24'57", long. 74°19'08", 1¼ miles northwest of Browntown, Middlesex County, and 2 miles upstream from mouth. Datum of gage is 10.00 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 5.25 square miles.

Records available.- August 1932 to September 1940.

Average discharge.- 8 years, 4.59 second-feet.

Extremes.- 1932-40: Maximum discharge, 177 second-feet Sept. 21, 1938 (gage height, 10.69 feet), from rating curve extended above 40 second-feet; practically no flow on many days in August, September, and October 1932.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.0	2.2	3.4	25	1.4	6.0	4.0	3.2	2.9	0.23	0.07	0.04
2	6.8	2.2	3.5	9.9	1.5	13.1	3.6	2.4	1.2	.15	.11	.04
3	5.0	2.0	2.4	4.8	1.9	13.7	3.0	2.2	.73	.12	1.1	.06
4	4.0	3.3	7.6	3.0	2.1	6.6	2.7	2.1	1.3	.10	.31	.68
5	3.4	3.9	4.1	1.9	1.9	6.0	2.7	2.0	2.1	.10	.41	3.2
6	53	5.1	3.2	2.2	1.7	5.5	6.1	2.0	2.4	.10	.15	18.3
7	27	4.8	2.6	2.9	1.5	4.6	3.8	8.5	1.5	.09	.11	3.9
8	7.8	3.2	2.0	3.6	1.5	4.8	3.3	6.3	2.4	.09	.10	1.2
9	5.0	2.6	1.5	4.2	1.9	3.8	54	3.4	11.6	1.2	.08	.81
10	4.2	2.3	1.2	6.4	3.0	3.5	31	2.9	4.5	3.7	.06	1.4
11	3.8	2.9	1.1	4.7	3.2	4.0	12.8	2.3	3.0	1.1	.08	.68
12	3.4	2.9	.88	3.2	3.2	9.7	14.0	2.0	1.7	.48	.09	.43
13	2.7	2.3	1.1	2.1	2.9	27	22	1.8	1.2	.27	.07	.31
14	2.4	2.0	1.2	2.3	4.6	10.9	10.8	1.8	.86	.23	.08	.25
15	2.3	1.6	1.1	1.6	56	6.8	7.4	1.5	.68	.15	.07	.25
16	2.1	1.6	1.2	1.6	48	5.5	6.6	1.3	.56	.15	.05	.19
17	2.1	1.6	1.4	1.8	51	4.6	5.2	1.3	.44	.14	.04	.17
18	2.1	1.6	1.3	2.7	26	3.5	4.4	1.1	.96	.12	.04	.14
19	2.0	1.6	12.5	1.8	15.6	3.5	3.8	1.0	1.4	.13	.04	.12
20	1.8	1.6	21	4.8	9.8	4.0	3.6	.92	1.4	1.3	.04	.11
21	1.8	1.6	5.2	6.6	6.1	9.2	3.4	.92	.79	.68	.04	.10
22	12.7	1.7	3.8	8.4	5.5	6.2	3.2	.92	.60	.31	.04	.33
23	4.4	1.7	3.0	5.2	5.9	4.6	2.9	.80	.49	.17	.04	.19
24	3.0	2.3	2.9	b4.0	8.3	5.0	2.6	.84	.34	.63	.03	.11
25	2.6	2.0	2.7	b2.5	9.6	3.6	2.4	.76	.29	1.0	.02	.09
26	5.5	1.6	9.2	b1.6	17.2	3.4	2.2	.68	.23	.80	.03	.08
27	4.8	1.6	4.9	b1.5	13.9	2.9	2.1	.54	.38	.31	.03	.07
28	3.6	1.6	2.9	b1.8	7.6	10.1	2.0	.46	.83	.17	.03	.07
29	2.7	1.6	8.4	b2.2	-	17.7	1.9	.85	.37	.11	.03	.09
30	2.3	2.5	4.4	b1.7	-	6.3	5.6	1.4	.27	.09	.03	.09
31	2.2	-	2.4	b1.4	-	4.4	-	3.6	-	.07	.04	-

b Stage-discharge relation affected by ice.

Tennent Brook near Browntown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.06	20	7.1	0.88	0.77	31	4.1	2.0	0.51	0.71	0.10	0.12
2	.05	5.5	5.0	1.2	.67	26	4.9	1.8	.40	.48	.09	.09
3	.05	3.7	4.0	61	.64	25	6.6	2.3	.31	.37	.09	.15
4	.05	2.3	3.3	34	1.1	38	4.4	9.6	.34	.34	.08	.15
5	.04	2.0	2.4	10.3	1.4	30	3.7	5.6	.34	.27	.08	.09
6	.07	1.5	2.2	5.9	1.1	19.5	29	3.4	.29	.29	.11	.07
7	.31	2.6	1.8	7.1	1.0	10.2	16.4	2.5	.25	.23	.21	.06
8	.23	4.7	2.6	6.5	.91	6.8	9.1	2.2	.25	.21	.15	.05
9	.17	2.4	4.5	24	1.2	9.8	6.6	1.6	.25	.17	.12	.04
10	.14	1.9	4.0	33	1.4	14.8	16.0	1.3	.25	.14	.11	.04
11	.14	1.6	3.4	9.5	1.1	45	23	1.2	.82	2.1	.11	.04
12	.27	2.7	2.6	7.4	.88	52	12.3	1.1	2.0	4.0	.11	.04
13	.23	2.6	2.4	7.6	.74	18.9	13.3	3.5	1.5	.80	.10	.05
14	.17	2.1	2.3	6.4	.81	10.6	10.4	9.2	2.7	.48	.09	.05
15	.15	1.6	3.0	11.4	.88	9.2	7.7	3.2	2.7	.29	.08	.04
16	.12	1.4	6.0	27	.99	8.3	6.3	2.1	2.0	.17	.08	.04
17	.11	25	3.6	8.0	1.5	8.1	5.0	1.6	.91	.14	.08	.04
18	.11	54	2.6	8.5	3.4	30	4.6	1.3	6.0	.12	.08	5.5
19	.11	14.3	2.4	10.2	5.2	24	4.1	1.4	3.8	.12	.07	28
20	.11	6.2	2.3	8.6	2.9	12.4	4.1	1.4	2.0	.12	.07	2.2
21	.11	4.4	1.5	5.4	1.6	26	3.7	1.0	1.2	.12	.06	6.8
22	.11	3.6	1.2	4.8	1.4	12.6	3.4	.91	.67	.11	.06	2.2
23	.17	3.0	1.2	5.8	1.2	7.7	3.1	.84	.51	.11	.06	1.2
24	.46	2.9	1.2	4.6	1.1	6.8	3.0	.74	.77	.12	.47	.88
25	.29	2.7	.96	1.8	3.6	6.1	2.7	.60	.66	.14	.25	.60
26	.23	2.9	1.1	1.3	21	5.2	2.7	.51	.46	.12	2.3	.46
27	.19	2.9	1.1	1.3	26	7.7	2.5	.93	.37	.11	.57	.40
28	.19	6.6	.92	1.2	16.5	18.5	2.3	.81	.64	.11	.34	.37
29	.17	64	.72	1.1	21	8.1	2.3	.64	.56	.11	.77	.27
30	.64	16.7	.76	1.0	-	5.9	2.2	.57	.72	.11	.58	.58
31	22	-	.84	.95	-	5.0	-	.54	-	.10	.27	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.8	0.64	0.43	8.7	18.1	2.8	2.0	5.0	0.60	0.48	0.07	0.54
2	3.0	.64	3.0	6.0	7.4	2.8	2.2	4.1	.51	.31	.05	.37
3	1.5	.64	11.8	17.1	4.4	2.8	2.0	3.4	.54	.23	.05	.25
4	.99	.90	3.7	10.5	3.6	2.7	1.7	3.1	.84	.21	.05	.23
5	.77	1.2	2.3	5.4	3.6	2.8	1.7	2.8	.57	.17	.04	1.4
6	.67	.95	2.6	4.1	3.4	2.5	15.8	3.0	.58	.23	.04	1.4
7	.64	.84	29	13.4	3.7	2.2	7.9	3.0	.84	.19	.06	.65
8	.64	1.1	7.7	14.4	4.2	3.4	4.4	2.5	.54	.14	.09	.40
9	.77	2.6	4.1	8.3	5.4	4.4	6.3	2.4	.46	.10	.07	.23
10	.74	1.4	7.1	13.6	5.6	2.5	6.3	2.3	.34	.09	.04	.19
11	.71	.99	12.9	21	3.6	2.3	3.7	2.0	1.8	.11	.46	.15
12	.51	.91	28	9.4	3.0	2.1	3.1	1.8	1.1	.37	.83	.15
13	.40	.88	10.4	6.6	3.2	2.3	2.7	1.9	.62	.29	.68	6.5
14	.37	.81	5.4	5.6	8.5	2.4	2.5	18.4	4.2	.19	.25	4.7
15	.40	.81	4.2	16.1	7.0	5.9	2.4	33	2.3	.23	.11	1.4
16	.43	.71	3.6	14.2	4.8	32	2.1	9.0	.87	.64	.07	.81
17	18.6	.60	29	9.0	4.1	12.9	1.8	5.6	.64	.25	.05	.60
18	8.0	.64	9.6	15.5	3.7	8.3	1.7	4.1	.77	.14	.04	.57
19	2.7	.57	5.3	9.2	3.4	6.3	1.6	3.4	.67	.10	.04	.51
20	1.6	.60	50	7.4	3.2	5.0	1.6	3.2	.60	.08	.04	.43
21	1.3	.64	16.0	29	3.5	10.4	3.8	2.4	1.8	.07	.03	.27
22	1.1	.64	7.3	31	28	5.9	28	1.8	4.6	.06	2.7	.25
23	.99	.60	4.2	24	9.4	4.4	12.8	1.5	1.1	.06	9.7	.23
24	.91	1.1	4.1	14.1	6.6	3.6	6.3	1.3	.64	.05	8.7	.21
25	.84	1.2	4.1	32	5.2	4.8	4.4	1.1	.43	.04	6.1	.19
26	.84	.99	4.1	13.4	4.6	5.0	3.9	1.0	.31	1.3	2.3	.19
27	.81	.74	3.7	7.7	4.4	3.6	46	1.0	.31	1.6	4.5	.17
28	.74	.57	3.6	5.4	3.1	3.2	23	1.4	.49	.36	3.1	.31
29	.74	.60	3.0	5.4	-	2.7	10.2	1.2	.57	.14	1.2	.43
30	.74	.55	3.1	4.8	-	2.4	6.6	.95	.40	.09	.99	.31
31	.67	-	6.6	12.6	-	2.1	-	.74	-	.08	.81	-

Tennent Brook near Browntown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.25	1.7	5.6	2.5	6.2	2.2	2.0	1.4	0.95	4.4	4.0	0.76
2	.21	1.6	4.2	3.7	3.6	2.7	1.7	1.2	.84	3.4	2.0	.51
3	.19	1.4	3.6	2.8	4.1	2.8	1.5	1.1	.74	2.5	1.3	.37
4	.19	1.3	3.0	2.0	5.6	1.6	1.4	1.0	.74	1.7	1.2	.29
5	.22	1.2	2.8	1.8	3.6	3.4	1.3	.95	.81	1.3	1.2	.23
6	1.2	1.1	9.6	1.6	3.6	4.8	1.2	.95	.74	1.0	2.2	.17
7	.70	1.0	9.4	24	8.2	3.1	1.5	.84	.57	.88	12.6	.17
8	.46	1.0	4.4	11.6	4.2	2.7	7.2	.74	8.6	.77	15.1	.19
9	.34	1.0	3.4	4.8	3.6	2.1	34	.81	2.2	.64	3.9	.17
10	.57	.95	2.3	3.1	3.4	1.8	11.5	1.8	1.1	.88	2.2	.15
11	.71	.91	1.6	3.0	2.4	2.0	5.6	1.3	1.0	.64	3.0	.15
12	.51	.84	1.3	2.8	2.3	2.8	4.1	1.3	1.3	.64	2.8	.15
13	.43	25	1.1	3.7	2.7	2.7	3.6	1.1	5.4	.54	1.3	.21
14	.37	26	.99	3.7	3.0	5.9	3.1	1.6	6.0	1.4	.99	.23
15	.31	8.8	1.0	2.8	2.3	19.9	2.8	22	2.1	1.6	.77	.66
16	.31	5.2	2.2	2.1	1.4	11.0	2.4	6.5	1.4	.81	.67	1.1
17	.29	3.9	3.6	2.1	1.4	12.8	2.2	2.8	1.0	.60	.98	.51
18	.29	3.1	10.0	1.6	1.8	9.2	5.7	1.8	8.6	.54	1.3	.67
19	.42	2.8	5.9	1.1	5.9	5.9	19.9	1.6	2.9	2.1	.95	3.8
20	21	2.7	3.7	1.2	30	4.6	7.0	1.6	1.4	12.6	.64	14.7
21	8.4	2.5	3.1	1.3	11.3	3.9	4.2	1.3	1.0	27	.48	94
22	2.8	2.1	2.7	3.2	6.3	3.2	4.1	2.1	.88	18.9	.40	44
23	2.7	1.6	2.4	5.0	9.6	3.0	3.4	1.6	13.5	43	.34	11.8
24	2.2	1.4	2.0	4.6	12.2	2.7	2.7	1.4	15.1	67	.27	7.2
25	1.5	1.4	4.6	3.5	6.8	2.1	2.4	1.1	3.4	22	.23	5.0
26	1.3	1.4	3.1	16.1	4.1	2.2	2.2	1.8	2.1	10.2	.23	3.7
27	1.3	1.7	2.2	5.4	4.2	2.0	2.0	7.8	48	7.0	.32	3.4
28	22	19.2	3.2	3.1	3.1	1.6	1.7	4.0	53	4.8	2.7	3.9
29	7.8	31	3.4	2.3	-	1.6	1.6	2.1	19.7	3.2	.74	3.0
30	3.6	9.5	2.5	2.5	-	1.6	1.4	1.4	7.4	2.4	.48	3.2
31	2.3	-	2.4	8.0	-	2.0	-	1.1	-	3.3	.37	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.1	4.2	7.9	2.8	13.4	34	10.0	3.9	0.31	0.97	0.08	0.42
2	2.2	3.6	5.6	3.1	11.2	12.0	17.8	3.2	.30	.40	.05	.25
3	2.0	3.0	4.6	3.1	52	8.3	9.9	3.0	.27	.22	.04	.19
4	1.7	2.8	26	2.8	42	7.4	7.2	2.8	.35	.15	.04	.15
5	1.6	2.7	21	2.7	17.0	14.8	5.9	2.7	.39	.14	.04	.14
6	6.7	3.2	28	35	11.3	18.8	18.8	2.4	.27	.12	.04	.11
7	12.1	3.9	12.4	14.2	14.5	10.4	45	2.3	.21	.11	.03	.08
8	4.8	3.1	7.4	7.8	13.5	6.6	13.7	2.1	.21	.10	.04	.09
9	3.4	3.7	9.2	5.2	11.0	6.3	10.9	2.1	.21	.09	.04	.17
10	2.7	3.0	14.0	5.6	16.2	5.4	9.7	2.0	.17	1.2	.04	.18
11	2.3	2.5	8.2	5.2	31	4.4	8.6	1.7	.20	.67	.03	.17
12	2.1	2.4	6.1	4.1	12.6	13.3	7.4	1.6	.48	.27	.03	.10
13	1.8	2.2	5.0	3.0	9.2	32	5.6	1.4	.32	.14	.03	.10
14	1.8	2.4	4.2	3.0	8.1	19.2	5.0	2.0	4.2	.15	.03	.08
15	1.8	2.1	3.6	3.7	11.6	14.3	4.8	1.8	.99	.14	.02	.05
16	1.7	1.7	2.7	3.6	17.2	40	4.2	1.6	.56	.09	.02	.05
17	1.6	2.6	3.1	3.1	6.6	14.0	5.4	1.4	.36	.08	.02	.05
18	1.6	2.8	3.6	3.1	7.4	9.6	9.7	1.3	.67	.07	.02	.04
19	1.6	8.1	3.2	3.1	6.6	7.2	13.9	1.2	.55	.06	2.9	.04
20	1.6	35	3.0	2.8	6.6	6.8	16.8	1.1	.71	.06	6.5	.04
21	2.8	10.2	2.8	2.7	5.6	5.9	8.2	1.1	.49	.06	.68	.05
22	2.0	6.1	2.5	3.3	6.1	5.4	6.6	1.2	.31	.06	.29	.05
23	1.6	5.0	2.1	3.7	3.9	4.8	5.2	1.2	.29	.06	.14	.04
24	2.4	4.8	2.1	2.8	3.6	4.8	4.4	1.0	.27	.05	.10	.04
25	3.4	3.9	2.1	2.9	3.6	4.6	4.1	.91	.23	.05	.09	.04
26	2.2	4.6	1.6	2.3	21	4.2	5.4	.77	.21	.05	.28	.03
27	2.1	5.4	22	1.7	25	4.2	6.1	.71	.19	.06	.24	.04
28	3.9	5.6	7.1	1.3	27	17.6	5.6	.64	.17	.08	.13	.14
29	31	5.0	3.4	2.0	-	9.9	5.2	.54	.14	.09	.19	.14
30	13.5	6.1	3.2	38	-	19.1	4.2	.45	.98	.17	1.6	.17
31	5.9	-	2.8	37	-	20	-	.37	-	.15	.89	-

Tennent Brook near Browntown--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.55	6.9	0.65	0.40	0.24	2.6	6.0	3.5	19.0	1.8	0.08	37
2	3.7	1.7	.77	.32	.29	2.2	4.0	3.5	9.0	1.3	.08	13.1
3	2.9	1.0	1.1	.29	.32	15.7	3.5	3.9	5.3	1.3	.08	5.0
4	.85	.88	.96	.24	.35	55	8.8	4.0	3.9	5.0	.08	3.2
5	.49	9.6	.84	.24	.40	24	5.5	3.9	3.0	2.4	.08	2.2
6	.37	14.8	.76	.22	.48	12.4	3.9	3.2	2.4	1.4	3.3	1.6
7	.32	3.2	.69	.20	1.5	8.1	3.2	2.7	1.8	.99	4.8	1.3
8	.25	2.0	.65	.22	.88	6.3	13.9	2.5	1.7	.74	1.1	1.2
9	.23	1.4	.58	.24	.80	5.5	40	3.2	9.1	.62	.50	1.5
10	.19	1.2	.58	.24	1.2	4.4	10.8	2.7	15.4	.51	.32	1.4
11	.15	1.0	.58	.22	5.3	3.1	6.6	2.4	5.3	.98	.20	1.2
12	.14	1.1	.55	.29	2.4	2.5	15.3	2.6	3.9	3.6	.18	1.1
13	.14	1.1	.61	.60	1.8	2.5	33	2.4	2.7	1.9	1.8	.88
14	.14	1.0	.92	3.7	1.2	4.0	15.2	2.2	1.8	1.2	1.2	.76
15	.12	.88	.79	27	.96	41	8.8	1.7	2.2	.74	.48	.69
16	.12	.88	.72	4.1	1.1	10.0	6.6	12.9	2.1	.58	.32	.62
17	.12	.88	.76	2.0	1.2	8.0	5.5	29	1.4	.58	.44	.58
18	.12	.84	.86	b1.3	1.3	9.2	5.3	7.9	1.2	.55	.42	.51
19	.12	.84	.60	b1.0	21	8.1	5.5	5.1	1.4	.40	2.5	.45
20	.15	.80	.75	b.8	47	6.0	42	4.0	3.2	.32	2.0	.45
21	.15	.76	.88	b.6	24	5.8	50	3.7	.88	.27	.68	.42
22	.73	.76	.72	b.6	b17	6.3	26	4.8	.72	.22	.41	.40
23	.49	.72	.56	b.5	b8	5.1	11.7	18.2	.69	.24	.32	.35
24	.29	.72	.45	b.45	b7	3.5	8.1	7.8	3.1	.27	.27	.35
25	.23	.72	.45	b.4	7.2	3.2	6.6	7.8	5.1	.24	.22	14.5
26	.23	.69	.42	b.35	5.3	3.0	5.5	7.5	7.5	.22	7.5	6.7
27	.24	.65	.35	b.3	2.6	2.9	4.8	6.0	4.0	.19	2.4	3.6
28	.49	.62	.35	.27	2.7	3.0	4.2	8.1	6.0	.31	16.9	1.8
29	.43	.62	.35	.24	2.5	3.0	3.9	5.1	8.5	.14	10.1	1.3
30	.43	.62	.45	.24	-	3.7	3.7	3.7	3.0	.14	5.3	1.1
31	8.5	-	.45	.24	-	7.5	-	51	-	.12	3.2	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	202.5	53	1.8	6.53	1.24	1.43
November	69.5	5.1	1.6	2.32	.442	.49
December	124.08	21	.88	4.00	.762	.88
Calendar year 1934	1 922.59	76	.10	5.27	1.00	13.62
January 1935	127.4	25	1.4	4.11	.783	.90
February	312.8	56	1.4	11.2	2.13	2.22
March	220.5	27	2.9	7.11	1.35	1.56
April	233.1	54	1.9	7.77	1.48	1.65
May	61.79	8.5	.46	1.99	.379	.42
June	47.42	11.6	.23	1.58	.301	.34
July	14.29	3.7	.07	.462	.088	.10
August	3.46	1.1	.02	.112	.021	.02
September	33.50	18.3	.04	1.12	.213	.24
Water year 1934-35	1 450.34	56	.02	3.97	.756	10.25
October 1935	27.25	22	.04	.879	.167	.19
November	267.8	64	1.4	8.93	1.70	1.90
December	79.00	7.1	.72	2.55	.486	.56
Calendar year 1935	1 428.31	64	.02	3.91	.745	10.10
January 1936	317.73	61	.88	10.2	1.94	2.24
February	121.99	26	.64	4.21	.802	.86
March	539.2	52	5.0	17.4	3.31	3.82
April	219.5	29	2.2	7.32	1.39	1.55
May	66.39	9.6	.51	2.14	.408	.47
June	34.18	6.0	.25	1.14	.217	.24
July	12.81	4.0	.10	.413	.079	.09
August	7.74	2.3	.06	.250	.048	.06
September	50.62	28	.04	1.69	.322	.36
Water year 1935-36	1 744.21	64	.04	4.77	.909	12.34

Tennent Brook near Browntown--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	62.92	18.6	0.37	2.03	0.387	0.45
November	26.06	2.6	.55	.869	.166	.19
December	289.93	50	.43	9.35	1.78	2.05
Calendar year 1936	1 749.07	61	.04	4.78	.910	12.38
January 1937	394.9	32	4.1	12.7	2.42	2.79
February	168.7	28	3.0	6.02	1.15	1.20
March	156.5	32	2.1	5.05	.962	1.11
April	218.5	46	1.6	7.28	1.39	1.55
May	128.39	33	.74	4.14	.789	.91
June	30.04	4.6	.31	1.00	.190	.21
July	8.40	1.6	.04	.271	.052	.06
August	43.26	9.7	.03	1.40	.267	.31
September	24.04	6.5	.15	.801	.153	.17
Water year 1936-37	1 551.64	50	.03	4.25	.810	11.00
October 1937	84.87	22	.19	2.74	.522	.60
November	163.30	31	.84	5.44	1.04	1.16
December	111.29	10.0	.99	3.59	.684	.79
Calendar year 1937	1 532.19	46	.03	4.20	.800	10.86
January 1938	137.0	24	1.1	4.42	.842	.97
February	156.9	30	1.4	5.60	1.07	1.11
March	129.9	19.9	1.6	4.19	.798	.92
April	145.4	34	1.2	4.85	.924	1.03
May	78.09	22	.74	2.52	.480	.55
June	212.47	53	.57	7.08	1.35	1.51
July	247.74	67	.54	7.99	1.52	1.75
August	65.66	15.1	.23	2.12	.404	.47
September	204.39	94	.15	6.81	1.30	1.45
Water year 1937-38	1 737.01	94	.15	4.76	.907	12.31
October 1938	129.0	31	1.6	4.16	.792	.91
November	151.7	35	1.7	5.06	.964	1.08
December	230.5	28	1.6	7.44	1.42	1.64
Calendar year 1938	1 888.75	94	.15	5.17	.985	13.39
January 1939	214.7	38	1.3	6.93	1.32	1.52
February	414.8	52	3.6	14.8	2.82	2.94
March	385.3	40	4.2	12.4	2.36	2.72
April	285.3	45	4.1	9.51	1.81	2.02
May	50.49	3.9	.37	1.63	.310	.36
June	15.01	4.2	.14	.500	.095	.11
July	6.11	1.2	.05	.197	.038	.04
August	14.67	6.5	.02	.473	.090	.10
September	3.24	.42	.03	.108	.021	.02
Water year 1938-39	1 900.82	52	.02	5.21	.992	13.46
October 1939	23.38	8.5	.12	.754	.144	.17
November	58.88	14.8	.62	1.96	.373	.42
December	20.15	1.1	.35	.650	.124	.14
Calendar year 1939	1 492.03	52	.02	4.09	.779	10.56
January 1940	47.81	27	.20	1.54	.293	.34
February	166.02	47	.24	5.72	1.09	1.18
March	277.6	55	2.2	8.95	1.70	1.96
April	367.9	50	3.2	12.3	2.34	2.61
May	227.0	51	1.7	7.32	1.39	1.60
June	135.29	19.0	.69	4.51	.859	.96
July	29.27	5.0	.12	.944	.180	.21
August	67.26	16.9	.08	2.17	.413	.48
September	105.26	37	.35	3.51	.669	.75
Water year 1939-40	1 525.82	55	.08	4.17	.794	10.82

Matawan Creek at Matawan

Location.- Water-stage recorder above concrete dam, lat. 40°24'53", long. 74°14'00", on Lake Leffert, Ravine Drive in Matawan, Monmouth County. Datum of gage is 13.98 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 6.11 square miles.

Records available.- August 1932 to September 1940.

Average discharge.- 8 years, 10.1 second-feet (adjusted for storage).

Extremes.- 1932-40: Maximum discharge, 1,250 second-feet Sept. 21, 1938 (gage height, 4.34 feet), by dam formulae; no flow on many days.

Remarks.- Figures of daily discharge represent the flow over the dam and through the waste gates. Flow regulated by Lake Leffert.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.2	5.0	7.2	22	5.4	12.8	6.6	6.6	8.3	2.0	1.6	1.1
2	10.4	4.7	7.2	19.2	5.4	13.6	5.7	6.0	6.9	1.6	2.0	1.4
3	9.0	4.5	6.6	13.2	5.7	18.4	4.7	5.4	5.0	1.5	5.4	1.6
4	6.9	5.0	9.4	10.0	6.3	14.7	4.0	5.2	4.5	1.4	4.7	12.3
5	5.4	6.3	10.0	7.7	6.3	12.5	3.8	5.0	5.0	1.4	3.8	24
6	62	7.4	9.0	6.6	6.0	10.8	5.0	5.0	5.7	1.4	3.0	31
7	16.3	8.3	7.7	6.6	5.7	9.4	5.2	7.7	6.0	1.2	2.5	19.1
8	9.4	7.4	6.6	6.9	5.7	8.7	4.5	11.4	5.4	1.1	2.1	6.6
9	9.0	6.3	6.0	7.4	6.0	8.0	129	10.0	11.4	1.9	2.0	5.6
10	7.7	5.7	5.2	10.0	7.4	7.2	41	8.3	12.2	4.5	1.8	5.9
11	6.9	6.0	4.5	11.1	8.7	7.2	13.7	6.9	10.0	4.5	1.8	5.4
12	6.0	6.0	4.2	9.4	8.7	10.2	14.2	6.0	7.7	3.8	1.8	4.6
13	5.0	5.7	4.0	7.7	8.3	31	41	5.2	6.0	3.0	1.8	4.0
14	4.5	5.2	4.0	6.9	13.8	21	7.0	5.0	4.7	2.6	1.8	3.7
15	4.0	4.7	3.8	6.0	110	14.7	10.0	4.5	3.8	2.1	1.8	3.5
16	4.0	4.7	4.0	5.4	72	11.8	10.8	4.0	3.4	2.1	1.6	3.2
17	4.0	4.5	4.2	5.7	69	13.2	25	3.8	3.0	2.0	1.5	3.0
18	4.0	4.5	4.2	6.3	29	7.4	2.6	3.6	3.2	1.6	1.4	2.9
19	4.0	4.5	45	6.0	8.0	6.9	4.5	3.2	3.6	2.0	1.2	2.8
20	3.8	4.5	46	6.3	11.4	6.9	5.4	3.0	4.2	4.1	1.2	2.8
21	3.8	4.7	0	9.7	11.1	8.7	5.7	3.0	4.0	6.3	1.2	2.6
22	6.6	5.0	0	12.2	10.4	10.4	6.0	3.0	3.6	4.7	1.4	2.9
23	7.2	5.2	1.4	a11.8	10.0	9.7	6.0	3.0	3.0	3.6	1.8	2.9
24	6.3	5.4	3.0	a9.9	10.8	10.0	5.7	3.0	2.6	2.8	1.5	2.8
25	5.7	5.4	4.0	a7.5	11.8	8.7	5.4	2.8	2.3	3.6	1.4	2.6
26	6.6	5.0	7.3	a5.0	16.9	7.4	5.0	2.8	2.1	3.8	1.2	2.5
27	8.0	5.0	10.4	a5.0	22	6.3	5.0	2.8	2.0	3.6	1.2	1.9
28	7.2	5.2	9.4	a6.2	15.6	7.5	4.7	2.6	2.1	3.0	1.2	1.1
29	6.3	5.2	10.4	6.9	-	21	4.5	2.8	2.1	2.5	1.1	1.1
30	5.4	6.0	10.8	a5.9	-	9.4	6.3	3.4	2.1	2.1	1.1	.92
31	5.0	-	9.0	5.4	-	7.4	-	5.3	-	1.8	1.1	-

a No gage-height record; discharge computed on basis of records for Deep Run near Browntown and Tennent Brook near Browntown.

Matawan Creek at Matawan--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.78	70	a55	4.3	5.3	38	11.9	5.1	2.1	2.3	1.8	2.6
2	.65	20	a19	4.5	a5.3	31	11.9	5.1	2.0	2.3	2.0	2.6
3	.78	14.7	a2.0	150	a5.3	3.3	11.9	5.1	1.8	2.3	2.0	3.0
4	.65	11.1	a2.0	68	5.4	19.0	11.9	5.4	1.6	2.3	2.0	2.8
5	.65	8.7	a2.0	2.9	5.4	49	11.9	5.3	1.6	2.1	1.8	2.3
6	.65	7.2	a2.0	5.4	5.3	37	13.7	6.7	1.6	2.1	1.6	2.1
7	1.4	6.6	a2.0	8.0	5.3	35	22	6.6	1.6	2.1	1.8	2.1
8	1.6	9.4	a2.0	10.3	5.3	24	22	6.2	1.6	2.0	1.8	2.1
9	1.6	9.0	a2.0	59	5.6	12.0	19.9	5.5	1.6	1.8	1.6	2.1
10	1.6	7.4	a2.0	88	6.5	12.0	23	5.1	1.6	1.6	1.6	2.1
11	1.8	6.9	2.0	4.9	6.7	66	45	5.1	1.8	1.9	1.6	2.0
12	2.1	6.6	2.0	4.2	6.7	108	17.7	5.1	2.6	4.5	1.6	2.0
13	2.1	6.9	2.0	7.0	6.9	42	12.8	4.6	3.2	4.5	1.6	2.0
14	2.3	6.6	2.0	9.4	6.9	35	15.9	6.9	4.7	3.8	1.5	2.0
15	2.3	5.7	2.2	14.2	6.7	22	13.8	6.9	5.4	3.4	1.6	1.8
16	2.3	3.4	5.1	18.4	6.3	12.0	12.0	5.7	5.7	2.8	1.8	1.6
17	2.3	27	6.5	18.0	6.3	12.0	10.1	4.7	4.7	2.5	1.8	1.6
18	2.5	85	6.7	16.1	a15.5	17.5	8.9	4.2	6.8	2.5	1.8	55
19	2.6	29	7.2	18.4	a20	41	7.9	4.2	9.7	2.1	1.8	110
20	2.3	4.4	6.3	16.9	12.3	27	7.4	4.2	8.0	1.8	1.6	20
21	2.1	6.1	5.6	13.0	9.3	40	7.1	3.8	5.7	1.6	1.6	15.0
22	2.3	6.8	5.0	10.5	7.5	27	6.6	3.4	4.2	1.5	1.6	13.5
23	2.6	7.2	5.0	8.7	6.9	15.3	6.2	3.0	3.2	1.4	1.6	9.3
24	3.4	7.4	4.8	7.1	6.3	13.7	5.8	2.8	3.0	1.4	3.2	6.6
25	3.2	7.2	4.6	6.3	7.6	12.8	5.5	2.6	2.8	1.5	3.2	4.8
26	2.8	7.0	4.5	5.8	37	12.0	5.3	2.3	2.5	1.5	7.4	3.5
27	2.6	7.0	4.5	5.8	34	11.9	5.1	2.6	2.3	1.5	6.0	3.1
28	2.5	11.6	4.3	5.4	3.3	13.5	5.1	2.6	2.3	1.6	4.2	2.9
29	2.5	129	4.1	5.3	6.1	14.0	5.1	2.5	2.3	1.8	4.2	2.8
30	3.2	57	4.5	5.1	-	13.0	5.1	2.3	2.3	2.0	4.2	2.9
31	53	-	4.5	5.3	-	12.0	-	2.1	-	2.0	3.2	-

a No gage-height record; discharge computed on basis of records for Deep Run near Browntown and Tennent Brook near Browntown.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.3	3.0	2.8	12.0	0.92	0	3.6	0	2.8	2.5	1.5	5.6
2	14.3	3.0	4.1	9.3	5.0	0	4.2	0	2.5	2.5	1.4	4.7
3	10.3	3.0	15.1	31	6.3	0	4.5	.17	2.3	2.0	1.4	4.0
4	7.2	3.2	14.4	27	6.3	0	16.6	1.8	2.5	1.8	a1.2	3.4
5	5.5	3.6	10.8	0	6.6	0	31	3.4	2.6	1.6	a1.1	4.0
6	4.5	3.6	8.7	.92	6.9	.15	31	4.5	2.5	1.6	a.9	5.0
7	4.1	3.6	53	6.4	6.6	1.2	7.1	5.4	2.6	1.6	a.9	4.7
8	4.1	3.8	15.6	17.6	6.6	2.5	0	5.7	2.6	1.6	a.9	4.7
9	4.3	5.4	8.7	15.6	7.2	5.2	0	5.7	2.5	1.6	a.9	5.3
10	5.3	5.4	10.8	27	8.0	5.7	.43	5.7	2.1	1.6	a.9	4.3
11	5.5	5.0	28	47	8.0	5.7	2.1	5.4	2.6	1.6	a2.0	3.4
12	4.3	4.5	58	34	7.2	5.4	3.0	5.0	3.6	2.0	a3.0	3.2
13	3.9	4.0	38	12.7	6.6	5.2	3.6	4.7	3.4	1.8	a3.5	14.3
14	3.3	4.0	17.9	0	10.5	5.4	3.8	21	5.4	1.5	a2.0	23
15	3.1	4.0	.17	4.7	12.8	15.5	4.0	52	7.2	1.4	a1.2	9.1
16	3.1	3.4	2.0	31	10.8	63	3.6	18.7	5.4	2.0	a.9	6.7
17	32	3.2	44	30	9.4	40	3.4	.20	4.2	2.1	a.8	6.7
18	23	3.0	22	23	8.3	34	3.2	2.0	3.8	2.0	a.8	6.3
19	10.8	2.8	14.0	.15	7.7	34	3.6	3.2	3.2	1.6	a.8	5.3
20	8.7	2.8	146	3.3	7.4	34	3.6	4.5	2.8	1.4	a.8	4.7
21	6.9	2.8	38	46	7.4	23	7.1	4.7	2.8	1.1	.58	4.3
22	6.0	2.8	19.5	48	74	0	43	4.7	8.3	.78	16.1	4.0
23	5.0	2.8	1.2	39	45	0	34	4.5	8.0	.78	54	3.7
24	4.5	3.4	3.2	33	40	0	30	4.0	5.7	.78	32	3.7
25	4.0	3.8	4.7	38	40	0	18.1	3.6	4.2	.78	30	3.7
26	4.0	4.2	5.7	34	16.7	0	0	3.4	3.2	1.4	12.9	3.4
27	3.6	3.8	6.0	32	0	0	76	3.2	2.5	3.4	16.5	3.2
28	3.6	3.4	6.6	32	0	0	51	3.2	2.1	2.6	22	2.9
29	3.4	3.2	6.3	13.1	-	.53	40	3.2	2.1	2.1	9.1	2.9
30	3.4	3.0	6.0	0	-	2.0	3.7	3.2	2.1	1.8	6.7	2.9
31	3.0	-	17.4	0	-	2.8	-	3.0	-	1.8	6.3	-

a No gage-height record; discharge computed on basis of records for Deep Run near Browntown.

Matawan Creek at Matawan--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	a7.5	18.3	a7	15.0	a6.5	6.7	4.0	3.7	4.3	a9	3.2
2	2.9	a6.5	12.9	a7	10.0	a6.5	6.4	3.7	3.2	5.0	a8.5	3.2
3	2.9	a6	10.0	a7	9.1	a6	6.1	3.4	3.2	5.0	a7.5	2.9
4	3.2	a6	8.4	a7	10.9	a6	5.7	3.2	2.9	4.3	a7	2.6
5	3.2	a5.5	8.4	a7	10.0	a7	5.1	3.2	2.9	3.7	a6.5	2.3
6	5.3	a5.5	14.0	a7	9.1	a9	4.8	3.2	2.9	2.9	a6.5	1.87
7	6.0	5.3	22	a40	15.0	a7.5	6.4	2.9	2.6	2.3	a7.5	1.87
8	5.0	5.3	a15	a20	11.9	a6.5	12.3	2.6	13.7	2.1	a11	1.87
9	4.0	4.7	a10	a12	9.1	a6	74	2.6	8.4	2.1	a9	1.87
10	4.0	4.3	a8	a9.5	8.4	a6	27	4.0	5.3	2.1	a6.5	1.87
11	4.0	4.0	a6.5	a8.5	7.2	5.6	14.0	5.0	4.3	2.6	a8	1.87
12	4.0	4.0	a5.5	a8	6.7	6.0	9.1	5.0	4.3	2.9	a10	1.87
13	3.4	67	a5.5	a9	6.7	6.0	7.7	4.3	6.7	2.9	6.0	1.87
14	3.4	59	a5.5	a10	6.7	8.4	7.2	4.1	12.9	2.9	5.6	1.87
15	3.2	27	a5.5	a9	6.3	75	6.7	32	7.2	3.4	4.7	3.6
16	2.9	17.2	a6	a7.5	6.0	4.4	6.0	16.1	5.3	3.4	4.0	5.0
17	2.9	10.9	a9	a6.5	5.6	1.40	5.6	7.7	4.3	2.6	4.0	4.7
18	3.2	8.9	16.1	a6	5.6	1.65	7.6	6.0	13.6	2.6	4.0	4.7
19	3.6	7.7	15.0	a5.5	9.0	4.6	23	5.3	10.0	4.5	4.0	9.5
20	a45	7.7	10.0	a5	100	7.0	14.0	5.0	5.6	a80	3.7	28
21	a25	7.7	8.4	5.0	38	7.7	7.7	5.0	4.3	a120	3.2	438
22	a12	6.7	7.7	6.3	0	7.4	7.2	5.0	3.4	a50	2.9	123
23	a10	6.3	7.2	7.7	0	7.4	6.7	5.0	40	a60	2.6	a25
24	a8	6.0	6.7	9.1	2.3	6.7	6.3	4.7	44	a130	2.1	a16
25	a7.5	6.0	7.7	113	8.4	6.1	5.6	4.0	12.9	a60	1.87	a12
26	a7	6.0	8.4	21	a8	6.1	5.3	4.0	6.8	a25	1.87	a10
27	a6.5	6.0	7.2	2.7	a7.5	5.7	5.0	8.4	165	a16	1.87	a11
28	a30	43	a7	2.6	a7	5.4	4.7	10.0	109	a13	4.0	a20
29	a16	76	a7	4.0	-	5.4	4.7	6.3	11.8	a11	4.0	a15
30	a10	28	a7	5.3	-	5.1	4.3	5.0	2.0	a10	3.7	a12
31	a8.5	-	a7	9.1	-	6.1	-	4.3	-	a9.5	3.2	-

a No gage-height record: discharge computed on basis of recorded range in stage and records for Deep Run near Browntown.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m16	12.3	a14	7.7	0.04	m94	1.5	7.2	2.3	4.3	c1.0	5.6
2	m16	9.5	a13	7.2	5.7	0	1.5	6.3	2.1	3.4	c1.0	4.7
3	m15	8.1	a12	7.2	m163	0	1.5	5.6	1.87	2.6	c.9	3.7
4	m15	7.6	a40	7.2	m105	1.63	2.1	5.6	1.87	2.1	c.9	3.2
5	m15	7.4	a25	7.2	0	11.8	4.7	5.6	2.1	c1.9	c.9	2.9
6	m15	6.7	a50	121	.28	26	62	5.6	2.1	c1.7	c.9	2.6
7	0	7.6	a20	13.5	7.8	18.3	55	5.6	2.1	c1.6	c.8	2.3
8	1.0	8.1	a16	10.9	19.5	10.9	21	5.3	2.1	c1.4	c.8	2.6
9	3.7	9.5	a17	10.9	18.3	10.0	16.1	5.3	2.1	c1.4	c.8	3.7
10	5.4	8.8	a20	10.0	85	8.4	12.9	5.3	2.1	c1.5	c.8	3.4
11	5.7	8.1	a17	10.0	m60	7.2	11.9	5.0	2.1	c2.0	c.8	2.9
12	6.4	7.4	a14	8.4	m30	27	10.0	4.7	2.1	c1.5	c.8	2.6
13	6.4	6.7	a12	7.2	m30	36	7.7	4.3	2.2	c1.3	c.8	2.3
14	6.4	6.7	a10	8.4	m20	11.3	7.2	4.3	10.0	c1.8	c.8	2.3
15	6.2	6.0	a9	7.7	0	21	7.2	4.3	6.7	c1.5	c.8	2.1
16	6.0	5.7	a8	7.2	0	77	6.7	4.3	5.0	c1.4	c.8	2.1
17	6.4	6.0	a7.5	7.2	0	28	6.7	4.3	3.7	c1.3	c.8	1.87
18	6.4	7.1	a7.5	6.7	0	16.1	10.0	4.3	4.0	c1.3	c.8	1.44
19	6.4	a30	7.2	6.7	1.25	11.9	23	4.3	3.4	c1.2	16.0	1.44
20	6.4	a150	6.7	6.7	5.8	10.0	31	4.0	3.4	c1.2	27	1.65
21	8.1	a25	6.3	6.3	9.1	9.1	15.0	4.0	3.7	c1.2	10.0	1.87
22	7.9	a15	7.2	6.7	12.9	8.4	10.9	4.0	3.2	c1.1	5.6	1.87
23	7.7	a14	6.3	7.2	11.9	7.7	9.1	4.0	2.6	c1.1	4.3	1.87
24	8.8	a13	6.3	7.2	10.9	7.7	7.2	4.0	2.3	c1.1	3.4	1.87
25	10.4	a13	6.3	6.3	10.0	7.2	7.2	3.7	1.87	c1.1	3.4	1.65
26	9.5	a12	6.0	6.3	m70	7.2	7.2	3.7	1.65	c1.1	3.7	1.65
27	9.5	a12	35	6.0	m47	7.2	8.4	3.2	1.65	c1.2	3.4	1.87
28	16.5	a12	26	5.6	m29	37	8.4	3.2	1.65	c1.5	2.6	2.3
29	44	a12	14.0	5.6	-	3.8	8.4	2.9	1.87	c1.3	2.3	2.3
30	26	a12	10.0	145	-	64	7.7	2.6	3.2	c1.1	4.7	2.9
31	16.5	-	8.4	82	-	16.3	-	2.6	-	c1.1	5.6	-

a No gage-height record; discharge computed on basis of records for Deep Run near Browntown.
c Backwater from loose eel grass on dam; discharge computed on basis of recorder graph and records for Deep Run near Browntown.
m No record for times of opening and closing of waste gates; discharge computed on basis of records for Deep Run near Browntown.
Note.- Amount of water pumped from lake Oct. 10 to Nov. 18, for construction work at dam included in discharge.

Matawan Creek at Matawan--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.7	26	a3.8	a2.7	2.1	a5	9.1	0	22	6.0	c1.2	59
2	9.1	10.9	4.0	a2.6	2.3	a7	7.2	0	40	5.0	c1.1	a37
3	14.0	7.2	5.0	a2.4	2.3	a15	6.3	.01	a37	4.3	c1.1	0
4	8.4	6.0	4.7	a2.3	2.6	a90	10.0	1.6	0	6.7	c1.1	0
5	6.0	42	4.3	a2.2	2.6	a60	87	3.7	0	7.2	c1.2	0
6	5.0	6.1	4.0	a2.2	2.9	a25	a20	a42	0	6.0	c2.0	0
7	4.3	6.7	a3.5	a2.1	a6.0	a15	0	a7	0	4.7	c11	0
8	3.7	7.7	3.2	2.1	a5.0	a9	0	a7	0	4.0	c5.0	0
9	3.4	6.3	2.9	2.1	a4.6	a7	a46	a7	2.2	4.0	c3.0	.10
10	3.2	6.0	2.9	2.1	a6.5	a6	a16	a7	16.1	4.0	a2.0	.86
11	2.9	5.3	2.9	2.1	a15.0	a5.5	0	a7	11.9	4.3	a1.8	1.87
12	2.6	5.3	2.9	2.3	10.9	5.3	.07	a7	8.4	7.7	a1.7	2.6
13	2.6	5.0	3.2	2.9	7.7	5.3	27	a7	6.7	7.7	a2.4	3.2
14	2.3	4.3	4.0	36	61	25	48	a5	5.3	6.0	a4.5	3.4
15	2.1	4.3	a3.8	a35	31	90	a40	0	5.0	4.7	a3.0	3.4
16	2.1	4.3	a3.7	16.1	0	12.9	0	0	5.0	3.4	a2.0	2.9
17	2.1	4.3	a3.5	10.0	0	11.9	0	20	4.3	3.2	a2.4	2.6
18	2.1	4.3	a3.4	6.7	0	12.9	.19	23	3.7	3.2	a3.0	2.6
19	2.1	4.3	a3.2	b5.5	a75	12.9	2.8	12.9	3.4	2.9	a4.0	2.6
20	2.1	4.0	3.7	b5.0	a83	10.0	a90	8.4	3.4	c2.4	a6.5	2.6
21	2.3	3.7	a4.3	b4.5	a25	9.1	a100	31	3.2	c2.0	a3.0	2.6
22	4.0	3.7	a3.9	4.3	0	9.1	a50	0	2.9	c1.8	a2.3	2.3
23	4.3	4.0	a3.4	4.0	0	8.4	a10	9.6	2.9	c1.8	a2.0	2.1
24	3.4	4.0	a2.9	3.4	0	6.0	a10	15.0	4.3	c1.9	a2.2	2.1
25	3.2	4.0	a2.6	b3.1	.14	5.3	a10	12.9	6.7	c1.9	a1.9	42
26	2.9	4.0	a2.4	b2.8	1.24	4.7	a6	15.0	10.9	c1.8	9.1	7.2
27	3.2	a3.5	a2.3	b2.6	2.1	4.3	a6	43	12.9	c1.6	19.7	7.7
28	4.0	a3.2	a2.5	b2.4	2.3	4.3	a6	0	9.1	c1.5	32	6.0
29	3.4	a3.2	a2.7	b2.3	2.3	4.3	a5	0	17.2	c1.4	4.0	4.7
30	3.7	a3.2	a2.9	2.3	-	5.0	0	0	9.1	c1.4	19.7	3.7
31	16.6	-	a2.9	2.1	-	8.4	-	a135	-	c1.3	2.8	-

a No gage-height record or no record of waste gate opening; discharge computed on basis of records for Deep Run near Browntown.

b Stage-discharge relation affected by ice.

c Backwater from aquatic growth on dam; discharge computed on basis of recorder graph and records for Deep Run near Browntown.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	262.6	62	3.8	8.47	8.22	1.35	1.56
November	163.0	8.3	4.5	5.43	5.53	.905	1.01
December	264.5	46	0	8.53	8.60	1.41	1.63
Calendar year 1934	3 894.0	265	0	10.7	10.7	1.75	23.74
January 1935	265.9	22	5.0	8.58	8.45	1.38	1.59
February	507.4	110	5.4	18.1	18.5	3.03	3.16
March	352.9	31	6.3	11.4	11.1	1.82	2.10
April	388.0	129	2.6	12.9	12.9	2.11	2.35
May	150.3	11.4	2.6	4.85	4.90	.802	.92
June	145.9	12.2	2.0	4.86	4.50	.736	.82
July	83.6	6.3	1.1	2.70	2.67	.437	.50
August	59.0	5.4	1.1	1.90	1.83	.300	.35
September	165.82	31	.92	5.53	5.50	.900	1.00
Water year 1934-35	2 808.92	129	0	7.70	7.65	1.25	16.99
October 1935	113.16	53	.65	3.65	4.87	.797	.92
November	591.9	129	3.4	19.7	17.3	2.83	3.16
December	183.4	55	2.0	5.92	7.18	1.18	1.36
Calendar year 1935	3 007.28	129	.65	8.24	8.21	1.34	18.23
January 1936	606.2	150	2.9	19.6	19.5	3.19	3.68
February	267.0	37	3.3	9.21	9.88	1.62	1.75
March	828.0	108	11.9	26.7	25.8	4.22	4.86
April	368.5	45	5.1	12.3	12.3	2.01	2.24
May	137.7	6.9	2.1	4.44	4.79	.784	.90
June	100.3	9.7	1.6	3.34	3.36	.550	.61
July	68.5	4.5	1.4	2.21	2.17	.355	.41
August	75.1	7.4	1.5	2.42	2.52	.412	.48
September	286.2	110	1.6	9.54	9.60	1.57	1.75
Water year 1935-36	3 625.96	150	.65	9.91	9.93	1.63	22.12

* Adjusted for change in contents in Lake Leffert.

Matawan Creek at Matawan--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	217.0	32	3.0	7.00	6.95	1.14	1.31
November	107.5	5.4	2.8	3.58	3.57	.584	.65
December	628.67	146	.17	20.3	20.4	3.34	3.85
Calendar year 1936	3 690.67	150	.17	10.1	10.1	1.65	22.49
January 1937	647.77	48	0	20.9	20.1	3.29	3.79
February	372.22	74	0	13.3	12.5	2.05	2.14
March	285.28	63	0	9.20	10.6	1.73	1.99
April	435.23	76	0	14.5	13.5	2.21	2.47
May	189.77	52	0	6.12	7.12	1.17	1.35
June	107.6	8.3	2.1	3.59	3.54	.579	.65
July	53.12	3.4	.78	1.71	1.64	.268	.31
August	233.08	54	.58	7.52	7.71	1.26	1.45
September	163.1	23	2.9	5.44	5.29	.866	.97
Water year 1936-37	3 440.34	146	0	9.43	9.42	1.54	20.93
October 1937	255.5	45	2.9	8.24	8.41	1.38	1.59
November	461.7	76	4.0	15.4	15.6	2.55	2.84
December	292.9	22	5.5	9.45	9.18	1.50	1.73
Calendar year 1937	3 497.27	76	0	9.58	9.58	1.57	21.28
January 1938	384.3	113	2.6	12.4	12.6	2.06	2.38
February	339.5	100	0	12.1	11.9	1.95	2.03
March	256.15	75	1.40	8.26	8.21	1.34	1.54
April	312.9	74	4.3	10.4	10.4	1.70	1.90
May	185.0	32	2.6	5.97	5.98	.979	1.13
June	522.2	165	2.0	17.4	17.4	2.85	3.18
July	646.1	130	2.1	20.8	21.0	3.44	3.97
August	164.31	11	1.87	5.30	5.09	.833	.96
September	768.53	438	1.87	25.6	24.8	4.06	4.53
Water year 1937-38	4 589.09	438	0	12.6	12.5	2.05	27.78
October 1938	329.7	44	0	10.6	11.7	1.91	2.20
November	459.3	150	5.7	15.3	15.3	2.50	2.79
December	457.7	50	6.0	14.8	14.7	2.41	2.78
Calendar year 1938	4 825.69	438	0	13.2	13.2	2.16	29.39
January 1939	563.2	145	5.6	18.2	17.2	2.82	3.25
February	752.47	163	0	26.9	27.5	4.50	4.69
March	602.13	94	0	19.4	18.3	3.00	3.46
April	389.2	62	1.5	13.0	14.4	2.36	2.63
May	139.1	7.2	2.6	4.49	4.28	.700	.81
June	87.03	10.0	1.65	2.90	2.99	.489	.55
July	49.3	4.3	1.1	1.59	1.49	.244	.28
August	107.2	27	.8	3.46	3.63	.594	.68
September	75.55	5.6	1.44	2.52	2.39	.391	.44
Water year 1938-39	4 011.88	163	0	11.0	11.1	1.82	24.56
October 1939	134.8	16.6	2.1	4.35	4.89	.800	.92
November	206.8	42	3.2	6.89	6.35	1.04	1.16
December	105.4	5.0	2.3	3.40	3.42	.560	.65
Calendar year 1939	3 212.18	163	0	8.80	8.79	1.44	19.52
January 1940	178.2	36	2.1	5.75	5.68	.930	1.07
February	353.58	83	0	12.2	12.2	2.00	2.16
March	499.6	90	4.3	16.1	16.4	2.68	3.09
April	612.66	100	0	20.4	19.3	3.16	3.53
May	427.11	135	0	13.8	15.0	2.45	2.82
June	253.6	40	0	8.45	8.32	1.36	1.52
July	115.8	7.7	1.3	3.74	3.53	.578	.67
August	158.7	32	1.1	5.12	5.20	.851	.98
September	205.13	59	0	6.84	6.81	1.11	1.24
Water year 1939-40	3 251.38	135	0	8.88	8.89	1.45	19.81

* Adjusted for change in contents in Lake Leffert.

Swimming River near Red Bank

Location.- Water-stage recorder above masonry dam, lat. 40°19'03", long. 74°06'57", just upstream from dam of Monmouth Consolidated Water Co., 4 miles (revised) upstream from Red Bank, Monmouth County, and mouth.

Drainage area.- 48.5 square miles (revised).

Records available.- July 1922 to September 1940.

Average discharge.- 18 years, 75.4 second-feet.

Extremes.- 1922-40: Maximum discharge, 7,370 second-feet Sept. 21, 1938 (gage height, 6.96 feet), from rating curve extended above 500 second-feet on basis of dam formula.

A stage of 7.84 feet, from floodmark indicated by observer, occurred during July 1919 (discharge, about 11,800 second-feet).

Peak gage height and discharge during period of this report.-

1935: Apr. 9 (6 p.m.) 3.68 ft., 701 sec.-ft.

1936: Jan. 3, 4.64 ft., 1,650 sec.-ft.; Jan. 9 (12 p.m.) 3.90 ft., 897 sec.-ft.; Mar. 12 (7 a.m.) 3.69 ft., 714 sec.-ft.; Sept. 19 (noon) 3.85 ft. estimated, 855 sec.-ft.; Oct. 17 (4:15 to 5:30 p.m.) 4.17 ft., 1,160 sec.-ft.; Dec. 20 (noon) 3.93 ft., 929 sec.-ft.

1937: Apr. 27 (3 to 4 p.m.) 3.91 ft., 908 sec.-ft.; Oct. 20 (7 to 8 p.m.) 3.88 ft., 881 sec.-ft.

1938: June 28 (2 to 3 a.m.) 4.60 ft., 1,610 sec.-ft.; July 20 (7:30 p.m.) 4.49 ft., 1,500 sec.-ft.; July 21 (11 p.m.) 3.83 ft., 839 sec.-ft.; July 24 (2 to 3 p.m.) 4.34 ft., 1,340 sec.-ft.; Aug. 8 (4 to 5 a.m.) 4.03 ft., 1,020 sec.-ft.; Sept. 21 (7:30 p.m.) 6.96 ft., 7,370 sec.-ft.; Nov. 20 (8 a.m.) 4.29 ft., 964 sec.-ft.

1939: Jan. 30 (10 p.m.) 4.40 ft., 968 sec.-ft.; Feb. 3 (11 p.m.) 4.86 ft., 1,460 sec.-ft.; Apr. 7 (4 a.m.) 4.20 ft., 785 sec.-ft.; Aug. 20 (6:30 a.m.) 4.46 ft., 1,030 sec.-ft.

1940: Feb. 20 (1 a.m.) 4.58 ft., 1,150 sec.-ft.; Mar. 4 (9 p.m.) 4.23 ft., 811 sec.-ft.; May 31 (3 to 4 p.m.) 4.39 ft., 958 sec.-ft.

Remarks.- Figures of discharge include flow over dam and through blow-off gates and water diverted at station for municipal supply.

Cooperation.- Water-stage recorder inspected and records of diversion furnished by Monmouth Consolidated Water Co.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a84	a49	70	110	a57	97	71	78	59	31	30	27
2	a62	a50	a68	128	a59	109	71	71	44	31	38	27
3	a53	a47	a55	76	60	133	68	75	40	29	143	34
4	a50	a45	a70	56	63	105	69	71	43	28	88	61
5	a50	a70	a63	43	57	101	70	71	62	29	54	174
6	a130	a93	a54	61	51	97	88	75	62	28	38	397
7	a150	a82	a49	61	41	86	77	105	57	26	36	303
8	a100	a98	a46	67	51	89	75	139	56	26	37	99
9	a80	a70	a44	71	59	78	405	82	193	31	37	72
10	a65	a55	a44	89	76	78	307	71	116	72	35	76
11	a60	a57	a55	78	70	86	156	72	76	50	34	59
12	a56	a52	a45	61	60	97	141	64	56	37	36	48
13	a52	a50	a43	55	56	167	182	62	50	31	35	48
14	a49	a48	a42	58	68	129	142	64	44	30	32	48
15	a47	a47	a43	40	370	101	117	60	40	30	30	48
16	a46	47	44	52	287	89	109	56	38	30	30	46
17	a45	44	47	58	258	82	101	57	40	30	27	40
18	a45	44	49	68	209	75	93	54	40	28	27	41
19	a45	44	66	47	139	74	86	49	63	a30	28	38
20	a45	44	177	55	122	86	86	50	70	a38	27	39
21	a45	44	89	97	101	92	82	49	66	a110	27	40
22	a61	47	64	89	97	105	82	50	44	a66	31	59
23	a56	45	58	87	97	82	82	47	41	a45	70	44
24	a51	52	55	37	105	88	78	50	38	a37	40	36
25	a47	48	55	59	106	82	78	49	36	a35	29	36
26	a47	47	65	78	129	78	72	46	35	a37	28	34
27	a52	52	83	a74	153	70	72	44	34	a41	28	36
28	a48	51	56	a65	102	74	69	42	36	37	28	36
29	a46	51	86	59	-	109	69	38	32	35	27	36
30	a45	64	83	59	-	82	86	44	32	32	29	34
31	a46	-	48	56	-	74	-	48	-	30	29	-

a No gage-height record; discharge computed on basis of records for Manasquan River at Squankum.

Swimming River near Red Bank--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	348	108	a34	50	391	80	61	42	a45	24	26
2	31	136	89	a43	51	226	95	60	38	a35	23	24
3	31	104	82	732	53	270	111	72	a35	a35	22	26
4	31	80	75	348	63	307	88	158	a33	a31	22	26
5	29	64	65	153	75	242	80	115	a31	30	a20	22
6	33	61	64	114	62	134	178	77	31	32	a26	22
7	58	61	58	114	59	91	177	70	31	31	a35	22
8	44	93	68	117	47	76	111	66	33	30	26	22
9	37	75	86	219	60	83	99	64	33	30	22	22
10	35	63	81	456	86	102	135	60	34	27	22	21
11	37	68	75	160	54	262	154	58	38	25	a21	21
12	58	71	67	125	49	506	154	58	a49	36	a21	21
13	49	78	64	117	49	192	135	128	66	32	a20	21
14	39	71	64	117	86	128	128	154	91	27	a19	20
15	37	61	67	118	128	121	107	a98	70	31	19	19
16	35	54	97	241	112	117	103	63	60	28	a19	20
17	35	164	75	142	225	112	95	57	43	25	a19	20
18	35	403	68	121	378	217	88	58	51	23	a19	82
19	35	190	64	138	138	196	79	63	88	23	a19	554
20	35	113	61	122	a90	141	80	58	53	23	a19	150
21	33	93	47	109	a67	210	77	50	46	26	a20	223
22	35	81	43	102	58	160	73	48	39	26	21	140
23	37	74	a43	a91	52	112	73	47	36	23	20	70
24	37	74	a43	a84	55	108	70	47	41	27	27	57
25	35	71	a43	a79	182	108	66	45	a45	29	a27	50
26	35	75	a43	a74	516	99	70	40	a40	30	a60	45
27	33	75	a38	a74	384	108	66	44	a35	24	a41	42
28	34	83	a38	a66	263	169	66	44	a45	a24	a28	40
29	35	340	a33	a61	346	115	66	42	a40	a24	a36	37
30	40	164	a38	a56	-	96	64	41	a40	a24	52	48
31	165	-	a38	a51	-	88	-	41	-	a24	28	-

a No gage-height record; discharge computed on basis of records for Lawrence Brook at Farrington Dam.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	206	51	41	121	234	91	73	114	56	51	32	59
2	136	52	57	98	139	91	76	106	51	49	33	53
3	71	51	145	147	106	91	76	103	52	44	65	45
4	57	51	94	177	110	87	72	97	56	42	43	44
5	52	51	62	114	106	87	73	92	53	41	35	76
6	49	48	59	98	106	87	167	106	49	45	32	136
7	49	51	208	109	106	82	164	163	61	44	31	74
8	52	53	153	158	110	87	102	110	55	42	33	56
9	a54	82	81	117	117	117	110	102	51	38	54	48
10	57	66	94	113	114	87	109	99	46	35	65	44
11	51	56	135	177	98	80	91	92	64	36	61	44
12	44	53	209	125	91	83	83	84	88	78	104	43
13	41	53	145	114	a90	86	80	81	56	63	72	66
14	41	51	97	102	a120	87	76	96	108	46	52	134
15	44	51	84	116	a140	110	76	164	89	48	39	74
16	41	49	77	173	a110	322	73	107	62	78	36	56
17	478	46	194	114	a100	187	73	88	56	58	33	52
18	352	46	152	149	95	125	73	84	63	44	31	49
19	117	44	99	130	95	114	76	81	62	41	31	a48
20	82	46	521	130	95	102	70	84	59	38	31	a46
21	69	48	235	224	98	138	79	78	63	37	30	46
22	63	45	132	263	321	111	247	75	397	35	32	48
23	59	44	112	218	182	98	203	72	146	34	436	49
24	59	54	100	172	134	91	117	69	74	32	299	46
25	56	56	96	219	117	97	98	67	64	30	215	46
26	56	53	96	197	111	102	91	67	52	30	107	45
27	57	49	92	144	106	87	512	67	51	63	103	45
28	57	43	92	125	98	83	296	77	53	45	112	51
29	54	43	88	121	-	80	172	75	59	36	74	56
30	54	44	83	117	-	76	134	66	53	33	65	51
31	51	-	87	125	-	76	-	63	-	36	65	-

a No gage-height record; discharge computed on basis of records for Manasquan River at Squankum.

Swimming River near Red Bank--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	73	110	72	125	62	70	50	45	94	116	57
2	44	70	98	80	87	95	66	49	43	82	100	57
3	44	67	91	73	82	87	66	45	40	75	94	52
4	44	64	82	67	98	73	63	46	43	66	85	50
5	45	61	83	64	86	87	61	46	48	61	89	47
6	70	61	103	64	83	101	61	45	51	58	93	45
7	64	61	130	182	106	89	69	46	44	53	221	46
8	47	61	91	176	91	80	86	43	45	54	576	46
9	44	58	83	94	79	73	201	45	43	50	184	41
10	52	58	73	73	80	72	139	67	36	49	116	43
11	64	58	67	76	73	73	80	70	36	52	131	41
12	52	57	64	76	73	82	76	61	54	52	132	44
13	47	252	62	91	75	80	73	58	200	49	97	49
14	44	357	59	87	80	86	70	52	122	53	85	52
15	42	139	62	80	73	139	65	157	68	138	83	56
16	44	102	76	67	64	120	64	117	53	117	75	69
17	44	95	91	73	63	116	60	65	48	60	78	51
18	44	80	114	68	72	106	67	56	56	97	81	64
19	47	73	110	51	87	95	113	52	52	132	81	245
20	371	79	83	64	251	86	80	51	46	887	72	364
21	334	80	80	67	176	83	67	49	41	613	66	2 380
22	110	70	73	87	110	76	64	52	40	466	63	1 050
23	98	67	73	95	116	73	64	52	41	358	60	259
24	87	67	70	91	158	70	58	51	45	908	58	201
25	76	67	82	248	114	64	58	48	40	359	55	165
26	67	67	80	198	94	66	59	50	39	190	56	151
27	67	70	70	96	94	66	55	112	373	156	54	139
28	228	210	73	83	87	64	53	106	981	137	61	156
29	183	424	83	70	-	64	51	62	260	120	59	138
30	98	155	70	83	-	66	51	53	127	113	54	.143
31	76	-	70	102	-	72	-	48	-	105	50	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	151	73	102	88	141	340	165	116	52	80	30	68
2	126	75	66	91	138	169	225	109	51	50	28	53
3	119	80	81	91	563	144	169	102	51	42	27	45
4	114	86	172	89	538	133	141	103	52	39	33	43
5	110	88	156	85	186	161	134	98	58	42	53	40
6	126	87	186	212	157	195	175	92	53	39	36	38
7	249	90	148	168	156	156	478	90	49	40	29	36
8	159	89	120	108	170	127	195	87	49	37	28	34
9	130	100	123	97	144	129	168	87	50	34	30	42
10	122	92	140	96	144	126	156	87	45	34	28	41
11	118	89	119	96	261	119	152	80	50	38	26	40
12	110	87	108	89	186	176	144	80	49	34	24	37
13	110	86	103	86	144	283	130	76	55	31	23	35
14	110	86	97	88	138	205	127	85	138	36	23	35
15	110	64	90	88	138	161	127	80	84	39	25	35
16	105	70	85	86	165	288	124	76	59	32	24	32
17	106	82	90	89	120	195	134	78	51	32	24	30
18	102	85	96	88	126	161	168	77	50	31	27	28
19	103	86	93	86	126	144	176	75	52	30	56	28
20	103	548	90	78	123	141	173	72	60	29	599	28
21	122	238	88	78	120	142	141	75	57	29	127	31
22	113	151	85	91	120	134	130	73	49	29	65	31
23	102	117	78	79	103	131	124	73	46	31	50	30
24	109	112	83	86	102	127	116	74	46	31	42	30
25	126	109	83	91	102	127	116	71	44	29	39	28
26	110	105	80	63	151	126	134	65	43	27	46	28
27	106	107	202	73	256	127	165	61	42	27	42	33
28	125	107	153	67	200	228	134	60	41	33	41	46
29	185	105	91	81	-	195	137	62	39	35	41	38
30	169	101	94	395	-	190	124	56	60	36	67	37
31	112	-	89	410	-	264	-	58	-	35	87	-

Swimming River near Red Bank--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	163	41	31	29	64	88	86	265	70	33	72
2	102	83	45	34	32	59	73	86	144	64	30	66
3	151	58	50	31	32	75	67	86	113	65	30	59
4	88	50	45	30	33	503	89	86	97	140	30	53
5	57	67	41	32	36	311	82	85	88	106	31	50
6	51	194	41	29	39	143	71	85	85	75	32	46
7	48	95	39	29	53	108	63	85	80	65	57	43
8	42	67	38	30	50	96	73	86	77	59	54	41
9	42	56	36	30	42	90	264	84	84	57	41	49
10	40	52	38	31	44	83	136	87	218	55	35	50
11	37	50	39	a30	98	71	101	87	124	53	32	49
12	36	50	36	a36	81	62	108	86	97	96	34	47
13	37	49	38	44	54	68	189	86	88	86	36	45
14	37	48	47	58	54	68	146	47	77	67	61	41
15	33	46	45	309	33	304	108	15	75	57	44	40
16	34	47	41	120	48	161	99	52	75	52	35	40
17	36	45	41	49	54	102	113	262	70	54	38	40
18	34	47	42	49	52	108	92	131	68	55	41	38
19	34	47	39	50	186	99	88	88	77	52	50	37
20	34	45	43	41	627	90	163	76	116	48	120	38
21	36	43	48	45	313	85	317	71	76	45	60	35
22	48	43	41	43	141	85	224	78	70	44	43	34
23	48	43	38	40	97	85	147	146	66	42	40	32
24	38	43	35	38	84	68	117	126	76	45	39	34
25	36	41	33	37	84	72	104	102	130	43	35	62
26	41	41	36	34	79	66	98	108	106	43	80	188
27	41	42	31	32	65	68	91	96	106	40	93	73
28	44	42	29	28	67	71	89	120	79	39	123	52
29	43	41	36	29	65	71	87	115	104	37	195	46
30	44	41	38	29	-	71	87	89	87	35	116	42
31	86	-	36	31	-	90	-	450	-	34	92	-

a No gage-height record; discharge computed on basis of records for Manasquan River at Squankum.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	1 858	150	45	59.9	1.24	1.43
November	1 637	98	44	54.6	1.13	1.26
December	1 916	177	42	61.8	1.27	1.46
Calendar year 1934	25 043	1 320	21	68.6	1.41	19.35
January 1935	2 094	128	37	67.5	1.39	1.60
February	3 103	370	41	111	2.29	2.38
March	2 895	167	70	93.4	1.93	2.22
April	3 284	405	68	109	2.25	2.51
May	1 933	139	38	62.4	1.29	1.49
June	1 643	193	32	54.8	1.13	1.26
July	1 170	110	26	37.7	.777	.90
August	1 208	143	27	39.0	.804	.93
September	2 116	397	27	70.5	1.45	1.62
Water year 1934-35	24 857	405	26	68.1	1.40	19.06
October 1935	1 274	165	29	41.1	.847	.98
November	3 487	403	54	116	2.39	2.67
December	1 925	108	38	62.1	1.28	1.48
Calendar year 1935	26 132	405	26	71.6	1.48	20.04
January 1936	4 578	732	34	148	3.05	3.52
February	3 838	516	49	132	2.72	2.93
March	5 287	506	76	171	3.53	4.07
April	2 968	178	63	98.9	2.04	2.28
May	2 087	158	40	67.3	1.39	1.60
June	1 357	91	31	45.2	.932	1.04
July	880	45	23	28.4	.586	.68
August	797	60	19	25.7	.530	.61
September	1 913	554	19	63.8	1.32	1.47
Water year 1935-36	30 391	732	19	83.0	1.71	23.33

Swimming River near Red Bank--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	2 709	478	41	87.4	1.80	2.08
November	1 530	82	43	51.0	1.05	1.17
December	3 920	521	41	126	2.60	3.00
Calendar year 1936	31 864	732	19	87.1	1.80	24.45
January 1937	4 507	263	98	145	2.99	3.45
February	3 449	321	90	123	2.54	2.64
March	3 242	322	76	105	2.16	2.49
April	3 742	512	70	125	2.58	2.88
May	2 829	164	63	91.3	1.88	2.17
June	2 249	397	46	75.0	1.55	1.73
July	1 372	78	30	44.3	.913	1.05
August	2 451	436	30	79.1	1.63	1.88
September	1 780	184	43	59.3	1.22	1.36
Water year 1936-37	33 780	521	30	92.5	1.91	25.90
October 1937	2 722	371	42	87.8	1.81	2.09
November	3 203	424	57	107	2.21	2.47
December	2 556	130	59	82.5	1.70	1.96
Calendar year 1937	34 102	512	30	93.4	1.93	26.17
January 1938	2 898	248	51	93.5	1.93	2.22
February	2 777	251	63	99.2	2.05	2.14
March	2 566	139	62	82.8	1.71	1.97
April	2 210	201	51	73.7	1.52	1.70
May	1 904	157	43	61.4	1.27	1.46
June	3 165	981	36	106	2.19	2.44
July	5 804	908	49	187	3.86	4.45
August	3 225	576	50	104	2.14	2.47
September	6 301	2 380	41	210	4.33	4.83
Water year 1937-38	39 331	2 380	36	108	2.23	30.20
October 1938	3 862	249	102	125	2.58	2.97
November	3 395	548	64	113	2.33	2.60
December	3 391	202	66	109	2.25	2.59
Calendar year 1938	41 498	2 380	36	114	2.35	31.84
January 1939	3 513	410	63	113	2.33	2.69
February	5 018	563	102	179	3.69	3.84
March	5 344	340	119	172	3.55	4.09
April	4 782	478	116	159	3.28	3.66
May	2 478	116	56	79.9	1.65	1.90
June	1 625	138	39	54.2	1.12	1.25
July	1 111	80	27	35.8	.738	.85
August	1 820	599	23	58.7	1.21	1.40
September	1 100	68	28	36.7	.757	.84
Water year 1938-39	37 439	599	23	103	2.12	28.68
October 1939	1 522	151	33	49.1	1.01	1.16
November	1 779	194	41	59.3	1.22	1.36
December	1 226	50	29	39.5	.814	.94
Calendar year 1939	31 318	599	23	85.8	1.77	23.98
January 1940	1 479	309	28	47.7	.984	1.13
February	2 672	627	29	92.1	1.90	2.05
March	3 497	503	59	113	2.33	2.69
April	3 574	317	63	119	2.45	2.73
May	3 287	450	15	106	2.19	2.52
June	3 018	265	66	101	2.08	2.32
July	1 823	140	34	58.8	1.21	1.40
August	1 780	195	30	57.4	1.18	1.36
September	1 542	188	32	51.4	1.06	1.18
Water year 1939-40	27 199	627	15	74.3	1.53	20.84

Manasquan River at Squankum

Location.- Water-stage recorder and concrete control, lat. 40°09'47", long. 74°09'21", at Farmingdale-Lakewood highway bridge in Squankum, Monmouth County, half a mile downstream from Marshbog Brook. During May to August 1940 concrete control was erected 50 feet downstream from bridge and former concrete control. On Aug. 13, 1940, recorder was moved from site upstream from bridge to site just downstream from bridge. Datum of gages the same at both sites.

Drainage area.- 43.4 square miles.

Records available.- July 1931 to September 1940.

Average discharge.- 9 years, 72.2 second-feet.

Extremes.- 1931-40: Maximum discharge, 2,940 second-feet Sept. 21, 1938 (gage height, 12.45 feet, from floodmark), by contracted-opening method; minimum, 12.9 second-feet Sept. 10, 1932.

Peak gage height and discharge during period of this report.-

1935: Feb. 15 (5:30 p.m.) 7.50 ft., 555 sec.-ft.

1936: Jan. 3 (4 p.m.) 9.22 ft., 742 sec.-ft.; Jan. 9 (1 p.m.) 8.52 ft., 656 sec.-ft.; Mar. 12 (7:30 a.m.) 7.81 ft., 579 sec.-ft.; Oct. 18 (1 a.m.) 7.70 ft., 681 sec.-ft.; Dec. 20 (6 p.m.) 8.40 ft., 840 sec.-ft.

1937: Apr. 27 (7 p.m.) 7.86 ft., 725 sec.-ft.; Oct. 20 (5 p.m.) 8.11 ft., 779 sec.-ft.; Nov. 14 (3 a.m.) 7.25 ft., 572 sec.-ft.; Nov. 29 (8 a.m.) 7.63 ft., 654 sec.-ft.

1938: June 28 (8 a.m.) 10.09 ft., 1,550 sec.-ft.; July 20 (9 p.m.) 9.96 ft., 1,480 sec.-ft.; July 24 (8 p.m.) 9.08 ft., 1,110 sec.-ft.; Aug. 8, 8.15 ft. estimated from chart, 807 sec.-ft.; Sept. 21, 12.45 ft. from floodmark, 2,940 sec.-ft.

1939: Jan. 31 (6:30 a.m.) 8.20 ft., 807 sec.-ft.; Feb. 4 (11 a.m.) 8.14 ft., 779 sec.-ft.; Mar. 1 (6 to 7 a.m.) 7.39 ft., 609 sec.-ft.; Apr. 7 (8 a.m.) 8.10 ft., 779 sec.-ft.

1940: Feb. 20 (6 to 7 a.m.) 8.21 ft., 810 sec.-ft.; Mar. 4 (9 to 11 p.m.) 7.70 ft., 677 sec.-ft.; May 31 (8 p.m.) 8.42 ft., 873 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72	35	66	160	b50	99	63	59	49	26	21	19.6
2	48	36	55	93	b50	107	62	53	38	24	27	19.6
3	42	34	46	68	b52	124	59	53	36	24	38	a25
4	38	48	66	b50	56	100	56	53	37	23	86	a50
5	36	82	52	b40	51	93	55	51	45	23	68	a110
6	123	71	45	51	47	90	72	53	48	22	35	a300
7	145	94	42	57	b40	85	62	169	43	21	30	a250
8	78	62	38	57	b45	89	62	121	41	21	28	a65
9	57	46	35	76	50	80	357	81	114	28	26	a60
10	47	41	b33	101	71	76	310	68	86	70	24	a64
11	44	47	b32	68	64	81	146	72	68	43	24	a50
12	41	45	32	53	57	111	140	78	50	31	24	a40
13	38	41	33	52	51	194	160	72	43	27	24	a38
14	37	40	32	45	61	121	124	62	38	26	40	a37
15	36	38	33	b35	482	102	104	59	35	24	35	a36
16	35	37	33	b45	363	92	102	50	33	24	25	a35
17	35	37	34	57	292	85	94	46	31	24	23	a33
18	34	36	35	46	219	77	86	45	36	23	21	a31
19	34	36	64	b38	150	74	83	42	53	25	19.6	a31
20	33	35	150	b60	127	81	78	40	53	30	20	a32
21	33	35	78	101	107	88	72	39	43	79	21	a33
22	46	35	60	b100	100	95	71	40	38	38	21	a48
23	41	35	51	b80	99	81	68	40	35	31	38	a31
24	40	39	47	b40	107	82	64	41	32	27	26	26
25	35	38	45	b50	110	74	62	39	30	26	22	26
26	35	36	63	b68	129	69	59	37	28	28	19.6	26
27	39	37	75	a66	153	64	56	35	28	26	18.8	26
28	36	37	51	a50	110	65	55	35	28	24	19.6	27
29	34	40	105	a58	-	96	52	33	26	23	19.6	28
30	33	68	b80	a52	-	76	64	35	26	22	20	27
31	33	-	b45	a50	-	62	-	39	-	20	21	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams, especially for Swimming River near Red Bank.

b Stage-discharge relation affected by ice.

Manasquan River at Squankum--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	386	118	b30	b42	232	79	47	36	30	21	25
2	26	145	98	b36	b44	136	80	46	35	28	20	22
3	25	104	88	590	b46	147	100	62	31	27	18.7	22
4	25	84	80	270	b55	157	84	279	33	26	18.7	22
5	24	70	71	154	67	144	74	137	30	25	18.0	20
6	26	61	68	119	54	106	163	87	28	25	21	a20
7	45	51	62	133	b46	84	191	71	28	23	33	a20
8	32	77	62	119	b42	73	112	63	28	22	24	a20
9	28	68	74	529	b48	71	93	56	28	22	22	a20
10	28	58	80	193	b70	82	126	51	28	22	20	a19.0
11	28	60	72	136	b46	229	166	51	29	22	20	a19.0
12	41	70	66	119	b42	516	136	49	33	26	19.4	a19.0
13	35	77	62	112	b42	228	119	102	44	25	18.7	a19.0
14	30	63	61	a110	b70	150	109	238	50	23	18.0	a18.0
15	29	57	61	a115	141	126	96	94	43	22	17.2	a17.0
16	28	52	84	a220	112	112	92	68	38	22	18.0	a18.0
17	26	166	70	144	286	109	79	61	32	20	18.7	a18.0
18	27	439	61	119	362	230	75	63	35	20	18.7	a80
19	27	206	59	133	150	234	70	62	41	21	18.0	a450
20	26	121	57	122	109	150	66	53	37	20	17.2	a130
21	26	97	49	100	82	194	61	44	35	21	17.2	a210
22	26	85	b40	87	59	150	57	41	32	21	18.0	144
23	27	78	b40	80	54	112	58	39	30	26	17.2	87
24	29	75	b40	b72	53	103	56	38	32	23	28	63
25	28	73	b40	b68	105	100	52	37	31	22	23	52
26	27	74	b40	b64	388	92	52	34	29	22	37	44
27	27	76	b35	b62	320	93	52	38	28	20	26	40
28	26	73	b32	b56	236	174	51	41	29	20	22	38
29	26	302	b30	b50	190	119	50	37	30	24	72	37
30	28	199	b30	b47	-	96	48	35	29	28	58	48
31	166	-	b30	b45	-	88	-	34	-	22	30	-

a No gage-height record; discharge computed on basis of records for Swimming River near Red Bank.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	222	45	33	96	245	76	62	109	37	35	25	a55
2	137	44	34	83	133	76	63	96	37	33	24	a45
3	76	43	106	175	100	73	61	86	36	31	23	a42
4	57	43	88	198	93	71	58	80	37	30	22	a40
5	49	44	60	109	93	72	57	76	35	30	22	a70
6	48	42	49	92	93	69	161	89	37	31	21	a110
7	43	41	166	107	92	66	128	113	53	30	21	a70
8	44	45	179	145	96	71	86	90	44	28	22	a50
9	44	71	89	106	106	87	96	83	37	28	26	a44
10	48	53	103	109	103	71	93	82	35	28	25	a39
11	45	46	145	172	87	67	76	82	66	28	32	a36
12	40	44	262	116	80	67	68	66	70	33	59	a35
13	37	43	159	96	80	69	63	63	46	31	63	a60
14	37	41	103	90	122	69	61	71	96	30	39	a140
15	36	40	84	125	119	104	62	132	66	31	30	a65
16	35	38	76	170	96	351	60	96	44	37	28	a50
17	394	37	264	109	90	173	55	73	40	28	25	a42
18	387	37	147	154	87	122	53	67	47	27	25	a38
19	136	36	101	136	87	109	57	62	41	25	25	a35
20	85	36	608	151	87	96	52	62	39	25	24	a33
21	71	37	290	326	88	119	62	58	40	25	24	33
22	62	36	147	278	306	100	211	55	275	25	90	31
23	57	35	109	227	173	86	187	63	105	24	299	31
24	56	39	96	170	122	79	109	66	59	24	238	30
25	52	42	92	236	106	83	87	59	47	23	a180	30
26	51	40	87	170	93	85	82	49	39	25	a110	29
27	52	38	82	130	90	74	512	44	37	39	a100	28
28	51	35	80	109	80	72	290	53	37	28	a100	32
29	48	34	73	109	-	68	174	48	39	26	a70	33
30	46	35	71	100	-	66	133	44	37	25	a65	31
31	44	-	74	130	-	64	-	39	-	25	a60	-

a No gage-height record; discharge computed on basis of records for Swimming River near Red Bank.

Manasquan River at Squankum--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	80	117	64	106	79	65	43	48	104	a105	48
2	30	74	99	70	84	81	59	42	44	90	a92	44
3	29	70	90	66	84	81	56	41	39	78	a86	42
4	28	65	90	60	87	72	53	40	39	70	a78	40
5	30	63	81	58	81	78	51	40	42	62	a80	38
6	93	61	106	56	77	90	48	40	40	58	a84	36
7	46	58	124	191	87	81	57	39	35	54	a220	35
8	37	57	93	149	77	74	70	37	37	52	a580	36
9	34	56	84	95	73	70	182	37	36	48	a190	35
10	45	53	74	78	72	69	116	47	33	57	a120	34
11	47	51	67	72	67	68	84	50	34	54	a125	34
12	39	51	63	72	66	74	73	50	43	54	a125	34
13	37	252	59	87	69	69	67	47	99	50	a90	38
14	36	366	56	84	69	75	63	46	147	58	a74	38
15	35	140	56	75	65	99	60	129	86	98	a70	38
16	34	104	68	67	61	92	57	86	60	76	a60	37
17	33	90	78	67	59	102	54	60	50	67	a62	37
18	32	81	97	66	60	92	62	55	44	75	a64	73
19	35	75	92	57	80	81	106	52	41	120	a58	206
20	413	79	78	58	250	76	77	50	37	932	a52	323
21	408	76	73	60	146	74	65	46	35	826	a49	a1 650
22	144	69	69	90	106	70	60	48	34	463	a47	a1 300
23	114	65	67	84	119	66	58	48	38	482	a45	a300
24	99	61	65	77	174	62	54	46	120	836	a43	a190
25	81	61	76	271	112	59	51	41	53	515	a41	a150
26	70	60	70	177	95	57	50	41	39	224	a41	a130
27	65	64	65	100	92	58	48	121	364	159	a40	a130
28	314	283	71	84	87	54	46	102	1 060	133	a42	a160
29	226	518	75	76	-	53	45	71	380	114	40	a130
30	123	182	67	78	-	54	43	57	155	106	39	114
31	96	-	64	102	-	63	-	52	-	a100	38	-

a No gage-height record; discharge computed on basis of records for Swimming River near Red Bank.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	112	a80	99	70	155	410	167	92	39	53	23	66
2	93	a70	93	73	133	175	206	84	38	36	22	57
3	84	a62	84	72	342	133	171	78	38	32	21	46
4	79	a58	166	67	592	120	133	78	37	31	28	37
5	75	a56	140	65	220	151	117	74	39	30	33	36
6	85	a56	220	224	206	188	160	72	37	29	24	33
7	151	a66	146	152	163	151	558	69	35	29	23	31
8	104	61	109	96	175	114	197	66	34	28	23	30
9	87	76	114	81	140	109	155	66	34	27	24	30
10	80	69	126	78	133	104	136	68	33	27	21	30
11	74	63	102	74	338	97	123	63	36	27	20	29
12	70	60	93	69	203	144	117	61	35	26	20	28
13	68	58	87	65	144	279	104	61	42	25	20	27
14	67	57	80	70	126	188	97	62	116	27	20	26
15	a66	53	76	68	126	133	97	58	63	26	18.8	24
16	a66	c51	70	64	167	261	92	58	51	24	18.8	24
17	a66	c56	72	63	112	206	104	58	43	24	20	24
18	a66	c54	75	64	112	144	167	56	40	24	19.5	24
19	a66	c78	72	65	106	123	159	61	38	24	69	23
20	a66	312	69	61	104	114	159	65	40	23	408	23
21	a85	136	66	61	104	109	112	63	40	23	82	23
22	a80	102	63	69	102	102	102	61	37	23	54	24
23	a80	93	57	73	92	102	92	63	35	24	45	24
24	a80	96	59	67	87	99	87	62	35	23	40	23
25	a90	93	59	73	87	95	84	56	33	23	40	23
26	a90	93	56	61	157	95	155	53	33	22	40	22
27	a85	93	227	54	261	95	163	51	32	24	39	24
28	a100	90	128	50	217	196	109	47	29	25	38	31
29	a150	87	84	58	-	215	109	45	29	26	36	29
30	a130	90	78	401	-	167	97	42	48	26	50	28
31	a100	-	72	535	-	316	-	41	-	25	71	-

a No gage-height record; discharge computed on basis of recorded range in stage, weather records, and records for Swimming River near Red Bank.

c River channel partly obstructed by coffer dam; discharge computed on basis of effect of backwater as indicated by recorder graph.

Manasquan River at Squankum--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	128	32	28	b25	57	77	72	315	54	24	62
2	54	66	33	b27	b27	54	65	70	149	51	24	55
3	99	54	36	27	b28	79	58	72	109	49	25	48
4	57	43	36	26	29	498	91	72	91	109	25	44
5	45	86	33	26	29	376	75	74	78	70	24	40
6	38	184	33	b26	30	139	61	69	70	50	24	38
7	34	87	33	26	41	111	56	65	63	43	37	36
8	32	62	32	25	38	98	64	60	58	40	30	35
9	30	52	30	26	35	88	265	57	138	37	25	43
10	29	45	30	26	36	80	118	56	311	36	24	40
11	28	43	30	25	96	68	88	57	117	35	23	39
12	27	41	29	27	66	61	96	57	93	50	22	39
13	27	39	30	32	46	61	187	57	76	49	26	37
14	26	38	35	45	48	62	146	56	64	43	59	35
15	25	37	33	310	43	368	107	55	58	39	32	34
16	25	37	33	100	41	166	94	61	56	37	28	33
17	25	37	33	b40	45	109	84	252	55	37	30	32
18	25	36	32	b40	46	109	83	122	53	36	34	31
19	25	35	31	b40	189	98	82	96	51	34	58	30
20	25	35	33	b34	635	87	212	76	50	32	157	30
21	25	34	36	b36	231	79	426	63	47	31	51	30
22	35	33	33	37	141	78	285	73	44	30	37	29
23	33	33	31	35	102	76	158	204	44	35	33	29
24	30	33	30	34	87	63	119	125	45	33	30	28
25	28	33	29	33	85	62	102	108	58	32	29	65
26	27	33	29	b28	78	58	95	98	60	31	86	100
27	27	32	28	b26	64	58	88	90	59	31	72	50
28	30	32	27	b24	60	59	84	106	54	35	167	40
29	31	32	27	b25	58	58	79	100	66	31	223	38
30	29	32	29	b25	-	60	74	82	58	29	116	35
31	85	-	29	b25	-	76	-	465	-	27	81	-

b Stage-discharge relation affected by ice.

Note.- Construction work in channel May 25 to Aug. 18; discharge for May 25 to Aug. 8 computed on basis of relation of recorder and downstream staff-gage heights and rating for downstream staff gage; discharge for Aug. 9-18 computed on basis of ratings for partly completed control.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	1 458	145	33	47.0	1.08	1.24
November	1 341	94	34	44.7	1.03	1.15
December	1 656	150	32	53.4	1.23	1.42
Calendar year 1934	21 803.2	538	16.4	59.7	1.38	18.72
January 1935	1 967	160	35	63.5	1.46	1.68
February	3 293	482	40	118	2.72	2.83
March	2 813	192	62	90.7	2.09	2.41
April	2 898	357	52	96.6	2.22	2.48
May	1 740	169	33	56.1	1.29	1.49
June	1 291	114	26	43.0	.991	1.11
July	903	79	20	29.1	.671	.77
August	885.2	86	18.8	28.6	.659	.76
September	1 624.2	300	19.6	54.1	1.25	1.40
Water year 1934-35	21 869.4	482	18.8	59.9	1.38	18.74
October 1935	1 018	166	24	32.8	.756	.87
November	3 547	439	51	118	2.72	3.04
December	1 860	118	30	60.0	1.38	1.59
Calendar year 1935	23 902.4	482	18.8	65.5	1.51	20.43
January 1936	4 234	590	30	137	3.16	3.64
February	3 361	388	42	116	2.67	2.88
March	4 637	516	71	150	3.46	3.99
April	2 647	191	48	88.2	2.03	2.26
May	2 158	279	34	69.6	1.60	1.84
June	992	50	28	33.1	.763	.85
July	720	30	20	23.2	.535	.62
August	748.7	72	17.2	24.2	.558	.64
September	1 761.0	450	17.0	58.7	1.35	1.51
Water year 1935-36	27 683.7	590	17.0	75.6	1.74	23.73

Manasquan River at Squankum--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	2 590	394	35	83.5	1.92	2.21
November	1 240	71	34	41.3	.952	1.06
December	4 057	608	33	131	3.02	3.48
Calendar year 1936	29 145.7	608	17.0	79.6	1.83	24.98
January 1937	4 524	326	83	146	3.36	3.87
February	3 147	306	80	112	2.58	2.69
March	2 855	351	64	92.1	2.12	2.44
April	3 319	512	52	111	2.56	2.86
May	2 256	132	39	72.8	1.68	1.94
June	1 658	275	35	55.3	1.27	1.42
July	888	39	23	28.6	.659	.76
August	1 917	298	21	61.8	1.42	1.64
September	1 407	140	28	46.9	1.08	1.20
Water year 1936-37	29 858	608	21	81.8	1.88	25.57
October 1937	2 884	413	28	93.0	2.14	2.47
November	3 365	518	51	112	2.58	2.88
December	2 434	124	56	78.5	1.81	2.09
Calendar year 1937	30 654	518	21	84.0	1.94	26.26
January 1938	2 791	271	56	90.0	2.07	2.39
February	2 605	250	59	93.0	2.14	2.23
March	2 273	102	53	73.3	1.69	1.95
April	1 980	182	43	66.0	1.52	1.70
May	1 704	129	37	55.0	1.27	1.46
June	3 312	1 060	33	110	2.53	2.82
July	6 215	932	48	200	4.61	5.32
August	2 880	580	38	92.9	2.14	2.47
September	5 500	1 650	34	183	4.22	4.71
Water year 1937-38	37 943	1 650	28	104	2.40	32.49
October 1938	2 695	151	66	86.9	2.00	2.31
November	2 469	312	51	82.3	1.90	2.12
December	3 042	227	56	98.1	2.26	2.61
Calendar year 1938	37 466	1 650	33	103	2.37	32.09
January 1939	3 143	535	50	101	2.33	2.69
February	4 904	592	87	175	4.03	4.20
March	4 935	410	95	159	3.66	4.22
April	4 329	558	84	144	3.32	3.70
May	1 934	92	41	62.4	1.44	1.66
June	1 219	116	29	40.6	.935	1.04
July	836	53	22	27.0	.622	.72
August	1 411.1	408	18.8	45.5	1.05	1.21
September	899	66	22	30.0	.691	.77
Water year 1938-39	31 816.1	592	18.8	87.2	2.01	27.25
October 1939	1 084	99	25	35.0	.806	.93
November	1 512	184	32	50.4	1.16	1.29
December	975	36	27	31.5	.726	.84
Calendar year 1939	27 181.1	592	18.8	74.5	1.72	23.27
January 1940	1 284	310	24	41.4	.954	1.10
February	2 479	635	25	85.5	1.97	2.12
March	3 496	498	54	113	2.60	3.00
April	3 619	426	56	121	2.79	3.11
May	3 070	465	55	99.0	2.28	2.63
June	2 590	315	44	86.3	1.99	2.22
July	1 276	109	27	41.2	.949	1.09
August	1 656	223	22	53.4	1.23	1.42
September	1 225	100	28	40.8	.940	1.05
Water year 1939-40	24 266	635	22	66.3	1.53	20.80

Toms River near Toms River

Location.- Water-stage recorder, lat. 39°59'10", long. 74°13'29", 1 mile downstream from Union Branch and 2⅝ miles northwest of village of Toms River, Ocean County. Datum of gage is 8.10 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 124 square miles.

Records available.- December 1928 to September 1940.

Average discharge.- 11 years (1929-40), 205 second-feet.

Extremes.- 1928-40: Maximum discharge, 1,540 second-feet Sept. 23, 1938 (gage height, 12.50 feet, from floodmark), from rating curve extended above 650 second-feet by logarithmic plotting; minimum, 63 second-feet Sept. 15 and 16, 1932 (gage height, 3.01 feet).

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	159	116	173	216	180	286	222	180	a145	115	80	92
2	180	119	180	222	166	281	216	a180	a138	106	83	86
3	194	119	166	222	173	270	209	a176	a127	97	85	89
4	173	127	166	216	173	270	194	a171	a128	92	90	100
5	144	152	166	202	173	270	187	a178	a140	89	94	180
6	187	173	166	194	173	259	202	a175	a161	87	94	317
7	222	202	159	180	166	247	209	a210	a172	84	87	542
8	a250	209	146	166	159	235	216	a250	180	82	84	771
9	a270	216	136	166	166	229	286	a300	187	106	83	617
10	a260	202	127	202	187	216	317	a320	209	152	79	472
11	a230	187	124	202	209	216	376	a360	241	152	78	351
12	a205	173	117	202	202	222	430	a345	253	138	80	281
13	a175	159	118	194	194	259	416	a330	235	114	79	235
14	a158	152	118	187	194	286	363	a302	180	104	85	202
15	a142	140	115	173	281	328	317	a262	a155	99	111	173
16	a130	134	113	159	317	328	307	a230	a139	96	92	159
17	a125	130	113	166	472	307	286	a212	a121	95	84	144
18	a123	128	115	173	542	270	270	a212	a122	117	80	135
19	a122	125	126	166	514	247	253	a200	a150	116	76	127
20	a122	123	173	166	444	235	247	a188	a187	114	75	121
21	a120	120	180	187	389	235	235	a190	a210	120	75	117
22	a120	119	202	209	339	235	222	a209	a187	110	77	118
23	122	119	202	235	307	235	222	a220	a165	105	152	114
24	124	124	180	209	286	235	209	a230	a147	99	166	110
25	122	130	159	247	270	229	194	a220	a130	98	159	113
26	118	128	159	241	270	222	187	a206	a119	104	131	107
27	117	126	159	235	276	216	180	a195	a111	105	105	105
28	121	130	159	222	281	209	180	a176	a119	95	94	104
29	120	127	180	209	-	216	173	a160	a121	89	89	105
30	116	152	187	202	-	222	173	a160	121	85	87	100
31	114	-	194	187	-	229	-	a160	-	81	93	-

a No gage-height record; discharge computed on basis of records for Great Egg River at Folsom and North Branch of Rancocas Creek at Pemberton.

Toms River near Toms River--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	247	317	a146	a200	351	307	202	173	144	144	194
2	101	297	363	a160	a200	328	286	194	143	138	114	152
3	98	474	339	a225	a202	307	286	202	130	130	96	131
4	98	458	297	a465	209	307	286	297	127	125	89	120
5	94	389	253	a600	222	297	281	339	146	122	84	110
6	97	328	229	a660	222	297	297	444	137	121	87	101
7	118	276	216	a600	222	297	307	444	128	116	130	95
8	139	247	202	a520	216	286	328	376	125	111	143	91
9	132	229	202	a440	a220	270	363	328	124	106	136	87
10	118	216	202	a428	a220	259	363	286	124	102	116	85
11	118	202	202	a420	a220	281	363	265	127	97	104	83
12	132	202	202	a410	a220	339	363	253	159	106	98	82
13	139	209	194	a390	a220	570	376	259	202	109	92	82
14	135	209	187	a360	a225	682	363	276	235	104	91	81
15	127	202	180	a335	a250	572	339	265	235	97	91	81
16	121	194	194	339	a290	472	317	247	216	92	86	81
17	117	247	194	351	328	389	297	265	202	89	84	80
18	112	307	187	363	363	376	286	247	187	90	81	127
19	108	328	180	376	a360	376	270	229	216	91	80	297
20	104	416	173	376	a345	402	259	216	222	90	78	339
21	102	416	166	336	a320	444	253	209	209	92	77	572
22	101	351	a156	363	a300	430	241	209	180	92	76	542
23	101	297	a151	307	a260	402	235	194	152	88	77	458
24	101	265	a148	a280	247	376	229	187	152	93	88	389
25	103	247	a145	a320	247	339	229	173	159	100	102	317
26	103	235	a143	a300	276	317	222	166	152	95	130	247
27	104	222	a142	a280	307	297	216	159	142	89	140	194
28	114	216	a142	a260	339	307	209	159	136	88	159	173
29	108	259	a142	a235	339	307	209	144	143	89	180	152
30	108	286	a141	a215	-	317	202	133	143	109	194	146
31	194	-	a141	a200	-	328	-	159	-	130	187	-

a No gage-height record; discharge computed on basis of records for Great Egg River at Folsom.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	209	146	118	229	328	270	216	458	192	158	110	259
2	235	137	121	235	339	259	210	376	192	150	108	222
3	265	128	152	270	351	253	204	328	198	139	116	204
4	286	134	159	307	339	247	204	297	198	134	122	186
5	265	137	173	328	328	241	204	276	192	133	116	186
6	216	136	180	351	307	235	229	259	186	133	107	210
7	180	136	209	339	297	229	253	270	180	135	100	222
8	180	137	229	328	286	229	276	282	180	128	113	229
9	187	180	253	328	286	241	307	287	174	122	153	210
10	173	187	286	328	286	241	307	287	162	118	157	186
11	166	173	297	328	286	247	287	287	180	114	140	168
12	152	173	307	317	281	241	270	287	216	117	186	157
13	145	159	317	317	270	235	253	282	229	124	270	174
14	142	152	328	307	276	235	235	276	241	120	307	204
15	140	145	328	317	281	253	229	297	222	118	282	210
16	135	140	297	307	286	307	222	317	210	164	265	198
17	216	135	297	307	297	328	210	351	204	180	216	174
18	270	132	281	328	286	376	204	402	198	180	186	161
19	281	128	286	339	281	402	204	376	180	168	180	148
20	307	127	363	351	270	389	198	328	106	164	168	145
21	328	127	416	389	265	351	204	287	144	154	150	137
22	297	126	500	430	297	328	259	270	198	140	143	137
23	247	125	486	486	307	307	282	282	235	128	204	133
24	216	126	416	500	339	287	307	270	276	121	276	130
25	194	127	351	486	351	276	328	265	307	112	339	128
26	180	130	307	458	328	265	328	253	265	110	402	127
27	166	126	281	416	307	259	328	222	198	136	402	124
28	166	123	270	389	287	253	376	235	174	152	363	130
29	159	120	259	351	-	247	542	235	168	149	351	137
30	159	119	222	317	-	235	542	229	165	126	363	136
31	152	-	229	297	-	222	-	210	-	116	317	-

Toms River near Toms River--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133	472	587	204	a260	235	174	156	210	698	317	162
2	128	376	514	204	a270	229	174	155	198	514	287	174
3	124	328	430	204	a270	229	168	152	192	389	282	174
4	122	287	351	204	a270	216	166	150	174	317	270	166
5	120	265	307	204	a260	210	164	150	174	282	270	160
6	168	259	297	210	a250	216	164	146	186	247	287	153
7	186	247	297	253	a240	216	166	144	186	222	339	149
8	180	229	297	270	a230	216	174	140	174	204	486	149
9	168	216	287	307	a230	210	222	145	167	192	647	149
10	180	216	282	307	a220	204	247	180	158	180	572	146
11	192	210	259	282	a220	198	270	186	157	180	472	146
12	186	204	241	253	a210	204	282	186	180	186	363	144
13	174	265	222	247	a210	204	247	186	210	180	317	146
14	174	317	a220	241	a200	210	222	186	282	186	282	149
15	161	376	a220	241	a200	222	204	241	351	229	253	149
16	152	486	a210	229	a200	235	186	276	389	241	235	146
17	147	440	a220	216	a190	253	174	287	351	265	229	147
18	142	376	a230	204	a180	259	174	287	276	328	229	156
19	158	317	235	192	a200	253	192	222	229	339	229	216
20	274	287	241	192	a240	241	216	210	210	377	216	282
21	389	276	235	192	a280	229	229	186	186	514	204	511
22	458	259	222	204	a320	216	229	180	158	881	192	1 080
23	472	247	222	210	a340	204	210	180	156	902	186	1 500
24	416	235	216	216	a330	192	192	186	186	953	180	1 120
25	363	229	222	259	317	186	180	180	222	1 010	174	736
26	317	222	222	282	307	180	174	165	259	989	174	542
27	287	222	222	317	297	180	168	216	282	771	168	444
28	328	282	222	328	270	174	168	270	432	587	166	389
29	351	363	222	a300	-	168	164	297	1 080	486	162	351
30	402	486	229	a270	-	168	157	297	1 030	416	159	328
31	500	-	210	a250	-	174	-	253	-	351	156	-

a No gage-height record; discharge computed on basis of records for Great Egg River at Folsom.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	328	328	259	247	a370	486	587	430	198	198	119	276
2	307	307	253	241	a370	528	572	376	186	198	109	259
3	307	282	247	229	a500	542	514	351	168	180	115	222
4	287	259	259	222	a680	486	472	328	160	162	113	198
5	276	247	270	222	a780	430	430	307	164	150	115	180
6	270	235	297	241	a700	402	376	297	210	143	112	168
7	287	229	351	259	a600	402	416	287	186	140	106	155
8	297	229	376	287	514	416	514	282	153	138	112	146
9	307	222	363	328	472	402	602	276	148	135	115	140
10	297	229	339	328	444	363	528	282	157	133	110	135
11	287	229	307	287	458	328	458	282	160	128	94	136
12	270	229	297	265	486	339	416	287	155	125	94	120
13	253	229	282	247	528	376	376	276	161	123	97	131
14	247	229	265	a230	500	430	351	287	204	130	94	127
15	235	216	253	a220	458	486	339	287	259	124	96	121
16	241	210	241	a220	430	500	317	265	265	118	98	120
17	235	210	235	a210	402	486	317	265	253	116	116	118
18	222	210	229	a210	389	514	328	259	204	115	121	113
19	216	222	229	a210	363	486	363	247	204	114	159	109
20	216	247	222	a210	339	430	402	259	198	112	351	111
21	216	276	216	a210	328	376	416	276	192	110	606	112
22	222	307	216	a210	328	351	402	247	174	110	835	113
23	229	351	210	a210	317	328	376	253	162	114	542	109
24	235	328	204	a220	297	317	339	253	155	112	351	109
25	253	307	204	229	287	307	317	241	147	109	259	108
26	247	297	198	a220	297	307	317	235	142	107	229	107
27	247	287	235	a210	328	307	351	229	142	106	210	111
28	265	282	253	a210	363	328	458	216	145	117	192	130
29	287	270	259	a210	-	351	528	210	143	127	186	133
30	307	265	270	a300	-	430	472	204	168	131	229	126
31	328	-	265	a360	-	528	-	198	-	133	270	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for Cedar Creek at Lanoka Harbor.

Toms River near Toms River--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	128	222	138	a120	122	204	217	252	431	216	96	324
2	160	245	139	a120	123	198	229	246	592	202	97	257
3	215	274	146	a120	123	203	241	243	581	182	99	228
4	243	269	150	a120	125	276	252	240	479	234	96	191
5	243	253	150	a110	127	320	255	236	382	257	94	162
6	211	270	148	a110	128	399	265	230	318	251	95	140
7	185	284	145	a110	147	443	255	228	285	225	139	125
8	164	305	143	a110	154	386	240	239	240	196	160	116
9	148	308	138	a110	148	327	274	226	224	174	158	117
10	140	270	134	a110	146	285	296	221	235	162	149	125
11	131	231	133	a110	166	259	358	212	247	153	128	128
12	125	206	132	a110	179	237	379	208	236	152	113	133
13	126	191	129	a110	185	220	372	208	224	172	113	127
14	119	181	135	a120	188	212	368	243	212	173	116	120
15	115	197	138	a170	194	269	366	248	202	161	119	115
16	111	194	138	a250	191	294	361	235	196	148	104	119
17	113	179	137	a220	192	343	328	268	186	144	104	126
18	115	163	137	a200	181	386	295	310	175	139	122	115
19	114	160	134	a180	215	357	277	445	179	133	137	107
20	113	156	133	a170	297	312	297	485	172	126	172	102
21	113	155	139	a160	331	286	356	403	156	120	178	101
22	138	155	139	a160	405	268	527	326	153	116	182	101
23	150	154	135	154	380	252	644	336	155	117	156	98
24	150	152	132	149	332	239	568	398	162	129	129	95
25	143	150	128	145	286	228	469	482	180	128	117	116
26	137	146	127	139	252	216	384	465	197	122	152	166
27	132	144	120	134	228	210	330	402	212	114	185	180
28	129	143	a120	128	214	205	301	361	206	110	246	196
29	140	143	a120	132	206	202	280	344	210	107	305	181
30	146	139	a120	128	-	202	263	302	216	103	344	149
31	178	-	a120	125	-	209	-	318	-	99	366	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for stations on nearby streams.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	4 885	270	114	158	1.27	1.46
November	4 361	216	116	145	1.17	1.30
December	4 778	202	113	154	1.24	1.43
Calendar year 1934	64 710	486	74	177	1.43	19.38
January 1935	6 157	247	159	199	1.60	1.84
February	7 503	542	159	268	2.16	2.25
March	7 744	328	209	250	2.02	2.33
April	7 498	430	173	250	2.02	2.25
May	6 907	360	160	223	1.80	2.07
June	4 800	253	111	160	1.29	1.44
July	3 246	152	81	105	.847	.98
August	2 927	166	75	94.4	.761	.88
September	6 287	771	86	210	1.69	1.89
Water year 1934-35	67 093	771	75	184	1.48	20.12
October 1935	3 543	194	94	114	.919	1.06
November	8 471	474	194	282	2.27	2.53
December	6 130	363	141	198	1.60	1.84
Calendar year 1935	71 213	771	75	195	1.57	21.36
January 1936	11 060	660	146	357	2.88	3.32
February	7 589	363	200	262	2.11	2.28
March	11 322	682	259	365	2.94	3.39
April	8 582	376	202	286	2.31	2.58
May	7 526	444	133	243	1.96	2.26
June	4 926	235	124	164	1.32	1.47
July	3 245	144	88	105	.847	.98
August	3 434	194	76	111	.895	1.03
September	5 689	572	80	190	1.53	1.71
Water year 1935-36	81 517	682	76	223	1.80	24.45

Toms River near Toms River--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	6 414	328	135	207	1.67	1.92
November	4 171	187	119	139	1.12	1.25
December	8 718	500	118	281	2.27	2.62
Calendar year 1936	82 676	682	76	226	1.82	24.81
January 1937	10 780	500	229	348	2.81	3.24
February	8 442	351	265	302	2.44	2.54
March	8 498	402	222	274	2.21	2.55
April	8 218	542	198	274	2.21	2.47
May	9 081	458	210	293	2.36	2.72
June	5 970	307	106	199	1.60	1.78
July	4 243	180	110	137	1.10	1.27
August	6 712	402	100	217	1.75	2.02
September	5 172	259	124	172	1.39	1.55
Water year 1936-37	86 409	542	100	237	1.91	25.93
October 1937	7 552	500	120	244	1.97	2.27
November	8 994	486	204	300	2.42	2.70
December	8 391	587	210	271	2.19	2.52
Calendar year 1937	92 043	587	100	252	2.03	27.63
January 1938	7 492	328	192	242	1.95	2.25
February	7 011	340	180	250	2.02	2.10
March	6 531	259	168	211	1.70	1.96
April	5 857	282	157	195	1.57	1.75
May	6 195	297	140	200	1.61	1.86
June	8 445	1 080	156	282	2.27	2.53
July	13 616	1 010	180	439	3.54	4.08
August	8 503	647	156	274	2.21	2.55
September	10 264	1 500	144	342	2.76	3.08
Water year 1937-38	98 851	1 500	120	271	2.19	29.65
October 1938	8 221	328	216	265	2.14	2.47
November	7 768	351	210	259	2.09	2.33
December	8 104	376	198	261	2.10	2.42
Calendar year 1938	98 007	1 500	140	269	2.17	29.38
January 1939	7 502	360	210	242	1.95	2.25
February	12 328	780	287	440	3.55	3.70
March	12 762	542	307	412	3.32	3.83
April	12 654	602	317	422	3.40	3.79
May	8 492	430	198	274	2.21	2.55
June	5 363	265	142	179	1.44	1.61
July	4 058	198	106	131	1.06	1.22
August	6 355	835	94	205	1.65	1.90
September	4 243	276	107	141	1.14	1.27
Water year 1938-39	97 850	835	94	268	2.16	29.34
October 1939	4 575	243	111	148	1.19	1.37
November	6 039	308	139	201	1.62	1.81
December	4 177	150	120	135	1.09	1.26
Calendar year 1939	88 548	835	94	243	1.96	26.56
January 1940	4 334	250	110	140	1.13	1.30
February	5 965	405	122	206	1.66	1.79
March	8 447	443	198	272	2.19	2.52
April	10 047	644	217	335	2.70	3.01
May	9 360	485	208	302	2.44	2.81
June	7 643	592	153	255	2.06	2.30
July	4 865	257	99	157	1.27	1.46
August	4 771	366	94	154	1.24	1.43
September	4 360	324	95	145	1.17	1.30
Water year 1939-40	74 583	644	94	204	1.65	22.36

Cedar Creek at Lanoka Harbor

Location.- Water-stage recorder and concrete control, lat. 39°52'05", long. 74°10'06", at highway bridge in village of Lanoka Harbor, Ocean County. Datum of gage is at mean sea level (New Jersey Geological Survey datum).

Drainage area.- 56.0 square miles.

Records available.- July 1932 to September 1940.

Average discharge.- 8 years, 114 second-feet.

Extremes.- 1932-40: Maximum discharge, 842 second-feet Aug. 21, 1939; maximum gage height, 6.45 feet Feb. 16, 1936, affected by ice and tide; minimum discharge, 17.8 second-feet May 29 and June 11, 1936.

Remarks.- Flow slightly regulated by operation of cranberry bogs.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	72	98	103	98	135	98	92	79	72	52	42
2	69	69	108	98	95	133	100	95	74	69	55	50
3	58	66	103	103	95	130	100	95	79	66	55	55
4	84	69	98	88	95	125	100	95	79	66	55	59
5	69	84	87	100	95	123	98	95	89	66	55	116
6	100	84	72	95	95	121	106	84	95	62	55	290
7	147	78	72	87	92	116	106	98	98	59	55	315
8	128	48	72	84	92	116	111	121	95	59	55	315
9	108	111	72	84	92	116	178	158	92	66	52	245
10	95	22	72	113	95	111	329	123	95	72	52	187
11	84	31	69	142	95	111	212	118	108	72	52	163
12	76	57	69	148	100	111	196	170	111	69	52	118
13	58	66	64	140	100	130	192	118	103	69	52	98
14	63	66	40	133	103	137	178	116	103	66	52	84
15	76	66	31	118	159	140	164	100	95	66	59	84
16	77	66	34	111	187	135	151	97	82	66	59	84
17	59	66	44	111	218	130	139	84	82	64	57	89
18	59	64	50	111	224	123	133	86	100	64	57	66
19	57	64	63	108	218	116	130	26	118	64	57	72
20	24	62	89	111	196	111	108	107	123	69	57	72
21	29	59	98	116	178	111	106	114	74	69	57	72
22	116	59	103	121	160	111	108	67	72	69	55	82
23	89	59	103	133	149	108	108	79	76	72	57	82
24	66	62	95	134	142	108	106	106	82	69	57	29
25	66	64	84	159	135	111	106	62	82	66	55	31
26	64	64	82	142	133	152	103	115	79	69	55	137
27	64	64	84	130	137	136	100	82	76	64	52	36
28	64	64	84	123	139	82	100	84	74	66	52	139
29	64	64	95	116	-	74	100	82	74	64	52	79
30	62	76	100	106	-	89	98	76	74	62	52	64
31	64	-	100	98	-	98	-	79	-	59	31	-

Cedar Creek at Lanoka Harbor--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	125	146	b70	b95	134	126	98	87	82	69	69
2	79	224	137	b75	b95	128	123	98	84	82	66	64
3	59	186	128	144	b95	128	138	98	79	79	64	62
4	69	153	118	227	b105	128	142	103	76	79	64	62
5	55	137	108	231	b110	128	136	106	76	74	62	59
6	42	95	106	238	b105	128	117	106	76	74	62	56
7	89	79	89	224	b100	126	126	106	74	74	66	54
8	68	92	95	187	b100	123	162	106	69	72	66	54
9	28	92	100	176	b95	120	182	173	69	72	64	54
10	50	89	100	187	b95	117	134	189	45	69	64	54
11	80	84	100	182	b95	123	148	162	26	66	64	54
12	189	84	86	178	b95	162	168	120	122	66	62	54
13	100	84	44	170	b100	182	171	117	210	69	59	52
14	74	87	62	156	b150	189	161	108	166	66	56	52
15	28	87	23	148	b240	194	151	95	162	66	54	52
16	28	79	43	159	b260	176	148	79	146	64	54	52
17	33	193	74	161	271	162	171	62	117	64	54	52
18	57	260	84	163	321	166	142	128	106	66	56	72
19	62	218	84	180	a260	174	128	111	100	89	56	154
20	180	196	84	192	a180	168	76	90	100	82	54	278
21	79	187	84	187	a140	171	84	74	95	74	54	191
22	72	175	48	182	a120	173	108	98	89	69	54	228
23	53	151	b95	166	a110	202	114	87	84	69	54	148
24	23	142	b85	b140	a105	198	108	62	87	69	54	120
25	28	137	b75	b130	106	111	108	72	87	72	54	100
26	50	123	b73	b120	108	136	108	74	84	72	56	64
27	62	121	b72	b110	117	106	106	82	82	69	26	84
28	82	123	b70	b105	128	126	106	76	82	76	32	74
29	72	135	b70	b100	134	170	106	60	82	79	56	74
30	59	144	b70	b97	-	159	100	114	82	76	72	74
31	68	-	b70	b95	-	136	-	84	-	74	69	-

a No gage-height record; discharge computed on basis of records for Batsto River at Batsto and East Branch of Wading River at Harrisville.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	103	95	64	117	144	126	108	162	87	87	57	114
2	95	123	66	117	148	120	106	148	84	82	57	103
3	87	69	84	140	140	117	117	136	84	76	55	98
4	84	69	87	151	138	114	89	126	66	74	52	92
5	57	72	73	151	138	111	87	117	62	72	50	87
6	74	72	45	148	136	111	106	114	69	72	50	89
7	62	72	72	142	134	108	126	114	76	72	50	66
8	66	72	64	140	131	108	128	48	79	69	55	76
9	66	79	89	140	134	111	136	188	76	66	87	76
10	33	82	106	136	134	111	138	117	28	64	89	74
11	36	79	142	136	134	111	131	117	84	64	82	72
12	55	76	182	136	131	111	123	120	188	64	79	72
13	87	76	194	134	126	108	136	177	120	64	89	82
14	50	74	179	128	126	108	106	138	126	64	108	106
15	85	66	159	126	128	120	100	114	100	62	103	95
16	131	79	144	131	128	159	100	61	95	87	87	84
17	100	72	117	134	131	168	98	154	87	100	79	82
18	140	66	100	144	134	189	95	117	89	79	79	66
19	142	64	120	146	131	173	92	126	89	72	92	64
20	134	64	202	157	128	159	95	95	98	66	76	98
21	79	64	200	182	126	153	98	68	98	64	69	61
22	98	64	206	182	151	194	126	145	98	62	66	83
23	95	64	194	186	153	168	140	103	98	59	191	64
24	123	64	189	179	151	105	151	98	89	59	236	64
25	72	64	166	170	148	84	151	95	84	57	267	64
26	69	64	144	164	142	106	140	92	79	55	244	64
27	79	64	134	161	136	108	157	89	74	62	236	64
28	76	64	128	151	128	111	179	95	74	64	211	66
29	64	64	123	144	-	111	161	100	84	62	173	72
30	33	64	120	138	-	108	170	100	84	59	146	72
31	55	-	117	138	-	108	-	95	-	59	126	-

Cedar Creek at Lanoka Harbor--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	228	236	114	120	78	88	75	36	182	182	114
2	58	180	223	117	120	120	88	72	36	139	168	91
3	60	141	194	120	120	131	94	68	88	108	154	94
4	63	166	189	117	120	120	94	80	184	99	148	152
5	63	131	176	114	114	114	94	75	102	88	163	126
6	80	120	166	108	111	114	91	75	96	82	251	117
7	91	114	166	129	111	114	91	75	88	78	324	114
8	85	111	70	146	111	114	91	123	82	91	409	96
9	51	108	99	150	108	111	129	146	78	99	447	82
10	99	108	129	148	108	108	136	146	72	75	434	91
11	96	105	131	141	105	102	136	82	70	70	322	96
12	58	102	129	136	102	102	129	76	70	82	244	96
13	40	155	123	136	102	102	120	63	80	85	206	96
14	65	189	120	134	102	105	111	123	99	85	182	96
15	75	166	117	131	105	120	102	114	94	88	171	99
16	47	176	114	126	105	120	96	108	108	94	162	102
17	36	164	84	120	102	126	94	102	94	88	160	102
18	178	150	80	114	99	129	91	96	85	94	168	105
19	110	134	105	102	99	183	88	88	78	148	164	120
20	149	131	114	108	139	144	82	85	72	203	156	174
21	211	131	117	108	154	117	80	82	72	340	150	410
22	217	126	117	108	154	60	80	80	68	352	146	725
23	197	120	117	111	152	72	80	80	68	352	139	757
24	236	114	117	111	156	82	80	80	65	341	129	503
25	207	108	120	157	152	88	80	80	65	362	126	256
26	262	108	120	148	148	88	99	78	63	311	126	217
27	136	105	120	150	139	88	88	94	80	284	123	194
28	202	159	120	144	131	88	39	123	220	244	123	176
29	169	284	120	134	-	88	63	123	230	206	120	182
30	158	251	117	126	-	88	70	120	217	189	117	206
31	152	-	114	123	-	88	-	82	-	189	114	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	217	182	74	135	243	259	237	192	70	137	88	236
2	217	158	98	128	244	256	254	153	70	125	99	214
3	217	146	115	125	276	243	208	189	70	113	91	179
4	206	139	98	125	302	229	214	176	70	105	83	137
5	172	131	101	122	311	222	203	161	105	99	86	129
6	191	131	145	138	276	222	197	169	97	96	88	119
7	189	126	176	145	255	218	214	210	160	96	86	110
8	200	126	180	142	230	213	211	145	104	96	81	99
9	185	126	180	138	192	208	213	138	110	116	81	84
10	171	126	187	132	214	199	211	161	116	150	83	91
11	114	126	168	128	244	187	205	205	119	122	81	99
12	134	123	157	122	242	207	197	201	116	110	79	99
13	141	123	145	115	240	225	187	118	113	99	79	99
14	160	120	138	115	236	221	168	287	119	96	70	99
15	160	117	135	115	228	226	164	65	179	94	61	99
16	150	117	125	115	220	247	161	67	129	88	61	99
17	183	117	125	115	207	240	161	67	113	88	63	96
18	190	117	125	112	199	229	176	67	108	88	91	89
19	146	123	125	112	192	222	194	137	105	88	185	80
20	144	152	125	115	187	210	201	196	108	86	580	102
21	144	160	128	112	180	199	199	133	137	83	681	94
22	146	154	125	112	176	189	201	129	129	83	604	94
23	141	146	122	115	172	180	192	141	116	83	280	91
24	144	144	119	112	164	176	168	160	110	83	195	91
25	154	146	119	122	161	172	187	165	105	83	160	88
26	154	120	119	122	168	176	153	155	99	83	155	88
27	152	123	153	112	192	180	168	155	99	81	150	96
28	156	136	153	112	216	234	189	141	99	83	137	108
29	182	134	153	112	-	168	201	129	99	83	137	102
30	194	117	153	162	-	258	205	105	122	86	210	99
31	200	-	142	236	-	240	-	65	-	86	248	-

Cedar Creek at Lanoka Harbor--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	99	179	88	86	79	105	113	116	221	116	72	214
2	119	175	88	86	79	105	113	116	225	108	72	170
3	199	160	91	83	79	108	137	122	225	105	70	107
4	191	133	91	83	79	155	122	122	199	145	70	83
5	179	133	91	83	79	199	116	122	136	155	70	91
6	133	187	91	81	79	206	86	116	32	141	72	91
7	94	187	77	79	81	206	91	113	53	122	94	91
8	96	175	27	79	81	179	99	110	304	108	108	88
9	102	155	38	79	81	155	122	93	152	102	94	88
10	78	133	67	79	86	133	137	96	187	99	81	88
11	86	122	76	79	94	119	137	113	160	90	79	88
12	105	116	54	79	96	113	133	83	179	75	79	76
13	90	113	55	79	96	108	145	81	203	119	79	103
14	38	108	72	87	105	108	145	187	137	102	88	91
15	79	102	79	142	116	137	145	116	122	94	86	88
16	113	65	81	a140	110	160	156	108	113	91	81	86
17	194	83	81	a130	108	170	146	137	105	88	81	83
18	40	99	81	a110	108	170	125	141	105	88	86	83
19	54	102	81	a95	122	160	206	129	105	86	105	81
20	167	96	86	a85	175	145	165	119	102	81	113	81
21	99	94	91	a90	187	137	240	113	102	83	110	81
22	105	94	91	91	187	129	207	110	102	83	88	79
23	108	94	88	a90	160	129	130	150	99	79	79	76
24	102	94	83	a85	141	119	222	165	108	81	79	74
25	96	94	81	a80	125	113	229	179	150	83	76	81
26	96	96	88	a80	116	110	170	187	165	81	102	86
27	96	94	88	a80	110	108	160	160	175	79	84	91
28	96	91	88	a80	108	105	141	137	160	74	134	102
29	96	88	86	a80	105	105	133	137	129	74	307	96
30	96	88	86	79	-	105	125	133	122	74	305	86
31	133	-	86	79	-	108	-	183	-	74	256	-

a No gage-height record; discharge computed on basis of weather records and records for stations on nearby streams.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	2 313	147	24	74.6	1.33	1.53
November	1 946	111	22	64.9	1.16	1.29
December	2 435	108	31	78.5	1.40	1.61
Calendar year 1934	33 785	271	22	92.6	1.65	22.41
January 1935	3 566	159	84	115	2.05	2.36
February	3 717	224	92	133	2.37	2.47
March	3 650	152	74	118	2.11	2.43
April	3 964	329	98	132	2.36	2.63
May	3 024	170	26	97.5	1.74	2.01
June	2 663	123	72	88.8	1.59	1.77
July	2 055	72	59	66.3	1.18	1.36
August	1 670	59	31	53.9	.962	1.11
September	3 355	315	29	112	2.00	2.23
Water year 1934-35	34 358	329	22	94.1	1.68	22.80
October 1935	2 075	189	23	66.9	1.19	1.37
November	4 082	260	79	136	2.43	2.71
December	2 623	146	23	84.6	1.51	1.74
Calendar year 1935	36 444	329	23	99.8	1.78	24.19
January 1936	4 880	238	70	157	2.80	3.23
February	4 035	321	95	139	2.48	2.68
March	4 644	202	106	150	2.68	3.09
April	3 898	182	76	130	2.32	2.59
May	3 138	189	60	101	1.80	2.08
June	2 844	210	26	94.8	1.69	1.89
July	2 254	89	64	72.7	1.30	1.50
August	1 797	72	26	58.0	1.04	1.20
September	2 617	278	52	87.2	1.56	1.74
Water year 1935-36	38 887	321	23	106	1.89	25.82

Cedar Creek at Lanoka Harbor--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	2 530	142	33	81.6	1.46	1.68
November	2 161	123	64	72.0	1.29	1.44
December	4 010	206	45	129	2.30	2.65
Calendar year 1936	38 808	321	26	106	1.89	25.77
January 1937	4 549	186	117	147	2.62	3.02
February	3 809	153	126	136	2.43	2.53
March	3 899	194	84	126	2.25	2.59
April	3 690	179	87	123	2.20	2.46
May	3 569	188	48	115	2.05	2.36
June	2 649	188	28	88.3	1.58	1.76
July	2 118	100	55	68.3	1.22	1.41
August	3 441	267	50	111	1.98	2.28
September	2 370	114	61	79.0	1.41	1.57
Water year 1936-37	38 795	267	28	106	1.89	25.75
October 1937	3 729	262	36	120	2.14	2.47
November	4 385	284	102	146	2.61	2.91
December	4 064	236	70	131	2.34	2.70
Calendar year 1937	42 272	284	28	116	2.07	28.06
January 1938	3 931	157	102	127	2.27	2.62
February	3 389	156	99	121	2.16	2.25
March	3 304	183	60	107	1.91	2.20
April	2 804	136	39	93.5	1.67	1.86
May	2 894	146	63	93.4	1.67	1.92
June	2 860	230	36	95.3	1.70	1.90
July	5 248	362	70	169	3.02	3.48
August	6 028	447	114	194	3.46	3.99
September	5 789	757	82	193	3.45	3.85
Water year 1937-38	48 425	757	36	133	2.38	32.15
October 1938	5 254	217	114	169	3.02	3.48
November	4 006	182	117	134	2.39	2.67
December	4 208	187	74	136	2.43	2.80
Calendar year 1938	49 715	757	36	136	2.43	33.02
January 1939	3 923	236	112	127	2.27	2.62
February	6 167	311	161	220	3.93	4.09
March	6 655	259	168	215	3.84	4.43
April	5 839	254	153	195	3.48	3.88
May	4 582	287	65	148	2.64	3.04
June	3 296	179	70	110	1.96	2.19
July	3 009	150	81	97.1	1.73	1.99
August	5 173	681	61	167	2.98	3.44
September	3 310	236	80	110	1.96	2.19
Water year 1938-39	55 422	681	61	152	2.71	36.82
October 1939	3 379	199	38	109	1.95	2.25
November	3 550	187	65	118	2.11	2.35
December	2 451	91	27	79.1	1.41	1.63
Calendar year 1939	51 334	681	27	141	2.52	34.10
January 1940	2 758	142	79	89.0	1.59	1.83
February	3 172	187	79	109	1.95	2.10
March	4 209	206	105	136	2.43	2.80
April	4 396	240	86	147	2.62	2.92
May	3 994	187	81	129	2.30	2.65
June	4 377	304	32	146	2.61	2.91
July	2 980	155	74	96.1	1.72	1.98
August	3 300	307	70	106	1.89	2.18
September	2 823	214	74	94.1	1.68	1.87
Water year 1939-40	41 389	307	27	113	2.02	27.47

Batsto River at Batsto

Location.- Water-stage recorder and concrete control, lat. 39°38'33", long. 74°39'00", 30 feet downstream from highway bridge at Batsto, Burlington County, and 1 mile upstream from mouth. Prior to Oct. 11, 1939, wooden control 40 feet downstream.

Drainage area.- 70.5 square miles (revised).

Records available.- October 1927 to March 1939 and October 1939 to September 1940.

Average discharge.- 12 years (1927-38, 1939-40), 122 second-feet.

Extremes.- 1927-39, 1939-40: Maximum daily discharge, 924 second-feet Sept. 3, 1940; minimum daily, 15 second-feet (regulated) Aug. 3, 1933.
Stage of 8.7 feet occurred on Aug. 20, 1939, from floodmark on recorder house.

Remarks.- Figures of discharge include water diverted around station by old gristmill. Flow slightly regulated by sluice gates in dam 300 feet upstream and occasionally by operation of sawmill at dam.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	111	76	104	120	a122	172	123	100	88	66	48	65
2	109	82	105	130	a122	169	118	98	86	65	54	63
3	109	79	99	146	a122	161	113	101	92	62	62	64
4	109	88	103	126	a121	156	108	103	92	63	59	87
5	109	92	95	117	a121	156	106	104	96	62	55	131
6	129	112	90	109	a120	146	118	106	106	62	48	310
7	143	137	87	107	a120	150	119	119	111	64	59	618
8	192	143	86	115	a122	148	159	143	111	62	56	618
9	206	142	83	142	a130	139	191	157	109	74	41	475
10	192	134	81	139	130	130	226	165	122	75	52	355
11	161	124	80	126	130	119	233	181	148	85	49	260
12	139	114	78	124	144	138	226	284	151	71	50	246
13	126	107	73	110	154	165	219	214	158	62	50	190
14	114	102	70	113	151	192	191	187	138	60	54	178
15	96	91	67	101	220	227	162	173	116	60	64	155
16	94	80	70	102	372	186	154	169	102	62	69	108
17	92	74	70	104	372	186	150	158	95	58	84	112
18	91	76	70	120	380	173	142	170	99	57	63	111
19	85	79	82	117	342	160	136	174	107	57	58	107
20	84	80	90	110	297	134	125	166	109	57	57	102
21	81	81	87	130	255	134	116	156	104	57	53	99
22	84	80	89	165	199	134	106	122	101	55	58	96
23	89	79	86	192	206	132	107	161	91	57	83	85
24	88	93	92	168	180	127	106	123	85	56	146	61
25	77	89	87	a152	164	123	102	108	85	57	197	88
26	76	93	97	a137	166	114	101	102	75	58	154	82
27	79	96	96	a132	161	114	94	98	76	58	111	81
28	83	93	92	a129	165	114	96	94	73	56	81	82
29	75	85	105	a125	-	114	95	91	72	55	76	80
30	73	97	110	a124	-	119	98	87	71	54	79	78
31	76	-	114	a122	-	124	-	88	-	54	68	-

a No gage-height record; discharge computed on basis of records for Cedar Creek at Lanoka Harbor.

Batsto River at Batsto--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	377	252	a90	a135	210	229	112	80	115	78	67
2	97	534	236	a92	131	203	197	108	73	113	72	66
3	80	468	205	a270	144	188	193	111	75	108	66	64
4	a61	358	194	a400	156	182	195	130	75	101	62	65
5	37	294	170	a450	a156	187	206	141	66	107	57	62
6	65	236	a135	a400	a150	180	220	148	65	112	61	56
7	96	236	a114	a360	a150	180	252	179	65	97	64	58
8	69	190	108	a320	a150	167	244	139	66	83	64	54
9	76	173	116	a300	a148	159	205	129	64	79	68	52
10	76	169	108	a310	a145	152	244	126	63	76	64	52
11	74	154	119	a305	a142	207	260	148	71	70	60	52
12	82	152	111	a300	a142	336	286	168	81	73	53	52
13	91	150	116	282	a160	435	294	243	129	81	60	53
14	94	149	121	256	a260	413	269	182	218	84	56	50
15	89	149	116	256	a310	374	244	157	242	78	60	51
16	84	145	109	273	a315	299	228	152	192	68	58	52
17	75	286	107	284	a340	274	189	122	130	76	57	52
18	70	278	109	292	a360	273	176	115	138	56	55	129
19	69	358	110	311	a340	326	161	111	128	65	53	122
20	71	368	124	405	a280	327	161	120	137	62	51	191
21	74	312	144	273	a220	338	153	131	161	61	51	258
22	75	252	94	173	a190	309	138	124	152	63	54	210
23	73	244	85	a165	a185	290	143	114	126	62	56	178
24	75	176	89	a165	a170	264	131	102	120	73	53	124
25	74	182	89	a165	144	230	121	95	99	79	51	109
26	69	176	a90	a165	162	222	130	86	99	72	57	92
27	69	149	a90	a165	212	230	115	93	95	70	61	77
28	69	162	a90	a150	228	254	116	86	93	68	64	79
29	67	165	a90	a145	244	280	116	83	96	66	64	79
30	86	212	a90	a145	-	280	116	84	114	70	75	88
31	190	-	a90	a140	-	262	-	82	-	74	78	-

a No gage-height record; discharge computed on basis of records for East Branch of Wading River at Harrisville.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	80	62	112	186	157	118	224	148	110	22	173
2	96	78	83	112	217	147	113	231	130	97	36	149
3	103	77	79	166	211	142	105	167	111	92	47	122
4	95	77	83	132	205	138	95	147	106	83	50	93
5	85	77	79	215	180	128	102	136	99	83	54	95
6	78	72	78	198	159	120	123	137	96	79	54	100
7	76	66	96	186	161	119	146	139	92	76	57	102
8	75	79	99	180	161	122	160	174	86	76	55	102
9	79	77	112	168	158	124	167	168	86	77	51	97
10	82	76	115	174	179	126	161	180	86	75	54	89
11	79	71	115	162	156	123	161	138	104	73	50	77
12	78	77	145	186	157	120	126	145	104	78	54	74
13	74	75	141	162	148	118	126	150	107	78	56	78
14	73	74	155	180	148	117	124	161	113	89	60	74
15	70	73	142	168	150	145	116	189	107	85	53	75
16	87	72	136	174	162	179	107	299	111	78	54	73
17	114	67	136	192	161	237	107	336	114	74	51	71
18	113	66	139	198	162	257	103	336	106	72	63	70
19	172	64	159	205	157	250	102	328	95	69	63	71
20	166	64	211	217	151	210	93	299	98	68	54	69
21	146	66	178	278	162	198	123	243	107	66	52	68
22	131	64	231	306	168	167	118	211	136	69	61	65
23	124	66	152	306	198	177	148	198	159	68	94	63
24	105	65	173	278	238	142	155	198	146	64	100	60
25	95	66	173	271	206	161	161	162	124	64	109	65
26	94	70	111	251	206	150	186	168	106	153	125	66
27	87	65	130	244	186	123	244	145	99	73	161	62
28	91	64	122	212	162	142	321	151	100	70	191	63
29	91	66	116	192	-	132	328	161	98	68	231	64
30	94	69	114	174	-	115	277	174	105	62	257	65
31	92	-	114	168	-	116	-	174	-	31	237	-

Batsto River at Batsto--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	229	297	87	122	131	92	78	a80	485	190	91
2	60	222	256	97	125	130	101	77	a86	364	178	94
3	59	178	204	95	127	127	95	73	94	261	128	91
4	59	166	197	91	123	126	98	72	99	229	138	96
5	60	143	161	87	119	125	86	71	102	184	137	95
6	83	109	167	85	115	125	83	73	103	155	137	89
7	92	105	148	97	114	128	91	71	100	119	155	84
8	82	103	137	105	110	113	92	69	94	119	130	82
9	74	102	139	111	104	108	117	72	87	112	245	77
10	80	98	132	123	103	112	143	78	83	105	296	77
11	82	95	123	115	101	112	138	85	80	108	a280	76
12	77	100	a110	106	105	115	129	103	84	124	a240	76
13	74	161	a100	104	99	114	112	130	100	118	a200	82
14	74	135	a96	106	102	127	103	a149	130	117	a170	90
15	72	167	a92	108	97	129	102	111	172	111	a150	83
16	70	197	a90	99	96	127	99	100	166	109	a130	77
17	62	191	a94	106	93	141	95	102	148	a130	123	81
18	61	173	a98	102	88	144	95	100	124	a200	118	83
19	61	150	100	95	99	141	91	98	105	a300	113	89
20	111	134	98	92	144	136	85	115	94	a350	106	154
21	98	125	93	90	155	122	85	a180	83	a400	105	372
22	98	122	92	94	185	120	89	261	87	a420	104	a720
23	107	118	90	93	179	113	88	a220	83	a440	104	a800
24	101	110	87	98	191	110	86	a100	101	a460	105	a680
25	92	102	86	132	210	102	90	91	113	479	101	514
26	90	95	73	139	185	104	a95	85	104	513	98	365
27	a130	97	89	146	179	97	a83	95	130	404	91	276
28	a190	149	87	146	185	93	73	121	316	333	90	216
29	a220	179	83	122	-	90	a74	a130	641	268	87	230
30	a230	269	77	116	-	91	a76	a110	641	241	86	290
31	241	-	90	122	-	93	-	a90	-	196	85	-

a No gage-height record; discharge computed on basis of records for East Branch of Wading River at Harrisville.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	446	204	161	134	510	383					-	
2	413	185	167	127	527	424					-	
3	319	173	173	126	511	357					-	
4	269	137	185	119	649	334					-	
5	236	148	204	125	652	293					-	
6	210	146	249	156	542	332					-	
7	185	140	262	172	422	398					-	
8	223	140	256	203	340	307					-	
9	223	140	262	240	353	242					-	
10	210	138	210	184	332	282					-	
11	185	138	197	172	419	182					-	
12	173	137	185	159	472	278					-	
13	167	132	167	166	456	299					-	
14	167	131	159	156	396	414					-	
15	151	128	134	149	338	338					-	
16	146	127	136	144	307	370					-	
17	145	122	129	133	297	424					-	
18	139	123	108	130	285	403					-	
19	140	127	114	133	261	361					-	
20	138	155	117	131	253	295					-	
21	138	154	111	126	258	314					-	
22	138	145	109	130	216	210					-	
23	138	173	.104	136	211	241					*454	
24	144	191	111	131	203	-					*240	
25	155	139	113	134	187	-					-	
26	153	179	113	135	188	-					-	
27	155	167	127	126	214	-					-	
28	167	161	129	124	297	-					-	
29	191	149	135	124	-	-					-	
30	191	173	138	262	-	-					-	
31	197	-	136	374	-	-					-	

* Discharge measurement.

Note.- Concrete control was being erected Mar. 24 to Sept. 30; no gage-height record.

Batsto River at Batsto--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a90	84	63	72	77	111	125	133	470	167	71	436
2	a130	217	57	70	77	109	135	134	642	116	59	464
3	a170	170	97	70	72	113	119	137	531	65	63	924
4	a170	124	100	70	74	229	119	133	348	161	61	750
5	a160	284	65	70	76	272	121	118	278	115	72	431
6	a150	130	57	69	75	354	124	137	192	113	60	222
7	a130	250	71	67	81	248	121	129	180	136	81	209
8	a110	288	71	71	82	243	117	121	149	106	99	172
9	a100	244	67	65	81	a220	131	147	155	96	70	151
10	a90	146	104	62	82	a180	174	111	188	88	71	142
11	a80	198	55	65	142	122	240	192	112	66	57	97
12	74	180	88	85	61	154	223	228	135	67	80	148
13	81	116	49	73	97	140	181	198	137	93	58	104
14	81	89	46	90	123	134	234	119	134	81	71	118
15	79	164	71	95	105	184	254	131	126	92	76	115
16	79	99	76	147	102	254	219	130	119	71	a70	111
17	79	81	74	94	110	304	202	391	112	76	a90	106
18	77	89	76	102	109	212	155	827	107	77	a120	104
19	109	162	74	99	141	221	158	661	103	77	a250	100
20	92	105	74	94	164	193	261	456	101	77	a230	208
21	50	77	77	90	193	161	326	413	96	69	a200	100
22	66	68	78	89	213	146	405	357	92	67	171	96
23	88	129	77	84	190	150	345	328	92	104	131	94
24	87	85	74	84	123	147	285	342	93	95	104	90
25	87	77	76	85	162	140	225	302	137	82	85	94
26	86	145	75	78	104	131	195	372	118	83	130	113
27	83	94	75	77	113	105	163	195	137	75	118	126
28	83	81	73	76	113	112	172	258	68	73	220	126
29	79	76	72	77	111	113	161	182	93	73	213	115
30	84	93	71	75	-	113	142	175	115	64	293	109
31	192	-	71	67	-	117	-	292	-	68	256	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for East Branch of Wading River at Harrisville.

Note.- Concrete control was being erected Oct. 1-10.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	3 372	206	73	109	1.55	1.79
November	2 898	143	74	96.6	1.37	1.53
December	2 738	114	67	88.3	1.25	1.45
Calendar year 1934	42 856	380	60	117	1.66	22.76
January 1935	3 954	192	101	128	1.82	2.10
February	5 288	380	120	189	2.68	2.79
March	4 556	227	114	147	2.10	2.42
April	4 140	233	94	138	1.96	2.19
May	4 302	284	88	139	1.97	2.27
June	3 069	158	71	102	1.46	1.63
July	1 901	85	54	61.3	.870	1.00
August	2 238	197	41	72.2	1.02	1.18
September	5 187	618	61	173	2.45	2.73
Water year 1934-35	43 643	618	41	120	1.70	23.08
October 1935	2 465	190	37	79.5	1.13	1.30
November	7 254	534	145	242	3.43	3.83
December	3 821	252	85	123	1.74	2.01
Calendar year 1935	48 175	618	37	132	1.87	25.45
January 1936	7 807	450	90	252	3.57	4.12
February	5 869	360	131	202	2.87	3.10
March	8 031	435	152	259	3.67	4.23
April	5 732	294	115	191	2.71	3.02
May	3 919	243	82	126	1.79	2.06
June	3 313	242	63	110	1.56	1.74
July	2 462	115	56	79.4	1.13	1.30
August	1 883	78	51	60.7	.861	.99
September	2 694	258	50	89.8	1.27	1.42
Water year 1935-36	55 250	534	37	151	2.14	29.12

Batsto River at Batsto--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	3 039	172	70	98.0	1.39	1.60
November	2 123	80	64	70.8	1.00	1.12
December	3 979	231	62	128	1.82	2.10
Calendar year 1936	50 851	450	50	139	1.97	26.80
January 1937	6 167	306	112	199	2.82	3.25
February	4 895	238	148	175	2.48	2.58
March	4 702	257	115	152	2.16	2.49
April	4 516	328	93	150	2.13	2.38
May	6 069	336	136	196	2.78	3.20
June	3 279	159	86	109	1.55	1.73
July	2 400	153	31	77.4	1.10	1.27
August	2 656	257	22	85.7	1.22	1.41
September	2 495	173	60	83.2	1.18	1.32
Water year 1936-37	46 320	336	22	127	1.80	24.45
October 1937	3 054	241	59	98.5	1.40	1.61
November	4 324	269	95	144	2.04	2.28
December	3 786	297	73	122	1.73	1.99
Calendar year 1937	48 343	336	22	132	1.87	25.51
January 1938	3 309	146	85	107	1.52	1.75
February	3 655	210	88	131	1.86	1.94
March	3 646	144	90	118	1.67	1.92
April	2 886	143	73	96.2	1.36	1.52
May	3 310	261	69	107	1.52	1.75
June	4 430	641	80	148	2.10	2.34
July	7 954	513	105	257	3.65	4.21
August	4 420	296	85	143	2.03	2.34
September	6 230	800	76	208	2.95	3.29
Water year 1937-38	51 004	800	59	140	1.99	26.94
October 1938	6 052	446	138	195	2.77	3.19
November	4 502	204	122	150	2.13	2.38
December	4 901	262	104	158	2.24	2.58
Calendar year 1938	55 295	800	69	151	2.14	29.21
January 1939	4 861	374	119	157	2.23	2.57
February	10 096	652	187	361	5.12	5.33
March 1-23	7 481	424	182	325	4.61	3.94
April	-	-	-	-	-	-
May	-	-	-	-	-	-
June	-	-	-	-	-	-
July	-	-	-	-	-	-
August	-	-	-	-	-	-
September	-	-	-	-	-	-
Water year	-	-	-	-	-	-
October 1939	3 116	192	50	101	1.43	1.65
November	4 145	288	68	138	1.96	2.19
December	2 254	104	46	72.7	1.03	1.19
Calendar year	-	-	-	-	-	-
January 1940	2 512	147	62	81.0	1.15	1.33
February	3 253	213	61	112	1.59	1.72
March	5 432	354	105	175	2.48	2.86
April	5 832	405	117	194	2.75	3.07
May	7 849	827	111	253	3.59	4.14
June	5 360	642	68	179	2.54	2.83
July	2 793	167	64	90.1	1.28	1.48
August	3 730	293	57	120	1.70	1.96
September	6 175	924	90	206	2.92	3.26
Water year 1939-40	52 451	924	46	143	2.03	27.68

East Branch of Wading River at Harrisville

Location.- Water-stage recorder and, since June 23, 1939, concrete control, lat. 39°39'47", long. 74°31'26", 50 feet downstream from highway bridge in Harrisville, Burlington County, and half a mile upstream from confluence with West Branch.

Drainage area.- 64.0 square miles.

Records available.- January 1931 to September 1938 and June 1939 to September 1940.

Average discharge.- 8 years (1931-38, 1939-40), 92.1 second-feet.

Extremes.- 1931-40: Maximum discharge, 1,390 second-feet Aug. 20, 1939 (gage height, 9.54 feet, from floodmark in recorder shelter), from rating curve extended above 640 second-feet by logarithmic plotting: practically no flow for several hours on Oct. 26, 1932, while pond above station was filling.

Remarks.- Flow regulated occasionally by operation of sluice gates in dam 200 feet above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	56	99	109	98	119	85	64	56	54	41	38
2	66	58	90	119	93	119	90	60	56	50	41	37
3	64	57	74	103	92	118	89	62	53	48	41	37
4	61	61	77	96	93	114	86	65	53	48	42	44
5	59	74	75	85	91	109	80	65	60	61	42	127
6	96	78	68	81	87	105	103	75	71	89	41	330
7	128	78	62	81	84	99	102	93	72	52	61	487
8	124	72	60	75	83	93	99	92	66	48	89	429
9	104	68	57	72	91	95	149	83	71	54	55	316
10	87	65	58	133	115	93	186	113	96	62	42	246
11	84	65	57	172	116	97	174	148	142	55	39	219
12	72	66	54	154	109	107	163	105	142	50	39	162
13	62	64	54	132	102	145	154	89	104	48	38	110
14	66	61	54	122	109	149	146	86	84	47	41	89
15	75	59	54	109	260	141	131	76	74	64	70	84
16	66	58	55	99	323	132	116	72	68	109	60	79
17	56	58	55	102	316	122	108	70	65	79	49	76
18	55	57	55	114	309	111	99	59	90	58	43	71
19	54	57	66	107	274	104	92	64	102	50	42	68
20	54	58	107	104	240	101	80	62	123	50	41	67
21	56	58	90	138	193	98	78	62	116	46	41	64
22	64	55	77	148	164	101	75	69	97	45	40	60
23	60	55	70	128	149	97	75	72	89	45	49	59
24	56	58	69	113	124	95	71	83	77	43	43	57
25	54	59	67	167	113	85	69	84	69	45	40	67
26	55	59	76	172	111	80	66	79	62	54	38	57
27	55	60	92	146	132	78	62	67	59	46	38	54
28	56	62	95	124	127	81	62	57	58	43	38	53
29	54	60	114	122	-	98	61	54	54	42	39	54
30	53	80	123	109	-	91	64	56	53	41	40	53
31	53	-	105	101	-	85	-	56	-	41	40	-

East Branch of Wading River at Harrisville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	206	149	74	108	131	141	77	67	80	59	47
2	54	212	125	75	104	122	84	72	57	79	54	44
3	56	200	103	219	101	125	128	66	53	100	50	45
4	56	180	87	358	109	133	129	68	50	66	42	46
5	57	146	78	372	123	131	122	76	50	74	46	43
6	70	115	75	309	113	125	136	95	50	90	48	40
7	78	115	68	267	a110	115	157	129	47	70	36	37
8	75	107	68	233	a107	107	153	99	46	61	48	37
9	89	98	72	219	a102	102	137	107	46	57	50	37
10	79	90	74	240	a100	101	150	116	43	53	50	37
11	65	87	79	240	a98	127	175	91	42	49	55	36
12	74	87	79	219	a103	193	186	76	74	72	48	36
13	71	86	72	200	a125	219	186	72	136	66	32	35
14	64	81	61	176	a170	219	170	89	170	59	31	34
15	62	78	71	164	260	206	154	87	191	49	32	34
16	70	76	74	200	274	177	138	79	174	64	51	32
17	65	151	74	206	316	149	125	80	150	55	56	31
18	61	316	71	193	330	159	178	76	98	46	46	75
19	59	372	71	212	233	180	119	80	78	43	69	205
20	56	288	70	246	a200	180	104	65	78	40	45	281
21	55	226	69	281	a160	176	97	59	73	40	38	240
22	59	186	68	260	a125	174	92	61	66	40	33	191
23	60	154	69	193	a115	159	91	84	59	39	30	159
24	56	131	69	171	a115	144	84	78	64	47	29	122
25	54	114	69	a159	119	129	48	64	65	70	29	95
26	53	105	70	a128	142	116	44	59	61	72	37	73
27	59	101	71	109	155	125	56	57	55	61	36	61
28	56	90	71	105	159	180	66	61	56	59	41	58
29	54	127	69	114	146	154	69	59	68	57	48	57
30	59	151	72	111	-	226	75	52	79	74	62	58
31	138	-	75	109	-	163	-	71	-	69	55	-

a No gage-height record; discharge computed on basis of records for Batsto River at Batsto.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	60	45	100	162	102	69	184	47	50	26	144
2	79	61	50	97	169	97	37	148	46	44	29	88
3	70	59	69	142	134	95	30	120	44	39	33	65
4	64	62	73	184	144	91	29	97	44	36	34	60
5	60	64	66	184	130	86	40	80	43	34	33	60
6	61	59	60	164	124	84	87	75	42	33	32	64
7	58	56	95	162	120	81	125	113	42	33	33	76
8	56	57	98	166	130	85	120	91	42	33	63	55
9	61	68	85	159	144	93	126	74	41	32	41	48
10	66	67	98	149	143	84	132	78	40	31	34	46
11	66	62	155	164	132	76	126	119	68	30	32	45
12	61	60	198	167	118	75	98	131	101	33	32	44
13	57	59	198	150	109	75	85	96	72	35	41	46
14	55	58	191	136	124	82	79	91	67	35	40	49
15	53	57	167	143	134	140	76	128	125	44	35	54
16	53	57	136	163	125	212	75	113	170	82	33	48
17	122	55	150	163	124	240	72	96	119	66	32	46
18	173	55	150	167	118	226	69	86	98	129	56	46
19	171	51	136	176	115	198	66	76	91	86	68	46
20	150	51	233	198	115	152	64	66	95	33	56	46
21	124	53	281	253	115	148	75	61	78	27	46	46
22	115	53	281	267	153	137	125	80	76	25	48	44
23	105	51	240	253	170	120	142	85	72	24	65	41
24	88	53	198	226	163	101	131	67	62	24	98	40
25	73	54	166	212	149	96	118	58	55	24	125	39
26	68	54	144	198	130	98	115	49	49	27	130	39
27	155	51	119	176	124	93	253	47	46	35	163	38
28	119	53	98	156	109	90	309	58	49	36	330	40
29	75	51	88	142	-	82	274	58	57	34	288	42
30	67	49	86	130	-	76	233	53	54	34	226	41
31	62	-	90	130	-	73	-	49	-	30	184	-

East Branch of Wading River at Harrisville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	164	295	86	104	94	67	55	55	152	119	57
2	39	137	214	88	98	96	67	55	60	123	107	62
3	38	122	164	88	94	95	72	50	98	110	97	42
4	38	108	122	83	94	89	68	32	75	73	91	43
5	38	97	107	81	91	84	65	30	72	60	93	40
6	55	89	113	80	86	86	63	29	66	76	98	45
7	56	91	117	116	83	84	63	31	56	63	95	46
8	51	101	110	137	82	82	70	35	51	68	135	45
9	47	92	98	137	80	82	109	45	48	47	188	44
10	72	77	94	121	80	82	116	57	46	44	188	44
11	70	51	87	112	77	83	107	74	45	81	164	53
12	64	62	86	106	77	89	96	66	46	120	147	50
13	66	114	86	106	78	88	86	87	60	107	132	46
14	62	152	83	105	78	88	78	61	100	95	109	46
15	54	158	82	98	75	99	69	72	93	104	92	47
16	55	137	81	90	70	102	64	73	79	121	81	47
17	56	127	84	91	67	105	61	83	71	92	75	48
18	56	116	96	89	66	107	58	55	64	129	76	51
19	57	104	99	78	74	102	60	50	58	322	76	67
20	210	101	92	84	122	94	60	50	54	420	72	133
21	363	97	87	81	132	89	57	48	53	482	67	444
22	302	92	83	89	125	81	63	47	52	435	64	813
23	226	154	81	92	127	77	67	46	52	420	61	732
24	200	111	81	90	152	74	63	46	50	466	57	a600
25	170	87	92	114	158	69	60	47	47	482	54	a350
26	137	83	96	126	137	67	58	47	45	435	53	a220
27	122	87	92	116	122	67	57	81	58	338	52	a170
28	164	164	90	109	110	60	55	108	124	259	42	a160
29	188	302	91	98	-	55	54	92	244	198	35	a170
30	194	346	90	94	-	66	54	74	241	168	47	a180
31	188	-	88	98	-	70	-	64	-	135	49	-

a No gage-height record; discharge computed on basis of records for Batsto River at Batsto.

1939

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	80	66	254
2									-	74	63	226
3									-	68	61	198
4									-	63	60	169
5									-	60	58	150
6									-	58	39	137
7									-	66	36	116
8									-	123	46	100
9									-	140	46	76
10									-	190	39	90
11									-	164	53	93
12									-	106	45	93
13									-	86	40	93
14									-	84	39	88
15									-	106	35	80
16									-	88	43	76
17									-	68	40	74
18									-	63	39	70
19									-	66	252	43
20									-	63	1 220	51
21									-	56	1 010	46
22									-	56	622	56
23									39	58	399	60
24									39	56	261	60
25									39	54	203	66
26									43	53	194	74
27									46	53	203	76
28									42	54	190	80
29									43	54	192	76
30									63	58	217	74
31									-	70	258	-

Note.- Concrete control erected Oct. 1 to June 22; no gage-height record.

East Branch of Wading River at Harrisville--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	171	74	68	51	84	95	93	229	68	46	198
2	136	200	76	68	51	82	88	a90	230	65	46	176
3	203	163	86	68	53	99	84	a90	209	65	46	137
4	190	137	84	68	53	169	100	a85	169	106	46	93
5	180	169	80	66	53	195	102	a85	137	121	40	74
6	146	209	78	60	53	195	95	a40	116	106	26	68
7	82	218	74	65	61	174	88	a80	84	90	45	66
8	95	184	72	66	65	160	88	a80	50	80	54	66
9	97	163	70	66	65	137	140	a100	56	82	34	65
10	123	142	70	66	70	106	137	a150	84	76	31	61
11	58	121	70	66	104	93	104	a140	76	70	30	34
12	70	109	70	63	111	84	102	a110	97	70	30	34
13	65	102	68	58	102	82	153	a90	86	74	31	32
14	48	97	70	46	112	87	163	a80	78	76	32	35
15	56	93	66	88	190	180	153	80	80	84	34	42
16	61	90	63	93	140	194	134	86	76	72	34	46
17	68	88	61	86	126	180	119	124	72	70	59	46
18	66	102	61	93	72	158	111	100	75	68	154	46
19	65	104	61	82	121	145	102	90	123	65	132	46
20	63	84	63	82	187	129	164	100	123	63	106	46
21	a60	82	66	72	192	116	217	82	80	61	97	46
22	a55	84	65	66	171	111	234	86	74	58	82	46
23	a170	84	63	63	127	109	221	145	68	56	68	48
24	a100	82	61	60	111	97	197	160	63	54	61	48
25	72	80	61	60	104	93	167	137	70	54	58	59
26	70	76	61	60	91	88	155	134	80	54	90	90
27	70	76	63	58	90	84	137	132	82	53	106	54
28	78	76	63	56	84	84	121	121	78	50	151	76
29	72	76	65	56	86	82	109	114	74	50	194	66
30	72	76	66	53	-	82	93	90	72	48	213	56
31	122	-	68	51	-	95	-	189	-	48	206	-

a No gage-height record; discharge computed on basis of recorded range in stage, precipitation records, and records for Batsto River at Batsto.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	2 119	128	53	68.4	1.07	1.23
November	1 876	80	55	62.5	.976	1.09
December	2 309	123	54	74.5	1.16	1.34
Calendar year 1934	30 782	345	37	84.3	1.32	17.89
January 1935	3 637	172	72	117	1.83	2.11
February	4 198	323	83	150	2.34	2.44
March	3 262	149	78	105	1.64	1.89
April	3 015	186	61	100	1.56	1.74
May	2 342	148	54	75.5	1.18	1.36
June	2 382	142	53	79.4	1.24	1.38
July	1 667	109	41	53.8	.841	.97
August	1 403	89	38	45.3	.708	.81
September	3 694	487	37	123	1.92	2.14
Water year 1934-35	31 904	487	37	87.4	1.36	18.50
October 1935	2 014	138	50	65.0	1.02	1.18
November	4 476	372	76	149	2.33	2.60
December	2 393	149	61	77.2	1.21	1.40
Calendar year 1935	34 483	487	37	94.5	1.48	20.02
January 1936	6 162	372	74	199	3.11	3.58
February	4 422	330	98	152	2.38	2.57
March	4 747	226	101	153	2.39	2.76
April	3 594	186	44	120	1.88	2.10
May	2 405	129	52	77.6	1.21	1.40
June	2 346	191	42	78.2	1.22	1.36
July	1 901	100	39	61.3	.958	1.10
August	1 386	69	29	44.7	.698	.80
September	2 326	281	31	77.5	1.21	1.35
Water year 1935-36	38 172	372	29	104	1.62	22.20

East Branch of Wading River at Harrisville--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	2 665	173	53	86.0	1.34	1.54
November	1 700	68	49	56.7	.886	.99
December	4 244	281	45	137	2.14	2.47
Calendar year 1936	37 898	372	29	104	1.62	22.02
January 1937	5 277	267	97	170	2.66	3.07
February	3 727	170	109	133	2.08	2.17
March	3 488	240	73	112	1.75	2.02
April	3 380	309	29	113	1.77	1.98
May	2 727	184	47	88.0	1.38	1.59
June	2 035	170	40	67.8	1.06	1.18
July	1 258	129	24	40.6	.634	.73
August	2 486	330	26	80.2	1.25	1.44
September	1 586	144	38	52.9	.827	.92
Water year 1936-37	34 573	330	24	94.7	1.48	20.10
October 1937	3 477	363	38	112	1.75	2.02
November	3 723	346	51	124	1.94	2.16
December	3 281	295	81	106	1.66	1.91
Calendar year 1937	36 445	363	24	99.8	1.56	21.19
January 1938	3 083	137	78	99.5	1.55	1.79
February	2 739	158	66	97.8	1.53	1.59
March	2 606	107	55	84.1	1.31	1.51
April	2 087	116	54	69.6	1.09	1.22
May	1 790	108	29	57.7	.902	1.04
June	2 263	244	45	75.4	1.18	1.32
July	6 225	482	44	201	3.14	3.62
August	2 816	188	35	90.8	1.42	1.64
September	4 895	813	40	163	2.55	2.84
Water year 1937-38	38 985	813	29	107	1.67	22.66
October						
November						
December						
Calendar year						
January 1939						
February						
March						
April						
May						
June 23-30, 1939	354	63	39	44.2	.691	.21
July	2 438	190	53	78.6	1.23	1.42
August	6 069	1 220	35	196	3.06	3.53
September	2 945	254	43	98.2	1.53	1.71
Water year	-	-	-	-	-	-
October 1939	2 891	203	48	93.3	1.46	1.68
November	3 538	218	76	118	1.84	2.05
December	2 119	86	61	68.4	1.07	1.23
Calendar year	-	-	-	-	-	-
January 1940	2 073	93	46	66.9	1.05	1.21
February	2 896	192	51	99.9	1.56	1.68
March	3 774	195	82	122	1.91	2.20
April	3 973	234	84	132	2.06	2.30
May	3 283	189	40	106	1.66	1.91
June	2 991	230	50	99.7	1.56	1.74
July	2 157	121	48	69.6	1.09	1.26
August	2 382	213	26	76.8	1.20	1.38
September	2 000	198	32	66.7	1.04	1.16
Water year 1939-40	34 077	234	26	93.1	1.45	19.80

Absecon Creek at Absecon

Location.- Water-stage recorder and wooden weir, lat. 39°25'45", long. 74°31'16", just downstream from dam of Atlantic City Water Department, 1 mile west of Absecon, Atlantic County, and 3 miles upstream from mouth.

Drainage area.- 16.6 square miles.

Records available.- December 1923 to April 1929 and June 1933 to December 1938 (discontinued).

Average discharge.- 9 years (1924-28, 1933-38), 28.6 second-feet (adjusted for storage).

Remarks.- Figures of daily discharge include water diverted to Atlantic City waterworks and to duck farm just below station. Flow regulated by Doughty Pond just above station (capacity, 32,800,000 cubic feet).

Cooperation.- Water-stage recorder inspected by employee of and records of diversions furnished by Atlantic City Water Department.

Daily discharge, in second-feet, 1934-38

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	9.1	23	38	a22	a32	a37	30	34	31	22	23
2	24	8.6	23	36	a21	a42	a33	31	29	29	23	21
3	48	25	23	36	22	a42	a34	33	29	29	21	17.6
4	42	33	33	37	23	a37	a35	33	31	26	22	25
5	27	30	43	37	23	a42	a36	32	36	28	22	79
6	30	46	44	40	25	a42	a37	37	a36	28	18.4	307
7	34	56	44	34	23	a42	a40	48	a35	28	24	a156
8	32	54	42	29	21	a42	a42	40	a35	26	26	a55
9	29	54	40	29	22	a35	a44	34	a35	34	23	a41
10	26	27	39	28	24	a35	a46	38	a35	33	23	a41
11	26	9.4	39	29	26	a35	a48	44	a35	32	25	a41
12	30	9.5	40	29	23	a42	a49	37	a34	32	23	a41
13	21	9.0	23	27	22	a42	a50	37	a34	29	21	a40
14	19.3	21	12.4	26	26	a41	a49	37	a34	27	36	41
15	21	30	12.4	20	44	a40	a48	34	a34	25	60	41
16	22	30	11.5	19.3	48	a40	a47	32	34	28	52	38
17	22	30	12.0	20	46	a40	a45	34	33	29	36	40
18	25	30	12.6	20	a40	a36	a44	34	33	27	29	39
19	26	32	12.7	21	a44	a30	a43	29	33	26	25	38
20	36	30	12.0	20	a42	a36	a42	28	44	28	24	38
21	41	31	15.9	21	a41	a36	a41	35	36	30	24	43
22	42	30	21	20	a40	a35	a39	38	33	28	24	48
23	43	20	21	21	a40	a35	a38	29	35	23	24	43
24	48	10.4	21	20	a34	a35	a36	30	32	25	21	42
25	53	9.6	20	a21	a32	a35	35	29	32	24	20	38
26	57	9.4	21	a21	a38	a35	31	30	30	25	17.1	36
27	57	12.5	33	a21	a50	a36	30	31	32	27	19.5	37
28	55	a23	39	a21	a41	a38	34	29	38	24	18.4	36
29	33	a23	37	a21	-	a39	29	31	34	24	24	37
30	8.9	a23	37	a21	-	a39	41	35	32	21	24	36
31	9.5	-	37	a21	-	a39	-	34	-	19.8	26	-

a No recorder graph; discharge over weir computed on basis of weekly gage readings at weir and in Pond and records for stations on nearby streams.

Absecon Creek at Absecon--Continued

Daily discharge, in second-feet, 1934-38--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	57	35	a16	a35	51	55	52	40	36	28	34
2	35	52	35	15.9	a35	52	55	52	38	36	25	a22
3	33	46	37	20	a35	52	62	49	38	31	21	a20
4	33	41	37	37	a35	54	55	51	41	33	24	a19
5	31	37	38	85	a35	52	53	48	38	33	23	a18
6	35	36	36	75	a35	53	59	43	38	34	22	a18
7	43	34	36	71	a35	50	64	42	38	34	23	a18
8	36	37	38	61	a35	48	63	44	40	34	24	a17
9	37	35	38	67	a35	48	52	45	40	34	22	a17
10	33	35	37	72	a35	45	66	33	38	34	21	a17
11	33	36	36	71	a35	53	81	44	a38	23	19.4	a17
12	35	36	37	64	a35	68	76	43	a38	27	22	a16
13	35	34	38	62	a40	65	70	49	a37	32	17.1	a16
14	33	32	49	61	117	57	62	70	a37	36	18.1	a15
15	31	a30	54	68	129	55	59	41	a37	31	19.1	a15
16	31	a30	57	92	113	53	63	44	a37	28	19.1	a15
17	35	a44	56	88	109	49	55	42	a37	28	17.6	a15
18	28	a76	54	72	111	58	54	44	a37	27	17.3	a26
19	26	88	51	71	a90	62	52	44	a37	28	16.4	a47
20	28	62	49	80	a70	59	52	41	37	26	18.5	a60
21	30	58	48	90	a55	56	50	40	40	25	17.6	a54
22	30	57	46	80	a50	56	43	45	34	26	64	a45
23	33	80	a28	69	a50	47	46	42	33	28	70	a38
24	30	a92	a17	a52	52	52	50	40	36	27	48	a33
25	27	a95	a16	a42	53	51	46	44	36	32	39	a29
26	29	a94	a16	a36	56	50	46	41	34	29	40	a27
27	29	94	a16	a35	56	56	50	42	34	26	36	a25
28	31	50	a16	a35	56	82	50	49	35	28	29	a25
29	27	30	a16	a35	52	72	48	36	35	27	35	a25
30	32	34	a16	a35	-	64	46	41	36	30	50	a26
31	54	-	a16	a35	-	60	-	40	-	27	40	-

a No gage-height record; discharge over weir computed on basis of occasional readings of staff gage in Pond and records for stations on nearby streams.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a45	27	41	54	50	13.2	39	37	30	29	21	23
2	a50	29	25	50	50	12.1	41	37	27	26	19.6	21
3	a43	28	26	48	40	11.9	39	33	28	25	18.2	19.3
4	a35	28	26	48	43	11.1	35	35	28	25	16.5	18.7
5	a28	32	25	49	46	18.5	38	32	27	26	15.6	18.1
6	26	23	24	48	47	27	53	35	27	25	16.4	16.2
7	26	27	25	47	45	39	56	34	26	40	16.1	17.8
8	25	28	25	46	46	40	48	34	26	24	15.0	15.7
9	26	33	26	48	49	47	53	34	26	24	15.5	16.2
10	28	32	26	49	52	41	49	35	25	23	12.5	13.8
11	30	25	29	47	52	38	41	34	32	26	12.1	14.7
12	26	26	29	39	52	39	39	33	32	26	12.6	13.9
13	27	30	26	36	48	40	37	33	29	21	18.7	15.5
14	25	22	27	39	48	39	39	35	39	19.6	18.7	12.7
15	21	29	26	39	50	51	40	46	35	21	17.6	14.8
16	22	28	29	42	58	64	40	40	28	25	15.3	16.1
17	59	18.0	35	40	59	56	31	38	26	19.7	14.0	14.6
18	66	34	40	48	53	50	32	34	25	20	14.3	12.5
19	52	16.6	42	60	48	49	32	33	27	14.4	15.2	15.0
20	43	19.3	48	66	41	45	30	37	27	14.2	16.0	14.7
21	38	22	54	65	38	52	37	34	26	25	14.4	a14
22	34	26	54	65	39	44	45	33	37	16.4	16.0	a13
23	31	23	54	65	40	44	40	33	27	16.6	26	a12.5
24	31	46	56	59	25	41	37	35	26	18.0	30	a12
25	29	73	56	50	13.0	44	32	33	26	16.1	25	a12
26	32	71	58	55	12.7	49	34	30	26	19.3	25	a12
27	25	69	60	60	12.7	37	58	33	25	26	33	a12
28	26	67	60	55	11.9	47	58	34	29	23	43	15.4
29	28	64	60	51	-	40	49	32	31	19.1	32	17.8
30	25	61	57	48	-	34	42	34	30	19.0	25	12.7
31	20	-	54	47	-	37	-	32	-	17.7	23	-

a No gage-height record; discharge over weir computed on basis of records for Great Egg River at Folsom.

Absecon Creek at Absecon--Continued

Daily discharge, in second-feet, 1934-38--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.0	24	55	11.2	24	14.5	26	a19	19.1	21	27	24
2	11.1	24	53	10.9	22	14.4	25	a19	19.4	21	26	24
3	14.1	26	47	12.0	22	19.7	26	a18	19.3	28	26	22
4	16.3	18.6	36	9.6	26	22	26	a18	30	28	24	29
5	14.9	20	29	10.7	21	26	24	a17	44	26	19.6	23
6	29	26	29	10.1	21	34	19.2	a17	36	23	16.8	18.2
7	27	18.0	29	10.1	34	24	21	a17	28	21	26	19.5
8	19.0	21	20	11.1	16.1	24	26	a17	27	19.2	63	21
9	12.7	25	6.2	9.8	17.8	24	49	a18	23	18.0	79	18.3
10	20	23	8.5	10.3	30	25	42	a19	22	18.6	50	19.9
11	20	19.9	9.4	9.8	16.8	27	20	a20	21	17.4	40	19.4
12	18.8	19.6	8.8	10.6	21	30	23	a21	22	15.8	36	19.9
13	18.6	67	9.2	10.3	a19	27	24	a23	24	16.2	29	23
14	17.0	39	9.2	10.3	a18	28	24	a26	24	16.0	26	27
15	18.0	29	9.3	14.3	a17	30	27	a28	30	15.7	29	39
16	14.4	24	9.6	11.9	a16	30	24	a27	25	16.6	28	52
17	14.4	23	9.5	18.0	a16	32	21	25	23	17.4	51	45
18	15.9	22	9.4	23	a17	30	23	18.2	22	15.9	49	50
19	14.4	21	8.7	17.4	a27	29	26	19.5	22	17.2	36	55
20	40	45	9.7	24	a36	26	22	20	21	17.3	31	a64
21	40	62	8.9	22	a41	27	22	22	18.8	18.2	31	a80
22	28	60	8.4	28	a46	24	25	20	18.6	36	26	a100
23	26	60	8.8	26	a41	23	22	20	19.1	38	25	a90
24	24	58	9.2	24	35	29	18.0	21	21	41	26	a80
25	20	55	8.5	33	32	19.9	21	25	19.9	39	19.8	a70
26	16.0	52	7.0	33	26	24	19.8	23	18.4	35	19.0	a60
27	23	40	9.7	29	26	29	20	28	19.3	56	22	a54
28	52	36	8.9	23	50	19.8	20	30	22	44	29	a50
29	58	50	9.2	22	-	18.9	a20	25	28	33	26	a50
30	43	56	11.1	21	-	22	a19	21	23	35	22	a50
31	30	-	12.1	26	-	24	-	18.6	-	33	21	-

a No gage-height record; discharge over weir computed on basis of records for Great Egg River at Folsom.

1938

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.
1	a74	43	34	9	a50	54	44	17	a38	52	32	25	a37	33	35
2	a80	37	34	10	a50	52	48	18	a40	53	33	26	39	32	35
3	a76	37	40	11	a47	50	46	19	a43	52	39	27	36	32	37
4	a72	37	44	12	a46	53	44	20	a42	51	41	28	65	34	37
5	a66	52	46	13	a40	55	44	21	a40	52	37	29	64	34	37
6	a60	52	47	14	a37	55	39	22	a38	50	37	30	56	33	36
7	a54	53	46	15	a35	55	32	23	a36	39	35	31	48	-	36
8	a52	54	44	16	a36	56	30	24	a36	32	35				

a No gage-height record; discharge over weir computed on basis of records for Great Egg River at Folsom.

Monthly and annual discharge, in second-feet, 1934-38

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	1 016.7	57	8.9	32.8	25.5	1.54	1.78
November	765.5	56	8.6	25.5	25.2	1.52	1.70
December	844.5	44	11.5	27.2	26.9	1.62	1.87
Calendar year 1934	10 419.9	137	8.6	28.5	27.9	1.68	22.80
January 1935	804.3	40	19.3	25.9	29.6	1.78	2.05
February	903	48	21	32.3	37.0	2.23	2.32
March	1 175	42	30	37.9	38.2	2.30	2.65
April	1 203	50	29	40.1	39.8	2.40	2.68
May	1 053	48	28	34.0	34.0	2.05	2.36
June	1 017	44	29	33.9	34.0	2.05	2.29
July	845.8	34	19.8	27.3	27.0	1.63	1.88
August	797.4	60	17.1	25.7	25.7	1.55	1.79
September	1 558.6	307	17.6	52.0	52.3	3.15	3.51
Water year 1934-35	11 983.8	307	8.6	32.8	32.8	1.98	26.88

* Adjusted for change in contents in Doughty Pond.

Absecon Creek at Absecon--Continued

Monthly and annual discharge, in second-feet, 1934-38--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1935	1 016	54	26	32.8	32.8	1.98	2.28
November	1 562	95	30	52.1	46.8	2.82	3.15
December	1 099	57	16	35.5	30.5	1.84	2.12
Calendar year 1935	13 034.1	307	16	35.7	35.5	2.14	29.08
January 1936	1 792.9	92	15.9	57.8	67.1	4.04	4.66
February	1 679	129	35	57.9	57.9	3.49	3.76
March	1 730	82	45	55.8	56.3	3.39	3.91
April	1 683	81	43	56.1	56.0	3.37	3.76
May	1 381	70	33	44.5	44.8	2.70	3.11
June	1 114	41	33	37.1	37.0	2.23	2.49
July	930	36	23	30.0	29.8	1.80	2.08
August	886.2	70	16.4	28.6	29.0	1.75	2.02
September	769	60	15	25.6	25.6	1.54	1.72
Water year 1935-36	15 642.1	129	15	42.7	42.7	2.57	35.06
October 1936	1 022	66	20	33.0	32.7	1.97	2.27
November	1 056.9	73	16.6	35.2	30.0	1.81	2.02
December	1 223	60	24	39.5	36.7	2.21	2.55
Calendar year 1936	15 267.0	129	15	41.7	41.9	2.52	34.35
January 1937	1 563	66	36	50.4	47.3	2.85	3.29
February	1 169.3	59	11.9	41.8	48.6	2.93	3.05
March	1 200.8	64	11.1	38.7	44.0	2.65	3.06
April	1 244	58	30	41.5	41.3	2.49	2.78
May	1 072	46	30	34.6	34.6	2.08	2.40
June	853	39	25	28.4	28.4	1.71	1.91
July	690.1	40	14.2	22.3	22.1	1.33	1.53
August	613.3	43	12.1	19.8	19.6	1.18	1.36
September	457.7	23	12	15.3	15.4	.928	1.04
Water year 1936-37	12 165.1	73	11.1	33.3	33.3	2.01	27.26
October 1937	730.6	58	11.1	23.6	23.7	1.43	1.65
November	1 064.1	67	18.0	35.5	25.6	1.54	1.72
December	507.3	55	6.2	16.4	18.6	1.12	1.29
Calendar year 1937	11 165.2	67	6.2	30.6	30.6	1.84	25.08
January 1938	542.4	33	9.6	17.5	22.4	1.35	1.56
February	734.7	50	16.0	26.2	28.8	1.73	1.80
March	777.2	34	14.4	25.1	24.9	1.50	1.73
April	725.0	49	18.0	24.2	24.1	1.45	1.62
May	660.3	30	17.0	21.3	21.4	1.29	1.49
June	709.9	44	18.4	23.7	23.7	1.43	1.60
July	797.5	56	15.7	25.7	25.7	1.55	1.79
August	979.2	79	16.8	31.6	31.7	1.91	2.20
September	1 297.2	100	18.2	43.2	43.4	2.61	2.91
Water year 1937-38	9 525.4	100	6.2	26.1	26.1	1.57	21.36
October 1938	1 533	80	35	49.5	49.6	2.99	3.45
November	1 374	56	32	45.8	33.2	2.00	2.23
December	1 204	48	30	38.8	39.4	2.37	2.73
Calendar year 1938	11 334.4	100	9.6	31.1	30.7	1.85	25.11

* Adjusted for change in contents in Doughty Pond.

Great Egg River at Folsom

Location.- Water-stage recorder and, since Nov. 27, 1934, concrete control, lat. 39°35'42", long. 74°51'05", at highway bridge 1 mile south of Folsom, Atlantic County, and 2 miles upstream from Pennypot Stream.

Drainage area.- 56.3 square miles (revised).

Records available.- September 1925 to September 1940.

Average discharge.- 15 years, 84.7 second-feet.

Extremes.- 1925-40: Maximum discharge, 1,440 second-feet Sept. 3, 1940 (gage height, 9.09 feet); minimum, 19 second-feet Aug. 5, 1931.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	64	78	114	91	137	103	78	58	47	36	44
2	98	68	96	120	85	133	98	78	57	44	44	43
3	107	68	104	123	86	128	92	77	54	43	44	42
4	110	73	96	121	88	125	90	77	54	43	43	47
5	101	89	96	114	85	123	85	79	63	42	42	82
6	113	98	97	103	85	121	86	78	72	41	38	219
7	145	120	95	92	84	117	92	85	79	38	38	505
8	168	137	89	88	82	110	103	97	84	a37	43	572
9	172	137	82	86	84	108	137	106	85	a45	42	532
10	164	134	75	91	91	103	206	121	92	a65	38	380
11	149	123	72	102	100	102	239	129	109	a65	37	267
12	123	110	68	106	108	106	248	121	118	a55	36	197
13	101	101	65	102	109	129	239	108	110	51	35	156
14	86	92	63	94	112	168	206	96	92	47	38	129
15	79	86	63	86	157	182	179	86	74	44	63	112
16	75	80	63	82	222	177	155	81	64	43	62	98
17	73	77	63	78	258	165	136	75	60	43	68	89
18	71	73	63	82	277	147	123	75	60	41	74	82
19	69	71	69	85	267	128	115	70	67	39	75	76
20	66	70	83	86	239	114	108	65	81	39	58	74
21	65	69	103	98	213	106	102	71	85	41	51	70
22	66	67	120	128	189	104	96	74	82	43	51	70
23	67	65	118	145	166	103	91	75	71	37	62	69
24	65	78	109	147	147	102	88	72	64	37	63	66
25	62	76	97	160	133	97	85	70	60	39	62	63
26	64	74	90	158	126	94	84	67	56	43	54	62
27	64	64	90	150	134	91	82	67	53	42	48	60
28	62	67	92	129	139	88	79	63	53	39	47	58
29	63	61	96	115	-	91	78	60	50	38	46	58
30	63	64	103	109	-	97	78	60	48	36	43	57
31	61	-	109	100	-	104	-	60	-	36	44	-

a No gage-height record; discharge computed on basis of records for Toms River at Toms River and North Branch of Rancocas Creek at Pemberton.

Great Egg River at Folsom--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	152	151	72	a93	175	171	95	51	56	42	43
2	53	227	158	82	a93	164	156	89	50	64	42	39
3	53	223	152	117	93	152	147	87	48	64	38	38
4	51	199	142	250	95	145	140	87	46	60	36	37
5	50	175	124	334	101	143	138	92	47	63	35	36
6	51	152	110	368	105	145	142	97	46	63	35	35
7	60	131	98	334	103	142	152	98	44	57	36	33
8	64	115	93	278	108	134	167	95	44	53	37	31
9	64	103	92	239	108	129	175	87	43	48	36	31
10	62	98	93	235	108	124	185	82	44	46	35	30
11	58	93	98	231	108	133	195	78	46	42	33	30
12	66	92	105	225	108	201	199	75	60	42	32	29
13	72	92	108	215	108	256	195	72	81	41	31	29
14	74	92	108	199	115	278	185	72	92	41	31	28
15	69	89	103	183	152	267	171	70	101	39	31	28
16	64	86	100	187	a200	239	156	69	103	37	31	28
17	60	98	98	193	a250	207	143	68	92	36	32	28
18	57	136	95	193	a250	201	133	66	75	35	32	44
19	56	187	93	211	a240	207	125	66	70	35	31	89
20	54	199	90	278	a220	209	118	64	75	35	30	105
21	53	195	86	278	a170	219	115	64	81	37	28	142
22	53	177	82	256	a145	229	110	63	75	37	29	187
23	53	156	78	239	a135	223	106	62	64	36	32	181
24	53	134	76	a203	131	207	105	60	60	39	32	149
25	53	117	75	a174	127	191	101	58	58	50	30	118
26	54	106	74	a154	129	173	100	57	58	46	31	92
27	53	100	74	a136	145	162	98	56	54	43	32	72
28	51	97	72	a119	166	181	97	56	53	41	31	62
29	51	110	72	a109	179	201	97	54	56	42	38	50
30	64	129	72	a100	-	197	95	53	53	43	50	44
31	95	-	70	a93	-	189	-	51	-	42	47	-

a No gage-height record; discharge computed on basis of records for North Branch of Rancocas Creek at Pemberton.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	63	50	43	82	134	101	85	180	60	68	29	46
2	74	49	44	86	147	a97	82	156	57	74	28	40
3	80	49	56	99	150	93	82	132	54	69	27	38
4	80	47	62	119	145	92	80	116	54	57	26	35
5	69	47	66	139	134	90	78	102	53	50	26	39
6	60	47	68	147	121	88	88	99	51	49	25	50
7	56	47	72	147	114	88	110	93	50	47	25	47
8	53	47	82	141	110	86	134	86	49	46	27	43
9	54	53	92	134	110	92	156	85	47	43	26	39
10	56	54	101	130	116	95	152	86	46	40	26	36
11	57	56	106	129	117	99	136	88	51	38	25	34
12	56	54	108	129	114	99	121	88	66	38	27	33
13	51	53	112	129	108	93	108	85	a70	38	32	33
14	49	51	116	125	104	92	99	85	a67	38	32	34
15	47	50	112	119	110	93	92	127	a62	38	28	34
16	46	50	106	121	116	116	88	161	a58	38	27	33
17	62	49	101	125	121	147	85	169	a57	35	25	32
18	74	47	101	134	121	167	83	165	a57	34	25	32
19	80	46	102	139	117	169	80	148	57	35	26	30
20	86	46	121	154	112	157	78	127	a57	34	25	30
21	85	46	148	184	108	145	83	106	57	32	24	28
22	78	44	167	204	116	130	95	93	57	33	25	28
23	68	44	170	206	125	121	108	86	57	32	36	30
24	60	44	159	198	134	112	123	83	53	30	44	28
25	57	44	143	184	134	104	130	78	49	30	53	28
26	54	46	125	174	125	101	125	72	46	29	63	28
27	54	46	108	165	116	99	139	69	43	30	75	27
28	53	44	97	152	108	97	172	70	47	33	78	28
29	53	44	88	143	-	93	196	72	62	32	72	30
30	51	43	85	134	-	90	202	69	64	30	60	30
31	50	-	82	129	-	86	-	64	-	30	51	-

a No gage-height record; discharge computed on basis of records for North Branch of Rancocas Creek at Pemberton.

Great Egg River at Folsom--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	139	172	66	85	110	68	56	69	427	130	60
2	29	132	174	69	90	92	68	56	58	307	121	69
3	28	119	161	70	90	88	70	54	53	214	114	69
4	28	102	139	70	86	85	70	51	50	161	104	74
5	28	86	121	69	83	82	68	50	50	125	125	77
6	53	77	106	66	80	83	64	50	49	95	141	70
7	63	70	99	72	77	85	64	49	47	78	136	64
8	56	66	101	83	75	86	66	46	46	68	152	60
9	47	63	101	93	74	83	80	46	46	62	176	57
10	43	62	95	99	72	77	93	46	44	57	318	56
11	43	58	88	95	69	75	104	46	42	58	330	54
12	43	57	80	85	68	78	108	46	43	85	245	53
13	42	70	74	80	68	80	101	47	62	95	182	53
14	40	92	69	77	68	83	88	47	77	88	141	53
15	40	112	66	75	66	90	80	58	82	85	116	53
16	39	132	64	74	64	93	74	64	82	80	97	53
17	38	139	66	70	62	102	69	64	77	69	85	53
18	38	134	69	69	60	106	66	58	66	68	82	56
19	36	121	74	66	62	106	66	54	57	74	83	68
20	53	106	75	63	77	101	68	51	51	88	86	129
21	63	93	74	62	95	95	70	50	47	156	85	406
22	64	85	70	64	112	90	70	50	44	208	80	651
23	66	78	69	66	129	85	69	53	46	274	72	707
24	66	74	68	68	143	78	64	51	50	402	68	624
25	68	70	69	78	147	74	62	50	44	530	66	465
26	68	68	72	93	143	74	60	47	42	504	63	318
27	68	68	72	106	134	72	58	63	70	427	60	233
28	77	83	70	108	125	69	57	78	215	330	60	192
29	93	119	70	101	-	68	57	88	427	235	57	169
30	114	154	69	88	-	66	54	95	478	188	56	180
31	134	-	68	83	-	66	-	88	-	161	54	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
-1	276	152	119	125	241	212	274	196	80	83	47	134
2	318	147	125	117	272	239	270	174	74	86	43	130
3	296	136	125	112	296	235	256	157	72	80	40	116
4	239	125	130	110	342	220	228	145	72	68	40	97
5	196	119	145	108	354	210	204	136	74	60	40	86
6	167	112	182	110	342	208	192	129	74	57	39	82
7	148	108	220	112	318	210	200	123	69	56	38	75
8	139	104	228	119	274	200	222	117	66	53	44	72
9	141	102	218	121	233	188	239	112	63	56	53	69
10	141	102	204	121	210	174	245	108	60	70	50	66
11	138	101	184	117	237	163	228	106	63	74	44	64
12	130	99	169	114	285	161	204	102	66	72	42	62
13	117	97	154	108	285	178	188	97	64	63	39	60
14	108	95	141	106	274	212	174	95	74	58	38	62
15	101	92	132	102	250	222	161	93	88	58	36	60
16	101	90	125	99	230	245	152	92	99	54	36	57
17	108	88	117	95	212	256	152	92	99	50	36	56
18	117	86	112	92	196	235	163	90	86	49	36	54
19	121	88	110	88	184	214	186	88	82	47	84	53
20	117	97	108	88	174	196	202	86	88	46	215	51
21	112	102	104	88	165	178	200	85	97	46	440	50
22	106	110	102	88	154	163	194	83	102	44	517	50
23	104	119	101	90	143	152	184	86	106	47	414	50
24	108	129	99	92	138	145	170	101	97	47	265	49
25	114	134	97	95	132	139	157	121	80	44	218	47
26	119	130	95	97	132	136	154	167	68	43	172	46
27	125	127	102	92	143	132	176	184	63	43	143	46
28	130	123	114	92	165	139	206	157	62	62	129	47
29	141	121	129	90	-	163	222	130	62	57	112	47
30	150	119	134	112	-	200	214	106	69	56	116	47
31	154	-	130	176	-	259	-	88	-	51	130	-

Great Egg River at Folsom--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	53	83	62	54	49	80	95	101	285	66	36	224
2	68	101	62	54	49	78	97	95	296	63	39	437
3	78	119	63	53	49	83	93	93	276	60	34	1 300
4	85	125	64	51	50	112	93	95	245	63	30	910
5	88	125	64	50	49	161	99	99	210	64	32	573
6	82	127	63	50	50	202	102	106	178	62	32	369
7	72	139	62	50	57	208	101	104	152	57	44	244
8	64	147	62	50	60	192	93	99	130	54	56	186
9	58	141	60	50	62	167	104	93	112	53	50	156
10	57	132	57	50	62	141	132	92	112	51	44	139
11	53	119	57	50	72	123	156	90	123	50	42	129
12	50	104	57	50	80	106	167	86	121	50	39	126
13	50	92	56	51	86	95	174	82	114	53	38	123
14	50	83	58	57	90	90	182	78	102	54	42	116
15	49	78	62	77	90	114	182	75	95	51	43	109
16	47	74	62	88	93	156	178	88	92	49	40	102
17	47	72	60	97	97	188	167	186	83	47	56	96
18	46	70	60	a90	92	194	152	263	77	54	72	91
19	47	69	58	a76	95	180	136	263	75	72	70	86
20	47	68	58	a63	116	159	141	245	72	86	72	82
21	47	66	64	a60	145	141	180	222	69	78	72	78
22	51	66	64	a58	159	125	233	285	66	51	63	77
23	54	66	64	a56	154	116	252	307	64	47	53	77
24	53	68	62	a55	139	110	233	378	64	47	49	72
25	50	68	58	a54	123	102	198	378	70	47	46	72
26	50	66	57	a54	106	97	169	330	80	46	58	85
27	49	64	57	a54	92	92	147	261	86	43	77	96
28	47	64	56	a52	85	88	130	212	78	40	97	102
29	50	63	54	a51	80	85	119	184	72	38	121	102
30	51	63	54	a50	-	85	110	169	70	39	161	94
31	64	-	54	a50	-	90	-	216	-	40	194	-

a No gage-height record; discharge computed on basis of three staff-gage readings, recorded range in stage, and records for stations on nearby streams.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	2 864	172	61	92.4	1.64	1.89
November	2 556	137	61	85.2	1.51	1.68
December	2 707	120	63	87.3	1.55	1.79
Calendar year 1934	33 553	203	41	91.9	1.63	22.25
January 1935	3 394	160	78	109	1.94	2.24
February	3 957	277	82	141	2.50	2.60
March	3 700	182	88	119	2.11	2.43
April	3 703	248	78	123	2.18	2.43
May	2 521	129	60	81.3	1.44	1.66
June	2 155	118	48	71.8	1.28	1.43
July	1 343	65	36	43.3	.769	.89
August	1 525	75	35	49.2	.874	1.01
September	4 379	572	42	146	2.59	2.89
Water year 1934-35	34 804	572	35	95.4	1.69	22.94
October 1935	1 825	95	50	58.9	1.05	1.21
November	4 060	227	86	135	2.40	2.68
December	3 042	158	70	98.1	1.74	2.01
Calendar year 1935	35 604	572	35	97.5	1.73	23.48
January 1936	6 285	368	72	203	3.60	4.15
February	4 085	250	93	141	2.50	2.70
March	5 823	278	124	188	3.34	3.85
April	4 217	199	95	141	2.50	2.79
May	2 243	98	51	72.4	1.29	1.49
June	1 870	103	43	62.3	1.11	1.24
July	1 413	64	35	45.6	.810	.93
August	1 066	50	28	34.4	.611	.70
September	1 888	187	28	62.9	1.12	1.25
Water year 1935-36	37 817	368	28	103	1.83	25.00

Great Egg River at Folsom--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	1 916	86	46	61.8	1.10	1.27
November	1 437	56	43	47.9	.851	.95
December	3 143	170	43	101	1.79	2.06
Calendar year 1936	35 386	368	28	96.7	1.72	23.38
January 1937	4 401	206	82	142	2.52	2.90
February	3 387	150	104	121	2.15	2.24
March	3 332	169	86	107	1.90	2.19
April	3 390	202	78	113	2.01	2.24
May	3 240	180	64	105	1.87	2.17
June	1 658	70	43	55.3	.982	1.10
July	1 250	74	29	40.3	.716	.83
August	1 118	78	24	36.1	.641	.74
September	1 023	50	27	34.1	.606	.68
Water year 1936-37	29 295	206	24	80.3	1.43	19.37
October 1937	1 698	134	28	54.8	.973	1.12
November	2 829	154	57	94.3	1.67	1.86
December	2 765	174	64	89.2	1.58	1.82
Calendar year 1937	30 091	206	24	82.4	1.46	19.89
January 1938	2 428	108	62	78.3	1.39	1.60
February	2 504	147	60	89.4	1.59	1.66
March	2 622	110	66	84.6	1.50	1.73
April	2 156	108	54	71.9	1.28	1.43
May	1 752	95	46	56.5	1.00	1.15
June	2 614	478	42	87.1	1.55	1.73
July	5 799	530	57	187	3.32	3.83
August	3 685	330	54	119	2.11	2.43
September	5 226	707	53	174	3.09	3.45
Water year 1937-38	36 078	707	28	98.8	1.75	23.81
October 1938	4 582	318	101	148	2.63	3.03
November	3 354	152	86	112	1.99	2.22
December	4 255	228	95	137	2.43	2.80
Calendar year 1938	40 977	707	42	112	1.99	27.06
January 1939	3 276	176	88	106	1.88	2.17
February	6 381	354	132	228	4.05	4.22
March	5 984	259	132	193	3.43	3.95
April	6 017	274	152	201	3.57	3.98
May	3 646	196	83	118	2.10	2.42
June	2 319	106	60	77.3	1.37	1.53
July	1 780	86	43	57.4	1.02	1.18
August	3 696	517	36	120	2.13	2.46
September	1 985	134	46	66.2	1.18	1.32
Water year 1938-39	47 275	517	36	130	2.31	31.28
October 1939	1 757	88	46	56.7	1.01	1.16
November	2 722	147	63	90.7	1.61	1.80
December	1 851	64	54	59.7	1.06	1.22
Calendar year 1939	41 414	517	36	113	2.01	27.41
January 1940	1 805	97	50	58.2	1.03	1.19
February	2 531	159	49	87.3	1.55	1.67
March	3 960	208	78	128	2.27	2.62
April	4 415	252	93	147	2.61	2.91
May	5 375	378	75	173	3.07	3.54
June	3 669	296	64	122	2.17	2.42
July	1 675	86	38	54.0	.959	1.11
August	1 902	194	30	61.4	1.09	1.26
September	6 453	1 300	72	215	3.82	4.26
Water year 1939-40	38 115	1 300	30	104	1.85	25.16

Maurice River at Norma

Location.- Water-stage recorder and, since Dec. 27, 1937, concrete control, lat. 39°29'42", long. 75°04'34", at Almond Road Bridge in Norma, Salem County, three-quarters of a mile downstream from Blackwater Branch. Datum of gage is 46.94 feet (revised) above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 113 square miles.

Records available.- June 1932 to September 1940.

Average discharge.- 8 years, 194 second-feet.

Extremes.- 1932-40: Maximum discharge, 7,360 second-feet Sept. 2, 1940 (gage height, 8.72 feet), from rating curve extended above 3,000 second-feet by logarithmic plotting; minimum daily, 27 second-feet Sept. 25, 1932.

Peak gage height and discharge during period of this report.-
1935: Feb. 15 (7 to 8 a.m.) 5.86 ft., 490 sec.-ft.; Sept. 8 (7 to 11 a.m.) 5.30 ft., 1,090 sec.-ft.
1936: Jan. 6 (2 to 3 a.m.) 4.60 ft., 754 sec.-ft.; Jan. 22 (5 to 6 a.m.) 4.22 ft., 605 sec.-ft.; Jan. 25 (2 to 6 a.m.) 4.00 ft., 538 sec.-ft.; Feb. 16 (8 a.m.) 4.63 ft., 774 sec.-ft.; Mar. 15 (4 to 7 a.m.) 3.89 ft., 506 sec.-ft.; Mar. 31 (1 to 4 a.m.) 3.66 ft., 432 sec.-ft.
1937: Jan. 25 (11 a.m. to 1 p.m.) 3.58 ft., 418 sec.-ft.
1938: June 29 (noon to 2 p.m.) 3.77 ft., 552 sec.-ft.; July 25 (2 to 4 a.m.) 4.47 ft., 878 sec.-ft.; Aug. 10 (9 to 12 p.m.) 3.75 ft., 543 sec.-ft.; Sept. 23 (8 to 10 a.m.) 4.81 ft., 1,060 sec.-ft.; Sept. 30 (8 a.m. to 1 p.m.) 3.49 ft., 420 sec.-ft.; Oct. 4 (6 to 9 a.m.) 3.54 ft., 445 sec.-ft.
1939: Feb. 4 (2 to 7 a.m.) 3.80 ft., 587 sec.-ft.; Feb. 13 (4 to 7 a.m.) 3.72 ft., 542 sec.-ft.; Mar. 2 (5 to 7 a.m.) 3.68 ft., 520 sec.-ft.; Mar. 16 (1 to 3 a.m.) 3.66 ft., 509 sec.-ft.; Apr. 1 (3 to 6 a.m.) 3.72 ft., 542 sec.-ft.; Apr. 29 (1 to 3 a.m.) 3.54 ft., 446 sec.-ft.; Aug. 21 (9 to 10 p.m.) 3.94 ft., 669 sec.-ft.
1940: Apr. 23 (8 a.m. to 1 p.m.) 3.51 ft., 430 sec.-ft.; May 17 (6 to 11 p.m.) 3.51 ft., 430 sec.-ft.; Sept. 2 (1 p.m.) 8.72 ft., 7,360 sec.-ft.; Sept. 20 (2 to 3 a.m.) 3.52 ft., 435 sec.-ft.

Remarks.- Diurnal fluctuation caused by power plants above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	146	124	206	204	216	283	222	179	120	110	75	52
2	146	141	195	211	a190	269	236	213	124	119	77	51
3	191	130	183	222	a185	269	222	203	136	102	85	66
4	158	136	193	191	a180	262	222	144	133	71	73	86
5	177	141	172	186	a178	262	158	123	130	91	124	179
6	184	166	182	215	a176	255	178	186	147	86	81	692
7	212	228	193	210	a174	255	236	242	167	69	105	966
8	276	220	162	208	a173	255	242	213	170	91	103	1 020
9	235	198	149	154	a170	248	283	212	210	112	83	794
10	228	170	160	242	a206	236	378	242	236	133	73	571
11	212	191	160	242	a220	236	365	262	262	105	58	446
12	191	170	147	236	216	248	341	269	216	86	88	330
13	170	121	143	188	222	283	378	248	177	89	87	297
14	152	158	124	182	222	290	365	242	183	92	82	236
15	146	146	106	176	283	290	318	203	177	95	86	177
16	130	102	105	172	341	297	262	194	132	98	75	196
17	115	164	122	171	404	290	262	176	153	97	64	191
18	117	136	130	179	475	283	283	222	129	90	57	188
19	164	127	158	164	432	290	269	179	123	66	85	178
20	130	117	248	174	432	262	255	144	131	76	93	162
21	100	94	193	229	378	236	222	159	177	65	70	162
22	117	104	188	255	318	236	184	148	190	100	66	128
23	146	113	173	262	318	269	222	142	129	133	82	126
24	112	170	212	276	297	242	213	a143	135	102	71	121
25	117	164	139	283	283	248	200	a151	126	90	61	116
26	124	104	212	242	290	248	191	a154	108	90	81	109
27	86	141	199	248	290	208	185	156	104	77	88	112
28	96	167	153	255	290	210	177	150	104	76	84	120
29	146	155	168	229	-	255	160	130	135	78	82	114
30	111	158	229	215	-	242	168	124	94	79	80	117
31	107	-	206	210	-	236	-	148	-	77	63	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.

Maurice River at Norma--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	122	276	262	135	248	290	378	199	118	114	70	69
2	119	269	283	152	242	297	330	198	121	126	76	82
3	103	255	290	288	236	330	353	189	113	113	91	76
4	96	248	269	475	248	318	330	190	95	78	80	79
5	99	215	248	500	255	276	276	186	91	99	62	60
6	99	207	229	640	248	290	297	190	82	106	66	52
7	129	194	206	571	248	269	330	184	85	105	61	51
8	127	182	183	446	248	262	341	188	109	112	53	63
9	121	166	176	404	248	262	353	158	105	94	54	59
10	117	148	185	432	248	229	365	156	92	112	69	51
11	102	158	216	432	248	308	391	185	82	96	64	64
12	131	170	236	418	236	353	391	142	135	93	53	52
13	132	170	215	446	236	446	391	119	248	144	58	41
14	143	155	229	378	333	460	378	122	222	117	57	60
15	167	149	229	365	516	475	365	167	148	105	52	68
16	130	154	229	318	715	404	318	167	162	134	49	52
17	108	229	216	378	506	391	297	133	135	103	49	47
18	107	283	195	365	554	378	330	147	153	87	48	100
19	106	283	190	391	538	378	276	143	168	80	62	262
20	110	262	190	522	475	378	276	128	119	100	59	283
21	108	318	133	522	432	418	290	154	111	85	57	391
22	122	297	128	571	391	432	200	154	158	81	50	293
23	112	269	204	404	341	418	248	108	127	105	53	210
24	110	242	146	b340	255	391	248	96	108	92	67	228
25	114	222	144	b300	189	378	229	124	117	69	77	186
26	94	179	148	b280	308	297	229	130	100	78	72	108
27	90	183	144	b260	297	341	203	133	128	89	64	83
28	98	184	141	262	308	391	199	90	107	86	53	106
29	103	248	146	255	318	391	202	95	113	114	63	124
30	160	269	142	262	-	404	200	92	105	114	69	110
31	262	-	148	262	-	432	-	100	-	70	69	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	75	77	156	266	260	210	217	157	145	52	122
2	104	78	78	156	280	240	192	230	146	144	66	109
3	106	79	98	204	273	174	174	224	146	139	75	116
4	121	75	88	266	260	151	162	230	146	110	93	84
5	137	89	87	204	260	151	162	210	135	104	76	101
6	93	77	95	234	260	204	204	174	122	113	71	137
7	102	69	162	266	247	204	250	180	137	102	62	142
8	88	72	127	260	240	210	230	174	143	101	60	137
9	97	85	156	234	210	186	236	186	136	110	74	127
10	89	81	151	222	228	236	257	180	120	95	80	111
11	83	88	156	234	247	243	236	162	135	88	70	109
12	103	105	210	192	234	243	210	168	139	111	72	134
13	89	107	198	240	210	224	204	168	130	107	67	106
14	90	88	186	222	204	210	180	174	180	106	63	83
15	85	80	118	210	266	230	145	285	204	78	62	92
16	84	91	146	228	240	285	186	308	236	69	70	85
17	105	88	151	228	240	285	198	308	174	82	85	83
18	104	85	174	260	260	285	180	300	162	77	85	68
19	120	76	162	254	247	275	174	292	146	97	75	62
20	126	69	222	266	228	345	146	278	144	83	64	68
21	89	71	260	300	222	285	146	236	152	85	56	84
22	122	67	273	318	234	243	180	224	168	82	66	73
23	104	85	260	341	240	243	224	192	180	85	88	82
24	89	93	240	330	234	217	243	217	152	67	142	73
25	90	84	216	378	234	192	217	162	117	62	127	65
26	104	69	192	293	240	198	192	186	115	82	148	70
27	119	69	162	286	240	186	243	168	121	84	183	75
28	118	70	117	286	240	186	243	157	138	65	183	84
29	105	72	138	280	-	186	308	157	143	58	148	88
30	84	85	140	266	-	192	285	174	128	54	183	85
31	84	-	162	260	-	230	-	180	-	54	126	-

Maurice River at Norma--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	246	267	126	171	178	139	104	155	539	289	131
2	67	260	267	131	168	206	142	104	133	440	264	136
3	68	233	274	143	168	206	149	109	117	252	252	122
4	77	a190	253	152	165	168	142	101	99	210	244	165
5	91	a180	233	154	149	171	155	99	89	188	199	165
6	116	171	a220	152	152	174	145	89	104	174	188	155
7	142	171	a210	152	174	196	149	87	85	152	256	158
8	195	165	a200	157	149	185	136	85	81	94	316	136
9	183	154	a190	181	131	158	161	87	99	79	465	131
10	165	148	183	184	152	155	161	92	97	69	507	125
11	154	121	175	188	142	158	182	97	77	89	489	119
12	127	94	167	188	155	168	182	97	89	104	415	119
13	112	177	162	184	136	174	188	94	111	92	334	117
14	94	288	152	172	111	188	188	83	117	87	269	117
15	93	281	150	158	131	188	139	99	106	111	206	114
16	93	253	140	125	122	192	171	114	111	142	210	114
17	92	253	136	122	133	196	155	114	101	119	199	117
18	86	260	138	128	133	196	142	101	81	94	158	119
19	92	240	150	122	122	196	131	131	69	139	165	171
20	136	220	167	142	161	192	131	97	81	128	152	440
21	151	220	162	142	210	199	125	94	83	281	155	700
22	154	204	145	133	210	178	145	101	75	425	192	884
23	159	189	145	139	221	174	122	104	71	516	136	1 020
24	171	154	170	152	240	178	114	101	60	733	128	822
25	189	154	172	165	244	168	99	139	58	822	142	607
26	177	177	167	171	244	149	104	97	62	796	136	498
27	135	137	156	168	244	119	106	168	136	659	131	289
28	165	189	149	168	240	125	117	158	343	489	125	357
29	226	281	146	165	-	133	111	142	521	415	161	367
30	274	281	134	165	-	136	104	171	503	352	125	410
31	246	-	134	165	-	139	-	152	-	298	119	-

a Discharge interpolated when coffer dams were in course of erection.
Note.- Concrete control was erected and channel improvements were in progress Oct. 22 to Dec. 27.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	376	260	233	217	420	425	526	386	155	133	85	229
2	307	244	217	214	420	504	488	362	145	139	79	206
3	329	214	214	210	504	472	456	338	142	128	79	192
4	430	236	233	206	570	446	446	311	139	106	83	188
5	357	229	252	199	542	405	425	294	161	128	79	178
6	285	202	281	202	542	410	367	289	125	119	83	161
7	281	206	325	206	537	420	381	273	125	106	92	139
8	260	225	338	210	477	405	400	264	161	92	119	149
9	252	214	338	225	367	371	451	264	117	94	106	139
10	252	210	343	260	400	357	456	252	119	109	119	125
11	252	199	348	252	456	343	435	233	114	104	122	119
12	248	192	298	229	472	352	420	214	128	92	109	99
13	248	171	264	217	531	376	396	214	133	89	117	79
14	233	182	264	214	504	400	352	214	168	89	87	149
15	192	196	260	210	456	425	329	214	217	89	79	136
16	206	188	252	206	456	488	325	210	196	89	81	114
17	210	185	240	199	425	477	307	206	188	97	83	85
18	206	182	233	196	400	456	381	210	185	104	81	111
19	192	188	210	182	376	435	386	210	174	104	198	101
20	188	206	210	182	320	405	391	214	161	99	477	89
21	185	206	188	182	329	381	396	192	149	73	628	67
22	188	206	185	165	329	362	396	158	171	60	581	117
23	206	214	199	171	303	352	381	182	165	62	435	109
24	214	225	202	182	294	338	357	182	142	77	244	92
25	229	214	185	192	294	320	338	214	128	104	307	83
26	225	214	188	178	294	285	334	182	125	97	294	104
27	221	221	240	171	311	277	376	168	136	83	252	97
28	229	240	244	171	371	311	415	206	136	89	233	97
29	264	248	240	182	-	352	425	174	117	77	229	97
30	269	244	236	252	-	400	405	161	145	67	244	85
31	269	-	229	410	-	446	-	158	-	71	236	-

Maurice River at Norma--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	87	196	92	92	79	136	185	225	311	122	79	421
2	136	161	99	89	77	136	214	233	311	119	79	c5 260
3	206	168	99	92	79	158	199	221	320	119	67	c3 240
4	171	174	117	92	81	221	210	199	294	125	64	c1 620
5	158	185	131	85	99	269	202	199	285	133	79	922
6	158	221	119	87	89	269	192	199	264	122	73	645
7	139	225	111	85	104	273	188	196	233	117	60	482
8	106	202	101	99	106	273	192	192	188	111	71	381
9	111	171	87	94	125	303	240	171	182	87	81	352
10	109	155	87	87	106	248	244	178	192	92	71	334
11	99	192	94	89	128	210	264	161	210	99	67	320
12	97	165	106	85	139	202	294	165	202	106	60	307
13	81	149	106	81	155	192	329	171	185	87	62	285
14	71	142	99	92	155	185	320	171	178	92	85	264
15	89	119	97	131	158	214	325	171	165	94	89	248
16	106	114	99	131	152	240	311	221	158	89	92	236
17	104	104	101	136	149	269	307	400	149	104	188	178
18	97	97	111	142	145	303	289	400	139	99	264	73
19	101	92	106	125	178	303	273	376	136	94	244	167
20	83	99	101	136	206	294	311	338	142	92	236	281
21	71	111	99	109	210	240	348	325	133	89	185	77
22	87	125	97	104	206	233	362	307	119	85	188	109
23	104	117	97	111	188	221	420	256	122	92	125	139
24	114	136	94	117	210	202	391	294	125	85	111	192
25	122	117	94	108	192	196	334	307	139	79	101	178
26	79	111	97	99	174	188	325	320	131	85	139	214
27	79	111	99	89	161	182	298	307	128	79	145	188
28	85	111	101	87	158	182	277	289	128	83	225	240
29	101	111	97	87	152	158	256	269	125	77	252	206
30	119	101	101	92	-	139	182	225	125	69	264	171
31	128	-	92	83	-	161	-	256	-	73	289	-

c Includes flow through break in roadway and around left end of control.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	4 742	276	86	153	1.35	1.56
November	4 456	228	94	149	1.32	1.47
December	5 310	248	105	171	1.51	1.74
Calendar year 1934	61 515	366	71	169	1.50	20.24
January 1935	6 631	283	154	214	1.89	2.18
February	7 559	475	170	270	2.39	2.49
March	7 993	297	208	258	2.28	2.63
April	7 397	378	158	247	2.19	2.44
May	5 701	269	123	184	1.63	1.88
June	4 558	262	94	152	1.35	1.51
July	2 845	133	65	91.8	.812	.94
August	2 482	124	57	80.1	.709	.82
September	8 103	1 020	51	270	2.39	2.67
Water year 1934-35	67 777	1 020	51	186	1.65	22.33
October 1935	3 741	262	90	121	1.07	1.23
November	6 584	318	148	219	1.94	2.16
December	6 100	290	128	197	1.74	2.01
Calendar year 1935	69 694	1 020	51	191	1.69	22.96
January 1936	11 774	640	135	380	3.36	3.87
February	9 665	715	189	333	2.95	3.18
March	11 087	475	229	358	3.17	3.66
April	9 014	391	199	300	2.65	2.96
May	4 567	199	90	147	1.30	1.50
June	3 757	248	82	125	1.11	1.24
July	3 101	144	69	100	.885	1.02
August	1 927	91	48	62.2	.550	.63
September	3 510	391	41	117	1.04	1.16
Water year 1935-36	74 827	715	41	204	1.81	24.62

Maurice River at Norma--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	3 143	137	83	101	0.894	1.03
November	2 422	107	67	80.7	.714	.80
December	5 002	273	77	161	1.42	1.64
Calendar year 1936	68 969	715	41	188	1.66	22.69
January 1937	7 874	378	156	254	2.25	2.59
February	6 784	280	204	242	2.14	2.23
March	6 999	345	151	226	2.00	2.31
April	6 217	308	145	207	1.83	2.04
May	6 501	308	157	210	1.86	2.14
June	4 452	236	115	148	1.31	1.46
July	2 839	145	54	91.6	.811	.94
August	2 872	183	52	92.6	.819	.94
September	2 855	142	62	95.2	.842	.94
Water year 1936-37	57 960	378	52	159	1.41	19.06
October 1937	4 300	274	67	139	1.23	1.42
November	6 091	288	94	203	1.80	2.01
December	5 514	274	134	178	1.58	1.82
Calendar year 1937	63 298	378	52	173	1.53	20.84
January 1938	4 794	188	122	155	1.37	1.58
February	4 778	244	111	171	1.51	1.57
March	5 343	206	119	172	1.52	1.75
April	4 235	188	99	141	1.25	1.40
May	3 411	171	83	110	.973	1.12
June	3 914	521	58	130	1.15	1.28
July	9 088	822	69	293	2.59	2.99
August	7 127	507	119	230	2.04	2.35
September	8 925	1 020	114	298	2.64	2.94
Water year 1937-38	67 520	1 020	58	185	1.64	22.23
October 1938	7 803	430	185	252	2.23	2.57
November	6 361	260	171	212	1.88	2.10
December	7 689	348	185	248	2.19	2.52
Calendar year 1938	73 468	1 020	58	201	1.78	24.17
January 1939	6 492	410	165	209	1.85	2.13
February	11 700	570	294	418	3.70	3.85
March	12 196	504	277	393	3.48	4.01
April	11 941	526	307	398	3.52	3.93
May	7 149	386	158	231	2.04	2.35
June	4 467	217	114	149	1.32	1.47
July	2 970	139	60	95.8	.848	.98
August	6 041	628	79	195	1.73	1.99
September	3 736	229	67	125	1.11	1.24
Water year 1938-39	88 545	628	60	243	2.15	29.14
October 1939	3 398	206	71	110	.973	1.12
November	4 282	225	92	143	1.27	1.42
December	3 131	131	87	101	.894	1.03
Calendar year 1939	77 503	628	60	212	1.88	25.52
January 1940	3 134	142	81	101	.894	1.03
February	4 161	210	77	143	1.27	1.37
March	6 800	303	136	219	1.94	2.24
April	8 282	420	182	276	2.44	2.72
May	7 742	400	161	250	2.21	2.55
June	5 519	320	119	184	1.63	1.82
July	2 999	133	69	96.7	.856	.99
August	4 135	289	60	133	1.18	1.36
September	17 730	5 260	73	591	5.23	5.84
Water year 1939-40	71 313	5 260	60	195	1.73	23.49

Manantico Creek near Millville

Location.- Water-stage recorder and concrete control, lat. 39°25'12", long. 74°58'00", at Millville-Milmay highway bridge 4 miles northeast of Millville, Cumberland County, and 7 miles (revised) upstream from mouth. Datum of gage is 36.63 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 22.3 square miles.

Records available.- June 1931 to September 1940.

Average discharge.- 9 years, 41.0 second-feet.

Extremes.- 1931-40: Maximum discharge, 1,050 second-feet Aug. 20, 1939 (gage height, 6.21 feet), from rating curve extended above 300 second-feet by logarithmic plotting; minimum, 1.4 second-feet (regulated) Aug. 16-18, 1936.

Peak gage height and discharge during period of this report.-
1935: Feb. 16 (8 to 9 a.m.) 5.17 ft., 160 sec.-ft.; Sept. 7 (12:30 a.m.) 5.72 ft., 566 sec.-ft.; Oct. 31 (8 to 10 p.m.) 2.99 ft., 129 sec.-ft.
1936: Jan. 4 (10 to 11 a.m.) 3.93 ft., 259 sec.-ft.; Feb. 15 (4 to 7 a.m.) 4.83 ft., 413 sec.-ft.; Feb. 18 (2 to 3 p.m.) 3.11 ft., 140 sec.-ft.; June 13 (5 to 6 p.m.) 3.75 ft., 228 sec.-ft.; Sept. 19 (9 to 11 p.m.) 2.59 ft., 136 sec.-ft.
1937: May 16 (2 to 4 a.m.) 2.59 ft., 128 sec.-ft.
1938: July 22 (4 p.m.) 2.86 ft., 162 sec.-ft.; July 24 (9 to 10 p.m.) 4.46 ft., 474 sec.-ft.; July 31 (6 a.m.) 2.61 ft., 130 sec.-ft.; Aug. 9 (11 to 12 p.m.) 3.35 ft., 239 sec.-ft.; Sept. 22 (7 a.m.) 4.19 ft., 413 sec.-ft.
1939: Jan. 31 (noon) 2.71 ft., 142 sec.-ft.; Mar. 2 (2 a.m.) 2.61 ft., 130 sec.-ft.; Aug. 20 (9:30 a.m.) 6.21 ft., 1,050 sec.-ft.
1940: Apr. 21 (2 to 3 p.m.) 2.51 ft., 129 sec.-ft.; May 17 (9 to 11 p.m.) 3.50 ft., 286 sec.-ft.; Sept. 2 (2 p.m.) 3.88 ft., 363 sec.-ft.

Remarks.- Slight regulation above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	26	44	41	a36	57	45	38	30	22	17.3	19.2
2	37	27	46	46	36	55	45	37	25	19.8	25	21
3	33	25	41	44	38	56	44	36	25	20	25	21
4	30	28	38	41	38	53	41	37	25	19.8	20	31
5	28	41	38	37	38	49	41	36	30	18.6	19.8	103
6	54	46	34	33	38	49	42	41	42	19.2	19.2	408
7	86	46	34	31	36	50	43	50	45	16.8	22	456
8	69	43	30	26	35	49	22	54	38	18.6	30	214
9	48	38	29	33	37	47	16.5	46	40	28	24	134
10	41	32	29	46	46	45	82	43	53	34	18.6	104
11	36	31	27	53	50	49	89	54	67	26	18.6	87
12	35	32	26	48	47	58	67	48	61	22	19.2	75
13	32	30	25	42	44	75	60	43	44	19.8	18.6	47
14	30	29	19.3	40	47	78	55	40	37	19.2	17.9	30
15	30	26	27	34	102	66	52	38	30	18.6	18.6	49
16	29	26	24	34	153	57	49	34	30	24	19.2	52
17	28	25	27	31	135	53	46	34	28	30	20	50
18	29	25	27	40	120	49	44	32	26	24	18.6	48
19	29	24	31	43	111	64	42	30	34	21	19.2	46
20	29	24	49	41	92	93	42	30	41	19.2	18.6	45
21	27	25	50	57	70	82	41	42	34	18.6	18.6	43
22	27	23	42	64	63	70	43	43	32	22	19.1	42
23	27	23	35	69	58	58	49	38	29	22	74	40
24	26	35	33	63	56	48	33	36	26	19.2	94	38
25	25	36	25	61	54	45	30	33	25	19.2	47	38
26	24	34	33	a52	57	45	27	31	24	20	30	37
27	26	30	38	a47	65	44	33	30	22	17.9	25	36
28	25	27	34	a43	65	44	34	26	23	17.3	23	37
29	25	26	36	a40	-	51	34	35	25	17.9	22	37
30	25	35	38	a38	-	51	38	30	22	17.9	12.5	34
31	25	-	38	a37	-	47	-	25	-	17.9	22	-

a No gage-height record; discharge computed on basis of records for Maurice River at Norma.

Manantico Creek near Millville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	119	62	38	a50	57	61	42	28	37	23	19.3
2	33	93	57	41	a50	55	60	44	27	34	20	15.8
3	33	72	52	115	a48	58	64	43	26	34	21	16.3
4	32	60	49	228	a50	60	63	46	27	32	22	15.8
5	30	52	45	152	a54	60	59	47	28	41	22	15.3
6	33	48	45	104	a54	58	62	44	26	38	21	14.7
7	41	45	43	84	54	57	70	42	26	31	22	13.7
8	40	47	45	76	54	54	66	42	23	28	21	13.2
9	36	50	48	76	55	52	61	42	24	29	24	13.2
10	33	45	47	97	58	54	71	39	24	a30	21	13.2
11	33	44	58	98	54	67	83	38	24	a30	21	13.2
12	40	46	64	80	54	109	81	37	57	31	21	13.2
13	40	44	58	70	52	114	73	40	201	50	18.0	13.2
14	36	42	52	64	183	86	66	51	161	44	21	14.2
15	34	40	48	61	359	70	61	40	86	34	7.4	13.7
16	33	39	50	83	199	63	60	33	63	27	1.7	12.7
17	30	70	47	94	137	60	57	31	49	23	1.4	7.5
18	30	111	45	79	134	75	55	34	43	22	1.4	25
19	30	100	44	86	119	74	54	35	49	21	9.9	104
20	30	75	43	119	a70	70	52	34	48	24	14.7	106
21	27	62	31	114	a55	80	52	28	42	26	14.7	62
22	26	55	35	86	a50	83	51	29	36	24	16.3	39
23	28	52	54	74	a50	78	50	37	33	21	15.8	28
24	30	50	45	64	53	67	49	32	35	24	15.3	23
25	29	49	40	58	57	63	47	30	35	31	14.2	22
26	26	47	41	53	61	60	46	29	32	27	15.3	18.6
27	26	47	40	54	63	67	47	28	30	25	14.2	16.3
28	26	47	39	52	63	99	49	30	28	25	14.7	17.3
29	26	58	38	50	59	104	44	25	27	26	20	17.3
30	60	70	39	a50	-	82	41	23	33	27	43	22
31	114	-	38	a50	-	64	-	31	-	25	30	-

a No gage-height record; discharge computed on basis of records for Maurice River at Norma.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	18.9	22	49	71	44	40	56	33	49	22	32
2	35	18.3	23	44	57	43	38	51	31	38	a23	a32
3	27	18.9	23	61	54	43	40	43	32	33	a25	a32
4	23	18.3	24	84	55	42	39	44	30	32	a28	a32
5	22	21	22	78	51	43	40	42	26	32	a24	a32
6	21	21	24	65	49	42	72	51	25	35	a22	a45
7	20	19.4	44	66	48	40	89	51	30	32	a20	a40
8	21	20	45	67	58	45	75	46	32	29	15.9	32
9	21	23	35	63	63	52	69	46	31	26	4.5	29
10	21	23	29	54	65	49	62	49	29	26	4.2	26
11	21	21	34	52	59	46	51	47	45	23	14.1	25
12	19.4	23	52	50	49	41	45	44	47	26	25	24
13	16.7	24	51	44	47	41	46	39	34	25	25	25
14	16.1	23	43	45	54	42	45	52	42	26	22	25
15	14.9	24	35	51	60	55	44	101	54	26	22	23
16	15.5	23	31	67	57	82	46	115	55	26	21	22
17	39	21	41	66	52	91	43	80	42	24	21	22
18	60	22	42	63	54	72	43	59	39	23	23	23
19	46	21	37	63	50	60	38	52	40	25	21	21
20	32	23	73	82	51	55	37	48	40	26	16.6	21
21	25	21	90	100	51	55	46	44	40	25	4.5	20
22	23	22	63	96	63	55	77	40	72	23	23	20
23	21	21	45	81	65	50	76	46	74	25	82	20
24	21	22	40	72	60	48	43	57	50	24	82	19.4
25	19.4	22	32	70	55	47	40	46	38	22	68	19.4
26	19.4	21	34	69	52	48	46	38	35	30	67	20
27	18.9	22	29	63	48	43	94	40	31	24	90	24
28	18.3	23	35	57	46	45	106	42	44	5.1	75	27
29	17.8	21	36	59	-	43	87	40	68	15.1	54	24
30	18.9	23	34	58	-	41	66	35	61	23	41	24
31	19.4	-	42	58	-	40	-	35	-	25	32	-

a No gage-height record; discharge computed on basis of records for Maurice River at Norma.

Manantico Creek near Millville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	49	75	34	43	28	32	25	24	31	91	25
2	25	42	58	38	38	41	32	25	17.5	26	86	25
3	25	40	51	38	30	36	34	25	25	18.3	72	25
4	25	38	47	35	32	37	33	28	28	23	65	27
5	28	36	45	34	34	40	31	25	33	24	60	42
6	50	36	52	32	33	44	30	25	28	23	56	33
7	65	34	55	49	36	40	24	25	25	24	62	32
8	43	34	50	55	32	36	29	23	23	23	98	28
9	32	34	45	39	31	34	60	24	23	22	182	23
10	35	33	43	36	32	36	54	23	23	23	187	33
11	37	33	40	36	30	35	40	25	23	11.1	112	36
12	33	32	38	36	30	39	34	25	23	5.6	79	31
13	30	58	37	37	32	41	33	16.4	24	6.0	58	32
14	30	79	36	37	32	43	31	6.7	23	19.7	53	31
15	29	70	34	36	33	43	30	27	23	27	51	30
16	28	56	36	32	29	42	30	31	23	23	48	30
17	27	48	38	30	27	45	28	27	23	28	45	30
18	25	43	41	37	27	40	30	25	22	27	43	30
19	27	40	42	26	33	36	31	24	22	43	43	62
20	51	43	39	34	53	38	29	25	22	70	42	110
21	60	42	37	32	57	37	29	31	22	95	39	238
22	50	39	35	34	47	34	30	27	23	145	39	358
23	45	37	37	34	50	33	31	27	23	163	38	196
24	44	35	37	34	60	33	29	25	12.3	397	49	101
25	38	34	38	50	54	31	28	25	10.8	346	38	77
26	35	35	38	57	45	38	27	25	22	164	35	57
27	35	36	35	45	42	34	28	36	28	104	34	54
28	65	70	36	38	42	32	29	43	55	80	34	55
29	82	116	36	32	-	30	25	34	50	77	34	54
30	77	103	34	32	-	30	26	29	42	100	37	45
31	60	-	34	38	-	31	-	25	-	119	30	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	50	53	39	110	112	94	65	24	45	24	60
2	61	46	50	40	85	122	86	62	25	41	19.8	49
3	52	44	48	41	87	96	80	64	30	33	17.5	26
4	38	43	54	41	114	73	71	49	30	29	17.5	20
5	36	42	63	45	112	69	65	48	29	27	17.5	40
6	44	42	67	44	88	97	69	53	27	27	18.1	41
7	48	42	65	45	79	88	91	52	26	27	18.1	35
8	49	41	57	46	75	72	97	64	27	27	23	34
9	46	41	59	42	70	71	84	52	49	27	32	30
10	44	42	48	41	67	69	75	43	38	27	30	30
11	42	41	48	41	91	72	71	43	17.4	14.9	25	32
12	42	39	45	40	119	84	72	45	27	8.7	25	29
13	40	38	44	43	103	85	63	46	38	14.8	25	29
14	40	38	43	45	84	77	59	45	67	19.8	23	30
15	40	38	42	34	73	75	58	46	54	20	23	28
16	39	38	42	34	67	88	60	45	42	19.2	27	27
17	39	37	40	31	77	99	72	44	38	18.6	25	27
18	38	38	40	32	74	89	86	44	35	28	24	16.9
19	37	37	41	34	59	78	95	42	35	28	199	29
20	38	46	39	34	47	70	91	41	39	26	847	28
21	43	54	39	34	75	67	80	41	38	26	304	27
22	44	49	38	35	67	65	67	39	32	25	114	24
23	43	43	38	38	53	63	59	39	32	25	59	25
24	44	38	38	38	51	69	61	41	29	25	49	24
25	52	65	37	42	52	69	59	38	28	24	45	24
26	49	41	37	38	65	58	71	38	27	23	46	27
27	45	38	45	35	78	57	81	49	26	26	58	32
28	64	42	60	31	82	66	81	43	27	14.2	58	27
29	71	47	48	38	-	72	73	38	28	8.7	51	26
30	55	64	44	83	-	80	69	35	31	16.6	55	25
31	56	-	40	136	-	97	-	34	-	24	64	-

Manantico Creek near Millville--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	49	28	15.4	33	a35	42	44	102	32	26	114
2	38	54	28	7.5	31	a40	41	45	88	31	43	320
3	50	44	27	11.8	22	a45	42	46	66	32	7.3	194
4	38	36	28	23	8.1	a70	44	46	55	38	7.0	109
5	29	55	27	32	24	a90	47	44	42	42	7.3	86
6	28	60	28	17.8	a35	a80	44	43	40	37	7.7	80
7	26	53	27	10.9	a35	a70	40	42	74	33	19.1	67
8	26	43	19.4	17.5	a35	a60	42	40	53	32	26	52
9	25	40	10.9	19.2	a35	a50	62	51	44	32	26	44
10	26	36	14.8	26	a35	a45	71	48	48	32	25	44
11	26	34	22	30	33	a43	60	43	64	31	25	44
12	27	28	19.8	29	37	a41	59	41	44	33	25	46
13	27	28	32	30	42	39	84	37	39	17.5	27	42
14	27	34	34	19.4	37	37	69	37	40	9.7	28	38
15	27	31	31	24	a50	79	65	36	38	28	26	37
16	28	29	30	39	a40	80	57	56	37	31	25	36
17	28	29	30	35	a42	68	56	186	36	33	33	35
18	18.1	28	29	34	a44	59	52	198	35	30	85	33
19	7.9	21	30	33	a60	52	52	103	34	31	82	33
20	8.3	42	16.7	30	a80	47	84	71	33	29	58	32
21	19.1	41	7.5	7.9	a75	45	116	53	31	28	21	31
22	43	34	13.6	7.9	a60	45	109	62	31	28	25	30
23	36	27	28	16.5	a50	46	72	80	32	24	26	30
24	30	27	34	32	a45	44	53	74	31	8.5	27	29
25	16.9	28	30	33	a40	42	56	60	31	8.5	28	33
26	18.7	17.8	21	a18	a35	40	55	61	30	9.7	43	48
27	27	10.0	7.9	a9	a35	38	53	54	31	24	40	39
28	28	27	24	a14	a35	37	51	45	32	26	57	33
29	28	31	30	17.6	a35	37	48	62	33	26	61	31
30	30	28	31	27	-	37	46	60	33	27	51	30
31	33	-	30	33	-	39	-	77	-	25	37	-

a No gage-height record; discharge computed on basis of observer's weekly gage readings, recorded range in stage, and records for Maurice River at Norma.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	1 058	86	24	34.1	1.53	1.76
November	918	46	23	30.6	1.37	1.53
December	1 047.3	50	19.3	33.8	1.52	1.75
Calendar year 1934	13 012.6	165	11.9	35.7	1.60	21.68
January 1935	1 355	69	26	43.7	1.96	2.26
February	1 767	153	35	63.1	2.83	2.95
March	1 737	93	44	56.0	2.51	2.89
April	1 329.5	89	16.5	44.3	1.99	2.20
May	1 170	54	25	37.7	1.69	1.95
June	1 013	67	22	33.8	1.52	1.70
July	650.5	34	16.8	21.0	.942	1.09
August	796.6	94	12.5	25.7	1.15	1.33
September	2 422.2	456	19.2	80.7	3.62	4.04
Water year 1934-35	15 264.1	456	12.5	41.8	1.87	25.45
October 1935	1 098	114	26	35.4	1.59	1.83
November	1 779	119	39	59.3	2.66	2.97
December	1 442	64	31	46.5	2.09	2.41
Calendar year 1935	16 559.8	456	12.5	45.4	2.04	27.62
January 1936	2 550	228	38	82.3	3.69	4.25
February	2 399	359	48	82.7	3.71	4.00
March	2 200	114	52	71.0	3.18	3.67
April	1 755	83	41	58.5	2.62	2.92
May	1 126	51	23	36.3	1.63	1.88
June	1 371	201	23	45.7	2.05	2.29
July	921	50	21	29.7	1.33	1.53
August	548.0	43	1.4	17.7	.794	.92
September	738.7	106	7.5	24.6	1.10	1.23
Water year 1935-36	17 927.7	359	1.4	49.0	2.20	29.90

Manantico Creek near Millville--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	736.7	60	14.9	23.8	1.07	1.23
November	644.8	24	18.3	21.5	.964	1.08
December	1 210	90	22	39.0	1.75	2.02
Calendar year 1936	16 200.2	359	1.4	44.4	1.99	27.02
January 1937	1 997	100	44	64.4	2.89	3.33
February	1 544	71	46	55.1	2.47	2.57
March	1 543	91	40	49.8	2.23	2.57
April	1 683	106	37	56.1	2.52	2.81
May	1 579	115	35	50.9	2.28	2.63
June	1 250	74	25	41.7	1.87	2.09
July	823.2	49	5.1	26.6	1.19	1.37
August	1 017.8	90	4.2	32.8	1.47	1.70
September	780.8	45	19.4	26.0	1.17	1.30
Water year 1936-37	14 809.3	115	4.2	40.6	1.82	24.70
October 1937	1 260	82	24	40.6	1.82	2.10
November	1 425	116	32	47.5	2.13	2.38
December	1 299	75	34	41.9	1.88	2.17
Calendar year 1937	16 201.8	116	4.2	44.4	1.99	27.02
January 1938	1 157	57	26	37.3	1.67	1.92
February	1 064	60	27	38.0	1.70	1.77
March	1 137	45	28	36.7	1.65	1.90
April	957	60	24	31.9	1.43	1.60
May	807.1	43	6.7	26.0	1.17	1.35
June	765.6	55	10.8	25.5	1.14	1.27
July	2 287.7	397	5.6	73.8	3.31	3.82
August	1 940	187	30	62.6	2.81	3.24
September	1 950	358	23	65.0	2.91	3.25
Water year 1937-38	16 049.4	397	5.6	44.0	1.97	26.77
October 1938	1 444	71	36	46.6	2.09	2.41
November	1 304	65	37	43.5	1.95	2.18
December	1 452	67	37	46.8	2.10	2.42
Calendar year 1938	16 265.4	397	5.6	44.6	2.00	27.13
January 1939	1 340	136	31	43.2	1.94	2.24
February	2 204	119	47	78.7	3.53	3.68
March	2 449	122	57	79.0	3.54	4.08
April	2 240	97	58	74.7	3.35	3.74
May	1 428	65	34	46.1	2.07	2.39
June	995.4	67	17.4	33.2	1.49	1.66
July	745.5	45	8.7	24.0	1.08	1.24
August	2 363.5	847	17.5	76.2	3.42	3.94
September	901.9	60	16.9	30.1	1.35	1.51
Water year 1938-39	18 867.3	847	8.7	51.7	2.32	31.49
October 1939	848.0	50	7.9	27.4	1.23	1.42
November	1 044.8	60	10.0	34.8	1.56	1.74
December	769.6	34	7.5	24.8	1.11	1.28
Calendar year 1939	17 329.7	847	7.5	47.5	2.13	28.92
January 1940	700.4	39	7.5	22.6	1.01	1.16
February	1 168.1	80	8.1	40.3	1.81	1.95
March	1 580	90	35	51.0	2.29	2.64
April	1 772	116	40	59.1	2.65	2.96
May	1 945	198	36	62.7	2.81	3.24
June	1 327	102	30	44.2	1.98	2.21
July	848.9	42	8.5	27.4	1.23	1.42
August	1 024.4	85	7.0	33.0	1.48	1.71
September	1 820	320	29	60.7	2.72	3.04
Water year 1939-40	14 848.2	320	7.0	40.6	1.82	24.77

Delaware River at Port Jervis, N. Y.

Location.- Water-stage recorder, lat. 41°22'20", long. 74°41'50", near highway bridge at Port Jervis, Orange County, 1½ miles upstream from Neversink River. Datum of gage is 415.35 feet (revised) above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 3,076 square miles.

Records available.- October 1904 to September 1940.

Average discharge.- 36 years, 5,567 second-feet (unadjusted).

Extremes.- 1904-40: Maximum discharge, 113,000 second-feet Apr. 1, 1940 (gage height, 15.55 feet), from rating curve extended above 75,000 second-feet by logarithmic plotting; maximum gage height, 17.55 feet Mar. 18, 1936; minimum discharge, 175 second-feet Sept. 22 and 23, 1908 (gage height, 0.60 foot); minimum daily, 175 second-feet Sept. 22 and 23, 1908.
Maximum discharge known, about 155,000 second-feet Oct. 10, 1903 (gage height, 23.1 feet, reported by United States Weather Bureau), from rating curve extended above 35,000 second-feet by logarithmic plotting; maximum stage known, 25.5 feet Mar. 8, 1904, ice jam.

Peak gage height and discharge during period of this report.-
1934: Dec. 2 (8 a.m.) 11.12 ft., 53,500 sec.-ft.
1936: Mar. 11 (4:45 p.m.) 14.41 ft., ice jam; Mar. 12 (11:30 a.m.) 14.68 ft., ice jam; Mar. 18 (5 p.m.) 17.55 ft., 108,000 sec.-ft.
1937: Feb. 22 (11 p.m.) 10.25 ft., 46,500 sec.-ft.
1938: Jan. 26 (4 a.m.) 11.89 ft., 62,600 sec.-ft.; Aug. 12 (12:15 a.m.) 12.40 ft., 68,300 sec.-ft.; Sept. 22 (noon) 14.95 ft., 101,000 sec.-ft.; Dec. 6 (9:30 p.m.) 11.25 ft., 55,600 sec.-ft.
1940: Apr. 1 (12:30 a.m.) 15.55 ft., 113,000 sec.-ft.; Apr. 9 (11 a.m.) 12.68 ft., 74,200 sec.-ft.

Remarks.- Large diurnal fluctuations at medium and low stages caused by power plants on tributary streams. Flow regulated considerably by Lake Wallenpaupack and Toronto, Cliff Lake (since December 1939), and Swinging Bridge Reservoirs (combined capacity, 12,300,000,000 cubic feet).

Cooperation.- Records of storage furnished by Pennsylvania Power and Light Co. for Lake Wallenpaupack, and by Rockland Light and Power Co. for Toronto, Cliff Lake, and Swinging Bridge Reservoirs.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14 600	3 050	23 800	2 650	b2 600	6 700	8 500	9 000	1 960	1 940	3 150	1 380
2	9 700	3 300	46 500	2 460	b2 600	4 850	8 100	8 400	1 660	2 160	3 100	990
3	7 300	3 400	27 500	3 250	b3 000	4 450	8 000	7 000	1 860	2 100	2 500	1 320
4	5 920	3 600	18 400	b3 000	2 700	6 100	7 000	6 700	2 550	1 640	1 900	2 140
5	5 100	8 900	14 400	b2 600	2 400	6 400	6 400	7 700	2 160	1 280	2 260	2 280
6	5 200	10 400	11 400	b2 800	b2 400	7 200	6 100	7 900	2 500	2 300	2 480	2 340
7	7 600	8 600	9 300	3 050	b2 200	16 200	5 300	9 500	2 400	2 850	2 160	1 520
8	6 850	7 700	7 700	4 400	b2 200	16 000	5 800	18 200	2 360	2 800	2 100	1 260
9	5 700	7 300	5 900	15 000	b2 400	10 300	5 800	14 600	2 550	21 000	2 120	1 200
10	4 750	6 400	4 650	39 500	b2 400	9 000	7 000	12 400	3 300	24 200	2 200	1 360
11	4 200	5 500	b4 000	33 500	b2 200	9 800	7 600	12 400	3 500	16 400	1 440	1 660
12	3 950	5 050	b3 600	19 400	b2 000	20 600	8 200	9 500	2 950	11 200	2 000	1 240
13	3 800	5 200	3 700	12 200	b2 000	22 800	8 200	8 400	2 750	7 600	2 420	1 880
14	3 160	4 750	b3 600	9 500	b2 200	15 000	8 670	7 600	2 130	6 100	2 650	1 920
15	3 500	4 350	b3 400	b8 000	b2 600	11 000	9 200	6 800	1 820	5 200	2 100	1 260
16	3 650	4 000	3 300	b6 500	2 950	9 600	9 800	5 900	1 300	6 000	2 320	1 180
17	3 250	3 850	3 200	b6 000	4 250	13 800	10 000	5 400	1 380	5 100	1 700	1 240
18	3 400	3 680	b3 400	5 400	5 900	20 400	9 200	4 300	2 120	4 550	1 440	1 180
19	3 550	3 820	3 900	b5 000	4 650	16 200	9 300	3 700	2 500	3 900	1 760	1 320
20	2 850	3 960	5 700	5 000	3 650	13 200	9 300	3 440	2 600	3 450	2 380	1 700
21	2 360	4 400	9 200	5 000	3 050	14 400	9 520	3 650	2 850	4 250	2 180	1 500
22	2 360	3 950	6 300	6 000	2 650	16 000	8 670	3 400	3 650	3 850	2 360	980
23	3 450	3 850	4 900	7 500	2 550	13 600	8 600	3 350	3 850	3 550	2 260	1 120
24	3 450	6 200	4 150	5 700	2 550	12 400	8 100	2 950	3 950	3 500	1 680	1 900
25	3 250	9 340	3 950	4 300	2 850	11 800	7 300	2 440	3 300	5 100	900	1 640
26	2 550	8 000	3 850	3 350	4 100	10 200	6 700	2 220	2 800	7 500	1 180	1 560
27	2 750	7 100	4 250	b3 000	5 900	8 700	5 800	2 440	2 650	5 600	1 760	1 400
28	2 850	6 600	3 600	b2 800	7 700	7 700	5 200	2 650	2 650	3 900	1 520	1 460
29	2 950	6 600	3 350	b2 800	-	9 300	5 800	2 600	2 080	3 850	960	1 020
30	3 050	7 500	3 400	b2 600	-	9 400	6 500	2 120	1 920	3 650	1 200	900
31	3 300	-	3 100	b2 600	-	9 400	-	1 960	-	3 450	1 860	-

b Stage-discharge relation affected by ice (no gage-height record Feb. 1-3 and 6-11).

Delaware River at Port Jervis, N. Y.--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 600	24 300	15 800	b2 400	b2 800	b4 600	12 800	5 250	2 000	1 830	1 440	2 580
2	1 520	10 600	12 000	b2 600	b2 600	b4 400	11 800	4 820	2 490	1 440	665	1 830
3	1 740	6 900	9 800	4 000	b2 400	b4 800	12 800	4 440	2 540	1 880	661	1 530
4	1 640	5 300	8 100	5 400	b2 400	b4 400	11 600	4 760	2 580	1 420	1 610	1 380
5	1 560	4 450	6 600	7 700	b2 600	b4 600	9 100	4 760	2 430	1 100	1 530	1 160
6	940	3 800	5 600	7 100	b2 600	b5 000	12 200	4 440	2 250	1 130	1 370	1 010
7	1 040	6 000	4 850	5 600	b2 400	b5 000	24 400	4 140	1 650	1 770	1 650	1 010
8	1 600	5 300	4 400	5 300	b2 400	b5 000	19 700	4 000	1 400	1 380	1 480	1 010
9	1 380	5 700	5 200	5 300	b2 200	b4 800	16 300	3 890	2 160	1 720	1 010	1 800
10	1 180	4 950	6 300	4 450	b2 000	b5 500	14 800	3 920	2 130	1 830	1 070	1 880
11	980	4 150	7 000	4 550	b2 200	b15 000	15 600	3 540	2 150	1 700	1 600	1 890
12	660	4 650	5 900	4 400	b2 400	b72 700	15 400	3 550	2 160	1 400	1 710	1 810
13	740	5 800	5 100	4 350	b2 200	59 500	17 300	3 540	1 960	1 190	1 560	948
14	680	39 200	4 950	4 550	b2 200	34 200	21 700	4 400	1 460	1 670	1 810	873
15	1 580	24 500	5 000	4 650	b2 400	23 800	19 200	4 090	1 850	1 670	1 820	1 440
16	1 420	14 500	6 700	5 400	b2 200	25 400	17 700	3 750	1 950	1 630	899	1 310
17	1 100	10 800	7 200	6 600	b2 200	43 300	15 000	3 300	1 760	1 500	912	1 170
18	940	9 600	6 200	6 300	b2 400	93 100	13 000	3 020	1 880	1 210	991	1 010
19	1 020	8 800	5 300	4 350	b2 600	82 800	11 000	3 250	7 380	606	900	1 570
20	630	8 200	b4 800	3 500	b2 400	57 700	9 800	3 300	7 140	671	1 330	840
21	660	11 400	b4 200	3 800	b2 400	42 400	8 800	3 240	4 860	1 550	1 470	778
22	1 140	11 000	3 650	4 250	b2 200	44 300	9 300	3 170	3 910	1 570	1 100	1 420
23	1 540	9 400	3 100	b4 000	b1 200	31 400	9 100	2 930	3 010	1 680	1 910	1 060
24	1 220	7 600	b3 400	b4 000	b1 400	23 800	7 700	2 520	2 530	1 800	3 600	1 050
25	930	6 300	b3 000	b3 800	b2 400	19 900	6 880	2 600	2 330	1 480	3 340	1 000
26	a850	6 000	b2 600	b2 800	b2 600	17 300	6 120	2 750	2 210	973	2 490	748
27	a750	5 600	b3 000	b2 800	b3 200	15 800	5 940	2 740	1 980	843	1 850	538
28	a700	6 000	b3 400	b3 400	b4 600	21 600	5 760	2 610	2 020	1 490	1 560	692
29	a600	20 700	b2 800	b3 400	b5 000	19 600	5 250	2 590	1 610	1 650	1 430	956
30	1 140	24 400	b2 400	b2 800	-	16 000	5 080	2 400	1 850	1 570	1 560	1 600
31	19 200	-	b2 600	b2 800	-	14 000	-	2 070	-	1 530	2 630	-

a No gage-height record; discharge computed on basis of records for East Branch of Delaware River at Fishs Eddy, N. Y. and West Branch of Delaware River at Hale Eddy, N. Y.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 100	3 020	1 860	9 160	8 060	6 120	6 310	7 410	3 580	5 460	1 530	3 230
2	1 530	2 760	1 660	9 290	7 280	6 260	8 450	6 310	3 600	7 090	1 860	2 990
3	1 260	2 590	1 830	7 860	6 040	5 670	8 580	6 110	3 290	6 120	1 950	2 760
4	1 320	2 900	2 120	8 260	4 290	5 060	7 660	5 830	3 430	5 250	1 860	2 370
5	1 200	13 300	2 320	7 400	4 140	5 450	7 560	5 200	3 120	4 600	1 730	1 990
6	1 050	22 300	2 330	5 940	4 550	6 020	15 200	4 840	2 930	4 360	1 680	3 630
7	1 150	13 400	2 600	5 440	4 140	4 920	34 400	5 240	6 310	4 170	1 890	5 280
8	1 000	9 900	3 330	5 420	4 200	4 490	23 300	4 730	8 260	3 680	1 210	4 070
9	1 290	8 060	3 990	6 740	4 350	4 400	18 900	4 290	5 870	3 220	1 260	3 510
10	1 340	6 880	3 750	7 660	5 800	3 810	21 900	4 230	4 490	2 770	2 800	3 200
11	1 140	5 590	4 490	7 460	6 780	3 450	15 600	4 170	4 080	2 530	2 940	2 690
12	848	4 760	17 200	6 500	4 760	2 940	12 600	3 730	3 470	3 050	2 910	2 310
13	1 230	4 290	15 400	5 940	4 180	3 270	10 800	3 300	3 000	3 340	5 020	2 490
14	1 480	3 860	10 300	5 590	4 820	3 110	9 840	4 640	3 060	2 600	6 050	3 000
15	1 200	3 450	8 260	7 260	8 460	3 170	10 800	13 600	4 480	2 840	3 850	4 690
16	1 020	3 590	7 070	12 200	7 660	2 990	16 700	24 700	4 970	3 550	3 230	4 370
17	1 570	3 320	6 500	9 620	5 650	3 070	15 800	16 800	3 740	3 290	3 050	3 890
18	1 450	3 140	6 880	9 560	4 760	2 800	12 400	14 100	3 670	2 530	2 850	3 370
19	2 870	2 770	5 610	16 600	4 290	3 300	12 200	12 600	3 470	2 320	2 560	3 050
20	3 070	2 590	6 670	13 000	4 480	3 190	11 600	10 900	4 290	2 810	2 330	3 190
21	2 590	2 360	10 300	10 000	4 440	4 300	10 300	9 730	4 460	2 490	1 900	3 750
22	2 330	2 290	8 420	14 700	29 900	6 910	17 200	8 310	13 600	2 070	1 840	3 430
23	2 290	2 270	6 310	22 400	32 500	7 640	24 900	7 460	16 500	2 060	2 340	2 890
24	2 100	2 370	5 080	15 600	18 200	7 260	19 800	7 660	10 800	1 890	2 470	2 300
25	3 100	2 070	5 420	19 300	13 400	8 380	14 200	6 780	7 800	1 440	2 260	2 050
26	3 860	1 860	5 250	30 400	10 500	8 460	11 900	5 920	5 970	1 440	2 070	2 080
27	3 950	2 180	5 420	19 800	8 860	6 720	11 000	5 290	4 760	2 050	2 540	2 020
28	4 540	1 760	6 190	13 800	7 070	5 760	10 900	5 820	4 900	2 180	5 720	2 640
29	3 660	2 280	7 070	11 600	-	4 920	10 500	5 000	5 480	2 140	6 760	2 590
30	3 580	1 890	6 500	9 930	-	4 760	9 170	4 140	5 500	1 840	4 380	2 540
31	3 270	-	6 280	8 880	-	5 460	-	3 450	-	2 160	3 680	-

Delaware River at Port Jervis, N. Y.--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 500	5 600	6 600	3 450	8 900	3 500	6 100	3 800	3 850	5 400	5 100	2 950
2	1 860	5 000	5 700	2 800	7 100	3 500	6 000	3 800	3 550	4 300	5 600	2 850
3	1 760	4 600	5 000	3 400	5 600	4 250	5 300	3 800	3 350	4 450	5 400	2 220
4	1 720	4 300	4 650	3 450	7 300	4 150	5 000	3 600	2 950	3 750	4 250	1 700
5	2 300	3 950	4 150	3 350	8 500	3 400	5 100	3 450	2 600	3 150	3 650	1 640
6	2 220	3 650	4 550	3 700	6 300	3 850	4 950	3 100	2 550	3 050	3 300	1 800
7	2 260	3 250	4 800	4 400	12 600	11 000	4 750	2 420	2 650	3 300	3 200	2 650
8	1 880	3 050	4 200	5 100	15 800	7 400	4 400	2 280	2 950	2 800	5 300	2 800
9	2 020	3 100	4 150	4 750	11 200	5 800	6 300	2 380	3 100	3 100	5 500	2 300
10	1 400	2 850	3 450	3 950	12 200	4 900	13 800	2 600	3 000	2 850	7 700	2 850
11	1 320	2 600	2 500	3 500	11 800	4 350	13 200	2 850	2 380	3 150	18 800	2 040
12	1 880	2 500	2 300	3 700	8 500	3 800	12 800	2 650	1 800	3 400	41 000	1 980
13	1 840	3 850	b2 400	3 850	8 500	3 600	11 800	2 320	4 550	3 450	16 200	2 480
14	2 280	11 200	b2 400	3 950	13 000	6 300	10 800	2 120	10 000	3 000	10 600	2 500
15	2 080	12 200	b2 600	3 300	12 400	9 200	9 600	3 450	6 400	2 500	8 500	3 300
16	2 020	9 300	3 200	2 750	8 900	7 500	8 600	7 300	4 950	2 320	7 300	3 650
17	1 380	8 100	4 000	2 700	7 300	7 800	7 900	7 400	4 150	2 120	6 100	3 800
18	1 480	7 100	10 600	b2 800	7 400	11 000	7 100	5 500	3 350	2 420	5 900	3 000
19	2 140	6 200	21 200	b2 600	7 200	12 200	9 100	4 750	2 750	3 350	5 900	3 500
20	2 360	5 700	15 800	b2 800	7 800	11 000	9 600	4 450	2 850	3 800	4 900	5 400
21	7 200	5 300	11 400	b2 600	7 300	10 600	8 500	3 900	3 350	4 150	4 200	24 000
22	5 800	5 200	9 500	b2 600	6 400	11 400	8 000	3 900	3 050	17 400	3 900	89 000
23	6 400	5 000	8 400	2 440	6 300	10 800	8 000	4 500	3 050	27 500	3 900	49 000
24	32 500	4 600	7 200	2 700	6 000	10 400	6 900	6 200	2 800	27 000	3 800	26 500
25	18 600	4 100	5 700	14 400	5 600	10 000	6 500	8 700	2 700	16 800	3 550	17 400
26	11 000	3 350	5 400	42 500	4 300	8 500	6 000	7 800	2 460	11 600	3 300	13 000
27	8 200	3 200	5 300	19 400	3 900	7 800	5 500	6 700	3 450	8 700	3 200	10 400
28	7 100	4 050	5 100	12 000	4 200	7 300	5 100	5 700	10 600	7 100	2 800	8 800
29	8 800	6 900	4 600	8 200	-	6 900	4 550	4 850	10 600	6 400	2 700	7 600
30	8 800	7 900	4 100	6 700	-	6 500	4 150	4 150	7 400	5 900	3 050	6 600
31	6 800	-	3 950	7 800	-	6 100	-	4 050	-	5 500	2 950	-

b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5 700	2 460	5 010	b2 450	3 980	17 200	17 900	7 250	2 380	1 710	1 250	883
2	4 860	2 890	4 510	2 450	3 750	17 900	20 000	6 900	2 160	1 230	1 120	886
3	4 680	2 700	3 810	2 790	3 900	14 100	23 000	6 230	1 890	1 530	925	836
4	4 280	3 000	6 430	3 350	4 040	12 000	18 000	5 660	2 130	1 400	1 140	c423
5	3 760	2 730	15 500	2 780	3 740	11 500	14 900	5 250	1 580	1 180	764	1 070
6	3 840	2 690	41 600	3 460	3 620	13 500	13 500	4 920	1 630	1 030	838	1 350
7	3 890	4 420	41 100	6 830	3 630	19 300	19 000	4 350	1 830	955	994	1 220
8	3 000	4 790	23 800	7 700	3 220	15 700	18 000	4 080	1 580	1 290	1 570	1 490
9	2 770	4 730	17 400	5 990	2 930	12 700	14 700	4 440	1 580	1 150	1 510	1 440
10	2 720	5 520	19 100	5 600	3 200	11 200	13 000	4 730	1 910	955	1 010	1 020
11	2 750	5 250	26 200	5 820	3 060	9 100	11 700	4 560	1 950	1 510	1 240	664
12	2 480	4 650	18 800	6 230	2 660	7 880	13 400	4 410	1 630	1 730	1 170	1 350
13	2 580	4 140	14 900	5 500	2 890	7 950	14 900	3 610	2 320	1 760	830	1 360
14	3 220	4 290	12 100	4 670	3 290	7 470	13 400	2 920	2 360	1 420	962	954
15	2 950	5 060	10 000	4 150	5 080	6 960	12 800	3 020	1 730	1 530	1 460	676
16	2 400	4 670	8 030	3 860	18 200	6 600	14 300	3 410	1 780	757	1 500	c518
17	2 110	4 420	7 340	4 090	19 200	6 880	13 000	3 260	1 990	632	1 420	c564
18	2 660	4 060	6 940	b3 900	13 200	6 130	12 300	3 240	2 050	1 290	1 470	c574
19	2 760	3 670	6 430	b3 700	11 400	5 490	12 700	2 870	1 460	1 190	1 360	1 170
20	2 850	7 870	5 780	b3 400	12 000	5 440	14 000	2 440	1 940	634	627	1 110
21	3 000	11 100	5 300	2 890	33 200	5 400	13 800	2 220	2 250	1 230	806	1 330
22	2 830	9 160	4 670	2 640	25 500	5 030	12 500	2 910	2 160	1 030	1 360	1 340
23	2 350	7 810	4 140	2 710	17 700	4 850	13 500	4 280	2 160	c437	1 360	999
24	2 340	6 930	3 770	2 970	13 300	4 600	12 400	3 880	1 520	c454	1 430	c565
25	3 820	6 080	3 690	2 770	10 500	6 720	11 300	3 540	1 190	1 340	3 490	c547
26	4 360	5 490	3 200	b2 500	9 680	14 300	10 500	3 020	981	1 310	2 230	1 120
27	3 520	5 020	3 330	b2 350	12 300	24 300	9 730	2 640	1 090	1 550	1 280	1 410
28	3 720	5 050	b3 000	b2 300	15 700	26 800	9 630	2 460	1 270	1 540	1 010	1 580
29	3 340	4 860	b2 600	2 290	-	25 200	8 990	2 410	1 080	1 670	1 400	1 320
30	2 710	4 940	b2 500	3 330	-	19 400	7 400	2 080	1 660	1 080	1 320	1 820
31	2 760	-	b2 500	4 150	-	19 900	-	2 230	-	1 000	1 280	-

b Stage-discharge relation affected by ice.
c Stage below intake pipe for part of day; discharge computed from partially estimated gage height.

Delaware River at Port Jervis, N. Y.--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 870	9 680	2 270	b2 200	b1 020	b1 650	86 900	8 000	8 000	4 450	2 110	14 700
2	2 700	10 700	2 260	b2 000	b1 000	b1 600	40 400	8 760	9 720	5 920	1 810	17 300
3	3 330	8 440	2 340	b1 850	b1 000	b1 600	30 200	9 510	9 380	4 590	1 560	10 200
4	3 600	6 960	2 950	b1 750	b980	b1 900	29 800	8 530	7 670	3 730	872	6 130
5	3 270	5 960	4 080	b1 650	b980	b2 400	39 000	7 780	6 520	3 300	1 240	4 510
6	2 490	6 780	3 740	b1 550	b1 020	b3 000	33 500	7 020	5 920	2 890	1 850	3 400
7	2 240	7 130	3 290	b1 450	b1 140	b3 000	30 000	6 360	5 030	2 520	1 940	2 650
8	1 950	7 050	3 000	b1 400	b1 160	b2 800	34 200	5 810	3 980	2 480	1 710	2 190
9	1 790	7 420	2 880	b1 300	b1 120	b2 600	67 100	5 490	3 430	2 560	1 740	2 100
10	1 890	7 660	2 730	b1 250	b1 100	b2 450	46 400	5 020	3 830	2 430	1 730	2 280
11	1 870	6 560	3 140	b1 220	b1 400	b2 350	30 300	4 200	4 150	2 290	972	2 280
12	1 800	6 930	3 330	b1 200	b2 000	b2 300	26 900	3 800	3 870	2 650	935	2 140
13	1 420	6 810	2 910	b1 250	b2 200	b2 250	31 800	3 840	3 920	2 800	1 640	2 080
14	1 230	6 200	2 900	b1 350	b2 100	b2 250	23 400	3 880	3 350	2 410	1 680	1 790
15	1 320	5 550	2 640	2 160	b1 850	b2 700	17 800	3 790	2 770	2 220	1 630	1 500
16	1 140	4 770	2 430	2 460	b1 650	b7 000	15 800	4 090	2 290	2 110	1 580	1 600
17	1 800	4 530	2 480	b2 350	b1 600	b6 000	14 200	6 640	2 520	1 910	1 710	1 780
18	1 740	4 420	2 760	b2 100	b1 550	b5 400	13 800	8 260	2 660	1 980	1 220	1 540
19	1 150	3 860	2 940	b1 850	b1 800	b5 600	17 000	6 380	2 530	2 220	1 080	1 700
20	828	3 830	3 510	b1 650	b1 900	b6 000	18 800	5 950	2 230	1 690	1 610	1 670
21	1 310	4 240	8 020	b1 500	b1 850	b6 600	32 900	6 820	2 080	1 490	1 450	1 620
22	1 350	3 730	9 350	b1 400	b1 800	b6 200	32 200	7 940	1 790	1 500	1 390	1 320
23	2 430	3 050	7 150	b1 350	b1 700	b5 400	23 800	7 750	1 380	2 030	1 540	1 410
24	2 450	2 950	5 680	b1 300	b1 650	b4 700	18 600	7 000	2 030	2 070	1 250	1 490
25	2 300	2 960	4 400	b1 250	b1 600	b4 300	15 600	6 530	4 140	1 970	652	1 660
26	2 050	3 030	b3 800	b1 200	b1 550	b4 100	13 300	5 980	4 410	1 750	c674	1 670
27	2 830	2 630	b3 400	b1 160	b1 500	b4 000	11 100	8 460	3 690	1 660	1 680	1 660
28	5 150	2 930	b3 000	b1 120	b1 600	b4 000	9 780	7 960	3 190	1 650	2 000	1 580
29	7 160	2 540	2 700	b1 080	b1 700	4 620	9 020	7 690	4 280	1 520	2 310	1 360
30	6 090	2 410	2 830	b1 060	-	5 460	8 490	7 480	4 860	2 350	1 920	1 490
31	6 060	-	b2 400	b1 040	-	75 800	-	8 110	-	2 310	2 050	-

b Stage-discharge relation affected by ice (no gage-height record Mar. 16-18).
c Stage below intake pipe for part of day; discharge computed from partially estimated gage height.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	140 350	14 600	2 360	4 527	4 368	1.42	1.64
November	170 350	10 400	3 050	5 678	5 809	1.89	2.11
December	257 400	46 500	3 100	8 303	8 814	2.87	3.31
Calendar year 1934	1 874 890	46 500	750	5 137	5 185	1.69	22.89
January 1935	234 860	39 500	2 460	7 576	7 448	2.42	2.79
February	88 650	7 700	2 000	3 166	3 040	.988	1.03
March	363 000	22 800	4 450	11 710	12 423	4.04	4.66
April	230 160	10 000	5 200	7 672	7 904	2.57	2.87
May	198 620	18 200	1 960	6 407	6 592	2.14	2.47
June	76 100	3 950	1 300	2 537	2 186	.711	.79
July	179 970	24 200	1 280	5 805	5 704	1.85	2.13
August	62 040	3 150	900	2 001	1 204	.391	.45
September	43 850	2 340	900	1 462	833	.271	.30
Water year 1934-35	2 045 350	46 500	900	5 604	5 562	1.81	24.55
October 1935	52 730	19 200	600	1 701	1 278	.415	.48
November	315 900	39 200	3 800	10 530	11 157	3.63	4.05
December	170 950	15 800	2 400	5 515	5 629	1.83	2.11
Calendar year 1935	2 016 830	39 500	600	5 526	5 469	1.78	24.13
January 1936	136 350	7 700	2 400	4 398	4 220	1.37	1.58
February	72 600	5 000	1 200	2 503	2 189	.712	.77
March	826 700	93 100	4 400	26 670	29 023	9.44	10.88
April	371 130	24 400	5 080	21 370	12 064	3.92	4.37
May	109 780	5 250	2 070	3 541	3 329	1.08	1.24
June	77 630	7 380	1 400	2 588	2 186	.711	.79
July	44 883	1 880	606	1 448	563	.183	.21
August	48 958	3 600	661	1 579	1 125	.366	.42
September	37 893	2 580	538	1 263	861	.280	.31
Water year 1935-36	2 265 504	93 100	538	6 190	6 152	2.00	27.21

*Adjusted for change in contents in Lake Wallenpaupack, and Toronto and Swinging Bridge Reservoirs.

Delaware River at Port Jervis, N. Y.--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	63 438	4 540	848	2 046	1 875	0.610	0.70
November	143 800	22 300	1 760	4 793	4 742	1.54	1.72
December	186 410	17 200	1 660	6 013	6 465	2.10	2.42
Calendar year 1936	2 119 572	93 100	538	5 791	5 748	1.87	25.41
January 1937	343 310	30 400	5 420	11 070	11 834	3.85	4.44
February	233 560	32 500	4 140	8 341	8 929	2.90	3.02
March	153 880	8 460	2 800	4 964	5 161	1.68	1.94
April	420 470	34 400	6 310	14 020	14 830	4.82	5.38
May	232 290	24 700	3 300	7 493	7 682	2.50	2.88
June	162 880	16 500	2 930	5 429	5 414	1.76	1.96
July	97 340	7 090	1 440	3 140	2 831	.920	1.06
August	88 520	6 760	1 210	2 855	2 459	.799	.92
September	92 570	5 280	1 990	3 086	2 601	.846	.94
Water year 1936-37	2 218 468	34 400	848	6 078	6 206	2.02	27.38
October 1937	159 900	32 500	1 320	5 158	5 203	1.69	1.95
November	157 700	12 200	2 500	5 257	5 745	1.87	2.09
December	184 900	21 200	2 300	5 965	5 927	1.93	2.22
Calendar year 1937	2 327 320	34 400	1 210	6 376	6 525	2.12	28.80
January 1938	191 640	42 500	2 440	6 182	5 971	1.94	2.24
February	232 300	15 800	3 900	8 296	8 212	2.67	2.78
March	224 800	12 200	3 400	7 252	7 307	2.38	2.74
April	225 400	13 800	4 150	7 513	8 133	2.64	2.94
May	134 470	8 700	2 120	4 338	4 389	1.43	1.65
June	123 190	10 600	1 800	4 106	3 600	1.17	1.30
July	203 710	27 500	2 120	6 571	6 675	2.17	2.50
August	211 550	41 000	2 700	6 824	6 050	1.97	2.27
September	308 210	89 000	1 640	10 270	9 998	3.25	3.63
Water year 1937-38	2 357 770	89 000	1 320	6 460	6 415	2.09	28.31
October 1938	101 010	5 700	2 110	3 258	2 643	.859	.99
November	150 450	11 100	2 460	5 015	4 985	1.62	1.81
December	333 480	41 600	2 500	10 760	11 543	3.75	4.32
Calendar year 1938	2 440 210	89 000	1 640	6 686	6 612	2.15	29.17
January 1939	119 620	7 700	2 290	3 859	3 803	1.24	1.43
February	264 870	33 200	2 660	9 460	10 254	3.33	3.47
March	371 500	26 800	4 600	11 980	12 422	4.04	4.66
April	414 250	23 000	7 400	13 810	14 018	4.56	5.09
May	119 220	7 250	2 080	3 846	3 501	1.14	1.31
June	53 261	2 380	981	1 775	1 322	.430	.48
July	37 524	1 760	437	1 210	714	.232	.27
August	40 136	3 490	627	1 295	775	.252	.29
September	31 574	1 820	428	1 052	586	.190	.21
Water year 1938-39	2 036 895	41 600	428	5 581	5 512	1.79	24.33
October 1939	78 608	7 160	828	2 536	2 270	.738	.85
November	161 710	10 700	2 410	5 390	5 413	1.76	1.96
December	111 310	9 350	2 260	3 591	3 568	1.16	1.34
Calendar year 1939	1 803 583	33 200	428	4 941	4 838	1.57	21.36
January 1940	47 450	2 460	1 040	1 531	1 503	.489	.56
February	43 520	2 200	980	1 501	1 595	.519	.56
March	190 030	75 800	1 600	6 130	7 373	2.40	2.77
April	822 090	86 900	8 490	27 400	28 964	9.42	10.51
May	204 830	9 510	3 790	6 607	6 696	2.18	2.51
June	125 620	9 720	1 380	4 187	3 982	1.29	1.44
July	77 430	5 920	1 490	2 498	2 062	.670	.77
August	47 535	2 310	652	1 533	793	.258	.30
September	98 800	17 300	1 320	3 293	3 549	1.15	1.28
Water year 1939-40	2 008 933	86 900	652	5 489	5 617	1.83	24.85

*Adjusted for change in contents in Lake Wallenpaupack and in Toronto, Cliff Lake, and Swinging Bridge Reservoirs.

Note.- Data republished from United States Geological Survey Water-Supply Papers 781, 801, 821, 851, 871, and 891 and data furnished by A. W. Harrington, district engineer, United States Geological Survey, Albany, N.Y. Records of adjusted monthly discharge computed from above base data.

Delaware River at Montague *

Location.- Wire-weight gage to Feb. 8, 1940 and water-stage recorder thereafter, lat. 41°18'30", long. 74°47'50", at bridge at Montague, Sussex County, three-quarters of a mile downstream from Saw Kill. Datum of wire-weight gage was 299.93 feet above mean sea level and datum of water-stage recorder is 369.93 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 3,480 square miles.

Records available.- March 1936 to February 1940 (gage heights only) and February to September 1940.

Extremes.- February to September 1940: Maximum discharge, 123,100 second-feet Apr. 1, 1940 (gage height, 24.33 feet); minimum, 640 second-feet Aug. 26, 1940 (gage height, 4.12 feet); minimum daily, 825 second-feet Aug. 26, 1940.
Maximum stage known, 35.5 feet (water-stage recorder datum) Oct. 10, 1903, from floodmark.
Gage height of 28.45 feet (water-stage recorder datum) was observed at 9 p.m. Mar. 18, 1936 (discharge, 164,500 second-feet, from rating curve developed in 1940).

Remarks.- Wire-weight gage read twice daily except during periods of gage heights above 79.0 feet, when it was read hourly from 7 a.m. to 6 p.m. In tables of daily gage heights, those for March 1936 to September 1937 are mean gage heights of two or more readings daily, and those since Oct. 1, 1937 are gage heights at 8 a.m. Diurnal fluctuation at medium and low stages caused by power plants on tributary streams. Flow regulated by Lake Wallenpaupack and Toronto, Cliff Lake, and Swinging Bridge Reservoirs on Mongaup River, which have a combined capacity of 12,300,000,000 cubic feet.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	-	76.85	75.20	75.24	74.90	75.55
2						-	78.55	76.60	75.55	74.90	74.40	75.15
3						-	79.02	76.25	75.54	75.20	73.90	74.90
4						-	78.78	76.45	75.60	74.95	75.10	74.75
5						79.00	78.35	76.40	75.45	74.54	75.00	74.55
6						79.35	79.05	76.25	75.40	74.40	74.85	74.60
7						79.15	82.20	76.14	74.80	75.19	74.95	74.70
8						79.45	80.95	76.04	74.70	74.84	75.84	74.60
9						79.75	80.00	76.04	75.40	75.20	75.20	75.05
10						79.22	79.55	76.15	75.35	75.10	74.30	75.20
11						82.91	79.94	75.85	75.15	75.20	74.95	75.20
12						93.59	79.72	75.80	75.40	74.90	75.15	75.15
13						89.39	80.00	75.84	75.35	74.40	75.05	74.50
14						83.97	81.15	76.60	74.60	75.14	75.15	74.50
15						81.78	80.60	76.40	75.50	75.05	75.25	74.80
16						82.08	80.35	76.14	75.25	75.00	74.70	74.80
17						86.06	79.55	76.39	75.30	74.90	74.55	75.28
18						94.98	79.04	75.75	75.10	74.85	74.50	74.35
19						94.04	78.55	75.94	76.90	74.90	74.35	75.05
20						88.57	78.20	75.84	77.55	74.05	74.70	74.45
21						85.38	77.85	76.04	76.80	74.90	75.00	74.25
22						85.45	77.87	75.85	76.15	75.00	74.40	75.00
23						82.92	78.00	75.65	75.75	75.15	75.20	74.72
24						81.47	77.55	75.50	75.45	75.34	76.00	74.45
25						-	77.25	75.45	75.45	74.85	75.94	74.50
26						-	76.95	75.60	75.30	74.45	75.60	74.24
27						-	76.75	75.58	75.20	74.15	75.15	74.20
28						-	76.70	75.58	75.45	74.85	74.90	74.04
29						-	76.50	75.60	74.90	74.60	75.20	74.50
30						-	76.50	75.45	75.04	74.95	75.50	74.95
31						-		75.24		74.90	75.65	

* Published as Delaware River at Milford, Pa., in United States Geological Survey Water-Supply Papers 801, 821, 851, 871, and 891.

Delaware River at Montague--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75.60	75.80	75.45	78.30	77.60	77.15	77.25	77.75	75.90	76.65	74.85	75.80
2	75.35	75.60	75.30	78.30	77.30	77.05	77.70	77.45	76.05	77.28	75.08	75.70
3	74.70	75.55	75.30	77.40	77.20	76.95	77.90	77.00	75.75	77.00	75.30	75.67
4	75.20	75.70	75.25	77.95	76.75	76.65	77.50	76.95	75.90	76.75	75.15	75.60
5	74.60	78.28	75.35	77.65	76.35	76.70	77.40	76.80	75.90	76.55	75.05	75.24
6	74.50	81.25	75.35	77.10	76.45	77.10	78.40	76.60	75.60	76.25	74.95	76.08
7	74.55	79.20	75.45	77.00	76.40	76.65	83.35	76.85	76.62	76.20	75.45	76.65
8	74.40	78.25	76.30	76.80	76.20	76.35	81.45	76.70	77.65	75.90	75.00	76.20
9	74.59	77.75	76.55	77.40	76.30	76.35	80.50	76.60	76.88	75.80	74.50	75.95
10	74.70	77.40	76.35	77.65	76.95	76.25	81.25	76.30	76.30	75.60	75.60	75.60
11	74.60	76.94	76.45	77.60	77.35	75.95	79.78	76.25	75.98	75.20	75.65	75.65
12	74.35	76.70	80.65	77.30	76.55	75.65	78.85	76.20	75.90	75.35	75.70	75.25
13	75.34	76.50	80.05	77.05	76.30	75.75	78.50	75.90	75.70	75.80	76.25	75.20
14	74.80	76.25	78.15	77.00	76.50	75.70	78.25	76.45	75.60	75.50	76.78	76.20
15	74.65	76.10	77.90	77.30	77.95	75.90	78.45	79.80	76.25	75.60	76.00	76.42
16	74.35	76.05	77.40	78.80	77.55	75.85	80.05	82.00	76.50	76.10	75.75	76.45
17	74.90	76.04	77.20	78.15	76.85	75.60	79.78	80.35	76.15	75.92	75.60	76.15
18	75.65	75.90	77.35	78.15	76.60	75.45	78.90	79.60	75.92	75.55	75.52	76.00
19	75.90	75.60	77.10	80.04	76.45	75.85	78.80	79.20	75.98	75.40	75.55	75.50
20	76.01	75.50	77.45	79.12	76.45	75.70	78.70	78.55	76.08	75.65	75.30	75.70
21	75.75	75.30	78.70	78.25	76.45	76.20	78.40	78.25	76.10	75.55	75.05	75.92
22	75.50	75.35	78.00	78.82	83.10	77.20	79.85	77.98	78.60	75.48	75.15	75.88
23	75.35	75.30	77.60	81.09	83.60	77.45	81.70	77.70	79.90	75.35	75.30	75.75
24	75.35	75.40	76.95	79.65	80.50	77.45	80.80	77.55	78.45	75.30	75.50	75.20
25	75.65	75.20	76.85	80.45	79.25	77.60	79.60	77.12	77.78	74.95	75.35	75.25
26	76.20	75.20	76.75	82.80	78.50	77.85	78.80	76.90	76.92	74.80	75.12	75.15
27	76.09	75.25	76.80	80.75	78.10	77.25	78.45	76.65	76.35	75.10	75.75	75.18
28	76.50	75.35	77.10	79.24	77.45	76.95	78.65	76.80	76.45	75.30	77.05	75.55
29	76.14	76.20	77.45	78.65	-	76.60	78.60	76.65	76.70	75.40	77.35	75.75
30	76.10	75.40	77.20	78.25	-	76.50	78.25	76.35	76.70	75.10	76.40	75.50
31	75.90	-	77.10	78.85	-	76.80	-	76.20	-	75.55	75.92	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75.75	76.95	77.45	76.45	78.35	76.25	77.15	76.45	76.00	76.85	76.65	-
2	75.35	76.75	77.00	75.75	78.15	76.85	77.15	76.00	75.90	76.45	-	-
3	74.65	76.65	76.85	75.83	76.95	76.35	76.85	76.00	75.00	76.25	-	-
4	74.75	76.45	76.75	76.24	77.15	76.65	76.65	76.00	75.85	76.25	-	-
5	75.45	76.35	76.35	76.44	78.00	76.35	76.85	75.85	75.75	75.65	-	-
6	75.65	76.25	76.35	76.25	77.34	75.95	76.65	75.65	75.55	75.65	-	-
7	75.35	76.00	76.65	76.44	77.75	78.65	76.55	75.55	75.65	75.65	-	-
8	75.55	75.85	76.65	76.93	80.20	77.35	76.45	75.45	75.85	75.65	-	-
9	75.45	75.85	76.45	77.25	78.65	77.15	76.75	75.15	76.00	75.55	-	-
10	74.95	75.85	76.35	76.44	78.45	76.65	79.75	75.35	75.95	75.95	-	-
11	74.65	75.65	75.75	76.55	78.95	76.55	79.55	75.75	75.65	75.35	-	-
12	75.25	75.55	75.55	76.75	78.00	76.55	78.85	75.55	75.15	76.00	-	-
13	75.25	75.65	76.35	76.75	77.45	76.15	78.85	75.45	75.35	75.95	-	-
14	75.65	79.85	76.65	76.35	78.95	76.25	78.65	75.15	78.55	75.75	-	-
15	75.15	79.55	76.65	76.35	78.85	78.00	78.25	75.25	77.15	75.65	-	-
16	75.65	78.65	77.00	75.45	78.10	77.45	77.85	77.35	76.65	75.35	-	-
17	74.85	77.95	76.65	75.65	77.75	77.45	77.95	77.75	76.15	75.15	-	-
18	74.65	77.65	77.00	77.00	77.65	78.15	77.35	76.85	75.85	75.15	-	-
19	75.54	77.25	81.55	77.05	77.55	78.95	77.75	76.45	75.65	75.95	-	-
20	76.03	77.15	79.90	76.55	77.75	78.65	78.15	76.25	75.45	75.85	-	-
21	78.25	76.95	78.75	76.25	77.45	78.55	77.85	76.15	75.95	76.25	-	-
22	77.39	76.85	78.25	76.75	77.35	78.75	78.75	77.75	75.75	76.85	-	-
23	76.73	76.65	77.65	76.00	77.15	78.55	77.75	76.25	75.85	83.35	-	87.25
24	84.13	76.55	77.45	76.00	77.15	78.45	77.65	76.45	75.85	83.40	-	83.00
25	81.05	76.45	77.00	77.65	77.00	78.45	77.00	77.75	75.85	80.80	-	81.15
26	78.85	76.15	76.85	87.50	76.85	78.00	76.90	77.65	75.75	78.95	-	80.03
27	77.95	76.00	76.75	81.55	76.35	77.65	76.85	77.25	75.65	78.00	-	79.04
28	77.35	76.35	76.55	79.65	76.15	77.55	76.75	76.85	78.10	77.55	-	78.55
29	77.85	77.35	76.73	78.55	-	77.35	76.35	76.65	78.95	77.15	-	78.37
30	78.15	77.85	76.44	78.15	-	77.25	76.35	76.45	77.65	77.55	-	77.92
31	78.25	-	76.35	77.34	-	77.15	-	76.15	-	77.25	-	-

Delaware River at Montague--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	77.72	75.65	76.65	76.00	77.00	80.15	80.25	77.35	75.25	75.15	75.15	74.35
2	77.43	76.15	76.45	75.55	77.00	80.40	80.00	77.15	75.25	74.55	74.65	74.15
3	77.20	75.85	76.25	75.65	77.15	78.95	81.60	77.00	75.00	74.85	74.60	74.25
4	76.25	76.00	76.95	76.45	77.55	78.75	80.20	76.75	75.15	74.65	74.35	74.25
5	76.15	75.85	79.55	75.75	77.25	78.45	79.35	76.45	74.65	74.25	74.55	74.00
6	76.00	75.85	84.15	76.35	77.35	78.85	78.85	76.35	74.85	74.25	74.25	74.55
7	76.44	76.55	86.05	77.00	77.35	80.70	80.45	76.25	74.95	74.15	74.55	74.85
8	75.85	76.75	82.25	77.75	77.35	79.75	80.35	75.90	74.95	74.75	75.15	75.25
9	75.65	76.55	80.65	77.15	76.85	78.85	79.55	76.25	74.65	74.45	75.15	75.30
10	75.55	76.85	80.30	76.85	76.75	78.45	78.85	76.35	75.15	74.35	74.65	74.65
11	75.90	76.85	82.65	77.00	77.00	78.00	78.60	76.35	75.15	75.00	74.45	74.15
12	75.45	76.55	81.00	77.15	76.75	77.90	78.85	76.35	74.55	75.35	74.25	75.00
13	75.35	76.25	79.95	76.95	76.75	77.75	79.50	75.85	75.45	75.35	74.35	75.15
14	76.00	76.25	78.95	77.15	76.85	77.45	78.85	75.55	75.55	74.95	74.15	74.75
15	75.95	76.85	78.55	77.15	76.75	77.45	78.65	75.55	74.75	75.25	75.15	74.15
16	75.45	76.55	77.65	77.15	80.15	77.10	79.25	75.75	75.00	74.00	75.15	74.25
17	75.15	76.65	77.65	77.00	82.00	77.45	78.85	a75.90	75.00	74.25	75.15	74.15
18	75.65	76.50	77.45	76.55	79.85	77.25	78.75	75.85	75.35	75.00	75.15	74.15
19	75.85	76.35	77.25	76.55	78.95	77.15	78.75	75.65	74.55	75.00	75.00	74.85
20	75.85	77.00	77.00	76.55	78.65	76.55	79.45	75.45	75.35	74.15	74.45	74.75
21	76.00	78.80	76.75	76.15	85.25	77.15	79.35	75.25	75.25	74.75	74.15	74.85
22	76.15	77.85	76.65	75.85	82.10	76.75	78.85	75.35	75.35	74.80	75.00	75.00
23	75.55	77.55	76.65	75.75	80.65	76.65	79.25	76.25	75.35	74.15	75.00	74.85
24	75.35	77.25	76.35	76.00	79.55	76.35	78.65	76.00	74.75	73.95	75.00	74.35
25	76.45	77.15	76.05	75.65	78.65	77.35	78.35	76.00	74.65	75.00	75.65	74.15
26	76.45	77.15	76.00	76.45	77.85	79.65	78.25	75.65	74.45	75.00	75.75	74.65
27	76.25	76.75	76.15	76.65	78.90	81.35	78.00	75.55	74.55	75.15	74.95	74.85
28	76.45	76.65	76.65	76.35	79.90	81.85	77.95	75.35	74.85	75.25	74.55	75.15
29	76.45	76.45	76.00	76.55	-	81.95	78.00	75.25	74.35	75.15	75.00	74.55
30	76.00	76.55	76.25	76.45	-	80.35	77.35	75.15	75.00	74.75	74.95	75.35
31	75.85	-	76.00	77.15	-	80.40	-	75.15	-	74.55	75.00	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75.15	77.75	75.15	76.85	76.75	75.95	83.32	77.96	78.54	76.58	75.64	77.43
2	75.00	78.80	75.00	76.95	76.65	75.95	85.70	78.11	78.64	77.20	75.43	81.25
3	76.00	77.75	75.25	76.65	76.25	75.80	83.43	78.50	78.47	76.80	75.40	78.86
4	76.00	77.25	75.35	76.45	76.25	76.00	82.90	78.26	77.98	76.37	74.72	77.45
5	76.13	76.75	76.15	76.35	76.25	76.30	84.52	78.09	77.76	76.13	74.40	76.57
6	75.65	76.95	75.85	76.95	76.15	76.80	84.09	77.46	77.19	75.94	75.40	76.10
7	75.65	77.30	75.75	76.25	76.25	77.10	83.23	77.37	76.87	75.77	75.43	75.82
8	75.15	77.15	75.55	76.00	76.15	77.00	83.03	77.20	76.52	75.57	75.42	75.27
9	75.00	77.15	75.55	76.55	75.78	76.75	89.03	76.98	76.23	75.70	75.17	75.33
10	75.65	77.40	75.45	76.55	75.52	76.60	86.54	76.89	76.34	75.73	75.55	75.53
11	74.95	77.00	75.35	76.45	75.86	76.40	83.40	76.63	76.40	75.80	74.82	75.55
12	75.15	76.85	76.00	76.35	75.68	76.45	82.11	76.35	76.33	75.65	74.45	75.39
13	74.55	77.00	75.85	76.25	76.07	76.20	83.87	76.20	76.32	76.09	75.33	75.45
14	74.65	76.95	75.55	76.25	76.72	76.10	82.24	76.09	76.28	75.74	75.37	75.30
15	74.35	76.75	75.65	77.00	76.75	77.70	80.75	76.13	75.94	75.51	75.30	75.09
16	74.35	76.35	75.25	77.15	76.50	78.40	80.09	76.04	75.71	75.50	75.35	74.96
17	75.15	76.25	75.25	77.15	76.33	78.65	79.70	78.03	75.62	75.36	75.36	75.21
18	75.15	76.35	75.35	77.55	76.09	78.80	79.27	78.42	75.86	75.40	75.13	75.22
19	74.85	76.00	75.65	77.25	76.11	78.55	80.24	77.83	75.73	75.51	74.58	75.18
20	74.55	75.85	75.65	76.85	76.38	78.70	80.50	77.12	75.75	75.42	75.35	75.18
21	74.85	76.35	77.65	77.15	76.23	79.15	83.32	77.68	75.54	74.95	75.22	75.16
22	74.35	76.25	78.75	77.45	76.35	78.35	83.87	78.05	75.37	74.85	75.22	75.05
23	75.65	75.85	77.55	77.25	76.26	78.17	82.32	77.94	75.00	75.54	75.27	74.80
24	75.55	75.45	77.65	77.45	76.25	77.78	81.03	77.72	75.11	75.49	75.22	75.15
25	75.45	75.75	76.55	77.25	76.10	77.16	80.24	77.61	76.07	75.52	74.27	75.08
26	75.25	75.95	76.45	77.25	76.05	76.95	79.47	77.51	76.52	75.42	74.55	75.24
27	75.35	75.25	77.00	77.00	76.15	77.01	79.01	78.06	76.32	75.24	75.32	75.10
28	76.15	75.75	76.25	76.95	76.05	76.34	78.66	77.99	76.05	75.29	75.53	75.05
29	77.25	75.45	76.00	76.95	76.00	76.67	78.12	77.97	76.08	74.91	75.67	74.90
30	77.00	75.25	77.25	76.65	-	76.62	78.16	78.04	77.08	75.61	75.19	74.94
31	77.00	-	76.75	76.75	-	89.95	-	77.89	-	75.59	75.62	-

Note.- Gage heights for Dec. 28 to Feb. 8 and Feb. 22 to Mar. 26 are readings to top of ice. Gage heights are to wire-weight gage datum.

Delaware River at Montague--Continued

Daily discharge, in second-feet, 1940

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	b1 700	97 900	9 960	10 800	5 690	2 640	15 400
2					-	b1 700	46 800	10 800	11 900	7 120	2 240	21 700
3					-	b1 700	34 700	11 700	11 500	5 800	2 080	12 500
4					-	b2 000	33 400	10 600	9 500	4 770	1 230	7 680
5					-	b2 500	42 800	9 680	8 060	4 180	1 330	5 700
6					-	b3 200	37 600	8 600	7 390	3 730	2 150	4 340
7					-	b3 700	33 300	7 850	6 380	3 310	2 360	3 640
8					-	b3 600	36 500	7 210	5 300	3 010	2 090	2 890
9					b1 500	b3 200	74 600	6 780	4 460	3 150	2 040	2 670
10					b1 500	b2 900	53 200	6 180	4 880	3 040	2 230	2 890
11					b1 500	b2 700	35 600	5 390	5 340	2 810	1 280	2 870
12					b1 500	b2 500	31 300	4 780	5 010	3 240	1 030	2 740
13					b1 700	b2 400	37 500	4 540	5 050	3 940	1 900	2 650
14					b2 600	b2 400	27 900	4 650	4 370	3 150	1 970	2 360
15					b2 500	b4 000	21 600	4 620	3 810	2 860	1 850	1 900
16					b2 100	b8 000	18 900	4 830	3 250	2 650	1 890	1 890
17					b1 950	b7 200	16 800	10 200	3 200	2 430	1 980	2 200
18					b1 850	b6 800	16 500	10 700	3 470	2 360	1 560	1 950
19					b2 000	b6 600	20 400	8 390	3 240	2 670	1 120	2 040
20					b2 250	b8 000	22 400	7 350	3 050	2 330	1 920	2 030
21					b2 250	b11 000	37 600	9 610	2 640	1 930	1 730	1 990
22					b2 200	b10 500	37 900	10 000	2 430	1 690	1 660	1 790
23					b2 150	9 830	28 600	9 760	1 860	2 520	1 740	1 580
24					b2 050	8 260	22 500	8 920	2 260	2 530	1 570	1 870
25					b1 950	6 940	18 600	8 390	5 210	2 460	872	1 930
26					b1 850	6 270	15 800	8 360	5 660	2 170	825	2 110
27					b1 800	5 800	13 400	10 600	4 800	2 230	1 820	2 160
28					b1 800	5 390	11 700	10 300	4 220	2 130	2 210	2 030
29					b1 750	5 740	10 800	9 790	5 660	1 640	2 750	1 790
30					-	7 770	10 300	9 470	6 610	2 840	2 310	1 610
31					-	90 900	-	9 960	-	2 850	2 590	-

b Stage-discharge relation affected by ice.

Monthly discharge, in second-feet, 1940

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
February 9-29	40 750	2 600	1 500	1 940	-	-	-
March	245 200	90 900	1 700	7 910	9 153	2.63	3.03
April	946 900	97 900	10 300	31 560	33 120	9.52	10.62
May	259 970	11 700	4 540	8 386	8 475	2.44	2.81
June	161 310	11 900	1 860	5 377	5 172	1.49	1.66
July	97 230	7 120	1 640	3 136	2 700	.776	.89
August	56 967	2 750	825	1 838	1 097	.315	.36
September	120 900	21 700	1 580	4 030	4 286	1.23	1.37

*Adjusted for change in contents in Lake Wallenpaupack and in Toronto, Cliff Lake, and Swinging Bridge Reservoirs on Mongaup River.

Delaware River at Dingmans Ferry, Pa.

Location.- Wire-weight gage, lat. 41°13'12", long. 74°51'40", on bridge at Dingmans Ferry, Pike County. Datum of gage is 286.06 feet above mean sea level (United States Coast and Geodetic Survey datum).

Records available.- November 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 88.70 feet 11 p.m. Mar. 31, 1940; minimum observed, 68.73 feet July 24, 1939.
Maximum stage known, 98.3 feet Oct. 10, 1903, from floodmark.

Remarks.- Gage read twice daily except during periods of gage heights above 75.0 feet, when it was read hourly between 7 a.m. and 9 p.m. In tables, figures for November 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	70.74	74.15	73.54	72.92	73.02	73.57	71.52	72.59	70.28	71.40
2		-	70.22	74.18	73.40	72.91	73.59	73.18	71.72	73.05	70.38	71.17
3		-	70.52	73.64	73.10	72.74	73.85	72.52	71.44	72.94	70.25	71.10
4		-	70.70	73.78	72.50	72.34	73.40	72.68	71.60	72.62	70.80	71.02
5		-	71.00	73.54	72.44	72.42	73.22	72.50	71.51	72.25	70.50	70.58
6		-	70.82	73.06	72.42	72.87	75.05	72.33	71.40	71.94	70.44	71.41
7		-	71.02	72.68	72.10	72.38	79.30	72.48	72.26	71.88	70.74	72.59
8		-	71.76	72.69	71.85	72.02	77.38	72.41	73.48	71.68	70.26	71.81
9		-	71.92	73.15	72.13	72.14	76.32	72.25	72.64	71.57	69.62	71.55
10		-	71.88	73.48	72.59	71.76	77.05	72.02	72.11	71.28	71.02	71.44
11		-	71.94	73.50	73.20	71.56	75.77	72.04	71.80	71.10	71.36	71.32
12		-	75.96	73.12	72.37	71.28	74.94	71.92	71.68	70.98	71.26	70.90
13		-	75.73	72.86	72.02	71.40	74.48	71.62	71.42	71.56	71.98	70.74
14		-	74.36	72.74	72.24	71.40	74.16	72.07	71.09	71.32	72.64	71.65
15		-	73.55	73.08	73.74	71.51	74.26	75.35	72.04	71.11	72.05	71.96
16		-	73.26	74.78	73.48	71.40	75.82	77.80	72.12	71.60	71.18	72.11
17		-	72.98	74.12	72.76	71.36	75.76	76.28	71.88	71.70	71.06	71.70
18		71.20	73.05	73.70	72.42	71.27	74.92	75.53	71.55	71.22	71.24	71.48
19		71.14	72.80	75.80	72.11	71.53	74.73	75.08	71.86	70.80	71.00	71.34
20		70.68	73.21	75.12	72.16	71.44	74.60	74.46	72.08	70.85	70.80	71.28
21		71.30	74.60	74.52	72.20	71.88	74.16	74.08	72.02	71.02	70.68	71.56
22		70.92	73.95	75.18	78.50	72.98	75.80	73.72	74.30	70.78	70.38	71.50
23		70.89	73.39	77.10	79.50	73.28	77.62	73.34	75.97	70.75	70.84	71.30
24		70.72	72.66	75.70	76.45	73.27	76.72	73.42	74.34	70.58	70.88	71.08
25		70.72	72.65	76.20	75.25	73.54	75.50	72.90	73.42	70.26	70.76	70.36
26		70.53	72.60	78.62	74.46	73.79	74.62	72.58	72.86	70.00	70.55	70.59
27		70.44	72.64	76.66	73.95	73.16	74.43	72.45	72.31	70.29	70.86	70.28
28		70.55	72.85	75.35	73.30	72.76	74.56	72.75	72.08	70.70	72.47	71.02
29		71.22	73.32	74.62	-	72.41	74.48	72.45	72.44	70.75	73.16	71.13
30		70.44	73.06	74.20	-	72.28	74.02	72.02	72.54	70.36	72.05	71.10
31		-	73.40	73.86	-	72.44	-	71.70	-	70.94	71.34	-

Delaware River at Dingmans Ferry, Pa.--Continued

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71.27	72.80	73.39	71.83	74.05	72.38	72.85	71.95	71.75	72.95	72.54	71.60
2	70.94	72.61	73.00	71.64	73.86	72.10	72.80	71.74	71.84	72.15	72.67	71.44
3	70.18	72.40	72.75	71.55	72.85	72.12	72.66	71.85	71.83	72.05	72.83	71.48
4	70.12	72.22	72.55	71.75	73.15	72.15	72.48	71.20	71.76	72.05	72.54	70.60
5	70.90	72.10	72.20	72.00	74.18	71.93	72.45	71.97	71.42	71.57	72.22	70.44
6	71.00	71.85	72.16	72.10	73.23	71.57	72.33	71.85	70.95	71.37	71.80	70.30
7	71.02	71.63	72.44	72.30	73.50	74.30	72.45	71.16	71.52	71.87	71.78	71.26
8	71.05	71.48	72.33	72.80	76.05	73.60	72.18	71.05	71.54	71.58	71.65	71.36
9	70.72	71.43	72.91	72.68	74.77	72.90	72.63	70.96	71.64	71.75	72.65	71.33
10	70.10	71.38	71.86	72.18	74.72	72.40	75.67	71.05	71.65	71.89	73.68	71.45
11	69.88	71.22	71.50	72.15	74.35	72.28	75.45	71.51	71.44	71.03	73.06	71.09
12	70.78	71.00	71.40	72.25	74.15	72.80	74.97	71.40	70.67	72.10	82.40	70.42
13	70.80	71.16	71.45	72.22	73.53	71.65	74.85	71.27	71.05	71.96	76.55	71.25
14	71.12	75.60	71.84	72.24	74.95	72.05	74.57	70.86	74.35	71.70	74.65	71.28
15	70.66	75.60	72.10	71.84	74.90	74.10	74.35	71.25	73.03	71.60	73.63	71.42
16	70.95	74.50	72.25	71.50	74.30	73.55	74.00	73.26	72.36	71.10	73.45	71.80
17	69.95	74.00	72.04	71.28	73.77	73.37	73.90	73.67	72.12	71.05	73.14	71.96
18	69.75	73.56	73.70	72.24	73.53	74.10	73.24	72.65	71.85	70.54	72.93	71.55
19	71.00	73.22	76.95	72.05	73.60	75.05	73.60	72.35	71.20	71.05	72.33	71.12
20	71.26	73.12	75.78	72.22	73.82	74.53	74.17	72.14	70.97	71.84	72.54	72.42
21	73.75	72.80	74.56	71.98	73.35	74.35	73.84	72.04	71.76	72.15	72.45	74.60
22	73.30	72.62	74.10	72.10	73.28	74.54	73.55	71.93	71.74	73.15	71.63	85.22
23	72.52	72.68	73.50	71.33	73.10	74.53	73.77	72.03	71.64	79.28	71.97	83.10
24	79.38	72.43	73.24	71.37	72.90	74.35	73.65	72.24	71.55	79.20	72.05	78.80
25	77.07	72.28	72.85	73.25	72.61	74.50	72.94	73.55	71.48	76.80	71.70	76.60
26	74.85	71.51	72.55	83.95	72.44	74.04	72.70	73.57	71.39	75.04	71.63	75.20
27	73.90	71.66	72.30	77.55	71.95	73.48	72.57	73.03	71.25	74.06	71.75	74.50
28	73.42	72.02	72.45	75.45	72.00	73.35	72.47	72.67	74.05	73.50	71.57	74.00
29	73.70	73.10	72.30	74.41	-	73.25	72.33	72.52	75.28	73.08	70.75	73.55
30	73.93	73.86	71.82	73.90	-	73.12	72.20	72.16	73.60	73.10	71.60	73.20
31	73.37	-	71.92	73.15	-	72.97	-	71.82	-	73.05	71.62	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72.96	71.15	72.30	71.38	72.16	75.97	76.18	72.95	71.15	70.37	70.20	69.35
2	72.54	71.05	72.36	71.30	71.86	76.26	75.85	72.97	70.74	69.85	69.65	69.25
3	72.15	71.35	72.04	71.30	72.15	75.20	77.45	72.65	70.42	70.25	69.32	69.23
4	72.03	71.50	72.62	71.60	72.06	74.61	76.16	72.44	70.55	70.10	69.35	69.20
5	71.83	71.69	75.00	71.35	72.55	74.57	75.35	72.30	70.50	69.79	69.65	69.60
6	71.55	71.12	79.40	71.87	72.20	74.48	74.63	72.20	70.62	69.65	69.25	69.37
7	72.15	72.95	81.75	72.93	72.34	76.46	76.26	71.98	70.57	69.50	69.55	70.00
8	71.55	72.55	78.10	73.70	72.07	75.65	76.35	71.58	70.10	69.70	70.05	70.25
9	71.56	72.15	76.48	72.90	71.72	74.73	75.37	72.00	70.05	69.84	70.25	70.35
10	71.26	72.54	76.12	72.76	71.45	74.43	74.84	72.05	70.08	69.66	69.85	69.62
11	71.10	72.67	78.42	72.87	71.93	74.10	74.55	72.16	70.65	69.60	69.27	69.20
12	71.32	72.18	76.78	73.10	71.78	73.36	74.65	72.20	69.92	70.68	69.30	69.45
13	70.90	72.00	75.80	72.79	71.61	73.47	75.45	71.73	71.07	69.76	69.37	70.00
14	70.67	71.92	74.91	72.85	71.58	73.74	74.94	71.12	70.23	69.68	69.30	69.45
15	71.53	72.54	74.38	72.44	71.86	73.41	74.61	71.05	70.35	70.40	70.20	69.27
16	71.06	72.45	73.55	72.05	72.80	73.20	75.12	71.57	70.44	69.28	70.15	69.20
17	70.65	72.26	73.55	73.15	77.55	73.43	74.80	71.63	70.85	69.20	70.23	68.90
18	71.03	72.05	73.34	73.05	75.46	73.20	74.73	71.55	70.99	69.40	69.95	69.05
19	71.47	71.77	73.04	73.24	74.92	72.66	74.77	71.36	69.82	69.65	69.05	69.05
20	71.53	72.52	72.76	72.95	74.52	72.25	75.43	71.05	70.60	69.15	69.40	69.47
21	71.63	74.03	72.73	72.98	80.60	72.53	75.37	70.74	70.10	69.10	68.98	69.95
22	71.75	73.95	72.43	72.33	77.96	72.32	74.85	70.87	71.03	70.00	70.05	69.36
23	71.03	73.43	72.28	71.55	76.20	72.05	75.06	71.36	71.07	69.08	69.89	69.76
24	70.87	73.45	72.06	72.25	75.35	71.97	74.58	71.75	69.90	68.73	69.80	69.15
25	72.10	72.95	71.94	72.60	74.46	72.80	74.60	71.63	69.95	69.25	70.20	69.00
26	72.46	72.76	71.68	72.05	73.88	75.18	74.25	71.33	69.40	69.62	71.40	69.15
27	71.78	72.66	71.55	72.36	74.68	77.05	74.00	71.07	69.55	69.95	70.25	69.37
28	71.95	72.35	71.76	72.16	75.95	77.54	73.82	70.91	70.08	70.15	69.55	70.35
29	71.13	72.45	71.66	71.55	-	77.30	73.96	70.89	69.64	70.45	69.85	69.77
30	71.40	72.25	71.85	71.26	-	76.25	73.06	70.67	70.28	70.00	70.20	70.30
31	71.25	-	71.36	72.35	-	76.23	-	70.56	-	69.45	70.05	-

Delaware River at Dingmans Ferry, Pa.--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70.30	73.25	70.65	71.55	70.10	70.95	88.15	73.67	74.32	72.30	71.05	72.55
2	70.95	74.60	70.53	71.33	70.60	70.87	81.45	73.77	74.25	72.93	70.97	77.25
3	71.56	73.70	70.65	71.43	70.95	70.63	79.23	74.30	74.30	72.55	70.95	74.77
4	71.40	73.10	70.90	71.38	70.47	70.85	78.57	74.05	73.65	72.15	70.00	73.35
5	71.91	72.60	71.65	71.22	70.43	71.05	80.05	73.90	73.30	71.70	69.45	72.35
6	71.10	72.70	71.45	71.40	70.30	71.80	79.77	73.30	73.00	71.55	70.70	71.95
7	71.15	73.15	71.32	70.85	70.70	71.90	78.90	73.00	72.75	71.35	70.90	71.65
8	70.45	72.95	71.08	70.55	70.50	71.85	78.65	72.85	72.35	71.10	70.85	71.05
9	70.42	73.00	71.00	70.82	70.53	71.15	83.85	72.65	71.85	71.50	70.90	70.90
10	71.25	73.44	70.95	70.80	70.41	71.50	82.20	72.50	71.95	71.45	71.00	71.20
11	70.40	72.95	71.05	70.65	70.75	71.55	79.15	72.28	72.25	71.35	69.95	71.15
12	70.25	72.63	71.62	70.70	70.60	71.60	77.95	71.90	72.16	71.35	69.45	71.05
13	70.96	72.78	71.13	70.55	70.90	71.25	79.53	71.80	72.15	71.84	70.30	71.10
14	69.90	72.85	71.08	70.65	70.75	71.15	78.15	72.05	72.10	71.33	70.65	70.97
15	69.80	72.55	71.00	71.30	71.90	72.75	76.62	71.85	71.75	71.10	70.30	70.60
16	69.65	72.15	70.75	72.00	71.85	73.48	76.10	71.80	71.30	71.05	70.50	70.45
17	70.65	71.97	70.74	71.90	71.66	73.80	75.82	73.45	71.15	70.95	70.47	70.70
18	70.60	71.92	70.96	72.25	71.35	73.45	73.30	73.73	71.70	70.90	70.45	70.65
19	70.05	71.65	71.10	71.85	71.05	73.53	76.15	73.60	71.55	71.25	69.55	70.65
20	69.60	71.50	71.05	71.37	71.22	73.15	76.35	72.95	71.45	71.20	70.75	70.55
21	69.68	72.05	72.86	71.55	71.18	73.75	78.85	73.30	71.10	70.40	70.40	70.45
22	69.55	71.83	74.55	71.45	71.70	74.05	79.65	73.80	71.00	70.20	70.35	70.47
23	70.95	71.30	73.58	71.24	71.50	73.60	78.15	73.72	70.50	71.20	70.05	69.80
24	71.00	71.05	73.25	71.15	71.32	73.20	76.90	73.50	70.42	71.15	70.07	70.55
25	71.00	71.00	72.30	71.20	70.80	72.60	76.15	73.45	71.90	71.20	69.95	70.45
26	70.70	71.10	72.05	71.20	71.25	72.43	75.45	73.30	72.30	70.00	69.30	70.65
27	70.75	70.77	72.18	71.05	71.20	72.20	75.00	73.70	72.15	71.13	70.15	70.12
28	71.72	71.35	72.00	70.75	71.05	71.85	74.55	73.85	71.95	70.40	71.05	70.80
29	73.00	71.05	71.25	70.65	71.15	72.30	73.95	73.55	71.85	70.15	71.40	70.40
30	72.87	70.68	71.28	71.15	-	72.36	74.00	73.85	72.90	71.20	70.95	70.17
31	72.80	-	71.65	71.15	-	83.20	-	73.50	-	71.10	71.37	-

Delaware River at Portland, Pa.

Location.- Wire weight gage, lat. 40°55'30", long. 75°05'55", on highway bridge at Portland, Northampton County. Datum of gage is 199.53 feet above mean sea level (United States Coast and Geodetic Survey datum).

Records available.- March 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 92.90 feet at 2 a.m. Mar. 19, 1936; minimum observed, 69.08 feet Aug. 5, 1940.
Maximum stage known, 96.6 feet Oct. 10, 1903, from floodmark.

Remarks.- Gage read twice daily except during periods of gage heights above 74.6 feet, when it was read hourly. In tables, figures for March 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	73.96	71.92	70.36	70.38	69.95	70.62
2						-	73.72	71.89	70.58	70.28	69.94	70.53
3						-	73.74	71.58	70.54	70.16	69.56	70.18
4						-	73.80	71.57	70.74	70.23	69.48	70.07
5						71.60	73.25	71.86	70.58	70.07	70.02	69.98
6						71.60	74.30	71.76	70.42	70.00	70.08	70.35
7						71.74	76.80	71.52	70.32	69.96	69.92	69.81
8						71.76	76.15	71.36	70.18	70.17	70.05	69.76
9						71.66	75.15	71.31	70.05	70.02	69.95	69.80
10						71.80	74.78	71.36	70.33	70.12	69.78	70.10
11						73.43	74.81	71.23	70.29	70.16	69.81	70.09
12						85.78	74.77	71.25	70.47	70.13	69.98	70.18
13						86.03	74.80	71.10	70.48	70.00	70.06	70.15
14						79.86	75.60	71.26	70.52	69.88	70.04	69.64
15						77.30	75.36	71.78	70.46	70.09	70.16	69.63
16						76.94	75.09	71.40	70.62	70.07	70.08	69.88
17						79.39	74.58	71.14	70.54	70.06	69.76	69.92
18						87.43	74.14	70.95	70.40	69.96	69.76	69.88
19						90.69	73.72	70.60	71.46	69.89	69.76	69.73
20						84.58	73.27	71.44	73.04	69.62	69.70	70.00
21						80.24	73.06	71.23	72.70	69.52	69.84	69.68
22						80.20	72.98	71.12	71.89	70.03	69.94	69.61
23						78.21	73.20	71.01	71.58	70.03	69.79	69.89
24						76.58	72.66	70.78	71.20	70.14	70.64	69.78
25						75.78	72.38	70.64	71.49	70.18	71.34	69.78
26						75.31	72.09	70.86	70.82	69.98	70.90	69.76
27						74.80	71.95	70.75	70.66	69.80	70.48	69.60
28						75.75	71.94	70.81	70.60	69.64	70.23	69.53
29						75.76	71.85	70.76	70.44	69.95	70.10	69.49
30						74.88	71.60	70.52	70.32	70.02	70.07	69.70
31						74.33	-	70.61	-	69.94	70.30	-

Delaware River at Portland, Pa.--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70.16	70.72	70.40	72.92	73.23	72.42	72.26	73.19	71.08	72.08	70.32	71.22
2	69.94	70.66	70.20	73.39	72.87	72.32	72.48	72.68	71.30	72.09	70.08	71.08
3	70.18	70.61	70.76	73.00	72.34	72.25	73.03	72.36	71.15	72.32	70.23	70.93
4	69.95	70.55	70.42	73.00	71.70	71.99	72.66	72.36	71.18	72.03	70.28	70.79
5	69.85	70.96	70.51	72.96	71.64	71.93	72.46	72.22	71.14	71.78	70.19	70.60
6	69.84	75.74	70.49	72.50	71.70	72.19	73.72	71.98	70.98	71.50	70.17	70.63
7	69.75	74.12	70.83	72.14	71.75	71.98	77.50	72.00	71.20	71.52	70.16	71.78
8	69.81	73.18	71.07	72.19	71.53	71.63	76.62	72.10	72.70	71.36	70.10	71.50
9	69.70	72.64	71.11	72.35	71.77	71.70	75.28	71.78	72.40	71.20	69.91	71.28
10	69.90	72.37	71.36	72.66	71.82	71.47	75.71	71.54	71.84	70.85	69.86	71.07
11	70.01	72.04	71.34	72.88	72.51	71.22	75.00	71.64	71.42	70.76	70.88	70.92
12	69.82	71.68	73.42	72.58	71.74	71.12	74.14	71.53	71.30	70.67	71.12	70.62
13	69.62	71.44	75.08	72.34	71.60	70.99	73.68	71.26	71.05	71.05	71.05	70.58
14	69.88	71.26	73.63	72.16	71.66	71.14	73.34	71.40	70.87	70.96	71.82	70.93
15	69.99	71.00	72.94	72.42	72.51	71.04	73.30	73.45	71.10	70.80	71.70	71.12
16	69.86	70.86	72.60	73.67	72.88	71.08	74.30	76.32	71.58	71.04	70.98	71.82
17	69.86	71.05	72.48	73.56	72.37	70.92	74.72	75.35	71.54	71.29	70.88	71.24
18	70.40	70.94	72.38	73.26	71.90	70.95	73.96	74.42	71.08	71.01	70.86	71.21
19	70.59	70.80	72.34	74.42	71.62	70.93	73.59	74.14	71.35	70.64	70.69	70.84
20	71.08	70.65	72.56	74.39	71.55	71.09	73.72	73.62	71.28	70.66	70.46	70.86
21	70.78	70.56	74.01	73.70	71.60	71.32	73.34	73.33	71.41	70.74	70.38	70.86
22	70.54	70.48	73.96	73.92	75.00	72.14	74.20	73.02	72.55	70.58	70.30	71.08
23	70.48	70.40	72.74	76.00	79.04	72.70	76.20	72.62	74.81	70.38	72.04	70.92
24	70.44	70.51	72.28	75.20	75.82	72.59	75.80	72.52	73.66	70.40	71.71	70.64
25	70.36	70.40	72.15	75.02	74.56	72.72	74.72	72.42	72.84	70.22	71.29	70.51
26	70.98	70.32	72.16	77.25	73.86	73.20	73.87	72.17	72.24	70.09	70.98	70.40
27	71.01	70.27	72.08	76.05	73.28	72.68	73.90	71.98	71.75	70.15	70.87	70.40
28	71.36	70.22	72.18	74.78	72.81	72.30	73.94	71.89	71.47	70.40	71.44	70.43
29	71.14	70.06	72.44	73.94	-	72.00	73.93	72.00	71.76	70.32	72.36	70.59
30	70.86	70.21	72.42	73.58	-	71.79	73.59	71.54	71.92	70.32	71.84	70.52
31	70.87	-	72.22	73.30	-	71.87	-	71.32	-	70.28	71.45	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70.42	72.40	72.88	71.63	73.28	71.46	72.31	71.47	71.42	72.81	72.12	70.73
2	70.46	72.16	72.56	71.15	73.10	70.84	72.24	71.47	71.44	72.27	72.42	70.71
3	70.23	71.95	72.28	71.12	72.49	71.20	72.12	71.50	71.33	71.87	72.62	70.63
4	70.34	71.77	71.95	71.44	72.45	71.63	71.88	71.40	71.23	71.85	72.16	70.42
5	70.28	71.64	71.80	71.07	73.08	71.33	71.82	71.32	71.11	71.50	71.65	70.27
6	70.37	71.50	71.70	71.21	72.66	71.24	71.97	71.26	71.00	71.28	71.55	70.23
7	70.37	71.36	72.07	71.19	72.79	71.76	72.06	71.07	70.90	71.05	71.28	70.17
8	70.40	71.26	71.97	71.85	75.50	73.11	71.80	70.90	70.92	71.00	71.49	70.57
9	70.20	71.15	71.43	71.77	74.07	72.38	71.98	70.83	70.97	70.85	72.22	70.58
10	70.32	71.11	71.43	71.64	73.67	72.00	74.00	70.87	70.91	70.98	72.02	70.59
11	70.13	70.98	71.13	71.28	74.08	71.77	74.67	70.75	70.85	71.00	72.61	70.57
12	69.93	70.87	70.80	71.28	73.51	71.33	74.09	70.87	70.33	71.22	80.31	70.32
13	70.25	70.85	70.62	71.24	72.25	71.29	74.25	70.80	70.82	71.16	76.02	70.31
14	70.20	74.10	70.70	71.35	73.56	71.42	73.88	70.73	72.32	71.10	73.86	70.51
15	70.38	74.95	71.14	71.32	74.06	73.14	73.69	71.10	72.96	70.91	72.95	70.55
16	70.28	74.22	71.00	71.14	73.65	72.87	73.21	72.31	72.11	70.83	72.71	70.89
17	70.28	73.55	71.14	70.90	72.94	72.84	72.94	72.10	71.67	70.74	72.34	70.86
18	70.18	73.17	72.07	70.85	72.73	73.25	72.69	72.47	71.45	70.62	72.20	70.89
19	70.05	72.80	75.20	70.75	72.86	73.85	72.83	72.00	71.12	70.84	72.16	70.72
20	71.23	72.50	75.33	71.08	72.80	73.75	73.52	71.75	70.94	70.92	72.24	71.48
21	72.04	72.24	74.16	71.12	72.68	73.59	73.40	71.63	70.70	71.41	71.55	73.54
22	72.72	72.05	73.60	70.96	72.66	73.57	73.04	71.51	70.93	71.81	71.27	81.60
23	72.28	72.03	73.22	71.00	72.32	73.69	73.09	71.51	70.79	78.97	71.30	83.90
24	75.52	71.93	73.00	70.97	72.45	73.46	72.82	71.88	71.04	78.32	71.14	78.05
25	76.82	71.80	72.52	72.92	72.29	73.40	72.43	73.03	70.77	76.43	71.03	75.78
26	74.45	71.53	72.12	79.65	72.12	73.13	72.55	73.14	70.70	74.69	70.93	74.45
27	73.40	71.31	72.04	77.36	71.49	72.80	72.40	72.82	71.10	73.80	70.85	73.75
28	72.92	71.37	72.13	75.00	71.50	72.66	72.23	72.55	74.33	73.18	70.83	73.26
29	72.97	72.25	72.03	73.64	-	72.53	72.03	72.13	74.89	72.73	70.79	72.87
30	73.37	73.22	71.69	72.90	-	72.56	71.74	71.85	73.78	72.80	70.71	72.38
31	72.92	-	71.63	72.76	-	72.48	-	71.56	-	72.36	70.72	-

Delaware River at Portland, Pa.-- Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72.33	70.87	71.82	71.04	71.57	75.20	75.35	72.22	70.48	70.40	69.79	69.90
2	71.86	70.79	71.77	70.96	71.20	75.53	74.90	72.46	70.51	70.15	69.92	69.80
3	71.58	70.78	71.45	70.96	71.20	74.72	76.35	72.25	70.50	69.98	69.86	69.70
4	71.63	70.72	72.40	70.95	71.80	74.07	75.44	72.03	70.33	70.08	70.07	69.60
5	71.44	70.77	73.93	71.02	72.28	73.72	74.66	71.86	70.43	69.93	69.92	69.50
6	71.23	70.88	77.95	71.52	71.62	73.90	74.13	71.77	70.15	69.85	69.80	69.51
7	71.50	71.14	81.28	71.98	71.60	75.17	74.70	71.49	70.10	69.79	69.64	69.90
8	71.15	71.83	77.77	73.06	71.48	75.00	75.40	71.23	70.15	69.79	69.75	69.85
9	70.98	71.76	75.89	72.62	71.40	74.10	74.40	71.20	70.15	69.95	70.05	70.00
10	70.92	71.79	75.35	72.33	71.33	73.78	73.90	71.53	70.12	69.90	70.03	70.03
11	70.89	71.96	76.72	72.30	71.38	73.45	73.69	71.76	70.33	69.75	69.79	69.78
12	70.89	71.73	76.02	72.35	71.23	72.73	73.82	71.40	70.42	70.05	69.93	69.52
13	70.75	71.56	75.04	72.35	71.10	72.34	74.45	71.24	70.20	70.08	69.92	69.85
14	70.70	71.43	74.30	72.10	71.40	72.70	74.12	71.00	70.48	70.06	69.75	69.95
15	70.77	71.50	73.74	71.48	71.53	72,92	73.82	70.87	70.50	70.00	69.65	69.75
16	70.67	71.70	73.27	71.44	73.10	72.86	74.12	70.87	70.21	70.00	69.99	69.54
17	70.62	71.54	72.78	71.60	77.38	72.92	73.77	70.83	70.24	69.60	70.04	69.50
18	70.53	71.47	72.62	71.52	74.93	72.85	73.82	70.75	70.21	69.60	69.98	69.40
19	70.62	71.32	72.50	71.37	74.30	72.12	73.90	70.78	70.15	69.85	70.05	69.40
20	70.60	71.64	72.40	71.25	73.90	71.93	74.40	70.66	70.00	69.95	70.20	69.82
21	70.98	73.54	72.15	71.16	76.80	72.20	74.44	70.55	70.25	69.60	69.80	69.77
22	70.92	73.15	71.97	71.08	77.30	72.10	74.05	70.80	70.24	69.95	69.57	69.87
23	70.80	72.90	71.45	71.05	75.21	71.90	74.00	71.28	70.25	69.86	70.02	69.87
24	70.62	72.57	71.40	70.85	74.44	71.89	73.83	71.68	70.25	69.51	70.02	69.79
25	71.12	72.27	71.25	70.95	73.72	71.90	73.68	71.35	70.00	69.38	70.02	69.57
26	71.74	72.06	71.53	70.90	73.23	73.23	73.45	71.14	69.90	69.92	70.77	69.40
27	71.58	71.87	71.35	70.97	73.82	75.27	73.30	70.88	69.77	69.93	70.31	69.87
28	71.22	71.79	71.30	71.25	75.10	76.35	73.23	70.72	69.83	70.15	70.04	69.92
29	71.22	71.87	71.25	70.90	-	76.70	73.26	70.60	69.90	70.22	69.74	70.08
30	70.97	71.81	71.00	70.75	-	75.50	72.70	70.60	69.82	70.15	69.98	69.90
31	70.87	-	70.95	71.31	-	75.07	-	70.42	-	69.93	69.97	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70.24	72.12	70.36	71.12	70.85	70.27	88.04	73.12	73.54	71.75	70.43	73.15
2	70.17	73.42	70.30	70.70	70.48	70.28	81.85	73.12	73.47	71.71	70.37	76.58
3	70.60	72.82	70.32	70.83	70.60	70.26	78.15	73.50	73.65	71.97	70.17	74.87
4	70.76	72.13	70.36	70.82	70.70	70.45	77.55	73.45	73.38	71.52	70.10	73.41
5	70.79	71.74	70.67	70.90	70.42	70.72	78.00	73.00	72.90	71.26	69.08	72.30
6	70.55	71.87	71.00	70.87	70.32	70.78	78.60	72.75	72.60	71.03	69.70	71.76
7	70.35	72.21	70.87	71.30	70.12	71.00	77.40	72.70	72.32	70.90	70.25	71.24
8	70.27	72.04	70.78	70.83	70.56	71.12	77.10	72.43	71.96	70.77	70.32	71.00
9	70.25	72.05	70.60	70.68	70.32	71.09	80.90	72.27	71.53	70.63	70.20	70.90
10	70.12	72.20	70.52	70.72	70.10	70.86	81.90	72.15	71.58	70.58	70.05	70.73
11	70.18	72.00	70.62	70.70	70.25	71.02	78.48	71.90	71.75	70.51	70.20	70.78
12	70.22	71.74	70.62	70.49	70.50	71.14	77.10	71.50	71.70	70.52	69.83	70.68
13	70.20	72.03	70.60	70.37	70.32	70.75	78.20	71.45	71.50	70.78	69.66	70.69
14	69.98	71.76	70.60	70.35	70.43	70.60	77.38	71.50	71.45	70.91	70.17	70.50
15	69.90	71.61	70.46	71.42	70.80	74.22	75.87	71.38	71.10	70.62	70.16	70.48
16	70.03	71.41	70.30	71.56	71.00	73.05	75.28	71.29	71.00	70.55	70.10	70.27
17	69.72	71.24	70.32	71.48	70.86	72.84	74.92	72.28	70.88	70.45	70.08	70.27
18	70.15	71.18	70.39	71.58	70.63	72.86	74.45	73.40	70.83	70.35	70.20	70.34
19	70.15	71.09	70.49	71.37	70.33	73.00	74.91	73.07	70.80	70.30	69.93	70.21
20	69.86	70.91	70.52	71.15	70.46	73.14	75.46	72.42	70.75	70.37	69.71	70.29
21	69.68	70.94	71.30	70.95	70.66	73.50	76.96	72.82	70.64	70.22	70.08	70.28
22	70.17	70.90	73.56	71.05	70.87	73.70	78.67	73.20	70.54	70.20	70.00	70.24
23	70.03	70.76	72.93	71.10	70.72	73.17	77.45	73.18	70.48	70.00	70.00	70.15
24	70.41	70.58	72.00	71.20	70.63	72.90	76.05	73.12	70.30	70.38	70.07	70.02
25	70.43	70.58	71.75	71.26	70.32	72.13	75.25	72.89	70.63	70.43	69.98	70.14
26	70.30	70.51	71.82	71.04	70.78	71.95	74.68	72.72	71.92	70.35	69.72	70.45
27	70.26	70.52	71.08	70.90	70.56	72.07	74.17	72.82	71.68	70.16	69.72	70.30
28	70.68	70.45	70.90	70.88	70.55	72.32	73.60	73.45	71.25	70.18	70.24	70.30
29	71.75	70.42	70.64	70.93	70.68	72.47	73.26	73.32	71.10	70.28	70.57	70.24
30	72.08	70.36	70.57	70.65	-	72.40	73.31	73.17	72.30	70.00	70.44	70.15
31	71.64	-	71.06	70.80	-	77.60	-	72.82	-	70.47	70.28	-

Delaware River at Delaware

Location.- Wire-weight gage, lat. 40°53'55", long. 75°04'40", on highway bridge at Delaware, Warren County. Datum of gage is 200.00 feet above mean sea level (Pennsylvania Railroad datum).

Records available.- March 1936 and July 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 82.61 feet at 2 and 6 a.m. Mar. 19, 1936; minimum observed, 58.42 feet July 25, 1939.

Remarks.- Gage read twice daily except during periods of gage heights above 64.5 feet, when it was read hourly. In tables, figures for March 1936 and July 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-				-	59.12	59.63
2						-				-	-	59.56
3						-				-	58.72	59.29
4						-				-	58.70	59.18
5						-				-	59.13	59.13
6						-				-	59.13	59.50
7						-				-	59.07	59.94
8						-				-	59.15	59.97
9						-				-	59.08	59.98
10						-				-	59.38	59.20
11						61.90				-	59.98	59.22
12						75.02				-	59.12	59.20
13						75.92				-	59.18	59.18
14						68.81				-	59.18	59.41
15						65.60				-	59.18	58.80
16						65.04				-	59.18	59.10
17						67.78				-	58.90	59.06
18						76.94				-	58.89	59.03
19						80.86				-	58.98	58.87
20						74.26				-	58.83	59.16
21						69.25				-	59.54	58.86
22						69.14				59.12	59.56	58.77
23						67.01				59.13	59.43	59.03
24						64.75				59.22	59.64	58.93
25						-				59.26	60.20	58.94
26						-				59.14	59.82	58.91
27						-				58.89	59.53	58.78
28						-				58.80	59.32	58.72
29						-				59.11	59.23	58.68
30						-				59.16	59.29	58.84
31						-				59.13	59.45	-

Delaware River at Delaware--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59.29	59.72	59.38	61.44	61.86	61.06	60.91	61.72	59.96	60.71	59.39	60.06
2	59.16	59.65	59.20	61.86	61.58	60.98	61.10	61.26	60.07	60.75	59.16	59.94
3	59.27	59.61	59.38	61.56	61.56	60.92	61.56	61.00	59.99	60.96	59.30	59.84
4	59.04	59.60	59.50	61.56	60.54	60.70	61.30	61.00	60.02	60.64	59.28	59.74
5	59.00	60.38	59.56	61.51	60.46	60.65	61.08	60.86	59.99	60.47	59.25	59.65
6	58.98	64.56	59.56	61.10	60.47	60.86	62.18	60.67	59.90	60.26	59.22	59.67
7	58.93	62.50	59.84	60.82	60.52	60.69	66.12	60.70	60.08	60.26	59.18	60.41
8	58.96	61.67	59.96	60.86	60.37	60.42	65.18	60.76	61.26	60.15	59.25	60.28
9	58.87	61.18	60.50	60.99	60.53	60.45	63.67	60.51	61.00	60.02	59.14	60.10
10	59.05	60.96	60.16	61.28	60.58	60.27	64.14	60.36	60.52	59.84	59.10	59.97
11	59.10	60.68	60.14	61.46	61.08	60.10	63.34	60.40	60.22	59.72	59.48	59.81
12	58.86	60.36	61.81	61.20	60.52	60.01	62.54	60.24	60.12	59.66	60.98	59.63
13	58.80	60.19	63.29	60.99	60.39	59.92	62.16	60.10	59.92	59.92	59.94	59.60
14	59.04	60.06	62.59	60.84	60.48	60.03	61.86	60.23	59.79	59.84	60.48	59.82
15	59.12	59.94	61.46	60.92	61.13	59.98	61.80	61.90	59.96	59.74	60.30	59.97
16	59.03	59.86	61.17	62.15	61.46	60.00	62.70	64.78	60.30	59.92	59.84	60.52
17	59.50	59.89	61.10	62.08	61.03	59.85	63.11	63.74	60.28	60.10	59.77	60.06
18	59.52	59.79	61.01	61.84	60.60	59.90	62.40	62.84	60.45	59.88	59.76	60.04
19	59.62	59.74	60.96	62.87	60.40	59.89	62.04	62.56	60.19	59.66	59.64	59.82
20	60.94	59.61	61.56	62.78	60.32	60.00	62.16	62.07	60.12	59.62	59.52	59.81
21	59.74	59.58	62.46	62.20	60.37	60.24	61.84	61.82	60.20	59.68	59.46	59.90
22	59.58	59.52	62.14	62.36	63.60	60.88	62.58	61.58	61.08	59.58	59.29	59.94
23	59.54	59.45	61.31	64.45	68.08	61.34	64.68	61.22	63.40	59.40	60.84	59.82
24	59.48	59.52	61.94	63.70	64.35	61.24	64.30	61.13	62.15	59.42	60.51	59.66
25	59.37	59.54	60.80	63.50	62.97	61.35	63.16	61.04	61.40	59.28	60.16	59.52
26	60.37	59.40	60.82	65.95	62.33	61.75	62.36	60.82	60.89	59.12	59.93	59.42
27	59.88	59.36	60.74	64.66	61.82	61.34	62.34	60.66	60.49	59.23	59.81	59.44
28	60.11	59.25	60.84	63.23	61.42	61.01	62.40	60.58	60.26	59.46	60.22	59.50
29	60.48	59.19	61.04	62.46	-	60.76	62.40	60.68	60.50	59.37	60.90	59.54
30	59.81	59.38	61.02	62.12	-	60.56	62.08	60.34	60.59	59.35	60.54	59.48
31	59.71	-	60.87	61.88	-	60.62	-	60.14	-	59.34	60.22	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59.48	60.98	61.43	60.31	61.76	60.08	60.94	60.31	60.24	61.52	60.79	59.72
2	59.49	60.78	61.13	60.03	61.41	59.99	60.86	60.18	60.09	60.98	61.03	59.64
3	59.32	60.60	60.89	60.00	61.03	59.86	60.76	60.21	60.06	60.61	61.22	59.55
4	59.40	60.47	60.60	60.08	61.05	60.09	60.56	60.14	60.00	60.57	60.80	59.50
5	59.34	60.34	60.49	59.88	61.54	60.11	60.49	60.06	59.94	60.17	60.35	59.38
6	59.44	60.25	60.43	59.89	61.21	60.11	60.57	60.04	59.85	60.11	60.40	59.35
7	59.44	60.17	60.68	60.02	61.35	60.40	60.55	59.94	59.79	59.94	60.18	59.28
8	59.48	60.06	60.60	60.41	63.79	61.64	60.42	59.81	59.76	59.89	60.35	59.61
9	59.31	60.01	60.30	60.54	62.51	60.96	60.63	59.74	59.84	59.90	60.85	59.61
10	59.42	59.96	60.11	60.29	62.12	60.59	62.28	59.76	59.80	59.90	60.68	59.54
11	59.21	59.88	60.00	60.07	62.46	60.39	63.03	59.77	59.78	59.90	61.22	59.60
12	59.09	59.82	59.62	60.00	61.92	60.21	62.45	59.55	59.76	60.07	69.10	59.46
13	59.32	59.89	59.64	59.97	61.29	60.09	62.64	59.75	59.68	60.03	64.43	59.35
14	59.28	62.51	59.98	60.05	61.89	60.20	62.30	59.69	60.81	59.90	63.05	59.55
15	59.42	63.37	60.14	59.99	62.47	61.56	62.11	59.89	61.37	59.88	61.49	59.60
16	59.42	62.64	59.94	59.97	62.07	61.43	61.70	60.85	60.65	59.77	61.29	59.86
17	59.42	62.03	60.02	59.84	61.45	61.40	61.45	61.53	60.29	59.70	60.96	59.82
18	59.26	61.68	60.61	59.67	61.23	61.74	61.23	61.01	60.08	59.60	60.87	59.82
19	59.16	61.39	63.49	59.72	61.35	62.28	61.35	60.59	59.96	59.78	60.83	59.76
20	60.11	61.07	63.68	59.80	61.22	62.20	61.97	60.38	59.82	60.10	60.90	60.32
21	60.68	60.86	62.57	59.82	61.30	62.03	61.91	60.37	59.75	60.40	60.39	62.18
22	61.26	60.72	62.05	59.80	61.15	62.03	61.53	60.18	59.72	60.75	60.14	71.24
23	60.80	60.70	61.70	59.90	60.89	62.08	61.58	60.24	59.68	68.05	60.14	74.00
24	63.60	60.58	61.49	59.72	61.04	61.97	61.33	60.45	59.96	67.33	60.03	67.03
25	65.48	60.45	61.09	61.54	60.89	61.88	61.01	61.39	59.76	65.07	59.95	64.35
26	62.77	60.29	60.76	68.77	60.76	61.63	61.12	61.57	59.72	63.18	59.85	62.93
27	61.87	60.14	60.68	66.06	60.27	61.37	60.98	61.25	60.14	62.23	59.85	62.32
28	61.44	60.20	60.72	63.18	60.23	61.20	60.82	61.03	62.92	61.75	59.80	61.74
29	61.52	60.89	60.63	62.03	-	61.09	60.64	60.70	63.48	61.34	59.76	61.39
30	61.83	61.70	60.40	61.42	-	61.13	60.41	60.48	62.35	61.39	59.73	61.11
31	61.46	-	60.26	61.30	-	61.04	-	60.26	-	61.03	59.73	-

Delaware River at Delaware--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60.91	59.76	60.49	59.82	60.11	63.62	63.69	60.83	59.40	59.34	58.83	58.96
2	60.50	59.68	60.41	59.84	60.09	63.90	63.25	61.00	59.44	59.18	58.95	58.71
3	60.34	59.69	60.20	59.80	60.00	63.11	64.89	60.82	59.44	59.50	58.87	58.74
4	60.33	59.66	60.84	59.83	60.80	62.52	63.83	60.65	59.27	59.08	59.09	58.68
5	60.15	59.68	62.32	59.85	60.47	62.15	63.06	60.49	59.40	58.95	58.92	58.60
6	60.02	59.78	66.85	60.20	60.33	62.31	62.56	60.35	59.15	58.90	58.84	58.56
7	60.16	59.93	71.22	60.63	60.25	63.51	63.10	60.17	59.18	58.86	58.67	58.90
8	59.99	60.43	66.74	61.51	60.25	63.39	63.80	60.04	59.18	58.82	58.83	58.91
9	59.86	60.41	64.39	61.17	60.18	62.46	62.82	60.05	59.16	59.05	59.06	59.04
10	59.80	60.41	63.74	60.89	60.10	62.27	62.31	60.25	59.13	58.90	59.03	59.04
11	59.78	60.57	65.24	60.90	60.20	61.92	62.15	60.40	59.25	58.80	58.84	58.85
12	59.77	60.38	64.40	60.89	60.10	61.23	62.23	60.10	59.35	59.04	58.91	58.60
13	59.65	60.26	63.30	60.87	60.03	61.02	62.83	60.01	59.18	59.07	58.90	58.94
14	59.64	60.16	62.64	60.68	60.20	61.37	62.51	59.87	59.41	59.06	58.78	58.98
15	59.69	60.20	62.12	60.16	60.30	61.37	62.23	59.76	59.46	59.00	58.66	58.80
16	59.63	60.26	61.69	60.11	62.16	61.36	62.44	59.75	59.22	59.03	59.02	58.60
17	59.59	60.13	61.28	60.14	66.24	61.41	62.17	59.74	59.24	58.67	59.05	58.58
18	59.51	60.09	61.16	60.19	63.25	61.39	62.21	59.65	59.20	58.64	59.00	58.45
19	59.57	60.00	61.06	60.06	62.66	60.80	62.27	59.66	59.18	58.94	59.05	58.46
20	59.56	60.33	60.99	60.02	62.28	60.59	62.78	59.59	59.04	58.97	59.17	58.86
21	59.87	61.84	60.75	59.95	65.00	60.82	62.83	59.51	59.26	58.63	58.88	58.82
22	59.83	61.58	60.66	59.93	66.19	60.67	62.50	59.65	59.24	58.95	58.65	58.90
23	59.74	61.39	60.27	60.15	63.47	60.59	62.40	60.04	59.22	58.93	59.03	58.91
24	59.62	61.07	60.18	59.67	62.75	60.50	62.23	60.29	59.21	58.57	59.02	58.84
25	59.98	60.85	60.10	59.82	62.16	60.55	62.10	60.08	59.03	58.44	59.02	58.62
26	60.22	60.66	60.27	59.76	61.68	61.60	61.88	59.94	58.91	58.93	59.66	58.51
27	60.26	60.51	60.10	59.89	62.26	63.55	61.75	59.75	58.77	58.96	59.34	58.87
28	60.02	60.44	60.00	60.14	63.43	64.78	61.76	59.60	58.85	59.14	59.03	58.93
29	59.97	60.51	60.07	59.85	-	65.23	61.71	59.52	58.93	59.22	58.78	59.11
30	59.85	60.45	59.79	59.80	-	63.87	61.22	59.51	58.88	59.12	59.00	58.85
31	59.76	-	59.82	60.15	-	63.43	-	59.39	-	59.00	58.96	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59.23	60.62	59.31	59.67	59.49	59.36	78.30	61.68	61.94	60.44	59.43	62.61
2	59.23	61.73	59.27	59.45	59.60	59.32	71.67	61.65	61.98	60.35	59.37	65.02
3	59.54	61.26	59.33	59.55	59.42	59.36	66.79	61.90	62.12	60.57	59.20	63.20
4	59.67	60.67	59.34	59.41	59.45	59.70	66.26	61.91	61.86	60.22	59.14	61.89
5	59.65	60.35	59.55	59.44	59.40	59.37	66.78	61.55	61.45	60.05	58.90	60.91
6	59.49	60.49	59.79	59.50	59.41	59.82	67.55	61.26	61.17	59.86	58.80	60.45
7	59.33	60.80	59.67	59.74	59.42	59.89	65.97	61.23	60.92	59.78	59.25	60.04
8	59.27	60.62	59.58	59.44	59.46	59.94	65.58	60.98	60.60	59.67	59.35	59.87
9	59.25	60.66	59.49	59.23	59.46	59.84	70.39	60.85	60.27	59.59	59.27	59.83
10	59.14	60.72	59.46	59.35	59.52	59.76	71.63	60.75	60.33	59.55	59.16	59.69
11	59.20	60.56	59.45	59.40	59.62	59.60	67.50	60.51	60.42	59.50	59.22	59.72
12	59.24	60.32	59.54	59.46	59.60	59.80	65.75	60.26	60.68	59.58	58.93	59.64
13	59.21	60.59	59.49	59.55	59.46	59.54	66.88	60.19	60.20	59.71	58.73	59.58
14	58.97	60.39	59.49	59.55	59.58	59.57	66.10	60.16	60.18	59.81	59.20	59.53
15	58.92	60.24	59.35	60.33	59.82	62.84	64.29	60.10	59.95	59.58	59.20	59.40
16	59.02	60.10	59.27	60.04	59.89	61.69	63.64	60.05	59.90	59.52	59.14	59.36
17	58.78	59.95	58.29	59.94	59.79	61.42	63.26	60.88	59.80	59.44	59.12	59.32
18	59.14	59.92	59.35	59.84	59.66	61.39	62.86	61.86	59.73	59.37	59.24	59.38
19	59.15	59.84	59.42	59.95	59.68	61.54	63.32	61.58	59.73	59.32	59.00	59.26
20	58.90	59.74	59.47	59.88	59.70	61.65	63.88	60.99	59.69	59.38	58.83	59.31
21	58.74	59.73	60.02	59.73	59.72	61.98	65.65	61.38	59.60	59.26	59.15	59.30
22	59.15	59.70	61.90	59.70	59.62	62.07	67.88	61.70	59.55	59.28	59.07	59.30
23	59.06	59.64	61.32	59.77	59.60	61.59	66.22	61.66	59.44	59.07	59.05	59.20
24	59.39	59.48	60.55	59.81	59.55	61.08	64.60	61.61	59.35	59.38	59.11	59.07
25	59.38	59.47	60.33	60.00	59.52	60.77	63.74	61.37	59.60	59.41	59.04	59.21
26	59.28	59.44	60.36	59.73	59.42	60.58	63.11	61.22	60.46	59.38	58.80	59.49
27	59.24	59.46	59.88	59.66	59.31	60.65	62.65	61.33	60.35	59.20	58.85	59.38
28	59.54	59.36	59.68	59.68	59.41	60.86	62.08	61.87	60.02	59.22	59.35	59.33
29	60.30	59.35	59.59	59.60	59.42	61.10	61.80	61.78	59.93	59.30	59.64	59.32
30	60.63	59.30	59.52	59.52	-	60.96	61.82	61.64	60.85	59.10	59.54	59.26
31	60.29	-	59.79	59.54	-	66.00	-	61.33	-	59.45	59.35	-

Delaware River at Belvidere

Location.- Water-stage recorder, lat. 40°49'36", long. 75°05'02", at Belvidere, Warren County, just downstream from Pequest River. Datum of gage is 226.43 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 4,542 square miles (revised).

Records available.- October 1922 to September 1940.

Average discharge.- 18 years, 8,043 second-feet (adjusted for storage).

Extremes.- 1922-40: Maximum discharge, 179,000 second-feet 6 to 7 a.m. Mar. 19, 1936 (gage height, 25.0 feet); minimum, 804 second-feet July 25 and Sept. 19, 1939 (gage height, 2.32 feet).
Maximum discharge known, 220,000 second-feet Oct. 10, 1903 (gage height, 28.6 feet, from floodmark), from rating curve extended above 170,000 second-feet.

Peak gage height and discharge during period of this report.-
1934: Dec. 2 (5 p.m.) 15.03 ft., 70,900 sec.-ft.
1936: Mar. 12 (12 p.m.) 22.22 ft., 148,000 sec.-ft.; Mar. 19 (6 to 7 a.m.) 25.0 ft., 179,000 sec.-ft.
1937: Feb. 23 (3 a.m.) 14.50 ft., 67,200 sec.-ft.
1938: Jan. 26 (2 p.m.) 14.88 ft., 71,000 sec.-ft.; Aug. 12 (11 a.m.) 14.50 ft., 67,200 sec.-ft.; Sept. 22 (9 to 11 p.m.) 19.27 ft., 116,000 sec.-ft.; Dec. 7 (4:30 a.m.) 15.88 ft., 81,000 sec.-ft.
1940: Apr. 1 (9 to 11 a.m.) 21.40 ft., 138,300 sec.-ft.; Apr. 9 (9 to 10 p.m.) 17.38 ft., 95,800 sec.-ft.

Remarks.- Flow regulated by Lake Wallenpaupack and Toronto, Cliff Lake, and Swinging Bridge Reservoirs (combined capacity, 12,300,000,000 cubic feet).

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20 600	4 580	26 600	4 720	b4 500	9 300	12 300	10 000	2 940	3 250	4 360	2 250
2	15 100	4 720	59 700	4 450	b4 700	8 640	11 200	11 200	2 940	3 040	4 860	1 950
3	11 200	5 000	46 200	4 190	5 290	8 270	11 000	9 600	2 630	3 040	4 580	1 620
4	9 220	5 590	29 000	5 000	4 860	8 460	10 400	8 830	2 830	2 830	3 820	2 780
5	7 910	9 020	22 400	3 940	b4 300	9 410	9 410	9 220	3 470	2 440	3 140	6 060
6	8 270	14 100	18 100	4 580	b4 200	10 400	8 830	9 800	3 250	2 130	3 470	4 720
7	11 000	12 300	15 100	5 140	b4 000	15 100	8 460	10 400	3 700	2 940	3 470	4 060
8	11 500	11 000	12 800	6 060	4 060	21 800	7 910	17 100	3 470	3 940	3 250	2 830
9	9 410	10 000	10 000	9 590	4 190	17 100	8 460	19 600	3 700	18 300	3 040	2 440
10	8 090	9 410	7 910	41 000	4 060	13 700	8 830	15 600	4 450	48 800	3 040	2 730
11	7 200	8 270	7 030	46 400	3 820	13 700	10 000	15 600	5 000	31 700	3 040	2 830
12	6 530	7 380	6 060	29 600	3 700	18 100	10 400	13 200	4 580	21 800	2 630	2 730
13	6 210	7 030	6 860	19 100	3 820	31 700	11 200	11 000	3 940	16 100	2 940	2 250
14	5 590	7 200	6 530	13 700	3 820	22 400	11 900	10 400	3 580	11 900	3 470	2 630
15	5 000	6 530	6 060	11 200	5 000	17 600	11 900	9 410	3 040	9 600	3 700	2 830
16	5 590	6 060	5 900	9 410	5 900	14 600	12 300	8 460	2 540	10 200	3 040	2 250
17	5 140	5 740	5 740	8 460	6 700	15 600	12 800	7 550	2 070	10 400	3 140	1 870
18	5 140	5 590	5 590	8 090	7 550	23 600	12 300	6 860	2 540	8 640	2 630	1 980
19	5 000	5 440	6 040	7 380	8 270	22 400	11 500	5 740	3 700	7 380	2 250	1 900
20	5 000	5 590	9 800	7 030	7 550	18 600	11 500	5 290	4 190	6 700	2 340	2 020
21	4 190	5 590	11 900	6 860	6 700	17 600	11 900	5 140	4 320	6 210	3 040	2 340
22	3 940	5 900	11 200	8 090	5 740	20 600	11 200	5 000	4 450	6 530	2 940	2 250
23	4 190	5 440	8 830	9 020	5 290	19 100	10 800	4 860	5 440	6 060	3 040	1 740
24	4 860	6 530	7 380	b7 300	5 140	17 100	10 600	4 580	5 140	6 530	2 830	1 600
25	4 720	10 200	6 860	b5 800	5 290	16 100	9 800	4 190	5 140	6 860	2 440	2 340
26	4 450	10 800	6 530	b5 600	7 030	14 600	9 020	3 700	4 320	9 020	1 560	2 230
27	4 060	9 600	6 860	b5 000	8 460	12 800	8 270	3 360	3 820	10 000	1 590	2 110
28	4 190	9 020	5 900	b4 400	9 020	11 200	7 550	3 580	3 700	7 200	2 250	1 980
29	4 190	9 220	5 900	b4 600	-	12 300	7 200	3 700	3 700	5 590	2 120	2 090
30	4 190	10 800	5 440	b5 000	-	13 700	8 090	3 580	3 470	5 590	1 590	1 740
31	4 320	-	5 000	b4 500	-	12 800	-	3 040	-	5 140	1 620	-

b Stage-discharge relation affected by ice.

Delaware River at Belvidere--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 480	37 900	27 800	b3 600	b5 000	7 030	17 600	7 730	3 040	3 140	1 850	3 360
2	2 200	19 600	20 600	3 700	b4 700	6 860	16 100	7 910	3 250	3 040	1 740	3 140
3	2 120	13 700	17 100	7 640	b4 700	6 860	16 600	7 030	3 470	2 630	1 160	2 340
4	2 210	10 200	14 100	11 200	4 580	7 200	16 600	6 860	3 700	2 830	1 010	2 040
5	2 160	8 640	11 500	11 500	b4 600	7 380	13 700	7 730	3 700	2 440	1 720	1 850
6	2 070	7 200	10 200	11 500	b4 450	7 550	19 100	7 200	3 360	2 040	1 820	1 590
7	1 590	7 030	8 460	10 000	b4 200	7 550	36 600	6 530	2 940	2 020	1 710	1 450
8	1 460	8 460	7 910	9 020	b4 000	7 550	32 400	6 060	2 340	2 540	1 850	1 440
9	2 050	7 550	8 090	9 020	b4 200	7 380	25 400	5 900	2 160	2 160	1 760	1 480
10	1 870	7 550	9 020	10 600	b4 100	8 460	23 000	6 060	2 940	2 440	1 330	2 070
11	1 700	6 530	10 000	8 830	b3 700	16 400	22 400	5 590	2 830	2 630	1 490	2 250
12	1 440	6 210	9 600	8 460	b3 700	114 000	22 400	5 440	3 140	2 440	2 020	2 210
13	1 250	7 910	8 270	8 090	b3 900	123,000	21 800	5 140	3 580	2 050	2 050	2 110
14	1 170	27 400	7 730	8 090	4 060	64 200	26 600	6 060	3 700	1 760	1 920	1 450
15	1 160	35 500	7 380	7 730	4 060	41 000	26 000	7 200	3 250	2 340	2 140	1 180
16	1 790	20 600	8 830	11 000	4 190	35 900	23 600	6 060	3 700	2 200	2 070	1 740
17	1 800	15 600	10 200	11 000	4 060	53 500	21 200	5 290	3 360	2 160	1 380	1 720
18	1 530	14 100	9 410	10 600	3 820	126,000	18 100	4 720	4 060	2 020	1 300	1 550
19	1 350	13 200	8 270	9 410	b3 600	166,000	15 600	5 000	7 250	1 770	1 320	1 320
20	1 400	12 300	7 550	b5 400	b3 500	111,000	13 700	6 060	12 300	1 250	1 190	1 870
21	1 170	14 100	6 860	b6 000	b3 500	68 200	12 800	5 590	11 000	1 080	1 520	1 280
22	1 060	16 600	5 900	b6 600	b3 500	67 200	11 900	5 140	8 460	1 870	1 760	1 140
23	1 460	14 600	4 720	b6 000	b3 500	49 000	12 800	4 720	6 860	1 970	1 490	1 710
24	1 840	12 800	4 450	b5 000	3 250	34 500	11 000	4 190	5 440	2 250	3 470	1 400
25	1 580	10 600	4 720	b5 800	3 140	28 400	9 600	3 820	4 720	2 440	5 140	1 370
26	1 370	9 800	4 450	b6 200	4 060	24 200	8 640	4 190	4 190	1 950	4 060	1 320
27	1 200	9 410	3 820	b5 600	5 290	22 400	8 090	4 060	3 940	1 460	3 140	1 120
28	1 090	9 600	b3 800	b5 000	6 700	27 800	7 910	4 190	3 700	1 260	2 440	1 010
29	962	25 800	b3 400	b6 000	7 200	29 000	7 550	3 940	3 360	1 840	2 250	986
30	3 070	38 900	b3 400	b5 800	-	23 000	7 030	3 700	3 040	1 950	2 250	1 260
31	23 900	-	b3 500	b5 400	-	19 600	-	3 470	-	1 880	2 730	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 340	3 820	2 140	11 000	14 100	10 000	9 020	12 800	5 000	7 910	2 630	5 000
2	2 070	3 580	2 160	13 700	12 300	9 410	10 000	10 800	5 140	8 270	2 050	4 450
3	2 160	3 360	2 540	12 300	10 000	9 020	11 900	9 410	4 860	9 020	2 340	4 060
4	1 790	3 360	2 940	12 300	7 910	8 270	11 000	9 410	4 860	7 730	2 340	3 700
5	1 740	4 380	3 040	11 900	7 380	7 910	10 000	8 640	4 860	6 860	2 250	3 470
6	1 590	23 600	3 250	10 000	7 380	8 640	15 300	7 910	4 580	6 060	2 160	3 580
7	1 450	17 600	4 320	8 830	7 380	8 270	40 100	7 910	5 740	5 900	2 250	6 060
8	1 460	12 800	4 580	8 830	6 860	7 030	34 900	8 270	10 200	5 290	2 250	6 060
9	1 410	10 200	4 860	9 410	7 200	7 030	24 800	7 380	9 220	4 720	1 900	5 000
10	1 640	9 020	5 590	10 600	7 730	6 370	27 200	6 700	7 030	4 190	1 740	4 450
11	1 740	7 730	5 590	11 500	9 600	5 590	23 600	6 530	5 900	3 700	3 780	3 920
12	1 580	6 530	12 800	10 400	7 730	5 290	18 100	6 210	5 440	3 470	4 860	3 470
13	1 260	5 740	21 800	9 220	6 860	4 720	15 600	5 590	4 860	4 190	4 450	3 140
14	1 560	5 140	15 100	8 640	7 200	5 140	13 700	6 060	4 190	4 060	6 530	3 820
15	1 760	4 720	11 900	9 600	9 800	5 000	13 700	14 300	4 720	3 700	6 210	4 720
16	1 590	4 320	10 200	14 600	11 500	5 000	18 100	31 000	5 900	4 190	4 190	6 370
17	1 590	4 450	9 800	15 100	9 600	4 720	21 200	25 400	5 900	5 000	3 820	5 140
18	2 750	4 060	9 410	13 700	7 730	4 720	17 100	19 600	5 000	4 450	3 580	5 000
19	3 470	3 820	9 020	18 600	6 860	4 720	14 600	17 600	5 900	3 470	3 470	4 060
20	4 320	3 470	11 500	19 600	6 530	5 290	15 100	15 100	5 590	3 250	3 140	3 820
21	3 940	3 250	16 600	16 100	6 700	6 370	13 700	13 200	6 210	3 580	2 830	4 190
22	3 360	3 040	15 600	16 600	23 200	9 220	17 600	11 900	10 800	3 250	2 690	4 450
23	3 140	2 940	11 000	29 000	56 400	11 200	30 300	10 600	21 800	2 730	8 830	4 060
24	2 940	2 940	9 220	25 400	29 600	10 800	28 400	10 200	15 600	2 830	7 730	3 360
25	2 830	3 040	8 460	23 600	20 600	11 500	21 200	9 600	11 500	2 440	5 740	2 940
26	3 940	2 630	8 460	38 900	17 100	13 200	16 600	8 640	9 020	2 200	4 720	2 630
27	4 320	2 540	8 090	31 000	14 100	11 500	16 100	7 730	7 200	2 210	4 450	2 630
28	5 000	2 250	8 460	22 400	11 900	9 800	16 600	7 550	6 210	2 730	6 210	2 630
29	5 000	2 200	9 220	17 600	-	8 640	16 600	7 910	6 860	2 730	13 200	3 140
30	4 190	2 440	9 410	15 600	-	7 910	14 600	6 530	7 380	2 630	7 380	3 140
31	4 060	-	8 830	14 100	-	7 910	-	5 590	-	2 630	5 740	-

Delaware River at Belvidere--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3 040	9 020	10 800	6 370	12 800	6 370	9 020	6 370	5 590	11 900	9 020	4 190
2	2 940	8 090	9 410	5 440	11 200	5 900	8 830	5 900	5 440	9 410	9 800	4 060
3	2 340	7 550	8 270	5 290	9 600	6 210	8 270	5 900	5 290	8 090	10 000	3 820
4	2 210	6 860	7 550	5 440	9 800	6 370	7 550	5 900	5 000	7 380	8 460	3 140
5	2 230	6 370	6 860	5 290	11 900	6 210	7 380	5 440	4 450	6 210	7 200	2 630
6	2 730	5 900	6 860	5 590	10 600	6 060	7 380	5 290	4 060	5 290	6 860	2 440
7	2 730	5 440	7 730	6 210	12 300	9 660	7 380	4 580	4 060	5 140	6 530	2 730
8	2 730	5 000	7 380	7 730	21 800	11 900	7 030	3 940	4 190	4 860	6 700	3 470
9	2 340	4 860	6 370	7 380	16 600	9 020	8 830	3 820	4 450	4 450	8 640	3 580
10	2 440	4 860	5 900	6 530	15 100	7 730	16 600	3 940	4 450	4 860	9 020	3 580
11	1 930	4 450	4 720	5 900	16 600	7 030	19 600	4 190	4 190	4 580	10 600	3 470
12	1 820	4 060	3 580	5 590	13 700	6 210	17 600	4 190	3 580	5 740	49 000	2 730
13	2 340	6 060	3 250	5 740	11 200	5 900	18 100	3 940	3 700	5 740	27 200	2 330
14	2 340	18 800	3 940	6 060	14 100	6 530	16 100	3 580	9 320	5 290	15 600	3 140
15	2 630	22 400	4 860	5 900	16 600	11 500	14 600	5 000	10 000	4 860	11 500	3 580
16	2 630	17 600	5 000	4 580	14 100	11 500	12 800	8 640	7 380	4 060	10 200	4 580
17	2 440	14 100	5 740	4 320	11 000	11 200	11 900	11 000	6 060	3 700	9 220	4 720
18	1 900	12 300	9 440	4 060	10 200	13 700	10 800	8 640	5 440	3 360	9 220	4 580
19	2 310	10 800	23 000	3 940	10 600	16 600	11 900	7 380	4 450	4 320	8 830	4 190
20	5 440	10 000	23 600	4 190	11 000	16 100	13 700	6 530	3 820	5 440	8 270	8 330
21	8 830	9 020	17 100	4 450	10 800	15 100	13 200	6 370	4 060	7 380	7 030	21 500
22	9 800	8 270	14 100	4 320	10 000	15 100	11 900	5 900	4 320	12 500	5 590	39 800
23	9 800	7 910	12 300	4 580	9 220	15 100	11 900	5 900	4 060	46 600	5 740	87 000
24	31 900	7 550	11 000	4 060	9 410	14 600	11 000	7 030	4 720	45 800	5 590	44 200
25	32 500	6 860	9 410	18 200	8 830	13 700	9 600	10 400	4 060	31 700	5 140	28 400
26	18 100	6 210	8 460	55 800	8 090	12 800	9 220	11 200	4 340	20 600	4 860	20 100
27	13 200	5 590	7 910	37 600	6 700	11 500	8 640	9 800	7 040	15 600	4 580	16 100
28	11 900	6 210	7 910	20 600	6 370	10 600	8 090	8 830	20 600	12 800	4 450	13 700
29	11 900	9 220	7 550	14 100	-	9 800	7 380	7 730	21 800	11 000	3 820	11 500
30	13 200	11 900	6 700	11 900	-	9 410	6 860	6 700	15 600	11 200	3 820	10 200
31	11 200	-	6 370	11 500	-	9 220	-	5 900	-	9 800	4 060	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9 220	4 580	7 550	4 860	6 700	25 400	24 200	9 600	3 250	2 830	1 410	1 550
2	7 910	4 320	7 200	5 000	6 060	26 600	24 200	9 800	3 250	2 340	1 590	1 180
3	7 030	4 580	6 530	4 720	6 860	21 200	31 700	8 830	3 040	1 820	1 560	1 150
4	6 860	4 320	9 820	5 000	9 220	17 600	26 000	9 270	2 730	2 050	1 870	1 090
5	6 210	4 720	19 000	5 140	8 640	16 600	20 600	7 550	2 830	1 850	1 600	986
6	5 900	4 860	53 500	7 460	7 730	17 600	18 600	7 030	2 340	1 660	1 400	1 080
7	6 700	5 740	72 000	9 220	7 550	24 200	23 600	6 370	2 440	1 560	1 130	1 530
8	5 740	7 380	43 400	12 300	7 200	22 400	25 400	5 740	2 440	1 420	1 410	1 510
9	5 000	7 380	22 600	10 600	6 860	17 600	20 100	6 210	2 250	1 740	1 850	1 700
10	4 720	7 380	26 600	9 410	6 530	16 100	17 100	7 030	2 250	1 530	1 840	1 720
11	4 450	7 910	34 500	9 020	7 200	13 700	16 100	7 030	2 630	1 350	1 420	1 330
12	4 450	7 200	29 600	9 410	6 860	11 500	17 100	6 530	2 730	1 760	1 450	1 030
13	4 060	6 530	23 000	9 020	6 370	10 800	19 600	5 740	2 540	1 980	1 460	1 430
14	4 320	6 210	19 100	8 270	6 700	11 000	17 600	4 860	3 580	1 930	1 300	1 580
15	4 580	6 530	16 100	6 700	8 750	11 000	16 100	4 320	3 250	1 710	1 200	1 260
16	4 190	6 860	13 200	6 060	21 000	11 500	17 600	4 720	2 630	1 780	1 740	1 000
17	3 700	6 370	11 500	6 530	35 200	11 900	16 600	4 720	2 630	1 120	1 600	909
18	3 470	6 210	11 000	6 370	22 400	11 500	16 100	4 450	2 630	1 050	1 700	845
19	3 940	6 060	10 200	6 210	18 600	9 410	17 100	4 320	2 440	1 380	1 770	845
20	4 190	7 550	9 600	5 590	17 600	8 640	19 600	3 940	2 160	1 510	2 160	1 210
21	5 290	13 700	8 640	b5 000	39 700	9 020	19 100	3 470	2 730	1 080	1 420	1 300
22	5 290	12 800	8 090	b4 500	39 000	8 460	17 100	4 190	2 730	1 410	1 150	1 520
23	4 450	11 000	6 860	b4 200	24 200	8 090	17 600	5 740	2 630	1 380	1 700	1 490
24	4 450	10 200	6 370	4 190	19 100	7 910	16 600	6 530	2 440	970	1 710	1 310
25	5 900	9 220	6 210	5 000	15 600	8 830	15 100	5 740	1 980	838	1 890	978
26	7 030	8 460	6 210	b4 200	13 700	15 100	14 100	5 000	1 600	1 330	3 940	853
27	6 530	7 910	6 210	b3 800	17 600	25 400	13 200	4 320	1 420	1 640	2 560	1 220
28	5 900	7 550	5 900	b3 800	23 600	31 700	13 200	3 820	1 550	2 020	1 720	1 490
29	5 900	7 550	5 290	b4 000	-	32 100	13 200	3 580	1 680	2 100	1 330	1 870
30	5 140	7 200	4 860	4 720	-	26 000	10 800	3 360	1 820	2 050	1 600	1 650
31	4 720	-	4 720	6 530	-	24 200	-	3 040	-	1 660	1 590	-

b Stage-discharge relation affected by ice.

Delaware River at Belvidere--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 360	8 270	2 630	b3 300	b2 300	2 630	128 600	12 900	15 200	7 430	3 330	18 900
2	2 460	13 000	2 550	b2 700	b2 300	2 590	73 000	13 000	15 900	7 530	2 970	32 100
3	3 430	10 700	2 710	b2 700	b2 200	2 590	46 200	14 500	15 900	7 870	2 650	20 600
4	3 890	8 270	2 830	b2 700	b2 200	4 230	42 600	14 300	13 900	6 640	2 340	13 300
5	4 190	6 930	3 580	b2 600	b2 200	4 720	48 900	12 900	11 900	5 750	1 670	9 210
6	3 520	7 660	4 270	b2 500	2 160	4 690	49 700	11 200	10 600	5 150	1 800	7 430
7	3 000	8 870	3 870	b2 700	2 270	5 140	41 000	10 600	9 490	4 600	2 610	5 960
8	2 540	8 090	3 470	2 630	2 420	5 350	40 300	9 570	8 250	4 110	2 780	4 870
9	2 310	8 090	3 250	2 290	2 210	5 030	78 600	9 020	7 330	4 080	2 510	4 770
10	2 310	8 380	3 140	b2 200	2 340	4 670	76 500	8 610	7 360	4 030	2 470	4 550
11	2 340	7 770	3 080	b2 200	2 870	4 120	48 000	7 830	7 830	3 930	2 430	4 550
12	2 120	6 860	3 580	2 180	2 940	3 940	39 300	6 930	7 560	4 340	1 670	4 320
13	2 070	7 440	3 400	2 400	2 810	3 990	46 700	6 390	7 030	5 060	1 570	4 000
14	1 680	6 960	3 270	2 590	3 040	4 590	39 900	6 390	6 800	4 710	2 340	3 680
15	1 450	6 270	3 120	5 350	3 230	18 600	29 500	6 360	5 870	4 030	2 350	3 240
16	1 580	5 620	2 810	5 470	3 750	14 200	25 300	6 420	5 290	3 660	2 210	2 860
17	1 360	5 060	2 710	5 000	3 270	13 000	22 600	11 200	4 770	3 420	2 170	2 880
18	1 950	4 940	2 870	b4 200	3 000	12 700	20 700	14 500	4 930	3 150	2 300	2 990
19	1 980	4 670	3 170	b3 700	2 870	13 200	23 200	12 900	4 870	3 190	1 960	2 690
20	1 480	4 220	3 540	b3 500	3 210	14 200	27 900	10 300	4 660	3 360	1 630	2 800
21	1 170	4 370	6 740	b3 200	3 290	16 300	41 300	12 300	4 080	2 710	2 220	2 730
22	1 890	4 370	13 700	b3 200	3 250	16 600	51 800	13 800	3 850	2 510	2 030	2 650
23	1 980	3 820	10 700	b3 200	3 190	13 800	40 500	13 400	3 400	2 470	1 960	2 370
24	3 080	3 320	7 950	b3 200	3 040	11 400	30 800	12 900	3 290	3 040	2 080	2 280
25	2 980	3 210	5 990	b3 100	2 940	9 640	25 200	12 000	4 830	3 290	1 850	2 860
26	2 710	3 230	b5 500	b2 900	2 750	8 570	21 400	11 700	7 100	3 190	1 470	3 590
27	2 500	3 230	4 830	b2 500	2 650	8 270	18 400	12 600	6 930	2 900	1 460	3 240
28	3 620	2 980	b4 000	b2 600	2 590	9 020	15 800	14 300	5 990	2 670	3 270	3 010
29	6 500	3 080	3 750	b2 400	2 790	10 200	14 100	13 500	6 150	2 670	4 290	2 730
30	7 660	2 750	3 320	b2 300	-	10 200	13 400	13 000	8 430	2 570	3 950	2 550
31	6 890	-	b3 500	b2 300	-	65 600	-	12 500	-	3 400	4 480	-

a Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	216 000	20 600	3 940	6 968	6 808	1.50	1.73
November	233 650	14 100	4 580	7 788	7 919	1.74	1.94
December	395 220	59 700	5 000	12 750	13 260	2.92	3.37
Calendar year 1934	2 756 350	59 700	1 260	7 552	7 600	1.67	22.73
January 1935	315 210	46 400	3 940	10 170	10 040	2.21	2.55
February	152 960	9 020	3 700	5 463	5 336	1.17	1.22
March	488 880	31 700	8 270	15 770	16 480	3.63	4.18
April	307 030	12 800	7 200	10 230	10 470	2.31	2.58
May	259 590	19 600	3 040	8 374	8 559	1.88	2.17
June	112 060	5 440	2 070	3 735	3 384	.745	.83
July	299 860	48 800	2 130	9 673	9 572	2.11	2.43
August	91 730	4 860	1 560	2 959	2 162	.476	.55
September	75 150	6 060	1 600	2 505	1 876	.411	.46
Water year 1934-35	2 947 340	59 700	1 560	8 075	8 033	1.77	24.01
October 1935	72 502	23 900	962	2 339	1 916	.442	.49
November	449 390	38 900	6 210	14 980	15 610	3.44	3.84
December	271 040	27 800	3 400	8 743	8 858	1.95	2.25
Calendar year 1935	2 895 402	48 800	962	7 933	7 876	1.73	23.55
January 1936	239 790	11 500	3 600	7 735	7 557	1.66	1.91
February	123 260	7 200	3 140	4 250	3 936	.867	.94
March	1 318 120	166 000	6 860	42 520	44 880	9.88	11.39
April	525 820	36 600	7 030	17 530	17 220	3.79	4.23
May	172 580	7 910	3 470	5 567	5 355	1.18	1.36
June	132 780	12 300	2 160	4 426	4 024	.886	.99
July	65 850	3 140	1 080	2 124	1 240	.273	.31
August	63 080	5 140	1 010	2 035	1 580	.348	.40
September	50 756	3 360	986	1 692	1 290	.284	.32
Water year 1935-36	3 484 968	166 000	962	9 522	9 484	2.09	28.43

*Adjusted for change in contents in Lake Wallenpaupack and Toronto and Swinging Bridge Reservoirs.

Delaware River at Belvidere--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	81 990	5 000	1 260	2 645	2 473	0.544	0.63
November	168 970	23 600	2 200	5 632	5 581	1.23	1.37
December	265 890	21 800	2 140	8 577	9 029	1.99	2.29
Calendar year 1936	3 208 886	166 000	986	8 767	8 724	1.92	26.14
January 1937	490 130	38 900	8 640	15 810	16 570	3.65	4.21
February	351 250	56 400	6 530	12 540	13 130	2.89	3.01
March	240 190	13 200	4 720	7 748	7 945	1.75	2.02
April	556 720	40 100	9 020	18 560	19 370	4.26	4.75
May	336 070	31 000	5 590	10 840	11 030	2.43	2.80
June	217 470	21 800	4 190	7 249	7 234	1.59	1.77
July	135 390	9 020	2 200	4 367	4 059	.894	1.03
August	135 460	13 200	1 740	4 370	3 973	.875	1.01
September	122 460	6 370	2 630	4 082	3 598	.792	.88
Water year 1936-37	3 101 990	56 400	1 260	8 499	8 626	1.90	25.77
October 1937	223 840	32 500	1 820	7 221	7 265	1.60	1.84
November	263 260	22 400	4 060	8 775	9 263	2.04	2.28
December	273 070	23 600	3 250	8 809	8 771	1.93	2.22
Calendar year 1937	3 345 310	56 400	1 740	9 165	9 314	2.05	27.82
January 1938	298 660	55 800	3 940	9 634	9 423	2.07	2.39
February	330 220	21 800	6 370	11 790	11 710	2.58	2.69
March	318 630	16 600	5 900	10 280	10 330	2.27	2.62
April	333 160	19 600	6 860	11 110	11 720	2.58	2.88
May	199 930	11 200	3 580	6 449	6 501	1.43	1.65
June	195 520	21 800	3 580	6 517	6 011	1.32	1.47
July	339 660	46 600	3 360	10 960	11 060	2.44	2.81
August	296 550	49 000	3 820	9 566	8 792	1.94	2.24
September	418 340	89 800	2 440	13 940	13 670	3.01	3.36
Water year 1937-38	3 490 840	89 800	1 820	9 564	9 519	2.10	28.45
October 1938	167 240	9 220	3 470	5 395	4 779	1.05	1.21
November	218 280	13 700	4 320	7 276	7 246	1.60	1.78
December	522 360	72 000	4 720	16 850	17 640	3.88	4.47
Calendar year 1938	3 638 550	89 800	2 440	9 969	9 895	2.18	29.57
January 1939	196 830	12 300	3 800	6 349	6 294	1.39	1.60
February	416 530	39 700	6 060	14 880	15 670	3.45	3.59
March	514 060	33 100	7 910	16 580	17 020	3.75	4.32
April	555 000	31 700	10 800	18 500	18 710	4.12	4.60
May	175 850	9 800	3 040	5 673	5 327	1.17	1.35
June	74 620	3 580	1 420	2 487	2 034	.448	.50
July	50 848	2 830	838	1 640	1 144	.252	.29
August	52 320	3 940	1 150	1 688	1 168	.257	.30
September	38 616	1 870	845	1 287	821	.181	.20
Water year 1938-39	2 982 554	72 000	838	8 171	8 103	1.78	24.21
October 1939	89 000	7 660	1 170	2 871	2 605	.574	.66
November	182 430	13 000	2 750	6 081	6 103	1.35	1.51
December	133 830	13 700	2 550	4 317	4 294	.947	1.09
Calendar year 1939	2 479 934	39 700	838	6 794	6 691	1.48	20.01
January 1940	93 810	5 470	2 180	3 026	2 999	.661	.76
February	80 080	3 750	2 160	2 761	2 856	.630	.68
March	323 780	65 600	2 590	10 440	11 690	2.58	2.97
April	1 221 200	128 600	13 400	40 710	42 270	9.32	10.40
May	347 820	14 500	6 360	11 220	11 310	2.49	2.87
June	229 490	15 900	3 290	7 650	7 444	1.64	1.83
July	127 460	7 870	2 470	4 112	3 675	.810	.93
August	74 820	4 480	1 460	2 414	1 673	.369	.43
September	183 710	32 100	2 280	6 124	6 380	1.41	1.57
Water year 1939-40	3 087 430	128 600	1 170	8 436	8 563	1.89	25.70

*Adjusted for change in contents in Lake Wallenpaupack and Toronto, Cliff Lake (after November 1939), and Swinging Bridge Reservoirs.

Delaware River at Easton, Pa.

Location.- Wire-weight gage, lat. 40 41'30", long. 75 12'15", on lower highway bridge at Easton, Northampton County. Datum of gage is 100.21 feet above mean sea level (United States Coast and Geodetic Survey datum).

Records available.- March 1936 to September 1940 (gage heights only). August 1904 to September 1936 (gage heights only), at site a quarter of a mile downstream from highway bridge, in reports of United States Weather Bureau (published as "Delaware River at Phillipsburg, N. J.").

Extremes.- 1936-40: Maximum gage height observed, 87.95 feet at 7 a.m. Mar. 19, 1936; minimum observed, 54.83 feet Sept. 20 and 26, 1939.
Maximum stage known, 93.3 feet (present datum) Oct. 10, 1903, from floodmark.

Remarks.- Gage read twice daily except during periods of gage heights above 60.2 feet, when it was read hourly. In tables, figures for March 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	62.40	59.21	56.90	56.96	55.84	56.66
2						-	62.14	59.34	56.94	56.96	55.82	56.60
3						-	62.00	58.96	57.10	56.63	55.40	56.24
4						-	62.08	58.96	57.22	56.68	55.16	56.02
5						59.48	61.32	59.25	57.14	56.63	55.48	55.84
6						59.40	64.15	58.95	57.00	56.34	55.82	55.68
7						59.34	67.58	58.58	56.90	56.24	55.74	55.61
8						59.23	66.38	58.48	56.52	56.50	55.69	55.49
9						59.39	64.58	58.41	56.32	56.19	55.68	55.49
10						60.31	64.10	58.36	56.80	56.46	55.41	55.88
11						64.40	64.00	58.30	56.67	56.58	55.37	56.06
12						80.90	63.92	58.21	57.01	56.56	56.02	56.04
13						81.76	63.42	58.12	57.47	56.51	55.96	56.09
14						72.55	64.56	58.32	57.46	56.14	55.81	55.71
15						68.16	64.43	58.91	57.04	56.52	56.05	55.22
16						66.94	63.52	58.43	57.26	56.42	56.17	55.52
17						69.78	63.07	58.17	56.93	56.30	55.68	55.78
18						82.00	62.39	57.99	57.50	55.98	55.32	55.62
19						86.52	61.50	57.77	59.10	55.85	55.68	55.50
20						79.23	61.19	58.50	60.48	55.51	55.40	55.82
21						73.02	60.84	58.28	59.88	55.25	55.56	55.54
22						72.04	60.39	58.08	59.16	55.60	55.74	55.28
23						69.37	60.91	57.90	58.57	55.90	55.58	55.63
24						66.76	60.33	57.69	57.94	55.98	57.22	55.46
25						65.33	59.82	57.44	57.70	56.36	57.72	55.52
26						64.36	59.46	57.38	57.50	56.05	57.08	55.26
27						63.98	59.32	57.42	57.28	55.60	56.64	55.25
28						64.95	59.26	57.56	57.12	55.36	56.18	55.13
29						65.12	59.11	57.37	57.17	55.71	56.05	55.11
30						63.86	58.91	57.23	56.86	55.83	56.24	55.32
31						63.07	-	57.12	-	55.87	56.44	-

Delaware River at Easton, Pa.--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56.46	56.76	55.60	60.07	61.40	59.66	59.09	60.88	57.52	58.68	56.40	57.62
2	56.29	56.67	55.98	60.67	60.66	59.36	59.34	60.16	57.48	58.64	56.00	57.34
3	56.10	56.47	56.42	60.53	59.88	59.22	60.00	59.74	57.38	58.95	55.94	57.09
4	55.68	56.56	56.78	60.49	59.11	58.92	59.67	59.57	57.35	58.52	55.98	56.98
5	55.73	56.94	56.60	60.33	58.97	58.86	59.40	59.33	57.42	58.23	56.00	56.98
6	55.66	62.76	56.68	59.74	58.80	59.10	61.40	59.08	57.26	57.88	55.96	56.87
7	55.64	61.36	58.31	59.38	58.78	59.01	66.19	59.14	57.60	57.67	56.12	57.78
8	55.64	59.97	57.36	59.52	58.60	58.54	65.74	59.24	59.10	57.42	56.28	57.93
9	55.68	59.28	57.68	59.50	58.70	58.40	63.58	58.81	59.09	57.16	56.08	57.46
10	55.73	58.89	58.04	59.97	58.92	58.16	63.89	58.54	58.28	56.92	55.66	57.10
11	55.86	58.43	58.03	60.38	59.52	57.92	63.19	58.42	57.79	56.80	56.44	56.90
12	55.76	58.08	59.98	59.95	58.82	57.67	61.88	58.20	57.64	56.83	58.40	56.79
13	55.53	57.62	63.12	59.56	58.56	57.47	61.21	58.01	57.25	56.88	58.60	56.60
14	55.59	57.41	61.13	59.28	58.58	57.65	60.73	58.24	57.26	56.88	58.29	56.66
15	55.69	57.19	60.11	59.75	59.46	57.55	60.65	60.40	57.14	56.96	58.20	57.16
16	55.62	57.08	59.56	61.24	60.05	57.58	61.60	64.18	57.68	57.15	57.32	57.32
17	55.79	57.06	59.71	61.40	59.42	57.44	62.36	63.44	57.76	57.76	56.90	57.40
18	56.27	56.91	59.44	61.35	58.74	57.56	61.49	62.07	57.41	57.43	56.76	57.25
19	56.81	56.82	59.34	62.26	58.39	57.44	60.84	61.56	58.03	56.96	56.62	57.01
20	56.98	56.56	61.04	62.62	58.24	57.73	60.88	60.92	57.74	56.60	56.60	56.87
21	56.92	56.56	62.26	61.65	58.32	58.44	60.51	60.43	57.86	56.74	56.41	56.31
22	56.62	56.40	61.68	61.86	62.10	59.62	61.81	60.07	59.63	56.58	56.70	56.96
23	56.52	56.40	60.25	64.79	69.30	60.16	64.63	59.57	62.27	56.31	59.85	56.86
24	56.41	56.38	59.55	64.27	64.87	59.96	64.43	59.34	61.10	56.32	60.22	56.71
25	56.34	56.38	59.26	64.02	62.82	60.03	62.89	59.26	59.57	56.26	58.86	56.42
26	56.72	56.22	59.21	66.74	61.71	60.60	61.69	58.90	58.98	56.24	58.06	56.23
27	57.08	56.20	58.97	65.56	60.88	60.16	61.83	58.55	58.34	56.07	57.82	56.27
28	57.27	55.94	59.08	63.43	60.24	59.59	62.02	58.50	57.96	56.16	58.16	56.12
29	57.34	55.96	59.22	62.16	-	59.22	62.07	58.63	58.12	56.24	59.06	56.46
30	56.96	56.44	59.28	61.57	-	58.88	61.55	58.19	58.26	56.28	58.74	56.33
31	56.88	-	59.16	61.19	-	58.82	-	57.90	-	56.11	58.04	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56.55	59.65	59.78	58.11	60.58	57.20	59.00	58.16	57.80	60.64	59.45	57.12
2	56.50	59.14	59.24	58.45	59.79	58.13	59.05	58.02	57.63	59.81	59.76	57.15
3	56.20	58.85	58.83	58.12	59.35	58.05	58.89	57.77	57.65	59.05	59.03	56.90
4	55.80	58.59	58.53	57.95	59.48	58.13	58.56	57.72	57.60	58.85	59.18	56.76
5	55.85	58.35	58.36	57.80	59.81	58.11	58.40	57.71	57.40	58.35	58.56	56.45
6	56.34	58.14	58.32	57.87	59.80	58.20	58.30	57.56	57.10	57.93	58.63	56.32
7	56.36	57.95	58.38	57.98	60.07	58.35	58.28	57.40	57.13	57.58	58.97	56.18
8	56.37	57.74	58.39	58.10	62.88	60.25	58.16	57.10	56.90	57.54	58.90	56.74
9	56.15	57.58	58.14	58.80	61.87	59.05	58.67	56.95	57.35	57.33	59.12	56.85
10	56.23	57.53	57.61	58.13	61.09	58.52	60.64	56.97	57.35	57.47	58.90	56.73
11	55.80	57.35	57.31	58.00	61.58	58.77	62.53	57.00	56.85	57.65	59.47	56.75
12	55.72	57.20	56.83	57.85	60.82	58.10	61.98	57.07	57.05	57.51	65.08	56.48
13	56.10	57.40	56.94	58.00	59.92	58.00	62.15	57.00	56.90	58.00	64.48	56.18
14	56.13	61.02	56.43	57.90	60.35	58.30	61.51	56.90	57.32	57.69	61.15	56.62
15	56.32	62.96	57.14	57.82	61.48	60.00	61.02	57.35	59.45	57.46	59.96	56.72
16	56.15	61.92	57.52	57.49	60.91	60.45	60.53	57.52	59.10	57.26	59.28	57.33
17	56.27	60.85	57.77	57.45	59.71	60.45	60.18	59.55	58.20	56.90	58.83	57.23
18	56.12	60.27	58.90	56.93	59.27	60.90	59.85	59.10	58.50	56.87	59.24	57.23
19	55.72	60.12	62.65	57.03	59.35	61.70	60.05	58.38	57.34	56.88	58.97	57.12
20	58.60	59.30	63.40	57.08	59.79	61.57	60.68	58.02	57.00	58.11	58.84	56.43
21	59.14	59.06	61.87	57.56	60.12	61.38	60.63	57.95	56.75	58.16	58.32	61.47
22	59.58	58.84	60.88	57.28	59.59	61.09	60.12	57.80	56.75	60.30	58.02	71.47
23	58.82	58.73	60.16	57.65	59.18	61.22	60.06	57.70	56.95	69.27	57.64	76.47
24	64.77	58.44	59.77	57.19	59.32	60.88	59.89	57.33	57.45	69.23	57.62	68.34
25	66.80	58.26	59.32	60.72	59.10	60.65	59.41	59.45	57.10	66.57	57.49	64.74
26	62.73	58.05	58.95	69.28	58.83	60.38	59.22	60.20	56.60	63.55	57.32	62.65
27	61.13	57.98	58.75	67.61	58.54	60.17	58.98	59.50	59.50	61.98	57.24	61.57
28	60.41	57.98	58.60	63.35	58.37	59.72	58.68	59.10	65.08	60.84	57.20	60.89
29	60.88	59.20	58.42	61.02	-	59.40	58.47	58.85	64.27	60.15	57.12	60.15
30	60.92	60.10	58.12	60.22	-	59.20	58.27	58.75	62.22	60.14	56.68	59.63
31	60.38	-	57.95	60.16	-	59.05	-	58.00	-	59.85	57.00	-

Delaware River at Easton, Pa.--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59.17	57.50	58.68	57.69	58.28	64.90	63.72	59.52	56.64	56.58	55.49	55.40
2	58.79	57.27	58.65	57.82	58.49	64.85	63.39	59.42	56.85	56.57	55.62	55.34
3	58.48	57.46	58.35	57.65	58.42	63.69	65.38	59.10	56.69	55.92	55.46	55.22
4	58.24	57.34	58.98	57.61	60.78	62.56	64.38	59.42	56.52	55.92	55.93	55.16
5	58.05	57.45	62.38	57.83	60.06	61.83	63.05	58.61	56.56	55.90	55.55	55.08
6	57.86	57.75	70.12	58.21	59.63	62.04	62.30	58.40	56.27	55.82	55.60	55.00
7	58.49	58.48	74.10	59.58	59.35	63.29	63.68	58.26	56.15	55.74	55.32	55.40
8	58.20	58.77	68.85	60.31	59.25	63.54	64.32	58.12	56.40	55.63	55.45	55.50
9	57.70	58.82	65.42	60.07	59.03	62.19	63.05	57.98	56.02	55.68	55.61	55.60
10	57.48	58.77	64.40	59.47	58.87	61.80	62.06	58.53	56.06	55.61	55.75	55.57
11	57.37	58.97	65.76	59.32	59.21	61.16	61.75	58.37	56.20	55.54	55.55	55.32
12	57.32	58.72	62.55	59.36	59.63	60.39	61.82	58.18	56.43	55.42	55.32	55.20
13	57.17	58.45	63.81	59.21	59.21	60.29	62.68	58.02	56.42	55.92	55.40	55.00
14	57.05	58.23	62.67	58.84	59.08	60.30	62.17	57.80	57.01	56.01	55.54	55.46
15	57.46	58.28	61.78	58.24	59.10	60.27	61.63	57.58	57.08	55.63	55.32	55.32
16	57.35	58.24	61.02	58.14	63.48	60.70	61.44	57.37	56.51	55.80	55.58	55.16
17	57.12	58.03	60.34	58.16	68.10	60.92	61.49	57.50	56.41	55.39	55.65	54.95
18	56.78	58.04	60.12	58.26	64.00	60.74	61.68	57.43	56.48	55.18	55.62	54.85
19	57.14	58.00	59.94	58.02	62.75	60.04	61.68	57.35	56.42	55.12	55.55	54.85
20	57.18	58.02	59.67	57.74	62.14	59.69	62.36	57.16	56.15	55.45	55.82	54.83
21	57.14	60.27	59.33	57.87	63.65	59.60	62.49	57.02	56.42	55.28	55.85	55.24
22	57.81	60.45	59.04	57.75	67.12	59.35	61.97	57.64	56.51	55.12	55.62	55.40
23	57.60	59.93	58.75	56.69	63.82	59.22	61.87	57.82	56.41	55.36	55.78	55.38
24	57.25	59.60	58.46	56.98	62.27	59.04	61.67	58.30	56.40	55.20	55.62	55.30
25	58.08	59.40	58.25	57.81	61.38	59.19	61.35	57.95	55.90	55.06	55.59	55.00
26	58.32	59.00	58.20	56.75	60.69	60.47	60.95	57.72	55.82	54.95	56.90	54.87
27	58.32	58.95	58.38	57.17	62.49	62.80	60.68	57.40	55.57	55.48	56.57	54.85
28	57.97	58.65	58.49	57.09	63.47	64.70	60.76	57.20	55.63	55.80	55.77	55.31
29	57.93	58.62	57.72	57.34	-	65.45	60.62	57.05	55.80	56.07	55.45	55.72
30	57.79	58.60	57.74	57.41	-	63.97	59.97	56.90	55.78	55.72	55.48	55.72
31	57.59	-	57.80	59.14	-	63.55	-	56.73	-	55.78	55.52	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56.24	58.10	56.12	56.39	55.93	56.38	81.16	60.58	60.79	58.58	56.45	63.83
2	56.12	59.96	56.05	55.95	55.91	56.22	74.38	60.52	61.93	58.06	56.40	66.30
3	56.50	59.60	56.12	55.87	55.67	56.25	68.42	60.98	61.72	58.53	56.20	63.51
4	57.00	58.60	56.37	55.98	55.83	59.91	67.55	61.02	61.17	58.15	56.15	61.10
5	56.92	58.10	56.40	56.20	55.83	59.53	67.96	60.53	60.39	57.78	55.65	59.54
6	56.74	58.08	57.00	55.52	55.79	58.45	68.80	60.10	59.82	57.44	55.43	58.72
7	56.42	58.74	56.75	55.90	55.83	58.22	66.73	59.77	59.37	57.18	56.17	58.00
8	56.36	58.50	56.55	56.12	55.97	57.98	66.15	59.40	58.85	56.95	56.20	57.60
9	55.96	58.43	56.45	55.85	55.80	57.75	71.64	59.18	58.55	56.75	56.14	57.37
10	55.80	58.39	56.43	55.73	55.91	57.57	74.05	59.13	59.38	56.83	56.08	57.45
11	56.28	58.34	56.38	55.85	57.00	57.10	69.05	58.82	59.12	56.79	56.15	57.45
12	55.75	57.95	56.35	55.86	56.73	56.90	66.70	58.55	58.84	57.00	55.60	57.30
13	55.77	58.09	56.55	55.92	56.45	57.12	67.96	58.38	58.56	57.24	55.40	57.08
14	55.53	58.02	56.50	56.10	56.50	57.42	67.34	58.16	58.37	57.30	55.85	56.95
15	55.45	57.73	56.34	57.40	56.14	69.97	65.10	58.10	58.01	56.93	55.92	56.78
16	55.40	57.60	56.35	57.82	56.60	62.28	64.05	58.08	57.94	56.67	55.83	56.52
17	55.32	57.20	56.20	57.38	56.44	60.95	63.35	59.04	57.58	56.55	55.89	56.39
18	55.72	57.17	56.19	56.58	56.39	60.94	62.75	60.79	57.40	56.47	55.88	56.45
19	55.84	57.09	56.32	57.25	56.48	61.17	63.05	60.48	57.46	56.35	55.90	56.40
20	55.51	56.87	56.50	56.85	56.78	61.73	63.93	59.50	57.34	56.45	55.46	56.27
21	55.24	56.78	58.08	56.37	57.10	61.96	66.47	59.79	57.20	56.30	55.94	56.28
22	55.20	57.07	60.21	56.23	56.65	62.02	69.33	60.59	57.00	55.98	55.77	56.26
23	55.85	56.95	59.72	56.40	56.70	61.28	67.51	60.24	56.87	55.87	55.72	56.17
24	56.46	56.55	58.34	56.30	56.62	60.12	65.38	60.15	56.84	56.35	55.70	55.95
25	56.39	56.32	57.60	56.40	56.57	59.86	64.05	59.75	57.00	56.80	55.60	56.30
26	56.27	56.45	57.30	56.15	56.09	59.35	63.10	59.95	57.90	56.84	55.46	57.08
27	56.12	56.62	57.39	56.10	56.05	59.20	62.35	60.65	58.14	56.60	55.41	56.85
28	56.28	56.16	57.08	56.22	56.10	59.12	61.55	61.17	57.77	56.38	56.12	56.59
29	57.51	56.40	56.98	55.93	56.12	60.16	61.08	60.86	57.73	56.18	57.29	56.41
30	58.29	56.25	56.76	55.95	-	59.82	60.80	60.38	58.38	55.95	57.10	56.25
31	57.98	-	56.88	55.73	-	68.93	-	60.23	-	56.65	56.55	-

Delaware River at Riegelsville

Location.- Water-stage recorder, lat. 40°35'36", long. 75°11'17", at suspension bridge at Riegelsville, Warren County, 600 feet upstream from Musconetcong River. Datum of gage is 125.12 feet (revised) above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 6,344 square miles (revised), including that of Musconetcong River.

Records available.- July 1906 to September 1940 (after September 1931, flow of Musconetcong River included).

Average discharge.- 34 years, 11,010 second-feet, including flow of Musconetcong River after Sept. 30, 1931 (adjusted for storage and diversion).

Extremes.- 1906-40: Maximum discharge, 210,000 second-feet 8 to 10 a.m. Mar. 19, 1936 (gage height, 32.45 feet), by slope-area method; minimum, not including flow in canal, 870 second-feet Sept. 20, 1903 (gage height, 1.55 feet).

Maximum stage known, 35.9 feet Oct. 10, 1903, from floodmarks (discharge, about 275,000 second-feet).

Peak gage height and discharge during period of this report.-

1935: July 10 (6:30 a.m.) 23.2 ft., 125,000 sec.-ft.
1936: Mar. 12 (10 to 12 p.m.) 29.79 ft., 185,000 sec.-ft.; Mar. 19 (8 to 10 a.m.) 32.45 ft., 210,000 sec.-ft.
1937: Feb. 23 (8 a.m.) 16.50 ft., 72,500 sec.-ft.
1938: Jan. 26 (6 p.m.) 17.70 ft., 81,200 sec.-ft.; Sept. 22-23 (11 p.m. to 2 a.m.) 23.00 ft., 123,000 sec.-ft.; Dec. 7 (5 to 7 a.m.) 20.05 ft., 98,800 sec.-ft.
1940: Apr. 1 (noon) 26.47 ft., 154,000 sec.-ft.; Apr. 10 (12:30 a.m.) 21.26 ft., 109,000 sec.-ft.

Remarks.- Water diverted above station to Delaware Division Canal. Flow regulated by Lakes Hopatcong and Wallenpaupack and Toronto, Cliff Lake, and Swinging Bridge Reservoirs (combined capacity, 13,100,000,000 cubic feet).

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28 500	6 080	37 000	7 820	6 850	12 700	16 300	12 400	4 140	5 610	6 700	2 940
2	21 100	6 380	81 900	7 170	7 010	12 400	15 000	13 900	4 280	4 860	a7 100	2 940
3	15 800	6 540	64 500	6 850	7 490	12 000	14 200	12 400	3 880	4 560	a7 400	2 730
4	12 700	7 170	42 200	7 170	7 330	12 000	13 900	11 200	3 760	4 280	a8 500	4 520
5	11 200	13 100	32 600	6 230	6 540	12 700	12 700	11 200	4 860	4 140	a6 900	11 200
6	12 400	18 000	26 000	6 700	6 380	13 500	12 400	12 000	4 710	3 390	a5 400	8 150
7	15 400	16 700	21 600	7 660	6 080	18 000	11 600	12 400	5 160	4 010	a5 400	6 850
8	15 400	14 200	18 400	9 500	6 080	27 000	10 900	18 000	5 010	5 160	5 310	5 460
9	13 100	12 700	15 000	12 700	6 380	22 600	11 600	24 000	5 160	28 300	4 860	4 280
10	11 200	12 000	12 400	40 400	6 380	18 000	12 400	18 800	6 380	103 000	4 560	4 420
11	10 200	10 900	10 500	53 800	6 230	17 500	13 100	18 000	6 700	55 700	5 160	4 560
12	9 160	9 840	9 160	37 800	5 760	22 600	13 900	16 300	6 380	35 700	4 420	4 140
13	8 480	9 160	10 200	25 500	5 760	37 300	14 600	13 900	5 460	26 500	4 010	3 760
14	8 150	9 160	9 500	18 800	6 230	30 500	15 000	12 700	5 160	19 700	4 710	3 880
15	7 330	8 480	9 160	14 600	11 600	24 000	15 400	12 000	4 420	15 400	5 160	4 280
16	7 490	8 150	9 160	12 700	11 600	20 200	15 800	10 500	3 880	15 000	4 710	3 880
17	7 490	7 660	8 820	12 000	12 700	20 200	16 300	9 840	3 390	15 400	4 280	3 160
18	7 170	7 330	8 150	11 200	12 400	27 500	15 800	8 820	3 390	12 700	4 140	3 160
19	7 010	7 330	8 820	9 840	11 600	28 500	15 000	7 820	5 310	10 900	3 510	3 050
20	6 850	7 170	14 600	9 840	10 900	24 000	15 000	7 010	6 380	10 200	3 280	3 050
21	6 230	7 170	16 300	9 840	9 160	22 600	15 000	6 700	6 380	9 500	4 140	3 280
22	6 080	7 660	15 400	11 200	8 820	26 500	14 600	6 700	6 230	9 500	4 280	3 390
23	5 920	7 490	12 700	12 400	8 150	25 500	13 900	6 380	7 490	8 820	4 140	2 940
24	6 700	8 820	10 900	10 500	7 490	22 600	13 500	6 230	7 490	10 200	4 010	2 530
25	6 700	12 000	9 840	8 150	7 820	21 100	12 700	5 760	7 010	9 840	3 760	3 050
26	6 380	13 500	9 840	8 150	11 400	19 300	11 600	5 160	6 230	11 200	2 940	3 160
27	5 920	12 000	10 200	7 330	13 900	17 100	10 900	4 860	5 460	12 700	2 530	2 940
28	6 080	11 200	8 820	6 540	12 400	15 000	9 840	4 560	5 310	9 840	3 160	2 730
29	5 920	12 000	9 160	6 850	-	16 300	9 500	4 860	5 460	7 820	3 160	2 940
30	5 920	15 000	8 480	7 660	-	18 000	10 900	4 710	6 230	7 490	2 840	2 840
31	5 760	-	7 170	6 850	-	16 300	-	4 420	-	7 170	2 530	-

a No gage-height record; discharge computed on basis of records for stations at Belvidere and Trenton.

Delaware River at Riegelsville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 440	44 500	38 900	6 080	7 490	12 700	25 000	10 500	5 010	4 710	c2 600	4 010
2	2 940	26 000	29 500	6 230	7 010	12 000	23 500	10 900	4 710	4 710	c2 520	4 010
3	2 940	17 500	24 500	16 500	7 010	11 200	23 000	9 840	5 310	4 010	c2 130	3 390
4	3 160	13 100	20 200	21 100	6 700	11 600	22 600	10 200	5 460	3 880	1 800	2 940
5	3 160	11 200	16 300	18 000	6 850	12 700	19 700	10 500	5 460	4 010	2 090	2 730
6	3 050	9 500	14 600	17 100	6 700	12 700	30 400	9 840	5 010	3 390	2 530	2 440
7	2 730	8 480	12 400	14 600	6 380	12 400	51 200	9 160	4 710	3 160	2 530	2 300
8	2 340	10 200	11 600	13 100	5 920	12 000	46 900	8 480	3 880	3 510	2 530	2 160
9	2 840	9 500	11 600	13 900	6 230	12 400	37 300	8 150	3 630	3 390	2 530	2 210
10	2 940	9 500	12 700	20 700	6 080	15 800	33 600	8 150	4 280	3 390	2 180	2 530
11	2 730	8 480	13 500	15 400	5 460	34 500	32 600	8 150	4 420	3 760	2 200	3 050
12	2 340	7 660	13 500	13 900	5 460	143 000	32 000	7 490	5 160	3 880	2 730	2 940
13	2 320	9 500	11 600	13 100	6 080	163 000	31 000	7 490	6 230	3 630	2 940	2 840
14	2 020	24 100	10 900	13 100	5 920	91 600	34 100	8 150	6 230	c2 900	2 840	2 440
15	2 090	41 700	10 900	12 700	6 080	57 600	34 700	9 500	5 310	c3 260	3 050	1 900
16	2 320	26 500	12 400	19 300	6 230	49 400	31 500	8 480	5 610	c3 200	3 160	2 160
17	2 730	21 100	13 900	17 500	6 230	64 800	28 500	7 660	5 010	c3 140	2 530	2 530
18	2 530	23 500	13 500	16 300	6 080	155 000	25 000	7 010	6 540	c3 000	2 200	2 320
19	2 200	20 700	12 000	14 600	5 760	204 000	21 600	6 850	10 200	c2 800	2 110	2 150
20	2 160	18 800	10 900	8 820	5 610	148 000	18 800	8 480	14 600	c2 520	1 990	2 440
21	2 160	20 200	9 840	9 840	5 610	92 600	17 500	8 150	13 500	c2 440	2 160	2 230
22	1 940	23 000	8 150	10 500	5 610	84 100	16 700	7 490	11 200	c2 480	2 530	1 920
23	2 080	20 700	7 820	9 840	5 460	66 600	16 700	6 850	9 160	c2 750	2 200	2 200
24	2 730	18 000	6 850	8 150	5 160	49 400	15 400	6 380	7 490	c3 050	5 590	2 210
25	2 440	15 000	6 700	9 160	5 010	41 100	13 500	5 920	6 850	c3 340	6 700	2 110
26	2 300	13 500	7 330	9 840	5 920	35 700	12 400	5 920	6 230	c2 900	5 610	2 040
27	2 140	12 700	5 920	8 820	9 840	33 100	11 600	6 230	5 610	c2 550	4 420	1 940
28	1 990	12 700	5 920	7 820	12 400	37 300	10 900	6 380	5 310	c2 270	3 510	1 740
29	1 870	34 600	6 080	8 820	12 700	39 500	10 900	6 080	5 310	c2 460	3 280	1 660
30	4 790	50 000	5 610	8 820	-	37 800	10 200	5 760	4 560	c2 650	3 390	1 820
31	23 700	-	5 610	8 150	-	28 000	-	5 460	-	c2 640	3 630	-

c Intake pipe to recorder partly plugged; discharge computed on basis of recorder charts, observer's weekly readings, and records for station at Trenton.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3 750	4 860	2 410	14 800	22 300	14 400	11 700	19 500	7 330	10 600	a3 700	7 490
2	3 880	4 720	3 350	17 700	18 600	13 200	12 400	16 400	7 170	10 200	a3 500	6 700
3	3 350	4 290	4 580	16 900	15 200	12 400	14 800	14 800	7 010	11 300	a3 200	6 230
4	2 930	4 290	5 010	16 900	12 400	11 700	14 400	14 000	7 010	9 850	a3 200	5 920
5	2 770	5 010	4 720	16 400	11 700	11 300	13 200	13 200	7 170	9 150	a3 200	5 610
6	2 630	22 000	4 860	14 000	10 900	11 700	19 700	12 400	6 700	8 140	a3 100	5 460
7	2 610	21 400	8 540	12 800	11 300	11 700	43 600	12 000	7 330	7 490	a3 200	7 490
8	2 500	14 800	7 650	13 200	10 600	10 200	44 500	12 400	10 900	7 010	a3 400	8 140
9	2 680	12 000	7 490	12 800	10 200	9 500	33 400	11 300	11 700	6 380	3 350	6 850
10	2 740	10 600	7 980	14 400	11 300	9 150	33 900	10 600	9 150	5 920	2 810	6 230
11	3 000	9 150	8 140	16 400	12 800	8 300	31 300	9 850	7 980	5 460	4 540	5 610
12	2 960	7 980	14 800	15 200	11 300	7 650	24 200	9 500	7 490	5 610	9 150	5 310
13	2 500	7 170	27 700	13 600	10 200	7 170	21 400	8 810	6 540	5 610	9 150	4 720
14	2 410	6 540	20 500	12 400	10 200	7 330	18 600	9 500	6 540	5 920	8 640	4 860
15	2 740	5 920	15 600	13 600	13 200	7 490	18 200	17 400	6 380	6 230	8 640	6 230
16	2 740	5 610	13 200	20 000	15 200	7 490	21 900	35 300	7 490	7 010	6 540	7 330
17	3 000	5 460	13 600	21 900	13 200	7 170	26 700	32 800	7 810	7 810	5 460	6 850
18	3 740	5 310	12 800	21 400	10 900	7 170	22 300	25 700	7 010	7 010	5 160	6 380
19	5 160	5 010	12 000	24 700	9 850	7 010	19 500	23 300	8 300	5 920	5 010	5 760
20	5 460	4 580	18 700	27 700	9 150	7 650	19 500	20 500	7 810	5 160	5 010	5 310
21	5 610	4 430	25 200	22 800	9 150	9 850	17 700	17 700	8 300	a4 800	4 430	5 310
22	4 860	4 150	22 800	22 800	21 700	13 600	22 800	16 000	15 100	a4 600	4 860	5 760
23	4 290	4 020	16 400	37 500	64 800	15 600	37 200	14 000	25 700	a4 000	16 000	5 460
24	4 150	3 880	13 600	36 600	41 000	15 200	37 800	13 200	20 000	a4 000	16 400	5 010
25	3 880	4 020	12 000	34 400	29 200	15 200	29 700	12 800	14 800	a3 800	11 300	4 290
26	4 430	3 740	11 700	47 500	23 700	17 700	23 700	11 300	11 700	a3 600	8 810	3 880
27	5 610	3 610	11 300	44 500	19 500	16 000	24 200	10 600	9 850	a4 000	8 140	3 880
28	5 760	3 220	11 300	32 800	16 900	14 000	24 700	9 850	8 470	a3 900	9 150	3 480
29	6 230	3 030	11 700	26 200	-	12 400	25 200	10 600	8 470	a3 800	11 700	4 150
30	5 310	3 480	12 000	22 800	-	11 300	22 800	9 150	9 150	a3 700	10 900	4 290
31	5 010	-	11 700	20 900	-	10 600	-	8 140	-	a3 700	8 470	-

a No gage-height record; discharge computed on basis of observer's weekly readings and records for station at Trenton.

Delaware River at Riegelsville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4 290	13 600	14 800	9 500	17 300	8 140	12 000	9 150	7 980	18 600	13 600	6 230
2	4 150	12 000	12 800	9 850	15 200	9 150	12 000	8 470	7 490	15 200	15 200	6 080
3	3 610	11 300	11 700	9 150	14 000	9 150	11 300	8 140	7 490	12 800	14 800	5 460
4	3 200	10 200	10 600	8 810	14 000	8 810	10 600	8 140	7 170	11 300	12 400	5 010
5	3 280	9 500	9 850	8 470	15 600	9 150	9 850	7 810	6 540	9 850	10 600	4 290
6	3 740	8 810	9 850	8 640	14 800	9 150	9 850	7 490	6 230	8 470	11 700	4 020
7	4 020	8 300	10 600	9 500	17 300	11 100	9 850	6 850	5 920	7 490	11 700	3 880
8	4 020	7 810	10 200	11 700	27 700	16 000	9 850	6 080	6 230	7 490	10 900	4 860
9	3 610	7 330	9 150	11 300	23 700	12 400	12 000	5 760	6 540	6 850	11 700	5 010
10	3 610	7 170	8 140	9 500	20 500	10 600	21 400	5 920	6 230	7 010	12 000	5 010
11	3 120	6 850	7 010	8 810	21 900	9 850	26 700	6 080	5 920	7 330	14 000	5 010
12	2 880	6 380	5 610	8 640	18 600	9 150	24 200	6 230	5 610	7 810	44 400	4 430
13	3 320	8 690	5 460	8 640	15 600	8 640	24 200	5 920	5 460	8 640	34 800	4 020
14	3 480	23 400	5 010	8 810	18 600	9 850	21 900	5 610	9 180	7 810	20 000	4 720
15	3 740	29 700	6 540	8 640	21 900	16 000	20 000	7 330	12 800	7 330	14 800	5 160
16	3 610	23 700	7 170	7 170	18 600	17 700	17 700	11 300	9 150	6 700	13 200	6 700
17	3 740	19 500	7 980	7 010	14 800	17 700	16 000	13 600	7 650	5 760	12 000	6 380
18	3 080	16 900	13 200	6 080	13 600	20 000	15 200	11 700	8 470	5 610	13 200	6 380
19	3 250	14 800	27 200	5 760	14 400	23 300	16 000	9 500	6 540	6 230	12 000	6 540
20	9 030	13 600	30 200	6 080	16 000	22 300	18 200	8 640	5 610	10 600	11 300	12 400
21	11 700	12 400	23 300	6 700	16 000	20 900	17 700	8 300	5 160	16 000	9 500	30 300
22	13 600	11 700	19 000	6 540	14 400	20 500	16 000	7 980	5 760	21 400	8 300	91 900
23	17 300	10 900	16 400	7 010	13 200	20 500	16 000	7 810	5 610	56 500	7 650	103 000
24	44 400	10 200	14 800	6 540	14 000	19 500	14 800	8 810	6 540	63 500	7 490	56 200
25	46 900	9 500	12 800	26 900	12 800	18 600	13 200	14 000	5 610	46 300	7 170	37 900
26	27 200	8 810	11 700	66 900	11 700	16 900	12 400	15 200	6 310	31 800	6 700	27 700
27	20 000	8 300	10 900	52 600	10 600	15 600	11 700	13 600	14 000	24 200	6 380	22 300
28	17 700	8 810	10 600	31 300	9 850	14 400	10 900	12 000	35 800	19 500	6 230	19 000
29	19 000	12 800	10 200	21 400	-	13 600	10 200	10 900	34 400	16 400	5 920	16 000
30	19 000	16 000	9 500	17 300	-	12 800	9 500	9 500	25 200	16 900	5 310	14 000
31	16 900	-	8 810	16 900	-	12 400	-	8 470	-	15 200	5 760	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12 800	7 010	10 600	7 810	10 200	39 400	32 800	14 400	a4 500	4 580	2 450	2 370
2	11 300	6 540	10 200	8 140	10 200	38 800	33 400	14 000	a5 000	4 430	2 540	2 040
3	9 850	6 540	9 500	7 810	12 000	32 800	41 000	12 800	a4 700	3 350	2 370	1 820
4	9 500	6 540	15 300	7 650	19 000	27 200	36 600	12 000	a4 500	a3 000	3 000	1 800
5	8 810	6 700	29 000	7 980	16 000	25 200	30 200	11 300	a4 200	3 320	2 650	1 740
6	8 470	7 980	71 000	10 900	14 400	26 200	27 700	10 600	a4 200	3 000	2 520	1 650
7	9 850	9 850	91 800	14 400	13 600	31 800	34 400	9 850	a3 700	a2 700	2 080	2 200
8	9 150	10 900	60 100	16 900	12 800	31 300	36 100	8 810	a3 800	a2 500	2 220	2 410
9	7 650	11 300	42 800	15 600	12 000	25 700	30 700	8 810	a3 800	2 860	2 560	2 410
10	7 170	10 900	38 800	13 600	11 700	23 300	26 200	10 600	4 020	a2 600	2 770	2 540
11	6 850	11 300	45 700	13 200	13 600	20 900	23 700	10 200	4 430	a2 200	2 410	2 200
12	6 700	10 600	42 200	13 200	14 000	18 200	24 700	9 500	4 860	2 680	2 140	1 890
13	6 380	9 850	33 900	12 800	12 400	17 700	27 700	8 810	4 860	3 180	2 260	1 860
14	6 230	9 150	28 200	11 700	12 400	17 300	25 700	7 980	5 920	3 350	2 480	2 350
15	6 850	9 150	23 700	9 850	13 600	17 700	23 300	a7 000	6 080	3 050	2 120	2 140
16	6 540	9 500	20 000	9 150	32 300	19 500	23 300	a7 200	4 860	3 000	2 480	1 800
17	5 920	9 150	16 900	9 500	45 100	20 500	23 300	a7 000	a4 000	2 480	2 680	1 500
18	5 460	8 810	16 400	9 500	34 400	19 000	23 700	a6 700	a4 000	a1 900	2 610	1 380
19	5 920	8 810	15 200	9 150	28 700	16 000	24 200	a6 400	a4 000	a1 800	2 650	1 400
20	6 230	11 700	14 400	8 140	26 200	14 400	27 200	a6 000	a3 700	2 390	3 280	1 530
21	7 810	16 900	13 200	8 140	42 500	14 400	27 200	a5 800	4 430	2 040	3 350	1 890
22	7 810	17 300	12 000	7 650	49 300	14 000	25 200	7 170	4 580	a1 800	2 700	2 220
23	7 170	15 200	10 600	6 380	33 900	13 200	24 200	8 470	4 290	2 200	2 680	2 390
24	7 010	14 000	9 850	6 540	26 700	12 800	23 300	9 500	a3 800	1 870	2 740	2 200
25	8 810	12 800	9 500	7 650	22 300	13 200	21 400	8 470	a3 200	1 680	2 790	1 870
26	9 850	11 700	9 500	6 080	20 500	19 000	20 000	a7 500	a2 800	1 790	4 430	1 640
27	9 500	11 300	10 600	6 380	26 700	29 700	19 000	a6 500	a2 600	2 500	4 150	1 750
28	8 470	10 900	10 200	6 380	33 400	38 800	19 000	a6 000	a2 400	3 050	2 860	2 370
29	8 470	10 600	8 470	6 540	-	41 000	18 600	a5 500	3 120	3 350	2 300	2 880
30	7 980	10 200	8 140	7 980	-	35 500	16 000	a5 200	3 080	3 100	2 350	3 000
31	7 330	-	8 140	12 000	-	32 800	-	a4 800	-	3 030	2 410	-

a Faulty or no gage-height record; discharge computed on basis of records for station at Trenton.

Delaware River at Riegelsville--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4 020	9 500	3 610	4 580	3 200	4 020	147 000	17 300	20 900	10 200	4 430	31 600
2	3 880	14 800	3 610	3 610	3 150	3 740	94 800	17 300	24 200	9 150	4 290	43 900
3	4 720	13 200	3 610	3 740	2 930	4 140	59 500	18 600	22 800	9 850	3 740	29 700
4	5 610	10 200	4 150	3 880	2 960	17 300	54 900	18 600	19 500	8 810	3 480	19 000
5	5 610	8 640	4 150	3 740	3 000	13 400	58 800	16 900	16 900	7 810	2 770	13 600
6	5 160	9 150	5 610	3 300	2 910	9 500	60 100	15 200	14 800	6 850	2 450	10 600
7	4 290	10 600	5 160	3 880	2 980	8 810	50 500	14 000	13 200	6 230	3 480	8 470
8	3 880	9 850	4 720	3 880	3 180	8 140	48 100	12 800	11 300	5 610	3 610	7 330
9	3 250	9 500	4 290	3 350	3 050	7 650	85 700	12 000	11 300	5 310	3 350	7 010
10	3 000	9 500	4 150	3 200	3 180	7 170	94 100	11 300	12 800	5 610	3 280	7 010
11	3 480	9 150	4 150	3 220	5 610	6 230	62 100	10 600	12 400	5 310	3 300	7 010
12	3 000	8 140	4 430	3 150	5 160	5 610	50 500	9 500	11 300	5 920	2 630	6 540
13	3 030	8 640	4 720	3 350	4 290	5 920	56 800	8 810	10 600	6 540	2 330	6 080
14	2 520	8 300	4 430	3 740	4 290	7 390	52 400	8 810	9 500	6 700	2 980	5 610
15	2 330	7 650	4 150	8 560	4 020	53 100	39 900	8 470	8 470	5 760	3 100	5 160
16	2 300	7 010	4 020	8 300	4 430	25 700	33 900	8 810	a7 800	5 160	2 980	4 580
17	2 080	6 380	3 740	6 700	4 430	19 500	30 200	13 200	a7 000	4 860	2 980	4 290
18	2 450	6 230	3 740	5 920	4 430	19 000	27 200	17 700	7 170	4 720	3 050	4 430
19	2 700	5 920	4 150	b5 000	4 430	20 000	29 200	16 000	7 330	4 430	2 810	4 150
20	2 370	5 460	4 720	b4 500	5 460	21 900	36 600	13 600	7 170	4 580	2 370	4 020
21	1 910	5 310	8 450	4 430	5 920	23 300	51 800	16 400	6 700	4 290	2 810	4 150
22	2 100	5 610	16 000	4 290	5 310	23 700	64 200	17 700	6 080	3 740	2 740	4 020
23	3 220	5 310	13 600	4 580	5 010	20 000	53 600	16 900	5 610	3 610	2 630	3 740
24	4 020	4 430	9 850	4 430	4 580	16 000	42 200	16 400	5 610	4 150	2 650	3 350
25	4 150	4 150	7 810	4 430	4 430	14 000	34 400	15 200	6 230	5 010	2 630	4 860
26	3 740	4 150	7 170	4 020	4 020	12 400	29 500	16 000	8 640	5 310	2 500	6 230
27	3 480	4 290	6 230	3 610	3 740	11 700	25 700	18 200	9 150	4 860	2 540	5 310
28	4 150	3 880	5 610	3 740	3 610	12 800	21 900	20 500	8 300	4 430	4 150	4 720
29	7 010	4 020	5 460	3 610	3 880	15 200	19 500	18 600	8 300	4 020	6 080	4 430
30	9 150	3 880	4 860	3 350	-	14 800	18 200	17 300	10 200	3 740	5 610	4 020
31	8 470	-	5 010	3 150	-	75 900	-	17 300	-	4 720	5 010	-

a No gage-height record; discharge computed on basis of records for station at Trenton.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	303 740	28 500	5 760	9 798	9 552	1.51	1.74
November	304 890	18 000	6 080	10 160	10 340	1.63	1.82
December	568 480	81 900	7 170	18 340	18 870	2.97	3.42
Calendar year 1934	3 907 780	81 900	2 060	10 710	10 780	1.70	23.07
January 1935	413 750	53 800	6 230	13 350	13 240	2.09	2.41
February	240 440	13 900	5 760	8 587	8 467	1.33	1.38
March	633 500	37 300	12 000	20 440	21 200	3.34	3.85
April	403 340	16 300	9 500	13 440	13 730	2.16	2.41
May	323 530	24 000	4 420	10 440	10 710	1.69	1.95
June	161 100	7 490	3 390	5 370	5 059	.797	.89
July	488 590	103 000	3 390	15 760	15 750	2.48	2.86
August	143 000	8 500	2 530	4 613	3 841	.605	.70
September	120 210	11 200	2 530	4 007	3 438	.542	.60
Water year 1934-35	4 104 570	103 000	2 530	11 245	11 240	1.77	24.03
October 1935	100 120	23 700	1 870	3 230	2 870	.452	.52
November	581 920	50 000	7 660	19 400	20 130	3.17	3.54
December	391 230	38 900	5 610	12 620	12 670	2.00	2.31
Calendar year 1935	4 000 730	103 000	1 870	10 960	10 950	1.73	23.42
January 1936	391 790	21 100	6 080	12 640	12 450	1.96	2.26
February	192 990	12 700	5 010	6 655	6 324	.997	1.08
March	1 781 600	204 000	11 200	57 470	59 930	9.45	10.90
April	738 800	51 200	10 200	24 630	24 310	3.83	4.27
May	245 600	10 900	5 460	7 923	7 707	1.21	1.40
June	191 990	14 600	3 630	6 400	6 003	.946	1.06
July	99 780	4 710	2 270	3 219	2 329	.367	.42
August	92 210	6 700	1 800	2 975	2 585	.407	.47
September	73 370	4 010	1 660	2 446	2 084	.328	.37
Water year 1935-36	4 881 400	204 000	1 660	13 340	13 320	2.10	28.60

*Adjusted for change in contents in Lakes Hopatcong and Wallenpaupack and Toronto and Swinging Bridge Reservoirs, and for water diverted to Delaware Division Canal.

Delaware River at Riegelsville--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	118 690	6 230	2 410	3 829	3 619	0.570	0.66
November	204 280	22 000	3 030	6 809	6 807	1.07	1.19
December	373 330	27 700	2 410	12 040	12 560	1.98	2.28
Calendar year 1936	4 504 430	204 000	1 660	12 310	12 280	1.94	26.36
January 1937	685 600	47 500	12 400	22 120	22 960	3.62	4.17
February	476 450	64 800	9 150	17 020	17 650	2.78	2.90
March	341 130	17 700	7 010	11 000	11 220	1.77	2.04
April	731 000	44 500	11 700	24 370	25 250	3.98	4.44
May	462 600	35 300	8 140	14 920	15 180	2.39	2.76
June	286 360	25 700	6 380	9 545	9 595	1.51	1.68
July	191 680	11 300	3 600	6 183	5 932	.935	1.08
August	210 120	16 400	2 810	6 778	6 449	1.02	1.18
September	169 990	8 140	3 480	5 666	5 221	.823	.92
Water year 1936-37	4 251 230	64 800	2 410	11 650	11 820	1.86	25.30
October 1937	330 480	46 900	2 880	10 660	10 760	1.70	1.96
November	368 960	29 700	6 380	12 300	12 860	2.03	2.26
December	371 080	30 200	5 010	11 970	11 930	1.88	2.17
Calendar year 1937	4 625 450	64 800	2 810	12 670	12 870	2.03	27.56
January 1938	432 150	66 900	5 760	13 940	13 750	2.17	2.50
February	456 650	27 700	9 850	16 310	16 220	2.56	2.67
March	443 840	23 300	8 140	14 320	14 400	2.27	2.62
April	451 200	26 700	9 500	15 040	15 700	2.47	2.76
May	276 290	15 200	5 610	8 913	9 022	1.42	1.64
June	288 600	35 800	5 160	9 620	9 194	1.45	1.62
July	506 580	63 500	5 610	16 340	16 500	2.60	3.00
August	390 710	44 400	5 310	12 600	11 870	1.87	2.16
September	529 890	103 000	3 880	17 660	17 460	2.75	3.07
Water year 1937-38	4 846 430	103 000	2 880	13 280	13 280	2.09	28.43
October 1938	247 840	12 800	5 460	7 995	7 407	1.17	1.35
November	313 180	17 300	6 540	10 440	10 430	1.64	1.83
December	745 900	91 800	8 140	24 060	24 850	3.92	4.52
Calendar year 1938	5 082 830	103 000	3 880	13 930	13 890	2.19	29.74
January 1939	298 700	16 900	6 080	9 635	9 564	1.51	1.74
February	619 900	49 300	10 200	22 140	22 970	3.62	3.77
March	747 300	39 400	12 800	24 110	24 570	3.87	4.46
April	789 800	41 000	16 000	26 330	26 570	4.19	4.68
May	264 870	14 400	4 800	8 544	8 254	1.30	1.50
June	123 430	6 080	2 400	4 114	3 723	.587	.65
July	84 780	4 580	1 680	2 735	2 288	.361	.42
August	83 030	4 430	2 080	2 678	2 219	.350	.40
September	61 240	3 000	1 380	2 041	1 563	.246	.27
Water year 1938-39	4 379 970	91 800	1 380	12 000	11 960	1.89	25.59
October 1939	121 080	9 150	1 910	3 906	3 639	.574	.66
November	222 850	14 800	3 880	7 428	7 482	1.18	1.32
December	175 360	16 000	3 610	5 657	5 622	.886	1.02
Calendar year 1939	3 592 340	49 300	1 380	9 842	9 765	1.54	20.89
January 1940	133 240	8 560	3 150	4 298	4 281	.675	.78
February	117 590	5 920	2 910	4 055	4 164	.656	.71
March	508 020	75 900	3 740	16 390	17 730	2.79	3.22
April	1 533 300	147 000	18 200	51 110	52 770	8.32	9.28
May	460 000	20 500	8 470	14 840	14 930	2.35	2.71
June	331 260	24 200	5 610	11 040	10 830	1.71	1.91
July	177 290	10 200	3 610	5 719	5 273	.831	.96
August	102 760	6 080	2 330	3 315	2 607	.411	.47
September	274 920	43 900	3 350	9 164	9 476	1.49	1.66
Water year 1939-40	4 157 670	147 000	1 910	11 360	11 510	1.81	24.70

*Adjusted for change in contents in Lakes Hopatcong and Wallenpaupack and Toronto, Cliff Lake (after November 1939), and Swinging Bridge Reservoirs, and for water diverted to Delaware Division Canal.

Delaware River at Milford

Location.- Wire-weight gage, lat. 40°34'00", long. 75°05'55", on bridge at Milford, Hunterdon County. Datum of gage is 99.83 feet above mean sea level (United States Coast and Geodetic Survey datum).

Records available.- March 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 32.57 feet 9 to 11 a.m. Mar. 19, 1936; minimum observed, 8.90 feet Sept. 18 and 20, 1939.
Maximum stage known, 35.8 feet Oct. 10, 1903, from floodmark.

Remarks.- Gage read twice daily except during periods of gage heights above 13.9 feet, when it was read hourly. In tables, figures for March 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-				-	9.64	10.12
2						-				-	9.60	10.17
3						-				-	9.46	10.02
4						-				-	9.22	9.78
5						-				-	9.26	9.69
6						-				-	9.58	9.56
7						-				-	9.58	9.48
8						-				-	9.52	9.40
9						-				-	9.56	9.44
10						-				-	9.44	9.54
11						16.15				-	9.42	9.78
12						26.35				-	9.65	9.72
13						28.82				-	9.72	9.72
14						22.68				-	9.61	9.52
15						19.28				-	9.72	9.32
16						18.18				-	9.88	9.36
17						19.66				9.89	9.60	9.59
18						27.54				9.77	9.41	9.46
19						31.86				9.72	9.39	9.42
20						27.34				9.55	9.36	9.48
21						22.86				9.44	9.36	9.49
22						21.90				9.45	9.53	9.32
23						20.22				9.68	9.44	9.28
24						18.20				9.74	10.33	9.46
25						-				10.02	10.94	9.39
26						-				9.83	10.66	9.38
27						-				9.62	10.35	9.35
28						-				9.50	10.04	9.18
29						-				9.52	9.92	9.14
30						-				9.64	9.95	9.22
31						-				9.66	10.06	-

Delaware River at Milford--Continued

Daily mean gage height, in feet, 1936-37

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.96	10.36	9.50	12.84	14.23	12.80	12.22	13.78	11.02	11.84	10.05	11.11
2	10.00	10.30	9.69	13.44	13.58	12.50	12.41	13.18	10.90	11.76	9.80	10.86
3	9.82	10.12	10.36	13.34	12.88	12.44	12.92	12.85	10.89	12.09	9.60	10.72
4	9.73	10.18	10.44	13.31	12.38	12.20	12.76	12.68	10.83	11.82	9.75	10.60
5	9.66	10.36	10.32	13.22	12.26	12.08	12.49	12.50	10.89	11.54	9.82	10.55
6	9.62	14.52	10.36	12.76	12.08	12.24	13.65	12.30	10.80	11.26	9.69	10.48
7	9.59	14.22	11.64	12.46	12.12	12.23	17.36	12.26	10.95	11.00	9.74	10.86
8	9.54	13.03	11.24	12.60	11.95	11.88	17.63	12.42	12.00	10.86	9.89	11.37
9	9.66	12.44	11.24	12.49	11.86	11.60	15.90	12.09	12.32	10.66	9.78	10.93
10	9.60	12.12	11.38	12.85	12.14	11.59	15.96	11.92	11.60	10.56	9.56	10.69
11	9.70	11.72	11.32	13.32	12.37	11.38	15.46	11.66	11.18	10.42	9.88	10.54
12	9.62	11.31	12.59	13.03	12.18	11.16	14.56	11.56	10.99	10.37	11.72	10.44
13	9.56	11.09	15.32	12.70	11.89	11.02	14.02	11.43	10.76	10.24	11.62	10.18
14	9.48	10.92	14.06	12.43	11.80	11.09	13.60	11.52	10.78	10.54	11.38	10.20
15	9.62	10.80	13.14	12.63	12.48	11.10	13.49	13.18	10.62	10.56	11.53	10.73
16	9.64	10.66	12.60	13.85	13.04	11.08	14.11	16.13	10.96	10.89	10.86	10.96
17	9.76	10.56	12.66	14.20	12.64	11.03	14.86	15.93	11.10	11.14	10.44	10.92
18	9.98	10.59	12.52	14.10	12.02	11.03	14.22	14.78	10.88	10.98	10.37	10.72
19	10.46	10.42	12.38	14.63	11.78	10.96	13.70	14.34	11.26	10.54	10.34	10.63
20	10.46	10.28	13.60	15.19	11.62	11.23	13.74	13.84	11.17	10.26	10.34	10.46
21	10.56	10.22	14.73	14.39	11.62	11.76	13.48	13.46	11.25	10.36	10.64	10.34
22	10.36	10.20	14.36	14.36	13.90	12.76	14.26	13.10	12.50	10.24	10.48	10.51
23	10.16	10.47	13.20	16.56	20.13	13.12	16.46	12.73	14.64	10.10	12.80	10.52
24	10.12	10.10	12.66	16.49	17.08	13.00	16.59	12.53	14.05	10.00	13.42	10.38
25	10.06	10.13	12.32	16.12	15.38	13.02	15.44	12.46	12.97	9.93	12.28	10.08
26	10.12	10.10	12.26	18.00	14.46	13.56	14.55	12.14	12.22	9.82	11.60	9.96
27	10.55	9.98	12.08	17.55	13.78	13.20	14.51	11.85	11.69	9.95	11.35	9.90
28	10.54	9.82	12.12	15.89	13.31	12.78	14.62	11.75	11.34	9.79	11.53	9.78
29	10.82	9.78	12.24	14.82	-	12.43	14.68	11.90	11.36	9.98	12.12	10.12
30	10.59	9.99	12.32	14.33	-	12.09	14.30	11.60	11.50	9.96	12.12	10.13
31	10.43	-	12.17	14.00	-	11.99	-	11.26	-	9.87	11.44	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10.11	12.74	12.91	11.53	13.30	11.25	12.18	11.50	11.18	13.65	12.68	10.67
2	10.03	12.33	12.43	11.90	12.87	11.65	12.17	11.37	11.04	13.00	12.68	10.71
3	9.98	12.15	12.14	11.57	12.60	11.54	12.10	11.15	11.00	12.43	12.92	10.52
4	9.63	11.88	11.90	11.45	12.60	11.48	11.85	11.16	11.06	12.10	12.45	10.47
5	9.70	11.65	11.76	11.43	12.75	11.53	11.68	11.13	10.90	11.76	11.96	10.10
6	9.83	11.53	11.68	11.53	12.90	11.55	11.63	11.10	10.74	11.36	12.06	9.95
7	9.95	11.34	11.85	11.53	12.93	11.65	11.63	10.91	10.56	11.08	12.43	9.90
8	9.93	11.15	11.76	12.08	14.90	13.25	11.58	10.61	10.75	11.13	12.30	10.28
9	9.83	11.03	11.60	12.15	14.54	12.28	11.88	10.50	10.85	10.95	12.10	10.38
10	9.70	11.01	11.25	11.74	13.78	11.93	13.43	10.51	10.80	10.95	12.16	10.34
11	9.63	10.90	11.23	11.53	14.13	11.65	14.84	10.60	10.70	11.10	12.60	10.37
12	9.58	10.75	11.73	11.48	13.61	11.53	14.53	10.79	10.58	10.85	14.50	10.20
13	9.64	10.93	11.60	11.58	12.98	11.42	14.60	10.60	10.38	11.48	17.00	9.95
14	9.76	13.71	11.40	11.54	13.18	11.48	14.16	10.50	10.73	11.18	14.10	10.23
15	9.85	15.53	11.03	11.48	14.08	12.75	13.78	10.78	12.58	11.00	13.06	10.28
16	9.80	14.63	11.08	11.08	13.68	13.36	13.48	11.63	11.61	10.90	12.48	10.85
17	9.85	13.76	11.25	10.99	12.78	13.33	13.13	12.38	11.16	10.51	12.13	10.76
18	9.63	13.28	11.90	10.68	12.44	13.55	12.88	12.30	11.75	10.45	12.47	10.78
19	9.53	12.86	14.74	10.88	12.43	14.32	13.00	11.65	10.90	10.35	12.30	10.63
20	11.35	12.56	15.75	10.73	12.88	14.25	13.38	11.38	10.40	11.56	12.08	11.65
21	12.23	12.35	14.53	11.03	13.20	14.00	13.33	11.26	10.30	12.16	11.65	14.28
22	12.73	12.18	13.67	10.90	12.70	13.83	13.08	11.19	10.60	13.50	11.51	20.98
23	12.08	12.00	13.15	11.08	12.42	13.87	12.98	11.12	10.53	19.10	11.00	25.55
24	16.45	11.81	12.82	10.80	12.53	13.73	12.90	11.13	10.88	19.96	11.08	19.75
25	18.53	11.64	12.53	12.65	12.38	13.49	12.56	12.34	10.67	18.41	11.00	16.90
26	15.33	11.51	12.25	19.10	12.16	13.30	12.33	12.95	10.53	16.04	10.85	15.28
27	13.94	11.37	12.05	19.25	11.95	13.13	12.10	12.60	12.65	14.72	10.80	14.30
28	13.35	11.39	11.87	15.85	11.78	12.73	11.93	12.25	16.33	13.80	10.78	13.73
29	13.63	12.38	11.78	14.13	-	12.53	11.80	12.03	16.37	13.23	10.67	13.18
30	13.68	13.03	11.62	13.38	-	12.30	11.60	11.75	14.87	13.03	10.28	12.78
31	13.38	-	11.43	13.28	-	12.18	-	11.40	-	13.03	10.57	-

Delaware River at Milford--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.40	10.92	11.88	11.20	12.17	16.90	15.95	12.71	10.23	10.07	9.45	9.32
2	12.10	10.75	11.88	11.31	11.95	16.85	15.69	12.54	10.47	10.14	9.33	9.31
3	11.84	10.85	11.67	11.17	11.83	16.00	17.10	12.37	10.28	9.69	9.38	9.13
4	11.58	10.83	12.03	11.13	13.98	15.06	16.55	12.15	10.11	9.61	9.47	9.15
5	11.46	10.90	14.74	11.35	13.29	14.51	15.49	11.98	10.07	9.69	9.50	9.13
6	11.30	11.05	19.48	11.50	12.84	14.67	14.87	11.80	10.00	9.63	9.52	9.08
7	11.71	11.70	23.51	12.81	12.61	15.48	16.02	11.70	9.90	9.56	9.30	9.25
8	11.68	11.90	20.03	13.10	12.58	15.89	16.50	11.55	9.97	9.51	9.25	9.38
9	11.18	12.00	17.40	13.16	12.38	14.81	15.53	11.33	9.85	9.43	9.31	9.30
10	11.00	11.96	16.53	12.65	12.28	14.40	14.76	11.35	9.82	9.48	9.41	9.38
11	10.88	12.03	17.21	12.48	12.47	13.90	14.42	11.76	9.83	9.43	9.43	9.33
12	10.78	11.92	17.47	12.43	12.94	13.50	14.35	11.65	9.94	9.32	9.25	9.20
13	10.75	11.69	16.08	12.40	12.47	13.29	15.07	11.48	10.13	9.48	9.38	9.03
14	10.62	11.58	15.23	12.14	12.37	13.28	14.75	11.25	10.58	9.50	9.45	9.33
15	10.97	11.50	14.51	11.91	12.35	13.23	14.26	11.00	10.70	9.52	9.28	9.33
16	10.86	11.63	13.92	11.70	15.75	13.63	14.05	10.86	10.21	9.45	9.28	9.18
17	10.61	11.51	13.31	11.63	18.43	13.80	14.31	11.03	10.07	9.39	9.39	9.00
18	10.41	11.51	13.18	11.75	16.35	13.63	14.37	10.98	10.00	9.20	9.43	8.93
19	10.55	11.46	13.03	11.46	15.25	13.18	14.24	10.91	9.97	9.15	9.38	8.91
20	10.68	12.00	12.78	11.40	14.79	12.83	14.80	10.77	9.92	9.32	9.55	8.91
21	11.14	12.94	12.53	11.35	15.48	12.71	14.98	10.62	9.93	9.30	9.70	9.15
22	11.31	13.38	12.35	11.12	18.75	12.58	14.61	10.75	10.12	9.20	9.63	9.15
23	11.12	12.86	12.03	11.10	16.25	12.45	14.38	11.04	9.98	9.33	9.33	9.33
24	10.71	12.65	11.82	10.77	14.83	12.33	14.43	11.56	10.01	9.25	9.46	9.30
25	11.38	12.60	11.69	11.35	14.15	12.33	14.05	11.30	9.80	9.13	9.53	9.13
26	11.71	12.20	11.63	11.10	13.60	13.35	13.75	11.14	9.70	9.03	9.60	9.05
27	11.65	12.15	11.77	10.78	15.06	15.08	13.50	10.88	9.51	9.33	10.20	9.00
28	11.36	11.96	12.00	10.74	15.50	16.65	13.53	10.64	9.48	9.53	9.58	9.33
29	11.45	11.83	11.50	10.86	-	17.16	13.46	10.63	9.53	9.63	9.43	9.43
30	11.31	11.80	11.40	10.95	-	16.29	13.08	10.48	9.56	9.50	9.30	9.58
31	11.05	-	11.33	12.45	-	15.83	-	10.33	-	9.67	9.36	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.85	11.45	9.81	10.25	10.00	9.97	28.08	13.29	13.65	11.94	10.12	15.55
2	9.85	12.74	9.82	10.13	9.80	9.83	24.17	13.24	14.68	11.48	10.06	17.81
3	10.12	12.77	9.90	10.10	10.14	9.82	19.36	13.56	14.60	11.82	9.98	16.03
4	10.53	11.93	9.97	10.32	9.73	12.83	18.57	13.62	14.05	11.57	9.79	14.05
5	10.41	11.53	10.00	10.25	9.63	13.03	18.82	13.35	13.49	11.25	9.56	12.82
6	10.48	11.48	10.45	10.20	9.58	11.86	19.63	13.02	13.03	10.93	9.40	12.07
7	10.12	11.91	10.30	10.55	9.60	11.60	18.20	12.65	12.69	10.71	9.74	11.50
8	10.05	11.86	10.40	10.35	9.65	11.33	17.67	12.39	12.33	10.52	9.75	11.14
9	9.63	11.83	10.06	10.40	9.62	11.22	20.94	12.22	12.02	10.34	9.75	10.86
10	9.60	11.71	10.04	9.95	9.57	11.00	23.73	12.14	12.78	10.54	9.62	10.98
11	9.88	11.80	10.00	9.95	10.52	10.70	20.06	11.95	12.45	10.48	9.63	10.97
12	9.55	11.47	10.03	9.85	10.45	10.45	18.14	11.76	12.26	10.62	9.52	10.88
13	9.55	11.42	10.31	9.75	10.07	10.67	18.82	11.55	12.02	10.79	9.36	10.68
14	9.48	11.50	10.18	9.79	10.10	10.80	18.74	11.35	11.84	10.93	9.50	10.60
15	9.40	11.28	10.03	10.78	10.05	20.35	17.05	11.30	11.54	10.55	9.58	10.43
16	9.30	11.12	10.03	11.33	10.23	15.05	16.10	11.30	11.41	10.35	9.55	10.12
17	9.33	10.85	9.89	11.33	10.18	13.85	15.53	12.00	11.10	10.24	9.53	10.01
18	9.20	10.76	9.80	10.77	10.00	13.83	15.00	13.52	10.90	10.18	9.50	10.07
19	9.41	10.73	9.95	10.65	9.97	13.92	15.15	13.33	11.06	10.03	9.52	10.03
20	9.40	10.55	9.95	10.75	10.43	14.43	16.10	12.58	10.98	10.15	9.40	9.86
21	9.23	10.47	11.04	10.40	10.65	14.58	17.67	13.20	10.87	10.12	9.35	9.92
22	9.15	10.77	12.89	10.45	10.36	14.70	20.02	13.62	10.57	9.77	9.49	9.85
23	9.70	10.68	12.73	10.65	10.27	14.17	18.87	13.36	10.43	9.77	9.43	9.83
24	9.85	10.28	11.87	10.27	10.14	13.15	17.25	13.27	10.34	10.10	9.42	9.70
25	10.02	10.18	11.47	10.28	10.10	12.90	16.20	13.00	10.50	10.10	9.45	9.70
26	9.91	10.23	11.13	10.45	9.83	12.45	15.41	13.15	11.24	10.57	9.45	10.63
27	9.83	10.20	11.08	10.35	9.77	12.29	14.75	13.58	11.53	10.25	9.40	10.52
28	9.85	10.03	10.70	10.50	9.78	12.22	14.22	13.90	11.30	10.20	9.57	10.25
29	10.85	10.14	10.72	10.21	9.90	13.05	13.82	13.74	11.23	9.89	10.72	10.12
30	11.48	10.03	10.35	10.08	-	12.81	13.47	13.39	11.50	9.77	10.70	9.91
31	11.33	-	10.17	10.00	-	18.13	-	13.33	-	10.25	10.32	-

Delaware River at Frenchtown

Location.- Wire-weight gage, lat. 40°31'40", long. 75°04'00", on bridge at Frenchtown, Hunterdon County. Datum of gage is 99.88 feet above mean sea level (United States Coast and Geodetic Survey datum).

Records available.- March 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 21.93 feet 10 to 11 a.m. Mar. 19, 1936; minimum observed, 0.53 foot Sept. 18 and 20, 1939.
Maximum stage known, 24.4 feet Oct. 10, 1903, from floodmark.

Remarks.- Gage read twice daily except during periods of gage heights above 5.80 feet, when it was read hourly. In tables, figures for March 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	5.97	3.40	1.86	1.93	1.08	1.58
2						-	5.72	3.58	1.74	1.87	1.06	1.68
3						-	5.66	3.33	2.03	1.66	.89	1.50
4						-	5.68	3.33	2.06	1.55	.74	1.26
5						4.02	5.18	3.48	2.10	1.69	.74	1.14
6						3.99	6.70	3.28	1.92	1.40	1.05	1.04
7						3.90	9.15	3.10	1.82	1.32	1.02	.95
8						3.80	8.80	2.98	1.50	1.42	.96	.90
9						3.90	7.58	2.90	1.44	1.44	1.02	.90
10						4.36	7.13	2.78	1.62	1.37	.94	.96
11						6.88	6.98	2.88	1.67	1.48	.89	1.23
12						16.40	6.90	2.64	2.50	1.52	1.12	1.21
13						18.84	6.78	2.64	2.70	1.38	1.16	1.16
14						13.22	7.21	2.71	2.41	1.22	1.20	1.05
15						9.96	7.29	3.18	2.02	1.34	1.18	.91
16						8.89	6.88	2.89	2.08	1.34	1.36	.82
17						10.21	6.43	2.70	1.95	1.32	1.08	1.06
18						17.32	5.94	2.53	2.40	1.26	.88	.96
19						21.26	5.46	2.44	3.51	1.16	.87	.90
20						17.32	5.01	2.86	4.38	1.02	.84	.92
21						13.21	4.79	2.82	4.00	.90	.80	.96
22						12.32	4.64	2.64	3.64	.88	1.02	.78
23						10.76	4.68	2.50	3.11	1.17	.88	.80
24						9.05	4.42	2.35	2.70	1.20	1.78	.92
25						8.04	4.07	2.20	2.50	1.50	2.37	.84
26						7.36	3.86	2.16	2.34	1.32	2.16	.84
27						6.96	3.66	2.37	2.16	1.08	1.86	.86
28						7.56	3.56	2.31	2.04	.98	1.50	.73
29						7.93	3.45	2.22	2.08	.96	1.41	.66
30						7.02	3.35	2.18	1.78	1.12	1.42	.72
31						6.42	-	2.06	-	1.14	1.50	-

Delaware River at Frenchtown--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.37	1.84	0.95	4.20	5.51	4.16	3.62	5.04	2.56	3.27	1.62	2.62
2	1.52	1.78	1.34	4.75	4.92	3.92	3.80	4.52	2.44	3.24	1.39	2.42
3	1.28	1.70	1.77	4.65	4.26	3.84	4.26	4.22	2.44	3.50	1.24	2.29
4	1.22	1.68	1.92	4.66	3.84	3.63	4.14	4.06	2.38	3.28	1.32	2.17
5	1.10	1.82	1.80	4.57	3.69	3.52	3.91	3.89	2.46	3.02	1.38	2.10
6	1.08	5.33	1.84	4.14	3.53	3.66	4.90	3.72	2.36	2.77	1.28	2.02
7	1.06	5.42	3.00	3.86	3.55	3.66	8.20	3.68	2.46	2.53	1.30	2.36
8	1.00	4.30	2.67	4.00	3.41	3.34	8.52	3.81	3.36	2.42	1.46	2.88
9	1.08	3.78	2.67	3.90	3.30	3.14	6.98	3.53	3.72	2.24	1.34	2.46
10	1.06	3.44	2.74	4.24	3.54	3.06	7.03	3.37	3.04	2.13	1.16	2.24
11	1.16	3.10	2.78	4.66	3.78	2.88	6.74	3.15	2.68	1.96	1.42	2.12
12	1.19	2.77	3.86	4.37	3.66	2.70	5.79	3.08	2.54	1.92	3.18	2.00
13	1.01	2.54	6.42	4.11	3.34	2.56	5.28	2.94	2.35	1.86	3.14	1.73
14	.92	2.36	5.25	3.85	3.24	2.61	4.86	3.00	2.34	2.11	2.85	1.48
15	1.06	2.24	4.46	4.01	3.84	2.62	4.78	4.40	2.18	2.12	3.00	2.27
16	1.10	2.12	3.99	5.09	4.38	2.64	5.33	7.12	2.45	2.46	2.42	2.16
17	1.18	2.04	4.04	5.44	4.06	2.54	6.03	7.01	2.61	2.64	2.03	2.45
18	1.38	2.11	3.92	5.39	3.48	2.56	5.46	5.98	2.46	2.52	1.94	2.26
19	1.93	1.90	3.78	5.82	3.24	2.51	4.98	5.56	2.74	2.12	1.92	2.18
20	1.84	1.74	4.90	6.28	3.10	2.74	5.00	5.12	2.70	1.83	1.93	1.96
21	2.12	1.70	5.92	5.64	3.10	3.27	4.72	4.76	2.74	1.92	1.75	**1.90**
22	1.85	1.62	5.60	5.60	5.00	4.04	5.42	4.45	3.88	1.82	2.08	2.08
23	1.64	1.59	4.58	7.52	10.68	4.44	7.45	4.12	5.77	1.68	3.96	2.58
24	1.59	1.53	4.05	7.49	8.02	4.36	7.55	3.92	5.33	1.56	4.74	1.95
25	1.52	1.60	3.74	7.17	6.53	4.36	6.51	3.86	4.32	1.57	3.72	1.78
26	1.55	1.51	3.68	8.80	5.70	4.84	5.69	3.60	3.64	1.38	3.10	1.53
27	2.54	1.42	3.52	8.44	5.08	4.56	5.60	3.30	3.16	1.53	2.86	1.46
28	1.99	1.34	3.54	6.94	4.62	4.12	5.79	3.21	2.85	1.38	3.00	1.40
29	2.29	1.23	3.63	5.99	-	3.84	5.87	3.32	2.80	1.60	3.54	1.68
30	2.04	1.40	3.74	5.57	-	3.54	5.54	3.10	2.95	1.54	3.27	1.70
31	1.88	-	3.60	5.20	-	3.44	-	2.80	-	1.46	2.94	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.63	4.15	4.28	2.98	4.58	2.86	3.63	2.96	2.71	4.98	4.08	2.27
2	1.56	3.75	3.85	3.36	4.25	3.18	3.63	2.89	2.60	4.38	4.06	2.30
3	1.48	3.53	3.58	3.07	4.02	3.05	3.55	2.69	2.57	3.87	4.30	2.13
4	1.15	3.32	3.35	2.93	3.95	3.00	3.36	2.70	2.63	3.57	3.89	1.95
5	1.27	3.14	3.25	2.93	4.12	3.02	3.17	2.68	2.48	3.26	3.46	1.70
6	1.36	3.03	3.15	3.01	4.28	3.05	3.12	2.56	2.32	2.89	3.54	1.53
7	1.49	2.85	3.25	3.05	4.25	3.12	3.10	2.49	2.15	2.65	3.90	1.49
8	1.38	2.68	3.20	3.54	6.03	4.60	3.07	2.21	2.34	2.69	3.72	1.83
9	1.35	2.55	3.10	3.60	5.75	3.13	3.34	2.07	2.42	2.54	3.44	1.95
10	1.20	2.55	2.75	3.20	5.05	3.35	4.75	2.10	2.37	2.53	3.62	1.93
11	1.23	2.45	2.75	2.89	5.33	3.15	6.02	2.11	2.26	2.67	4.03	1.97
12	1.15	2.30	2.44	3.00	4.93	3.05	5.73	2.29	2.16	2.43	5.26	1.80
13	1.15	2.35	2.32	3.08	4.35	2.90	5.18	2.22	1.98	3.04	8.04	1.54
14	1.28	4.95	1.77	3.03	4.49	2.95	5.41	2.11	2.27	2.76	5.41	1.80
15	1.33	6.67	2.50	3.00	5.32	4.12	5.07	2.34	3.99	2.58	4.44	1.84
16	1.35	5.84	2.60	2.63	4.95	4.14	4.77	3.09	3.13	2.52	3.90	2.41
17	1.37	5.05	2.73	2.58	4.20	4.67	4.48	3.80	2.70	2.11	3.61	2.36
18	1.19	4.60	3.33	2.20	3.85	4.85	4.26	3.76	3.10	2.05	3.89	2.37
19	1.15	4.20	5.78	2.55	3.78	5.58	4.36	3.15	2.45	1.94	3.74	2.25
20	2.70	3.95	6.80	2.18	4.28	5.52	4.69	2.92	2.10	3.16	3.55	3.13
21	3.59	3.77	5.72	2.53	4.55	5.30	4.65	2.79	1.91	3.67	3.15	5.54
22	4.10	3.62	5.94	2.47	4.13	5.12	4.44	2.73	2.18	4.88	3.03	11.35
23	3.54	3.45	4.47	2.53	3.85	5.16	4.36	2.66	2.13	9.70	2.56	15.43
24	7.45	3.27	4.18	2.35	3.95	4.95	4.27	2.67	2.43	10.63	2.64	10.43
25	9.35	3.12	3.92	3.76	3.82	4.80	3.98	3.74	2.26	9.29	2.58	7.94
26	6.50	3.02	3.65	9.73	3.63	4.65	3.74	4.30	2.13	7.16	2.44	6.46
27	5.23	2.88	3.50	10.10	3.43	4.37	3.56	4.02	4.03	5.93	2.36	5.55
28	4.70	2.87	3.30	7.15	3.32	4.13	3.41	3.70	7.19	5.11	2.37	5.03
29	4.95	3.75	3.25	5.55	-	3.94	3.30	3.47	7.40	4.60	2.26	4.55
30	4.95	4.35	3.13	4.70	-	3.14	3.09	3.23	6.09	4.41	1.89	4.16
31	4.70	-	2.95	4.63	-	3.63	-	2.94	-	4.42	2.17	-

Delaware River at Frenchtown--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.83	2.45	3.31	2.72	3.69	7.94	7.03	4.12	1.82	1.63	1.05	0.93
2	3.59	2.32	3.35	2.82	3.41	7.82	6.80	3.97	2.04	1.72	.93	.92
3	3.33	2.38	3.16	2.70	3.32	7.08	8.05	3.80	1.86	1.30	.95	.75
4	3.07	2.39	3.51	2.66	5.19	6.21	7.55	3.62	1.73	1.20	1.02	.75
5	2.98	2.44	5.81	2.84	4.66	5.72	6.61	3.45	1.66	1.27	1.05	.75
6	2.82	2.59	10.07	3.01	4.22	5.86	6.03	3.28	1.61	1.20	1.10	.70
7	3.17	3.16	13.64	4.20	4.04	6.48	7.09	3.19	1.51	1.13	.87	.83
8	3.18	3.36	10.69	4.43	3.99	6.99	7.52	3.04	1.55	1.10	.85	.95
9	2.71	3.46	8.38	4.52	3.82	5.98	6.68	2.84	1.46	1.00	.87	.90
10	2.54	3.42	7.55	4.06	3.65	5.58	5.98	3.29	1.42	1.05	1.07	.93
11	2.44	3.47	8.11	3.88	3.92	5.15	5.64	3.24	1.47	1.00	1.02	.90
12	2.34	3.40	8.40	3.84	4.35	4.77	5.56	3.14	1.60	.95	.85	.83
13	2.35	3.18	7.18	3.82	3.89	4.71	6.22	2.98	1.71	1.06	.95	.68
14	2.19	3.02	6.35	3.62	3.79	4.58	5.93	2.78	2.11	1.08	1.03	.83
15	2.51	2.98	5.75	3.30	3.79	4.57	5.49	2.54	2.25	1.12	.87	.85
16	2.42	3.12	5.20	3.25	6.70	4.95	5.29	2.41	1.85	1.00	.85	.75
17	2.21	3.04	4.63	3.12	9.52	5.09	5.52	2.59	1.65	.95	.97	.65
18	2.01	3.03	4.52	3.21	7.40	4.94	5.60	2.54	1.59	.80	1.00	.60
19	2.11	2.98	4.38	2.98	6.39	4.53	5.46	2.48	1.52	.75	.95	.58
20	2.25	3.40	4.16	3.00	5.99	4.20	5.98	2.35	1.53	.95	1.13	.58
21	2.66	4.20	3.94	2.93	6.51	4.11	6.15	2.20	1.50	.91	1.30	.76
22	2.84	4.72	3.73	2.65	9.54	3.98	5.79	2.21	1.67	.78	1.20	.77
23	2.66	4.22	3.50	2.63	7.29	3.90	5.65	2.58	1.58	.90	.90	.91
24	2.28	4.02	3.27	2.51	6.03	3.15	5.65	3.05	1.56	.84	1.03	.87
25	2.87	3.95	3.18	2.65	5.42	3.73	5.28	2.83	1.33	.75	1.10	.80
26	3.22	3.64	3.13	2.80	4.92	4.63	4.97	2.68	1.28	.65	1.15	.70
27	3.15	3.59	3.26	2.34	6.16	6.18	4.81	2.43	1.10	.90	1.76	.65
28	2.90	3.45	3.46	2.49	6.57	7.60	4.77	2.23	1.05	1.08	1.15	.92
29	2.95	3.35	3.07	2.41	-	8.08	4.76	2.18	1.10	1.20	1.00	1.02
30	2.86	3.28	2.96	2.42	-	7.34	4.45	2.06	1.14	1.13	.85	1.17
31	2.59	-	2.85	3.89	-	6.90	-	1.92	-	1.25	.95	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.40	2.92	1.35	2.10	1.48	1.56	17.60	4.59	4.80	3.32	1.69	6.33
2	1.40	3.97	1.38	1.69	1.25	1.45	14.31	4.53	5.80	2.90	1.60	3.60
3	1.65	4.12	1.40	1.71	1.44	1.37	10.10	4.76	5.72	3.20	1.41	7.07
4	2.09	3.34	1.50	1.81	1.22	4.14	9.33	4.88	5.23	3.00	1.33	5.18
5	1.98	2.97	1.55	1.71	1.19	4.43	9.56	4.66	4.69	2.71	1.13	4.14
6	2.10	2.87	2.00	1.65	1.15	3.32	10.33	4.36	4.29	2.44	.97	3.43
7	1.75	3.25	1.87	1.76	1.18	3.08	9.01	4.03	3.99	2.23	1.27	2.96
8	1.61	3.24	1.70	1.69	1.21	2.83	8.56	3.79	3.66	2.04	1.29	2.63
9	1.39	3.05	1.63	1.70	1.20	2.74	11.43	3.64	3.39	1.87	1.30	2.37
10	1.20	3.03	1.60	1.44	1.15	2.70	13.95	3.56	3.98	2.08	1.22	2.42
11	1.38	3.07	1.50	1.49	2.09	2.32	10.68	3.39	3.75	2.01	1.15	2.46
12	1.11	2.84	1.58	1.27	2.00	2.00	8.96	3.20	3.57	2.13	1.10	2.38
13	1.14	2.72	1.83	1.29	1.65	2.20	9.55	3.00	3.41	2.30	.96	2.23
14	1.05	2.80	1.65	1.34	1.62	2.35	9.52	2.83	3.23	2.43	1.04	2.13
15	.95	2.62	1.60	2.29	1.43	10.80	7.98	2.81	2.99	2.06	1.15	1.97
16	.87	2.52	1.64	2.87	1.97	6.31	7.15	2.80	2.86	1.89	1.12	1.68
17	.92	2.27	1.44	2.78	1.71	5.14	6.63	3.40	2.57	1.79	1.09	1.56
18	.78	2.17	1.42	2.45	1.60	5.11	6.15	4.79	2.40	1.73	1.08	1.61
19	.97	2.13	1.53	2.23	1.57	5.18	6.25	4.64	2.55	1.57	1.09	1.58
20	1.00	1.98	1.65	2.38	2.07	5.65	7.12	3.97	2.49	1.69	1.02	1.41
21	.83	1.88	2.60	2.02	2.25	5.77	8.55	4.44	2.38	1.68	.90	1.48
22	.70	2.19	4.19	1.70	1.96	5.89	10.62	4.78	2.08	1.33	1.07	1.44
23	1.25	2.05	4.16	1.94	1.88	5.40	9.63	4.58	2.04	1.33	1.01	1.36
24	1.32	1.68	3.40	1.98	1.71	4.58	8.17	4.47	1.87	1.50	.99	1.28
25	1.57	1.56	3.11	1.94	1.68	4.33	7.25	4.23	2.00	1.57	1.03	1.48
26	1.45	1.62	2.88	1.92	1.45	3.88	6.51	4.35	2.69	2.08	1.03	2.17
27	1.43	1.57	2.58	1.77	1.39	3.69	5.92	4.73	2.75	1.74	.97	2.06
28	1.40	1.45	2.33	1.65	1.40	3.64	5.46	5.07	2.76	1.73	1.23	1.80
29	2.02	1.61	2.33	1.70	1.40	4.39	5.08	4.90	2.73	1.40	2.20	1.67
30	2.91	1.55	1.92	1.67	-	4.18	4.75	4.58	2.97	1.35	2.21	1.47
31	2.80	-	1.72	1.47	-	8.50	-	4.56	-	1.79	1.91	-

Delaware River at Point Pleasant, Pa.

Location.- Wire-weight gage, lat.40°25'25", long. 75°03'50", on bridge at Point Pleasant, Bucks County. Datum of gage is 0.48 foot below mean sea level (United States Coast and Geodetic Survey datum).

Records available.- March 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 98.64 feet at 3 p.m. Mar. 19, 1936; minimum observed, 70.23 feet Sept. 19, 1939.
Maximum stage known, 102.2 feet Oct. 11, 1903, from floodmarks.

Remarks.- Gage read twice daily except during periods of gage heights above 79.7 feet, when it was read hourly from 7 a.m. to 6 p.m. In tables, figures for March 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	78.92	74.21	72.29	72.09	71.48	72.29
2						-	77.58	74.56	72.00	72.11	71.50	72.48
3						-	77.54	74.18	72.36	72.90	71.30	72.30
4						-	77.58	74.29	72.47	71.67	71.94	72.88
5						76.90	77.85	74.42	72.48	71.56	71.82	71.64
6						76.85	79.70	74.18	72.16	71.46	71.52	71.48
7						75.78	82.10	74.89	72.07	72.92	71.50	71.26
8						75.38	81.62	74.72	71.58	72.92	71.54	71.16
9						75.58	80.14	73.61	71.64	72.19	71.56	71.16
10						76.99	78.65	73.50	71.42	72.14	71.52	71.20
11						80.68	79.24	73.64	71.76	72.07	71.23	71.08
12						91.43	79.18	73.24	72.35	72.26	71.44	71.64
13						95.44	79.02	73.26	74.46	72.22	71.56	71.71
14						87.66	79.90	73.28	73.16	71.84	72.86	71.53
15						83.38	79.69	74.98	72.52	72.34	71.62	71.12
16						81.68	79.20	73.73	72.47	72.94	72.84	70.80
17						83.71	78.90	73.39	72.41	72.40	71.43	71.46
18						92.92	78.45	73.08	72.66	72.94	71.30	71.28
19						98.01	77.35	73.89	74.29	71.62	71.10	71.30
20						93.31	76.66	73.43	75.49	71.58	71.94	71.90
21						87.56	76.34	73.55	75.18	71.34	71.83	71.44
22						86.75	76.66	73.18	75.23	71.01	71.34	71.89
23						84.01	76.64	73.51	74.94	71.64	71.32	71.12
24						82.42	75.77	73.83	73.47	71.72	73.08	71.25
25						80.34	75.38	72.53	73.18	72.62	73.32	71.01
26						79.78	75.06	72.48	73.85	72.90	73.30	71.00
27						79.45	74.64	73.88	72.68	71.58	72.98	71.07
28						80.58	74.54	72.83	72.46	71.39	72.26	70.70
29						80.30	74.46	72.70	72.53	71.08	72.14	70.58
30						79.13	74.28	72.61	72.06	71.52	72.04	70.55
31						78.96	-	72.34	-	71.61	72.20	-

Delaware River at Point Pleasant, Pa.--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71.28	72.17	71.68	76.22	78.08	76.12	75.21	77.41	73.74	74.80	72.40	73.86
2	72.32	72.11	73.00	77.90	77.12	75.80	75.58	76.68	73.59	74.78	72.12	73.60
3	72.92	72.50	72.38	77.03	76.80	75.60	76.20	76.24	73.59	75.14	71.86	73.44
4	71.81	72.52	73.94	77.90	76.68	75.32	76.08	76.92	73.60	74.80	72.02	73.25
5	71.40	72.62	72.41	76.72	75.41	75.05	75.69	75.63	73.73	74.46	71.98	73.12
6	71.52	76.80	72.80	76.16	75.16	75.24	76.65	75.39	73.54	74.44	71.77	73.04
7	71.42	77.95	74.59	76.32	75.20	75.40	80.90	75.34	73.50	74.88	71.80	73.48
8	71.32	76.36	74.19	76.50	75.02	75.94	82.20	75.50	76.30	74.20	72.02	74.22
9	71.42	75.52	74.10	75.48	74.76	74.51	80.20	75.22	75.43	73.50	72.51	73.36
10	71.44	75.07	74.14	76.34	75.24	74.50	80.00	74.98	74.50	73.36	71.12	73.32
11	71.77	74.61	74.06	77.88	75.54	74.24	79.70	74.68	74.24	73.61	71.07	73.18
12	71.74	74.14	76.16	76.52	75.42	74.48	78.36	74.50	73.78	73.88	74.60	73.50
13	71.44	73.82	79.56	76.06	75.39	74.26	78.10	74.26	75.00	72.76	74.23	72.62
14	71.15	73.54	77.10	75.39	74.73	74.28	77.11	74.39	73.48	73.37	74.92	72.65
15	71.50	73.32	76.56	75.82	75.71	74.94	77.48	77.63	73.26	73.23	74.40	73.38
16	71.69	73.15	75.80	77.08	76.46	74.88	77.32	80.10	73.66	74.86	73.53	74.06
17	71.69	73.04	76.92	77.82	75.97	73.88	78.18	80.00	74.88	74.36	73.09	73.68
18	72.05	73.06	75.16	78.12	75.11	73.74	78.94	78.66	73.68	74.88	72.62	73.37
19	72.88	73.04	75.56	78.39	74.80	73.68	77.20	78.04	73.96	73.26	73.04	73.27
20	72.65	72.10	77.96	79.22	74.54	74.00	77.30	77.42	74.54	73.84	73.00	73.93
21	73.12	72.57	78.50	78.28	74.56	75.74	77.39	77.94	74.06	73.40	72.70	72.85
22	72.82	72.42	78.34	78.30	77.02	76.11	78.15	76.48	75.55	73.90	74.00	73.12
23	72.48	72.36	77.90	80.78	84.45	76.51	80.60	76.04	73.41	72.60	76.04	73.16
24	72.36	72.25	76.49	80.83	81.43	76.36	80.75	75.74	73.83	72.38	77.12	73.45
25	72.22	72.44	75.44	80.39	79.45	76.35	79.60	75.39	76.38	72.34	75.56	72.50
26	72.00	72.39	75.39	82.23	78.25	77.03	78.20	75.18	75.36	72.08	74.62	72.32
27	73.93	72.10	75.14	81.92	77.38	76.73	78.56	75.20	74.54	72.54	74.28	72.18
28	73.92	72.06	75.18	80.02	76.69	76.50	78.47	74.70	74.22	72.14	74.36	72.09
29	73.46	71.80	75.26	78.70	-	75.64	78.56	75.81	74.06	72.39	75.42	72.50
30	73.10	71.62	75.46	78.07	-	75.25	78.06	74.54	74.31	72.26	75.31	72.58
31	72.81	-	75.26	77.54	-	75.05	-	74.12	-	72.20	74.35	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72.53	76.99	76.38	74.41	76.94	73.98	75.41	74.35	74.95	77.22	76.96	73.25
2	72.25	75.48	75.78	74.52	76.52	74.55	75.37	74.25	73.84	76.43	76.87	73.41
3	72.14	75.15	75.31	74.56	76.00	74.47	75.19	74.96	73.19	75.62	76.25	73.15
4	71.77	75.92	75.06	74.42	75.94	74.38	74.98	74.95	74.89	75.22	75.65	73.05
5	72.92	74.60	74.12	74.15	76.38	74.45	74.78	74.81	73.62	74.12	75.96	72.51
6	72.03	74.42	74.66	74.02	76.08	74.50	74.53	74.69	73.38	73.96	75.17	72.26
7	72.20	74.21	74.84	74.46	76.91	74.36	74.51	73.32	73.18	74.85	75.75	72.23
8	72.26	74.85	74.70	74.98	78.89	75.92	74.59	73.27	73.43	74.92	75.21	72.60
9	72.21	74.87	74.58	75.06	78.27	75.47	75.09	73.08	73.56	73.11	75.95	72.32
10	72.88	73.84	73.85	74.59	77.64	75.93	77.02	73.07	73.52	73.69	75.25	72.84
11	71.88	73.68	73.16	74.42	78.86	74.58	78.78	73.18	73.49	73.56	76.89	72.86
12	71.77	73.38	73.24	74.56	77.19	74.38	78.26	73.42	73.18	73.55	77.52	72.67
13	71.70	74.45	73.09	74.50	76.30	74.30	78.29	73.20	73.13	74.51	81.29	72.29
14	72.92	77.50	72.78	74.25	76.94	74.28	77.81	73.08	73.40	74.11	77.12	72.62
15	72.94	79.46	72.74	74.16	77.81	76.50	77.35	73.68	76.88	74.88	76.39	72.63
16	72.02	78.35	73.73	73.94	77.34	77.11	77.83	74.58	74.60	73.66	75.37	73.52
17	72.05	77.32	74.08	73.46	76.34	77.95	76.54	75.65	74.95	73.09	75.20	73.44
18	71.66	76.17	74.62	73.21	76.09	77.25	76.21	75.47	74.59	73.06	75.75	73.49
19	71.71	76.15	78.43	73.18	75.94	78.06	76.29	73.58	73.50	73.88	75.50	73.33
20	74.28	75.63	79.59	73.49	76.09	78.95	77.93	74.25	73.14	75.99	75.17	74.81
21	75.08	75.48	78.31	73.40	76.76	77.84	76.80	74.10	73.85	75.50	74.56	78.31
22	76.99	75.34	77.23	73.54	76.21	77.43	76.58	74.78	73.23	77.32	74.45	85.53
23	76.34	75.04	76.77	73.87	76.04	77.57	76.37	74.90	73.18	82.54	73.77	90.85
24	80.37	74.78	76.28	73.56	76.88	77.17	76.22	74.91	73.68	84.81	73.88	84.21
25	83.00	74.52	75.16	77.68	75.57	77.00	75.80	75.55	73.32	83.97	73.81	81.99
26	80.00	74.43	75.27	83.41	75.30	76.72	75.59	76.52	73.13	80.14	73.63	79.20
27	77.45	74.23	75.13	84.91	75.08	76.19	75.32	76.87	76.93	78.55	73.50	78.97
28	77.94	74.39	75.05	79.36	74.91	77.91	75.00	75.58	79.94	77.40	73.46	77.25
29	77.25	75.62	74.76	77.60	-	75.28	74.81	75.08	80.59	76.69	73.30	76.57
30	77.22	76.54	74.57	76.14	-	75.45	74.58	74.13	78.75	76.44	72.80	76.06
31	76.95	-	74.32	76.49	-	75.56	-	74.28	-	76.40	73.17	-

Delaware River at Point Pleasant, Pa.--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75.55	73.72	75.15	74.05	75.90	a81.3	79.95	76.12	73.02	72.38	71.59	71.30
2	75.30	73.44	75.86	74.16	75.76	81.00	80.91	75.95	72.98	72.62	71.32	71.28
3	74.87	73.53	74.71	74.12	75.06	80.21	81.19	75.68	72.81	72.04	71.42	70.82
4	74.47	73.56	76.91	74.79	77.67	78.92	80.77	75.41	72.59	71.85	71.39	70.77
5	74.33	73.64	78.91	74.62	76.60	78.38	79.46	75.15	72.51	72.00	71.61	70.77
6	74.26	74.88	84.19	75.86	76.19	78.51	78.65	74.90	72.45	71.82	71.60	70.69
7	74.68	74.67	88.45	75.98	76.69	79.19	80.41	74.75	72.35	71.69	71.19	70.78
8	74.57	74.95	84.52	76.76	76.86	79.95	80.60	74.52	72.32	71.60	71.35	71.34
9	73.73	75.09	81.69	76.85	75.59	78.63	79.57	74.15	72.28	71.43	71.15	71.19
10	73.14	75.00	80.19	76.91	75.47	78.06	78.66	74.86	72.21	71.56	71.62	71.30
11	73.56	75.14	81.75	75.94	76.29	77.51	78.15	74.78	72.25	71.50	71.50	71.26
12	73.55	74.98	81.82	75.64	76.54	77.73	78.07	74.68	72.46	71.26	71.09	70.98
13	73.56	74.57	80.19	75.67	75.96	76.92	78.87	74.29	72.54	71.67	71.34	70.60
14	73.26	74.58	79.16	75.25	75.62	76.82	78.55	74.22	73.15	71.71	71.53	71.16
15	73.13	74.43	78.20	75.05	75.64	76.83	77.93	73.98	73.36	71.74	71.20	71.28
16	73.54	74.58	77.47	74.58	79.84	77.55	77.66	73.74	72.12	71.55	71.03	70.92
17	73.38	74.45	76.81	74.42	83.39	77.47	78.02	73.18	72.50	71.54	71.46	70.52
18	73.00	74.32	76.58	74.57	80.31	77.26	78.22	73.49	72.58	71.00	71.54	70.31
19	73.17	74.37	76.41	74.34	79.11	76.69	77.96	73.62	72.80	70.86	71.45	70.23
20	73.35	75.21	76.08	74.19	78.59	76.21	78.64	73.69	72.42	71.30	71.67	70.26
21	74.95	76.23	75.80	74.18	79.18	76.03	78.82	73.32	72.43	71.36	72.08	70.80
22	74.24	76.27	75.67	74.23	83.85	75.85	78.38	73.22	72.49	70.90	71.79	70.79
23	74.91	75.94	75.56	74.16	80.10	75.80	78.05	73.27	72.37	71.31	71.22	71.20
24	75.15	75.90	74.83	73.61	78.60	75.53	78.22	74.57	72.35	71.14	71.22	71.20
25	74.45	75.74	74.67	73.52	77.21	75.51	77.68	74.31	72.03	70.78	71.69	70.87
26	74.72	75.46	74.54	73.53	77.10	76.76	77.26	74.03	72.02	70.50	71.81	70.65
27	74.58	75.21	75.04	73.45	79.79	78.79	77.04	73.65	71.69	71.24	72.14	70.54
28	74.25	75.10	74.98	73.49	81.63	80.77	76.87	73.46	71.52	71.56	72.89	71.19
29	74.21	74.91	74.30	73.59	-	81.31	76.95	73.28	71.65	72.79	71.54	71.44
30	74.20	74.97	74.22	74.77	-	80.43	76.60	73.10	71.12	71.78	71.30	71.77
31	73.85	-	74.13	74.86	-	79.89	-	72.90	-	72.05	71.33	-

a Estimated

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72.20	74.41	72.24	73.57	-	72.17	93.65	77.21	76.64	74.63	72.61	79.38
2	72.30	76.15	72.11	73.47	-	72.50	89.57	77.93	78.55	74.56	72.40	82.00
3	72.67	76.81	72.14	73.41	-	72.06	84.90	77.93	78.33	74.69	72.26	80.11
4	73.15	75.03	72.37	72.39	-	77.94	83.88	77.87	78.09	74.81	72.11	77.68
5	73.00	74.77	72.39	72.37	-	76.91	83.21	76.89	77.85	74.04	72.09	76.07
6	73.89	74.58	72.52	72.41	-	75.10	83.98	76.69	76.66	73.95	71.34	75.09
7	72.63	74.98	72.89	-	-	72.64	82.46	76.16	76.44	73.62	71.97	74.72
8	72.51	74.89	72.84	72.69	72.10	72.11	82.94	75.91	76.21	73.26	71.97	73.82
9	71.83	74.73	72.58	72.49	72.12	73.98	85.61	75.36	75.92	72.85	72.08	73.60
10	71.80	74.60	72.42	72.31	72.16	74.19	88.91	75.17	76.29	72.89	71.91	73.75
11	72.05	74.47	72.31	72.31	73.18	74.09	84.62	75.23	75.51	72.84	71.78	73.66
12	71.70	74.25	72.21	72.00	73.29	73.21	82.45	74.78	75.30	73.14	71.59	73.60
13	71.79	73.98	72.94	72.07	73.08	73.35	82.78	74.51	75.21	73.54	71.34	73.36
14	71.69	74.07	72.68	72.98	73.07	73.47	83.09	74.38	75.10	73.38	71.45	73.21
15	71.40	73.90	72.67	74.00	73.10	85.02	82.41	74.29	74.41	73.41	71.73	72.95
16	71.29	73.19	72.49	74.69	73.18	79.76	80.15	74.76	74.27	73.88	71.69	72.56
17	71.12	73.47	72.47	74.05	72.96	77.69	79.81	75.87	74.19	72.89	71.61	72.43
18	70.80	73.27	72.29	73.15	72.66	77.34	79.94	77.89	73.59	72.67	71.60	72.34
19	70.92	73.11	72.32	73.17	72.46	77.26	79.28	76.63	73.42	72.42	71.58	72.47
20	70.94	73.13	72.31	73.19	73.77	77.21	80.69	75.92	73.58	72.51	71.51	72.25
21	71.07	72.95	72.97	73.13	73.90	78.09	82.05	77.86	73.47	72.42	71.15	72.31
22	70.78	73.31	76.07	72.29	73.60	78.34	84.47	77.12	73.36	72.30	71.40	72.25
23	71.86	73.12	76.77	72.32	73.09	78.80	83.47	76.93	73.21	72.20	71.38	72.15
24	72.52	73.00	74.67	72.29	72.91	78.49	81.92	76.81	73.10	72.22	71.37	72.13
25	72.48	72.52	74.51	72.75	72.79	78.43	81.86	76.29	73.14	72.07	71.55	72.39
26	72.46	72.39	73.87	72.67	72.39	75.90	79.47	76.18	74.00	72.85	71.42	73.45
27	72.19	72.30	73.79	-	72.18	75.40	78.87	75.96	74.45	72.71	71.49	73.15
28	72.02	72.28	73.52	-	72.20	75.20	78.46	77.66	74.12	72.83	71.97	72.75
29	73.10	72.50	73.40	-	72.20	76.37	77.31	77.20	74.14	72.68	72.10	72.57
30	73.15	72.37	73.95	-	-	76.51	77.20	77.18	74.76	72.57	73.18	72.45
31	73.10	-	73.82	-	-	83.09	-	76.81	-	72.67	73.90	-

Note.- No records Jan. 7 and Jan. 27 to Feb. 7.

Delaware River at Lumberville, Pa.

Location.- Wire-weight gage, lat. 40°24'25", long. 75°02'20", on bridge at Lumberville, Bucks County. Datum of gage is 0.15 foot above mean sea level (United States Coast and Geodetic Survey datum).

Records available.- April 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 86.02 feet at 3 p.m. Apr. 1, 1940; minimum observed, 63.78 feet Sept. 19, 1939.
Maximum stage known, 96.0 feet Oct. 11, 1903, from floodmark.

Remarks.- Gage read twice daily except during periods of medium and high stages, when it was read more frequently. In tables, figures for April 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	67.55	65.51	65.38	64.58	65.15
2							70.80	67.78	65.33	65.29	64.56	65.33
3							70.73	67.46	65.70	65.08	64.47	65.16
4							70.73	67.60	65.71	65.13	64.18	64.82
5							70.05	67.60	65.83	65.13	64.13	64.66
6							72.38	67.41	65.46	64.73	64.51	64.54
7							75.24	67.20	65.27	64.65	64.54	64.39
8							75.39	67.20	65.08	64.62	64.46	64.33
9							73.48	67.18	65.10	64.96	64.53	64.32
10							72.81	67.16	65.14	64.75	64.45	64.35
11							72.56	67.18	65.58	64.98	64.34	64.74
12							72.56	67.14	65.61	65.15	64.46	64.70
13							72.21	67.14	65.82	64.94	64.61	64.68
14							72.59	66.76	66.42	64.60	64.74	64.59
15							72.92	67.21	68.20	64.58	64.66	64.28
16							72.15	66.96	65.66	64.78	64.94	64.13
17							71.76	66.71	65.17	64.86	64.63	64.50
18							71.13	66.36	66.12	64.82	64.37	64.46
19							70.31	66.21	67.62	64.68	64.28	64.33
20							70.16	66.78	68.80	64.62	64.27	64.26
21							69.51	66.86	68.76	64.44	64.18	64.48
22							69.25	66.58	68.00	64.26	64.42	64.18
23							69.27	66.29	67.22	64.68	64.40	64.11
24							69.04	66.22	66.64	65.08	65.10	64.42
25							68.54	66.02	66.52	64.72	66.19	64.26
26							68.76	65.89	66.32	64.90	66.12	64.28
27							67.94	66.17	65.96	64.64	65.68	64.22
28							67.76	66.14	65.84	64.49	65.15	64.06
29							67.68	66.09	65.84	64.32	65.02	64.00
30							67.58	66.01	65.34	64.60	64.98	64.02
31							-	65.75	-	64.64	65.05	-

Delaware River at Lumberville, Pa.--Continued

Daily mean gage height, in feet, 1936-37

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64.63	65.60	64.65	68.96	70.90	68.70	67.88	69.90	66.51	67.44	65.17	66.64
2	65.15	65.54	65.00	69.56	69.90	68.34	68.18	69.24	66.34	67.42	64.25	66.36
3	64.86	65.35	65.35	69.80	69.10	68.26	68.72	68.82	66.40	67.74	64.76	66.17
4	64.82	65.34	65.82	69.55	68:40	67.48	68.68	68.49	66.28	67.48	64.98	66.02
5	64.56	65.47	65.62	69.38	68.14	67.80	68.35	68.28	66.38	67.14	64.90	65.92
6	64.58	69.10	65.66	68.80	67.88	67.98	69.55	68.08	66.29	66.80	64.79	65.82
7	64.51	70.60	67.38	68.52	67.92	68.01	73.75	67.97	66.35	66.46	64.84	66.17
8	64.46	68.98	66.92	68.72	67.74	67.60	74.65	68.17	67.47	66.40	65.03	66.95
9	64.54	68.26	66.87	68.50	67.55	67.28	72.60	67.84	68.04	66.12	64.88	66.38
10	64.53	67.77	66.90	69.09	67.92	67.22	72.58	67.61	67.17	65.96	64.66	66.14
11	64.74	67.36	66.88	69.68	68.20	66.96	72.30	67.30	66.76	65.76	64.97	65.99
12	64.71	66.94	68.30	69.20	68.12	66.72	70.99	67.17	66.48	65.67	67.16	65.90
13	64.52	66.58	71.86	68.78	67.64	66.52	70.22	67.04	66.24	65.56	67.36	65.42
14	64.34	66.33	70.38	68.39	67.45	66.55	69.70	67.16	66.20	65.96	66.88	65.44
15	64.54	66.16	69.19	68.84	68.30	66.63	69.48	69.24	66.00	65.96	67.10	66.08
16	64.65	66.00	68.52	70.03	69.03	66.62	70.08	72.65	66.36	66.42	66.34	66.28
17	64.70	65.88	68.80	70.60	68.56	66.50	71.19	72.60	66.60	66.58	65.81	66.42
18	64.94	65.90	68.55	70.64	67.86	66.50	70.52	71.16	66.35	66.50	65.70	66.14
19	65.61	65.69	68.28	71.00	67.58	66.48	69.77	70.59	66.66	65.97	65.64	66.05
20	65.50	65.56	70.13	71.80	67.32	66.82	69.76	70.01	66.70	65.60	65.74	65.70
21	65.92	65.42	71.29	70.90	67.32	68.10	69.46	69.48	66.70	65.69	65.46	65.61
22	65.61	65.34	70.92	70.98	69.89	68.80	70.40	69.22	68.15	65.59	65.96	65.89
23	65.32	65.22	68.90	73.40	76.85	69.12	73.10	68.63	70.25	65.34	68.70	65.92
24	65.23	65.20	68.64	73.50	74.13	68.02	73.40	68.34	70.28	65.19	69.80	65.73
25	65.12	65.30	68.20	73.15	72.02	68.95	72.05	68.24	68.89	65.20	68.20	65.30
26	65.02	65.24	68.10	74.85	70.82	69.60	70.86	67.82	67.98	64.98	67.34	65.15
27	65.96	65.04	67.89	74.70	69.98	69.27	71.32	67.47	67.34	65.26	66.99	65.02
28	65.74	64.92	67.91	72.67	69.37	68.66	71.07	67.40	66.88	64.95	67.08	64.97
29	66.20	64.80	68.00	71.32	-	68.26	71.16	67.52	66.76	65.19	67.96	65.26
30	65.89	64.94	68.17	70.70	-	67.84	70.62	67.26	67.03	65.10	67.90	65.27
31	65.65	-	68.02	70.38	-	67.66	-	66.92	-	65.04	67.03	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65.07	68.68	68.96	67.15	69.24	66.98	67.99	67.15	66.70	69.71	68.52	66.10
2	65.01	68.10	68.40	67.76	68.03	67.43	67.00	67.00	66.57	68.93	68.40	66.10
3	64.98	67.82	67.98	67.31	68.64	67.17	67.37	66.70	66.56	68.25	68.70	65.88
4	64.78	67.55	67.68	67.09	68.42	67.23	67.55	66.76	66.63	67.80	68.23	65.78
5	64.85	67.29	67.50	67.13	68.63	67.21	67.27	66.76	66.45	67.41	67.70	65.30
6	64.95	67.18	67.41	67.22	68.94	67.26	67.30	66.60	66.20	66.38	67.75	65.10
7	64.98	66.91	67.60	67.39	68.97	67.28	67.28	66.45	65.96	66.58	68.45	65.07
8	64.90	66.71	67.52	68.07	70.75	69.28	67.32	66.05	66.32	66.66	68.00	65.27
9	64.95	66.55	67.37	67.95	70.90	68.20	67.75	65.97	66.33	66.46	67.50	65.54
10	64.76	66.43	67.02	67.57	69.94	67.75	69.48	65.92	66.36	66.39	67.90	65.55
11	64.94	66.39	66.76	67.26	70.20	67.40	71.16	66.05	66.06	66.60	68.42	65.65
12	64.72	66.18	66.23	67.37	69.77	67.25	70.88	66.22	65.24	66.24	69.17	65.45
13	64.57	67.10	65.87	67.29	69.04	66.00	70.84	66.10	66.15	67.13	73.84	65.11
14	64.78	70.01	65.61	67.24	69.14	67.11	70.43	65.95	66.17	66.76	70.35	65.27
15	64.76	72.25	66.06	67.25	69.98	69.20	69.98	66.17	68.51	66.54	68.93	65.44
16	64.96	71.04	66.48	66.73	69.78	69.60	69.57	67.27	67.37	66.40	68.26	66.20
17	64.98	69.97	66.79	66.52	68.78	69.65	69.18	68.17	66.67	65.85	67.87	66.27
18	64.84	69.35	67.16	66.24	68.35	69.72	68.86	68.15	66.82	65.86	68.37	66.25
19	64.74	68.85	70.02	66.30	68.34	70.63	69.12	67.38	66.42	65.65	68.10	66.07
20	65.91	68.47	72.42	65.76	69.54	70.63	69.37	67.07	65.92	67.64	67.79	67.45
21	67.75	68.20	70.92	66.22	69.35	70.28	69.38	66.81	65.64	68.10	67.25	71.04
22	68.64	67.00	69.82	66.32	68.81	70.00	69.16	66.75	65.95	69.06	67.09	77.90
23	67.90	67.69	69.20	66.45	68.47	69.00	68.96	66.65	65.95	75.30	66.47	82.94
24	73.17	67.51	68.78	66.30	68.70	69.71	68.94	66.63	66.44	77.35	66.60	77.01
25	75.73	67.28	68.46	69.11	68.40	69.57	68.48	68.10	66.14	75.60	66.50	73.90
26	72.01	67.20	68.12	75.74	68.09	69.39	68.10	68.84	65.85	72.70	66.34	71.80
27	70.18	66.99	67.85	76.70	67.80	68.98	67.87	68.53	68.43	71.05	66.26	70.60
28	69.67	67.04	67.65	72.69	67.46	68.65	67.67	68.12	72.42	69.91	66.20	69.83
29	69.82	68.20	67.53	70.54	-	68.40	67.54	67.78	73.07	69.16	66.07	69.17
30	69.76	68.95	67.41	69.48	-	68.14	67.26	67.47	71.26	69.03	65.48	68.65
31	69.45	-	67.13	69.46	-	68.00	-	67.03	-	68.95	65.95	-

Delaware River at Lumberville, Pa.--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	68.20	66.35	67.57	66.70	67.87	74.06	72.65	68.58	65.55	65.15	64.54	64.37
2	67.85	66.35	67.65	66.80	67.77	73.65	72.64	68.45	65.80	65.44	64.36	64.37
3	67.55	66.24	67.37	66.72	67.95	72.76	73.75	68.30	65.58	64.93	64.47	64.10
4	67.17	66.30	68.64	66.68	70.96	71.55	73.41	67.97	65.92	64.75	64.45	64.10
5	67.05	66.32	71.36	66.90	69.50	70.84	72.06	67.72	65.39	64.86	64.60	64.10
6	66.90	66.55	76.44	67.54	68.85	71.15	71.18	67.50	65.28	64.72	64.56	64.04
7	67.20	67.30	80.85	68.84	68.69	71.90	73.15	67.30	65.15	64.65	64.35	64.08
8	67.35	67.57	77.48	69.04	68.58	72.50	73.26	67.18	65.15	64.12	64.42	64.37
9	66.70	67.76	74.38	69.15	68.35	71.21	72.18	66.87	65.09	64.46	64.30	64.30
10	66.50	67.68	73.43	68.50	68.18	70.57	71.25	67.50	65.05	64.60	64.55	64.42
11	66.40	67.69	73.91	68.30	69.05	70.04	70.69	67.41	65.05	64.51	64.52	64.37
12	66.28	67.71	74.42	68.25	68.95	69.62	70.60	67.27	65.27	64.40	64.30	64.22
13	66.29	67.25	72.88	68.22	68.41	69.45	71.39	67.15	65.46	64.58	64.37	64.02
14	66.08	67.12	71.76	68.08	68.25	69.35	71.09	66.78	65.89	64.65	64.54	64.30
15	66.48	67.02	70.81	67.60	68.22	69.41	70.42	66.50	66.12	64.62	64.30	64.35
16	66.35	67.21	70.03	67.40	72.25	70.22	70.25	66.35	65.55	64.54	64.20	64.16
17	66.08	67.13	69.30	67.28	74.95	69.95	70.55	66.55	65.32	64.50	64.48	64.00
18	65.78	67.20	69.15	67.43	73.15	69.80	70.89	66.48	65.28	64.23	64.55	63.88
19	65.90	67.08	68.98	67.10	71.90	69.18	70.57	66.39	65.22	64.12	64.48	63.80
20	66.07	67.65	68.67	67.13	71.21	68.75	71.27	66.22	65.28	64.40	64.70	63.81
21	66.55	68.72	68.38	66.95	71.73	68.65	71.44	65.95	65.15	64.43	64.86	64.10
22	66.95	69.45	68.02	66.64	75.98	68.45	70.94	66.15	65.35	64.15	64.82	64.10
23	66.68	68.90	67.77	66.40	73.05	68.35	70.60	66.58	65.15	64.36	64.35	64.32
24	66.15	68.54	67.49	66.30	71.26	68.11	70.75	67.20	65.15	64.32	64.40	64.30
25	67.08	68.50	67.30	66.73	70.40	68.13	70.24	66.87	65.05	64.11	64.64	64.25
26	67.50	68.00	67.24	66.30	69.75	69.30	69.85	66.69	64.85	63.96	64.72	64.02
27	67.33	67.90	67.35	66.17	71.48	71.25	69.57	66.35	64.66	64.30	65.50	63.90
28	67.05	67.70	67.67	66.04	71.79	73.35	69.48	66.12	64.55	64.55	64.64	64.25
29	67.14	67.64	67.12	66.35	-	73.92	69.57	66.01	64.56	64.73	64.53	64.42
30	66.95	67.62	66.90	66.58	-	73.00	69.09	65.55	64.72	64.73	64.33	64.68
31	66.62	-	66.81	68.90	-	72.64	-	65.67	-	64.94	64.37	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65.02	67.20	64.98	65.46	67.72	65.18	85.52	69.35	69.69	67.52	65.35	70.05
2	65.12	68.36	64.96	65.15	67.75	65.06	82.00	69.24	71.20	67.02	65.30	74.96
3	65.44	68.58	64.98	65.09	67.73	65.12	76.65	69.55	70.80	67.30	65.04	72.65
4	65.85	67.55	65.12	65.16	67.57	69.28	75.61	69.61	70.21	67.15	64.90	70.15
5	65.78	67.10	65.18	65.23	67.41	69.74	75.86	69.39	69.45	66.75	64.70	68.67
6	65.90	67.10	65.70	64.99	67.27	67.70	76.77	69.00	68.92	66.40	64.48	67.60
7	65.43	67.65	65.61	65.16	66.95	67.37	75.24	68.55	68.42	66.08	64.70	66.88
8	65.28	67.45	65.43	65.45	65.92	66.89	74.56	68.23	68.07	65.85	64.65	66.65
9	64.76	67.25	65.31	65.25	65.15	66.95	78.12	67.98	67.59	65.66	64.15	66.25
10	64.74	67.18	65.24	64.98	67.75	66.72	81.37	67.87	68.25	65.90	64.85	66.42
11	64.87	67.27	65.27	65.14	65.74	66.24	77.35	67.65	67.96	65.80	64.76	66.25
12	64.64	66.84	65.22	65.04	65.95	66.08	75.08	67.34	67.94	66.00	64.65	66.23
13	64.66	66.78	65.57	64.95	65.40	66.06	75.32	67.12	67.63	66.12	64.42	66.00
14	64.65	66.93	65.37	64.94	65.35	66.25	76.04	66.93	67.42	66.30	64.26	65.88
15	64.45	66.78	65.25	66.65	65.34	77.62	73.95	66.90	67.11	65.90	64.75	65.67
16	64.27	66.46	65.42	67.04	65.45	71.80	72.80	66.85	66.93	65.70	64.60	65.30
17	64.35	66.20	65.05	66.58	65.50	69.95	72.10	67.68	66.60	65.54	64.62	65.18
18	64.12	66.09	65.02	65.95	65.26	70.04	71.45	69.60	66.35	65.70	64.61	65.20
19	64.44	65.96	65.14	66.02	65.30	70.17	71.50	69.23	66.50	65.20	64.67	65.18
20	64.35	65.85	65.35	65.98	66.57	70.78	73.58	68.55	66.40	65.30	64.40	65.04
21	64.25	65.65	66.78	65.61	66.45	70.95	74.70	69.60	66.31	65.30	64.25	65.10
22	64.65	66.00	68.78	65.28	66.15	71.05	77.25	69.78	65.98	64.94	64.52	65.00
23	64.75	65.83	68.80	65.27	65.84	70.08	76.12	69.40	65.86	64.87	64.42	64.94
24	64.78	65.42	67.72	65.60	65.61	69.40	74.24	69.30	65.65	64.92	64.39	64.87
25	65.25	65.29	66.76	65.82	65.44	68.81	72.97	68.76	66.04	65.10	64.25	65.10
26	65.03	65.29	66.40	c67.85	65.26	68.22	71.95	69.02	66.63	65.87	64.50	66.20
27	64.98	65.38	66.42	c69.12	64.95	68.04	71.20	69.52	67.07	65.45	64.34	65.94
28	64.94	65.10	66.19	c68.58	65.05	67.98	70.42	70.15	66.80	65.44	64.75	65.52
29	65.85	65.15	66.14	c68.50	65.04	68.94	69.95	69.78	66.77	65.11	65.96	65.32
30	67.00	65.15	65.68	c68.25	-	68.70	69.30	69.35	67.08	64.95	65.96	65.05
31	66.93	-	65.66	c67.70	-	73.26	-	69.48	-	65.20	65.64	-

c Reading to top of ice.

Delaware River at Stockton

Location.- Wire-weight gage, lat. 40°24'10", long. 74°58'50", on bridge at Stockton, Hunterdon County. Datum of gage is 0.04 foot above mean sea level (United States Coast and Geodetic Survey datum).

Records available.- April 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 72.96 feet 2 to 4 p.m. Apr. 1, 1940; minimum observed, 52.03 feet Sept. 19, 1939.
Maximum stage known, 81.7 feet Oct. 11, 1903, from floodmark.

Remarks.- Gage read twice daily except during periods of gage heights above 59.0 feet, when it was read hourly from 7 a.m. to 6 p.m. In tables, figures for April 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1936-37

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	56.52	54.76	54.74	53.64	54.18
2							59.80	56.56	54.74	54.61	53.61	54.32
3							59.28	56.41	54.90	54.53	53.56	54.18
4							59.36	56.59	54.86	54.40	53.30	53.91
5							58.72	56.52	54.97	54.61	53.22	53.74
6							60.10	55.87	54.76	54.40	53.61	53.62
7							63.70	56.33	54.76	54.15	53.60	53.49
8							63.38	56.32	54.38	53.91	53.54	53.48
9							61.74	56.31	54.34	54.08	53.60	53.44
10							61.24	56.30	54.19	53.88	53.56	53.49
11							61.15	56.30	54.61	54.08	53.43	53.82
12							60.78	56.28	55.02	54.25	53.50	53.88
13							60.66	56.30	56.82	54.02	53.68	53.78
14							61.03	55.76	55.65	53.86	53.80	53.68
15							61.32	56.19	55.11	53.89	53.72	53.44
16							60.66	56.04	54.76	53.92	53.98	53.27
17							60.11	55.77	54.94	53.86	53.72	53.59
18							59.55	55.51	55.44	53.82	53.48	53.56
19							58.96	55.36	56.66	53.72	53.40	53.50
20							58.96	55.76	57.57	53.66	53.34	53.34
21							58.19	55.94	57.15	53.51	53.28	53.60
22							57.86	55.64	57.02	53.34	53.51	53.34
23							57.94	55.48	56.28	53.70	53.50	53.26
24							58.40	55.36	55.95	53.76	53.97	53.54
25							57.32	55.14	55.56	54.05	55.06	53.39
26							57.11	55.06	55.40	53.91	55.05	53.39
27							56.78	55.24	55.11	53.72	54.68	53.36
28							56.68	55.32	55.03	53.60	54.20	53.21
29							56.56	55.20	54.98	53.40	54.09	53.14
30							56.49	55.11	54.65	53.64	54.04	53.14
31							-	55.03	-	53.70	54.08	-

Delaware River at Stockton--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	53.68	54.60	53.71	57.39	59.18	57.30	56.55	58.42	55.39	56.22	54.21	55.52
2	54.18	54.52	54.96	57.98	58.29	56.95	56.79	57.80	55.24	56.16	54.08	55.26
3	53.96	54.38	54.32	58.30	58.52	56.88	57.54	57.42	55.32	56.44	53.88	55.14
4	53.90	54.40	54.68	58.02	57.02	56.66	57.30	57.15	55.20	56.24	53.95	55.00
5	53.62	54.44	54.52	57.76	56.76	56.47	57.02	56.95	55.32	55.90	54.00	54.88
6	53.68	57.41	54.52	57.34	56.54	56.58	58.00	56.78	55.18	55.64	53.87	54.78
7	53.60	58.97	56.05	57.14	56.55	56.66	62.00	56.68	55.22	55.36	53.94	55.06
8	53.57	57.48	55.65	57.28	56.48	56.34	62.90	56.82	56.12	55.25	54.12	55.82
9	53.66	56.86	55.59	57.10	56.28	56.08	60.90	56.56	56.70	55.08	54.00	55.31
10	53.67	56.40	55.60	57.62	56.56	56.02	60.75	56.38	55.94	54.95	53.82	55.08
11	53.78	56.07	56.15	58.10	56.74	55.74	60.58	56.04	55.58	54.74	53.91	54.94
12	53.84	55.68	56.88	57.70	56.79	55.56	59.35	55.98	55.39	54.64	56.05	54.76
13	58.68	55.37	60.02	57.30	56.32	55.41	58.68	55.85	55.16	54.58	55.98	54.46
14	53.50	55.14	58.68	56.95	56.16	55.42	58.20	55.95	55.12	54.95	55.65	54.50
15	53.63	55.01	57.68	57.45	56.90	55.48	58.01	57.75	54.95	54.95	55.88	55.02
16	53.77	54.75	57.04	58.45	57.57	55.52	58.50	60.82	55.26	55.40	55.26	55.16
17	53.84	54.72	57.44	58.98	57.15	55.44	59.52	60.94	55.46	55.38	54.80	55.35
18	53.98	54.78	57.12	59.10	56.55	55.38	58.90	59.56	55.29	55.38	54.72	55.05
19	54.56	54.60	56.84	59.32	56.28	55.39	58.30	59.01	55.45	54.92	54.68	55.04
20	54.53	54.50	58.72	60.09	56.02	55.62	58.22	58.44	55.56	54.58	54.72	54.66
21	54.90	54.36	59.55	59.24	56.05	56.98	57.98	57.95	55.58	54.64	54.48	54.62
22	54.62	54.28	59.20	59.35	58.08	57.44	58.80	57.62	56.70	54.56	54.95	54.85
23	54.35	54.22	57.85	61.60	65.05	57.65	61.28	57.24	59.15	54.40	57.30	55.38
24	54.26	54.18	57.22	61.70	62.40	57.58	61.64	57.02	58.76	54.25	58.34	54.72
25	54.19	54.24	56.80	61.31	60.30	57.55	60.35	56.90	57.50	54.25	56.95	54.32
26	54.10	54.18	56.70	62.92	59.18	58.10	59.36	56.52	56.64	54.06	56.14	54.22
27	54.82	54.08	56.52	62.86	58.44	57.82	59.87	56.20	56.08	54.32	55.85	54.12
28	54.74	54.02	56.52	60.87	57.80	57.28	59.57	56.12	55.74	54.05	55.92	54.12
29	55.12	53.95	56.62	59.64	-	56.92	59.52	56.25	55.58	54.26	56.55	54.28
30	54.86	53.99	56.75	59.07	-	56.56	59.08	56.04	55.80	54.16	56.66	54.32
31	54.64	-	56.70	58.70	-	56.40	-	55.68	-	54.12	55.89	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54.13	57.35	57.48	55.95	57.72	55.63	56.70	55.95	55.53	58.33	57.22	54.03
2	54.10	56.85	56.98	56.45	57.61	56.18	56.60	55.73	55.45	57.67	57.10	54.05
3	54.10	56.56	56.67	56.08	57.28	55.95	56.55	55.55	55.45	56.95	57.40	53.85
4	53.93	56.35	56.41	55.95	57.05	56.00	56.30	55.60	55.53	56.55	56.95	53.75
5	54.00	56.12	56.30	56.00	57.25	56.00	56.10	55.58	55.35	56.20	56.50	53.38
6	54.00	56.00	56.13	56.00	57.55	56.00	56.07	55.50	55.10	55.75	56.57	53.20
7	54.10	55.75	56.28	56.30	57.55	56.05	56.00	55.38	54.90	55.50	57.17	53.15
8	54.05	55.75	56.30	56.75	59.07	57.82	56.00	55.00	55.32	55.57	56.60	53.25
9	54.05	55.45	56.15	56.77	59.32	56.90	56.45	54.82	55.20	55.40	56.23	53.55
10	53.90	55.33	55.80	56.35	58.40	56.45	57.95	54.85	55.12	55.25	56.59	53.53
11	54.97	55.30	55.45	56.05	58.54	56.20	59.47	54.95	54.95	55.48	57.10	53.60
12	53.85	55.10	55.10	56.10	58.30	55.90	59.20	55.10	54.90	55.17	57.40	53.45
13	53.70	55.40	54.75	56.05	57.60	55.85	59.17	55.00	55.05	56.05	62.25	53.22
14	53.95	58.60	54.50	56.00	57.65	55.90	58.85	54.85	55.15	55.65	58.85	53.35
15	53.90	60.55	54.80	56.05	58.65	57.82	58.38	55.07	57.20	55.50	57.63	53.37
16	54.00	59.45	55.20	55.65	58.30	58.15	58.05	56.00	56.10	55.40	57.60	54.05
17	53.98	58.50	55.52	55.32	57.60	58.15	57.70	56.87	55.60	54.85	56.65	54.20
18	53.97	57.80	56.50	55.23	57.10	58.27	57.40	56.85	55.63	54.85	57.03	54.20
19	53.90	57.45	58.43	55.00	56.95	59.00	57.70	56.15	55.35	54.67	56.85	54.08
20	54.80	57.13	60.59	54.57	58.20	59.00	57.84	55.85	54.87	56.50	56.53	55.42
21	56.32	56.85	59.30	55.00	57.90	58.68	57.90	55.70	54.65	56.88	56.09	58.55
22	57.27	56.70	58.25	55.15	57.35	58.47	57.70	55.63	54.90	58.75	56.00	65.15
23	56.72	56.45	57.75	55.15	57.15	58.47	57.56	55.48	54.93	63.85	55.40	70.16
24	61.42	56.30	57.40	55.16	57.35	58.25	57.40	55.50	55.30	65.55	55.50	64.25
25	64.00	56.12	57.10	58.10	57.10	58.05	57.10	56.70	55.05	63.80	55.45	61.20
26	60.35	56.00	56.80	63.80	56.83	57.90	56.72	57.37	54.80	61.07	55.28	59.19
27	58.70	55.83	56.55	64.90	56.50	57.50	56.50	57.15	57.00	59.50	55.23	58.07
28	58.35	55.90	56.38	60.90	56.25	57.25	56.40	56.82	60.50	58.55	55.15	57.40
29	58.30	56.90	56.32	58.95	-	57.00	56.28	56.50	61.37	57.82	55.00	56.30
30	58.27	57.50	56.20	58.07	-	56.80	56.05	56.22	59.70	57.70	54.65	56.30
31	58.00	-	55.95	57.95	-	56.70	-	55.85	-	57.65	53.92	-

Delaware River at Stockton--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55.88	54.25	55.35	54.60	55.60	61.31	59.78	56.30	53.60	53.10	52.77	52.60
2	55.70	54.16	55.37	54.65	55.57	60.80	60.08	56.15	53.73	53.45	52.58	52.58
3	55.33	54.15	55.25	54.60	55.60	60.05	60.95	55.95	53.63	53.10	52.66	52.35
4	55.00	54.22	56.58	54.55	58.55	58.85	60.62	55.72	53.55	52.90	52.63	52.30
5	55.00	54.15	58.90	54.67	57.22	58.30	59.40	55.50	53.40	53.01	52.84	52.30
6	54.80	54.40	63.50	55.25	56.55	58.57	58.55	55.30	53.45	52.90	52.77	52.23
7	55.10	55.05	68.02	56.55	56.30	59.05	60.37	55.15	53.23	52.82	52.55	52.16
8	55.25	55.32	64.75	56.60	56.30	59.80	60.45	55.00	53.25	52.80	52.60	52.55
9	54.65	55.50	61.70	56.83	56.15	58.60	59.50	54.75	53.25	52.65	52.55	52.53
10	54.45	55.45	60.70	56.25	55.90	58.00	58.65	55.20	53.12	52.80	52.77	52.62
11	54.26	55.41	61.08	56.05	56.65	57.55	58.15	55.26	53.22	52.70	52.72	52.65
12	54.25	55.43	61.70	55.95	56.80	57.20	58.10	55.13	53.30	52.60	52.55	52.43
13	54.25	55.20	60.18	55.95	56.10	57.05	58.70	54.95	53.50	52.78	52.55	52.25
14	54.05	55.00	59.15	55.75	55.95	56.95	58.50	54.76	53.85	52.83	52.70	52.50
15	54.35	54.87	58.35	55.53	55.90	57.05	57.90	54.40	54.00	52.85	52.55	52.58
16	54.25	55.12	57.65	55.20	59.37	57.95	57.65	54.25	53.60	52.73	52.43	52.40
17	54.05	55.05	56.88	55.43	61.50	57.60	58.05	54.50	53.35	52.73	52.70	52.21
18	53.75	55.03	56.77	55.20	60.35	57.35	58.35	54.45	53.30	52.43	52.75	52.10
19	53.83	54.92	56.60	54.98	59.15	56.80	58.00	54.35	53.25	52.35	52.65	52.03
20	54.00	55.33	56.32	55.00	58.60	56.43	58.70	54.15	53.35	52.55	52.90	52.05
21	54.34	56.12	56.05	54.75	59.00	56.24	58.75	54.04	53.21	52.60	53.12	52.30
22	54.77	57.05	55.83	54.60	63.20	56.15	58.40	54.00	53.35	52.35	53.05	52.32
23	54.55	c56.5	55.60	54.20	60.40	56.10	58.05	54.50	53.35	52.55	52.55	52.52
24	54.10	56.17	55.30	54.25	58.70	55.90	58.18	55.00	53.20	52.53	52.75	52.53
25	54.90	56.08	55.10	54.60	58.00	55.83	57.75	54.80	53.10	52.32	52.82	52.45
26	55.28	55.70	55.12	54.20	57.35	56.75	57.30	54.60	52.95	52.20	52.90	52.26
27	55.25	55.68	55.80	53.95	58.85	58.65	57.10	54.32	52.85	52.50	53.60	52.15
28	54.87	55.55	55.60	53.95	59.10	60.60	56.95	54.10	52.70	52.72	52.95	52.38
29	54.90	55.45	54.90	54.17	-	61.10	57.00	54.00	52.75	52.90	52.72	52.60
30	54.90	55.38	54.95	54.25	-	60.35	56.75	53.83	52.85	52.95	52.45	52.92
31	54.50	-	54.85	56.60	-	59.80	-	53.70	-	53.24	52.62	-

c Estimated

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	53.10	55.08	53.05	53.45	58.35	53.35	72.49	56.85	57.20	55.33	53.32	57.90
2	53.35	55.90	53.05	53.40	58.47	53.17	69.42	56.74	58.64	54.83	53.25	61.65
3	53.43	56.39	53.12	53.10	57.50	53.15	63.85	57.00	58.35	55.10	53.12	59.88
4	53.80	55.47	53.21	53.30	58.05	57.00	62.80	57.17	57.72	54.95	53.00	57.75
5	53.80	55.63	53.25	53.30	58.00	57.70	63.00	56.95	57.00	54.60	52.88	56.40
6	53.97	55.00	53.75	52.95	57.80	55.75	64.00	56.55	56.60	54.27	52.62	55.50
7	53.56	55.22	53.72	53.12	57.75	55.20	62.42	56.15	56.18	54.05	52.75	55.00
8	53.20	55.30	53.65	53.75	57.60	54.95	61.82	55.90	55.80	53.80	53.05	54.62
9	53.00	55.00	53.40	53.25	57.35	54.82	65.15	55.75	55.40	53.65	53.10	54.25
10	52.93	55.00	53.30	54.10	55.50	54.67	68.65	55.60	55.75	53.75	52.95	54.38
11	52.90	55.15	53.25	56.55	56.10	54.30	64.70	55.43	55.80	53.75	52.85	54.28
12	52.86	54.85	53.30	56.55	55.20	54.01	62.34	55.20	55.70	53.80	52.87	54.25
13	52.90	54.65	53.65	55.30	53.90	53.86	63.00	54.90	55.43	54.00	52.60	54.03
14	52.55	54.75	53.43	53.70	53.60	54.17	63.15	54.75	55.25	54.30	52.57	53.95
15	52.58	54.63	53.37	54.80	53.25	64.47	61.30	54.75	55.00	53.85	52.90	53.70
16	52.45	54.40	53.50	55.25	53.40	59.35	60.00	54.75	54.80	53.65	52.87	53.41
17	52.60	54.17	53.15	54.30	53.62	57.65	59.35	55.35	54.45	53.52	52.82	53.32
18	52.33	54.05	53.12	53.95	53.65	57.50	58.75	57.10	54.22	53.40	52.80	53.32
19	52.65	53.95	53.23	53.95	53.55	57.50	58.75	56.92	54.43	53.25	52.88	53.35
20	52.70	53.82	53.40	53.75	54.79	58.15	61.00	56.15	54.33	53.30	52.70	53.19
21	52.50	53.75	54.21	53.60	54.70	58.25	62.00	57.27	54.23	53.30	52.48	53.26
22	52.30	53.92	56.20	55.75	54.32	58.42	64.40	57.25	53.85	53.05	52.75	53.21
23	52.75	53.75	56.50	58.40	54.00	57.90	63.25	56.95	53.75	53.05	52.70	53.12
24	52.85	53.43	55.50	60.10	53.75	56.90	61.45	56.80	53.60	52.95	52.65	53.05
25	53.30	53.35	55.00	60.00	53.60	56.45	60.20	56.50	53.75	53.17	52.70	53.27
26	53.15	53.37	54.35	60.25	53.43	55.95	59.20	56.65	54.55	53.75	52.70	54.28
27	53.05	53.27	54.35	59.95	53.35	55.65	58.50	57.00	54.90	53.45	52.60	53.95
28	53.05	53.20	53.90	59.10	53.27	55.63	58.00	57.50	54.70	53.45	52.90	53.62
29	53.65	53.22	53.97	59.15	53.20	56.40	57.45	57.32	54.75	53.15	53.90	53.40
30	54.78	53.23	53.65	59.00	-	56.30	57.05	56.90	54.90	53.10	53.85	53.25
31	54.80	-	53.45	58.50	-	60.05	-	57.10	-	53.37	53.70	-

Delaware River at Lambertville

Location.- Wire-weight gage, lat. 40°21'50", long. 74°56'55", on bridge at Lambertville, Hunterdon County. Datum of gage is 0.11 foot above mean sea level (United States Coast and Geodetic Survey datum). Chain gage on covered bridge at same site used July 23, 1897 to Oct. 11, 1903, staff gage on pier used Oct. 12, 1903 to July 22, 1904, chain gage on present steel bridge used July 23, 1904 to Mar. 31, 1908. The staff and the two chain gages were to the same datum, which was about 45.4 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 6,680 square miles (revised).

Records available.- July 1897 to March 1908 and March 1936 to September 1940 (gage heights). Monthly discharge, July 1897 to December 1902.

Extremes.- 1897-1908, 1936-40: Maximum gage height observed, 70.0 feet (present datum) Oct. 11, 1903; minimum observed, 46.80 feet Sept. 19-21, 1939.

Remarks.- 1897-1908: Gage read twice daily and occasionally at peak stages. Records republished from Water-Supply Papers of United States Geological Survey.
1936-40: Gage read twice daily except during periods of gage heights above 50.9 feet, when it was read hourly. In tables, figures for March 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records for 1936-40 collected in cooperation with Delaware River Joint Toll Bridge Commission.

Daily mean gage height, in feet, 1897-1908 and 1936-37

1897

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	-	6.70	3.74	11	-	4.70	3.00	21	-	3.91	2.55
2	-	6.13	3.83	12	-	4.83	3.87	22	-	3.87	2.60
3	-	5.58	4.00	13	-	4.91	3.63	23	5.50	4.00	2.65
4	-	5.17	3.95	14	-	4.95	3.41	24	5.25	4.17	2.75
5	-	5.74	4.08	15	-	4.70	3.17	25	5.00	4.33	3.05
6	-	5.87	3.91	16	-	4.81	2.90	26	4.92	5.20	3.25
7	-	5.37	3.87	17	-	4.45	2.95	27	4.83	5.08	3.10
8	-	5.04	3.70	18	-	4.25	2.75	28	6.12	4.69	3.40
9	-	4.78	3.38	19	-	4.16	2.85	29	7.46	4.25	3.10
10	-	4.52	3.00	20	-	4.04	2.50	30	8.75	3.95	2.85
								31	7.75	3.74	-

1897-98

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.75	2.35	5.35	4.30		5.45	6.30	5.70	5.70	3.60	3.95	5.15
2	2.60	3.90	5.00	4.05	-	5.20	5.85	5.45	5.30	3.50	4.20	4.70
3	2.65	5.40	4.75	3.90	-	5.05	5.55	5.20	5.05	3.40	5.40	4.50
4	2.50	5.15	4.55	-	-	5.10	5.35	5.20	4.90	3.30	4.70	4.35
5	2.40	4.90	5.35	-	-	4.80	5.10	5.25	4.75	3.20	5.35	4.25
6	2.30	4.40	6.00	-	-	4.70	4.95	5.35	4.60	3.20	6.40	4.25
7	2.20	4.15	7.00	-	-	4.65	4.85	5.60	4.40	3.05	6.20	4.25
8	2.20	3.95	6.10	-	4.40	4.50	4.75	7.10	4.40	3.00	5.25	4.25
9	2.20	3.90	5.60	4.30	4.50	4.60	4.70	7.95	4.30	3.00	4.80	4.55
10	2.20	4.15	5.40	4.25	4.45	4.80	4.60	6.80	4.20	2.90	4.85	4.60
11	2.20	4.45	5.20	4.25	4.55	5.25	4.50	6.10	4.10	2.90	6.20	4.35
12	2.30	4.60	5.20	4.20	4.80	5.90	4.40	5.80	4.15	2.65	5.35	4.15
13	2.65	4.65	5.45	4.25	5.25	7.30	4.40	5.95	4.00	2.70	4.90	4.05
14	3.20	4.70	6.35	4.55	6.85	8.30	4.30	5.65	4.00	2.60	4.55	3.95
15	3.35	4.50	8.25	5.45	6.20	8.00	4.45	6.25	4.55	2.50	4.45	3.80
16	3.45	4.35	10.15	5.85	5.55	6.80	4.60	6.00	4.30	2.50	4.30	3.75
17	3.35	4.40	9.00	5.50	5.30	6.10	4.45	6.60	4.15	2.40	4.10	3.70
18	3.05	4.50	7.60	5.20	4.85	5.85	4.30	6.50	4.00	2.50	4.35	3.65
19	2.75	4.45	6.85	4.75	4.60	5.55	4.25	6.05	3.90	2.60	4.50	3.55
20	2.50	4.35	6.20	4.80	7.95	5.50	4.20	6.05	3.90	4.20	4.45	3.45
21	2.45	4.25	5.60	5.85	8.85	6.60	4.20	6.60	3.90	3.70	4.75	3.30
22	2.40	4.20	5.40	6.50	9.60	6.60	4.05	6.55	4.10	3.70	5.00	3.30
23	2.45	4.10	5.25	8.00	8.85	6.60	4.10	6.00	4.05	3.30	4.55	3.40
24	2.60	4.10	5.25	8.40	7.85	8.30	4.35	7.00	3.95	3.10	4.35	3.50
25	2.60	4.05	4.90	7.70	7.00	7.95	5.80	6.15	3.70	3.00	6.95	3.45
26	2.55	3.95	4.50	7.05	6.55	6.95	7.35	6.95	3.70	3.20	7.25	3.30
27	2.70	4.75	4.60	6.40	6.05	6.40	7.30	7.65	3.60	3.40	6.45	3.25
28	2.55	6.20	4.50	5.85	5.75	6.10	6.80	7.35	3.55	3.40	5.50	3.20
29	2.35	6.35	-	5.60	-	6.10	6.50	7.00	3.50	4.20	5.10	3.20
30	2.30	5.65	4.20	5.05	-	6.45	6.10	6.60	3.65	4.20	4.80	3.30
31	2.25	-	4.25	4.90	-	6.75	-	6.10	-	4.05	4.60	-

Delaware River at Lambertville--Continued

Daily mean gage height, in feet, 1897-1908 and 1936-37--Continued

1898-99

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.35	5.05	5.40	4.95	-	6.80	6.25	4.75	3.60	4.40	4.20	3.45
2	3.25	4.90	5.20	-	-	6.80	6.25	4.60	3.60	4.30	4.00	3.35
3	2.95	4.70	5.05	-	-	6.30	5.95	4.60	3.30	3.95	4.00	3.35
4	2.90	4.60	5.00	-	-	6.25	5.80	4.50	3.20	3.75	3.90	3.30
5	2.90	4.45	6.85	5.40	4.50	7.95	5.65	4.40	3.05	3.65	3.85	3.45
6	2.90	4.40	6.30	6.05	4.45	8.30	5.70	4.30	2.90	3.65	3.70	4.90
7	2.90	4.35	6.10	7.00	4.40	9.65	5.90	4.20	2.95	3.65	3.90	4.35
8	3.95	4.30	5.75	6.55	4.40	8.20	7.40	4.10	2.85	3.60	3.65	3.95
9	4.05	4.30	5.45	6.10	-	7.20	9.10	4.00	2.90	3.90	3.55	3.85
10	3.90	4.80	5.45	5.80	-	6.45	8.70	3.90	2.90	3.80	3.45	3.75
11	4.35	5.55	5.00	5.35	-	6.20	7.65	3.85	2.85	3.75	3.65	3.50
12	4.10	7.60	5.15	5.00	-	6.30	7.15	4.00	2.70	3.70	3.55	3.90
13	3.85	7.15	4.80	4.80	-	7.50	7.75	4.00	2.60	3.75	3.35	3.65
14	3.90	6.30	4.95	4.90	-	9.15	8.45	4.00	2.65	3.55	3.15	3.45
15	4.10	5.75	-	5.05	-	8.10	8.85	3.90	2.60	3.55	3.10	3.35
16	4.60	5.45	-	5.40	-	7.70	9.00	3.80	2.60	3.45	2.95	3.15
17	5.50	5.30	-	5.95	-	6.90	8.90	3.80	2.50	3.60	2.80	3.10
18	5.00	5.15	-	6.10	-	6.45	7.85	3.70	2.60	3.60	2.75	2.85
19	4.70	6.85	4.50	5.50	-	7.40	7.25	3.80	2.45	3.70	2.50	2.75
20	4.60	6.85	4.85	5.30	7.60	8.70	7.05	3.90	2.40	3.75	2.80	3.90
21	4.50	7.15	4.80	5.30	6.65	9.00	7.15	3.90	2.40	3.55	2.65	3.90
22	4.60	6.65	4.70	4.95	5.70	8.05	7.00	3.80	2.45	3.50	2.75	3.90
23	4.65	6.50	5.85	5.05	6.05	7.70	6.70	3.70	2.75	3.35	2.90	3.75
24	4.80	6.30	5.95	4.95	5.95	7.35	6.15	3.60	3.00	3.25	2.85	3.70
25	4.70	6.10	6.30	7.30	5.65	7.25	5.95	3.60	3.25	3.10	2.60	3.65
26	4.70	5.90	5.95	6.00	5.45	7.00	5.70	3.50	3.70	3.15	2.75	5.40
27	5.20	5.90	5.50	5.60	8.25	6.65	5.50	3.40	4.30	3.40	3.95	6.05
28	5.90	5.35	5.25	5.25	7.20	6.60	5.40	3.40	4.05	4.15	4.20	6.25
29	5.95	5.35	4.70	4.95	-	7.40	5.10	3.20	4.00	4.00	3.75	5.40
30	5.45	5.40	4.95	4.95	-	6.80	4.90	3.20	4.00	3.85	3.55	5.00
31	5.25	-	4.90	4.75	-	6.40	-	3.40	-	4.30	3.65	-

1899-1900

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.65	3.40	3.80	-	-	5.40	4.25	4.45	3.30	2.65	3.40	2.95
2	4.45	3.80	3.80	-	-	12.00	4.20	4.35	3.40	2.50	3.15	3.05
3	4.25	4.05	3.80	-	-	10.70	4.30	4.25	3.45	2.60	3.00	2.75
4	4.10	4.65	3.80	-	7.00	7.95	4.40	4.20	3.65	2.90	3.05	2.90
5	4.05	4.75	3.95	-	6.85	6.80	4.50	4.05	3.80	3.10	3.05	2.70
6	3.95	4.60	3.85	-	5.75	6.20	4.40	4.00	3.70	3.40	2.70	2.70
7	3.90	4.55	3.90	-	5.30	6.05	4.30	3.95	3.55	3.80	3.25	2.60
8	3.85	4.35	3.75	-	5.45	5.80	4.40	3.90	3.35	3.65	2.70	2.65
9	3.75	3.75	3.75	-	5.60	6.00	4.60	3.80	3.30	3.65	2.60	2.90
10	3.70	4.10	3.85	-	6.95	5.60	4.55	3.80	3.55	3.55	2.65	2.85
11	3.60	4.10	3.70	-	6.55	5.45	4.45	3.90	3.85	3.50	2.80	3.00
12	3.60	4.10	3.75	5.65	5.60	5.20	4.30	3.80	3.80	3.35	2.55	3.25
13	3.60	4.25	4.20	4.35	7.46	4.90	4.35	3.80	3.50	3.35	2.55	3.10
14	3.50	4.50	5.30	3.95	11.40	4.60	4.40	3.80	3.45	3.20	3.05	3.00
15	3.50	4.45	5.60	3.70	9.70	4.55	4.50	3.70	3.95	3.30	3.05	2.85
16	3.40	4.35	5.30	3.60	8.10	4.50	4.45	3.60	3.95	3.10	2.80	3.45
17	3.40	4.35	5.10	3.85	6.65	4.20	4.30	3.60	3.85	3.35	2.85	3.25
18	3.45	4.50	4.85	3.80	5.95	4.20	4.75	4.00	3.70	3.25	2.80	3.00
19	3.40	4.50	4.70	3.70	5.25	4.10	6.60	4.80	3.45	3.30	2.95	3.00
20	3.40	4.45	4.65	4.45	5.05	5.15	7.15	5.35	3.45	3.35	3.15	2.70
21	3.40	4.30	4.75	7.70	4.90	5.90	6.50	5.40	3.25	3.30	3.10	2.55
22	3.45	4.20	4.75	7.75	6.05	6.30	6.00	5.05	3.20	3.50	2.95	2.65
23	3.35	4.20	4.65	6.20	9.65	5.65	5.85	4.60	3.05	3.35	2.90	2.85
24	3.30	4.20	5.10	5.75	8.70	5.30	5.95	4.25	3.15	3.45	2.80	2.85
25	3.25	4.10	5.45	5.25	7.10	5.15	5.95	4.15	3.20	3.35	2.65	2.80
26	3.20	4.00	5.45	5.00	6.10	5.00	5.70	4.05	3.15	4.35	3.10	2.90
27	3.20	4.00	5.20	5.20	5.25	4.85	5.25	3.95	3.00	4.10	3.05	2.95
28	3.20	3.95	5.00	-	4.90	4.95	4.95	3.75	2.90	3.85	2.95	2.90
29	3.45	3.90	-	-	-	4.60	4.80	3.60	2.70	3.65	2.80	2.65
30	3.25	3.90	-	-	-	4.50	4.65	3.60	2.70	3.60	2.85	2.95
31	3.20	-	-	-	-	4.35	-	3.45	-	3.50	3.10	-

Delaware River at Lambertville--Continued

Daily mean gage height, in feet, 1897-1908 and 1936-37--Continued

1900-1901

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.90	2.80	4.15	3.90	-	-	5.70	5.55	8.20	3.30	3.60	5.10
2	2.50	2.75	4.05	3.80	-	-	5.40	5.25	7.25	3.20	3.70	5.05
3	2.55	2.85	3.95	4.05	-	-	5.65	5.50	7.00	3.05	3.35	5.50
4	2.65	3.20	3.95	-	-	2.90	6.05	6.00	6.70	3.10	3.15	5.45
5	2.80	3.25	4.40	-	-	3.05	6.35	5.80	6.20	3.00	2.85	5.20
6	2.55	3.20	4.90	-	-	3.15	6.70	5.40	5.70	3.00	2.70	4.80
7	2.75	3.20	5.40	-	-	3.10	7.10	5.10	5.50	3.50	3.95	4.55
8	2.70	3.15	4.95	-	-	2.80	7.85	4.95	5.95	4.15	4.20	4.35
9	2.75	3.20	4.60	2.95	-	3.20	7.90	4.75	6.55	3.90	4.00	4.15
10	2.75	3.10	4.45	3.30	-	3.40	7.20	4.80	6.00	3.70	3.90	4.05
11	2.75	2.90	4.20	3.55	-	8.05	6.60	5.45	5.50	3.45	3.85	4.00
12	2.60	2.75	3.95	4.95	-	6.25	6.20	6.55	5.15	3.60	4.00	4.00
13	2.50	2.55	3.90	4.25	-	5.40	5.80	7.50	4.90	3.90	3.80	4.00
14	3.15	2.70	4.40	3.95	-	5.10	5.55	7.15	4.70	3.75	3.50	4.00
15	2.95	2.60	-	3.80	-	5.30	5.35	6.55	4.50	3.55	3.40	4.00
16	3.00	2.85	-	3.85	-	5.05	5.25	6.00	4.40	3.45	3.35	4.30
17	2.80	2.85	-	3.80	-	4.85	5.15	5.60	4.35	3.35	3.15	4.35
18	2.60	3.10	-	3.65	-	4.70	5.00	5.35	4.20	3.40	4.50	4.25
19	2.40	2.85	-	-	-	4.70	4.90	5.15	4.10	3.45	7.25	4.25
20	2.35	2.80	-	-	-	4.75	4.85	5.65	4.00	3.35	5.90	4.30
21	2.60	2.75	-	-	-	6.50	5.65	5.35	3.85	3.20	5.20	4.20
22	2.65	2.85	-	-	-	10.50	8.15	5.15	3.80	2.95	5.60	4.05
23	2.25	3.10	-	-	-	9.30	9.75	4.95	3.80	2.90	6.25	3.85
24	2.40	3.40	3.40	3.30	-	7.45	8.80	4.85	3.75	2.70	6.20	3.75
25	2.40	3.15	3.60	3.30	-	6.85	8.95	4.85	3.80	2.55	9.85	3.70
26	2.50	3.75	3.50	3.35	-	6.85	8.30	5.50	3.65	2.50	8.55	3.55
27	2.50	3.50	3.80	3.35	-	8.10	7.75	5.95	3.50	2.50	6.75	3.50
28	2.85	4.10	4.05	3.20	-	9.40	6.90	5.75	3.50	2.55	6.00	3.45
29	2.80	4.75	4.05	3.25	-	8.10	6.30	6.05	3.55	2.45	5.45	3.55
30	2.85	4.40	-	2.80	-	6.70	5.90	8.30	3.45	3.80	5.00	4.40
31	2.95	-	4.00	2.70	-	6.15	-	9.60	-	3.60	4.75	-

1901-2

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.60	3.60	3.70	7.40	-	18.17	7.05	5.80	3.70	6.10	5.45	3.30
2	4.60	3.60	3.65	6.45	4.75	20.21	6.60	5.35	3.55	6.05	5.20	3.20
3	4.50	3.60	3.85	5.80	4.90	16.40	6.25	5.40	3.45	5.50	5.95	3.10
4	4.30	3.50	4.30	5.40	-	12.50	5.95	5.20	3.40	5.15	5.70	2.95
5	4.05	3.40	4.10	5.00	-	9.45	5.65	5.15	3.30	5.75	5.15	2.90
6	3.95	3.45	-	4.95	-	8.15	5.45	5.00	3.30	5.20	4.85	2.85
7	3.85	3.35	-	4.90	-	6.80	5.60	4.70	3.55	5.00	4.70	2.70
8	3.70	3.25	-	4.85	-	6.45	6.05	4.65	3.55	5.10	4.50	2.80
9	3.70	3.25	-	4.70	-	7.00	7.20	4.50	3.40	5.10	4.35	2.90
10	3.60	3.35	4.05	4.70	-	7.70	8.05	4.30	3.35	4.70	4.20	3.45
11	3.60	3.30	5.40	4.50	-	7.95	8.30	4.20	3.30	4.50	4.15	3.65
12	3.50	3.25	6.80	4.45	-	7.60	7.55	4.10	3.40	4.25	4.20	4.10
13	3.50	3.30	6.05	4.15	-	8.85	7.10	4.10	3.45	4.15	4.10	3.95
14	3.85	3.75	5.60	-	-	11.05	6.75	4.00	3.65	4.00	3.90	3.70
15	4.30	4.20	14.60	-	-	10.20	6.25	3.90	3.65	3.80	3.80	3.55
16	5.15	4.10	18.90	-	-	8.70	5.95	3.90	3.55	3.65	3.70	3.45
17	5.15	4.00	12.60	-	-	9.35	5.60	3.90	3.55	3.60	3.60	3.25
18	4.85	3.85	8.65	-	-	11.80	5.45	3.75	3.75	3.50	3.50	3.20
19	4.60	3.80	7.30	-	-	9.70	5.15	3.75	3.85	3.50	3.30	3.00
20	4.45	3.65	6.35	3.90	-	7.90	5.10	3.65	3.80	3.65	3.45	2.95
21	4.35	3.65	5.80	3.80	-	7.20	4.90	3.70	3.75	3.95	3.30	2.95
22	4.15	3.50	5.15	8.93	-	6.75	4.80	3.65	4.85	6.10	3.50	3.10
23	4.10	3.50	5.00	8.55	-	6.35	4.65	3.60	4.30	6.35	3.35	3.00
24	4.00	3.75	4.75	7.95	-	6.20	4.55	3.55	4.15	5.75	3.40	2.85
25	3.85	4.00	4.85	6.60	-	6.10	4.45	3.50	3.85	5.55	3.30	2.90
26	-	4.00	4.80	5.80	8.90	5.90	4.30	3.50	3.85	5.90	3.20	5.65
27	3.85	4.30	5.45	5.70	8.66	5.70	4.30	3.95	4.00	5.45	3.00	9.70
28	3.75	4.10	5.05	5.75	12.34	5.45	4.30	4.05	3.95	4.90	2.95	9.05
29	3.70	-	7.55	5.45	-	5.80	4.20	4.10	4.00	4.80	3.15	8.35
30	3.60	-	9.20	-	-	7.60	5.15	3.90	4.70	5.20	3.10	12.10
31	3.60	-	8.85	-	-	7.90	-	3.85	-	5.60	3.30	-

Delaware River at Lambertville--Continued

Daily mean gage height, in feet, 1897-1908 and 1936-37--Continued

1902-3

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10.55	6.15	4.10	5.45	7.65	a13.58	6.60	4.20	3.00	5.70	4.60	6.90
2	9.60	5.75	4.00	5.25	6.45	12.90	6.40	4.05	2.95	5.55	4.25	6.15
3	8.60	5.40	4.60	6.65	6.25	9.15	5.95	3.95	2.85	5.40	4.05	5.60
4	7.40	5.10	4.65	6.75	7.44	7.85	5.85	3.90	2.85	4.85	4.00	5.25
5	6.90	5.00	4.55	6.65	8.40	7.20	5.95	4.00	2.70	4.75	4.85	4.95
6	7.10	4.85	4.50	6.35	7.65	6.80	5.70	3.95	2.70	4.50	5.80	4.75
7	6.65	4.75	4.40	5.95	7.20	6.60	5.50	3.85	2.85	4.35	6.50	4.50
8	6.25	4.65	4.20	5.50	6.60	6.70	6.40	3.75	3.25	4.15	6.60	4.35
9	5.80	4.55	4.15	5.20	6.30	7.30	7.45	3.65	3.80	4.10	5.85	4.25
10	5.45	4.40	4.10	4.85	5.80	9.10	8.00	3.60	3.60	3.95	5.45	4.20
11	5.20	4.30	4.10	-	5.50	8.60	7.35	3.60	3.65	3.85	5.10	4.15
12	6.70	4.20	4.10	-	6.40	9.90	6.90	3.55	5.70	4.00	4.90	4.10
13	7.15	4.10	4.20	-	7.30	9.10	6.60	3.45	9.55	3.90	4.75	4.10
14	6.90	4.10	4.10	-	7.50	7.70	7.13	3.40	9.35	3.80	4.60	4.05
15	6.30	4.00	4.10	-	6.85	7.25	7.80	3.40	7.60	3.75	4.30	3.95
16	5.90	3.95	5.60	-	6.50	6.80	7.45	3.35	7.10	3.65	4.25	4.25
17	5.55	4.00	8.75	-	6.30	6.45	7.05	3.30	6.35	3.60	4.20	3.95
18	5.25	3.85	9.60	4.30	5.65	6.15	6.45	3.35	5.90	3.85	4.10	4.50
19	5.10	3.80	8.25	4.70	-	5.85	5.90	3.30	5.50	4.80	4.05	4.65
20	4.95	3.80	7.30	4.40	-	5.65	5.65	3.30	5.45	4.85	4.05	4.50
21	4.75	3.70	7.60	5.40	-	5.50	5.40	3.30	5.80	5.55	4.20	4.35
22	4.60	3.70	11.80	5.85	-	6.15	5.25	3.30	6.65	5.05	4.10	4.10
23	4.50	3.70	12.90	5.35	4.80	7.90	5.05	3.30	6.80	5.05	4.10	4.00
24	4.40	3.70	10.70	5.50	4.90	b12.73	4.85	3.30	6.60	5.15	4.00	3.85
25	4.30	3.70	8.60	5.10	4.90	12.40	4.80	3.25	6.70	5.05	3.85	3.65
26	4.25	3.85	7.60	4.70	4.70	9.55	4.70	3.10	6.30	4.60	3.75	3.60
27	4.20	4.10	7.10	4.65	4.70	8.10	4.55	3.20	5.95	4.30	3.75	3.55
28	4.90	4.10	6.35	4.65	8.12	7.25	4.45	3.00	5.55	4.10	4.25	3.55
29	7.20	4.20	5.85	5.65	-	6.65	4.35	3.10	5.45	3.90	4.95	3.50
30	8.20	4.15	5.70	5.75	-	6.15	4.20	3.10	5.60	3.90	7.56	3.50
31	6.95	-	5.45	8.15	-	6.45	-	3.10	-	4.60	7.75	-

a Highest record 15.10 feet at 8:40 p.m.
b Highest record 13.8 feet at 10:20 p.m.

1903-4

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.50	4.65	4.40	-	-	-	5.45	3.85	3.20	3.10	3.80	3.10
2	3.50	4.65	4.35	-	-	-	8.05	3.75	3.20	3.50	3.55	3.05
3	3.50	4.55	4.55	-	-	-	7.80	3.45	3.20	3.35	3.40	3.05
4	3.25	4.50	4.30	-	-	-	6.50	3.10	3.05	3.25	3.30	3.10
5	3.40	4.50	4.45	-	b7.30	-	5.30	2.95	2.90	3.10	3.55	3.05
6	3.30	4.50	4.40	-	b6.30	-	4.95	2.85	2.95	3.05	3.60	3.00
7	3.30	4.45	4.25	-	-	5.30	4.75	2.65	3.05	3.00	3.40	3.10
8	3.70	4.60	4.30	-	-	9.45	4.85	2.60	2.80	3.45	3.30	3.20
9	9.40	4.50	4.40	-	-	7.70	5.30	2.50	2.70	4.20	3.35	3.00
10	20.20	4.40	4.45	-	7.00	8.05	5.60	2.50	3.10	4.00	3.30	2.95
11	a20.70	4.30	4.30	-	8.30	6.40	5.65	2.55	3.25	3.70	4.10	3.20
12	12.70	4.30	4.25	-	-	5.20	5.10	2.65	3.15	3.55	3.45	2.95
13	9.85	4.20	4.80	-	-	4.55	4.60	2.60	2.85	3.70	3.95	2.80
14	7.30	4.25	5.25	-	-	4.15	4.15	2.60	2.70	3.50	4.15	3.50
15	5.55	4.20	-	-	7.90	3.80	3.85	2.65	2.65	3.00	3.80	6.95
16	4.85	4.20	-	-	-	3.75	3.50	2.80	2.50	3.00	3.45	5.15
17	4.45	4.20	-	-	-	3.45	3.35	2.80	2.40	3.00	3.25	4.75
18	4.40	5.60	-	-	-	3.40	3.05	3.05	2.30	3.05	3.15	4.60
19	4.40	7.35	-	-	-	3.40	3.00	3.25	2.20	3.40	3.05	4.20
20	4.45	6.50	3.70	-	-	3.85	2.90	3.35	2.20	3.40	3.40	3.90
21	4.05	5.80	5.55	-	b10.00	3.85	2.90	3.35	2.20	3.00	3.95	3.60
22	3.85	5.45	6.25	-	b15.05	3.95	2.85	3.35	2.10	3.20	3.95	3.50
23	5.70	5.25	4.95	5.00	b13.50	4.25	2.70	3.20	2.00	2.80	4.30	3.35
24	5.65	5.05	4.15	4.45	b11.75	4.20	2.60	2.95	2.00	2.80	4.05	3.20
25	5.50	5.00	3.85	4.30	-	5.75	2.50	2.85	2.00	2.75	4.20	3.20
26	5.35	4.85	3.70	5.00	-	6.45	2.50	2.80	2.00	2.80	4.00	3.10
27	5.15	4.55	3.45	-	-	9.75	2.80	3.20	2.80	2.95	3.65	3.10
28	5.10	4.40	3.00	-	-	8.30	3.15	3.50	2.80	3.45	3.55	3.75
29	5.00	4.70	-	-	-	6.20	3.60	3.35	2.80	3.40	3.40	3.70
30	4.90	4.50	-	-	-	5.15	3.95	2.95	2.90	3.45	3.30	3.75
31	4.80	-	-	-	-	4.80	-	3.15	-	4.10	3.20	-

a Highest record 24.5 feet at 3 a.m.
b Ice jam cause of rise.

Delaware River at Lambertville--Continued

Daily mean gage height, in feet, 1897-1908 and 1936-37--Continued

1904-5

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.65	4.35	4.00	5.15	-	-	8.7	3.75	2.7	2.3	3.15	3.25
2	3.60	4.20	4.10	5.1	-	-	7.8	3.7	2.7	2.35	3.55	3.6
3	3.90	4.10	4.05	5.0	-	-	6.95	3.65	2.6	2.35	3.65	4.6
4	3.75	4.05	3.95	-	-	-	6.25	3.55	2.5	2.6	3.75	5.4
5	3.55	3.95	3.90	-	-	-	6.2	3.5	2.5	3.1	3.65	7.6
6	3.50	4.00	3.75	-	-	-	6.4	3.4	2.45	3.35	3.65	6.7
7	3.40	3.90	3.80	8.25	-	-	6.55	3.35	2.5	3.0	3.3	5.85
8	3.40	3.80	3.65	10.82	-	-	6.55	3.4	2.5	2.85	3.35	5.3
9	3.40	3.80	3.55	9.75	-	-	6.05	3.45	3.1	2.8	3.15	5.0
10	3.30	3.70	3.60	8.05	-	4.9	5.8	3.4	3.3	2.55	3.1	4.75
11	3.20	3.70	-	7.05	-	4.9	5.55	3.3	3.2	2.6	2.95	4.65
12	3.90	3.70	-	6.55	-	5.0	5.55	3.2	3.05	2.6	3.35	5.95
13	3.70	3.80	-	6.4	-	4.55	5.45	3.15	2.85	3.05	3.7	7.37
14	3.90	4.40	-	6.1	-	4.7	5.4	3.2	2.9	3.1	3.6	6.7
15	4.20	4.35	-	6.0	-	4.55	5.25	3.4	3.15	3.35	4.1	5.95
16	4.30	4.25	-	5.2	-	4.65	4.95	3.4	3.1	3.4	5.5	5.45
17	4.05	4.20	-	4.85	-	4.8	4.75	3.25	2.95	3.1	4.85	5.15
18	3.90	4.10	-	4.9	-	5.25	4.75	3.4	2.8	3.1	4.5	5.05
19	3.75	4.05	-	4.7	-	6.52	4.6	3.25	2.6	3.05	4.4	5.1
20	3.60	4.00	-	4.75	-	10.12	4.5	3.2	2.55	2.85	4.25	5.05
21	4.85	3.90	-	4.75	-	11.69	4.45	3.15	2.5	3.0	3.95	5.3
22	7.60	4.05	-	4.65	-	10.95	4.5	3.1	2.7	2.8	3.8	5.35
23	9.15	4.40	-	4.25	-	10.0	4.55	3.05	2.85	3.1	3.55	5.5
24	7.10	4.70	-	4.15	-	9.15	4.65	2.9	3.1	3.2	3.4	5.1
25	6.25	4.60	-	3.7	-	9.4	4.5	2.9	3.2	3.2	3.5	4.85
26	5.60	4.55	-	-	-	11.22	4.05	2.8	3.2	3.0	4.45	4.65
27	5.20	4.45	-	-	-	11.58	4.05	2.7	2.85	2.8	4.25	4.5
28	5.00	4.30	-	-	-	11.87	4.0	2.8	2.6	2.15	3.9	4.35
29	4.80	4.20	7.90	-	-	10.7	3.95	2.7	2.45	2.85	3.65	4.25
30	4.70	4.00	9.40	-	-	9.8	3.8	2.65	2.4	3.45	3.45	4.15
31	4.50	-	5.70	-	-	9.35	-	2.7	-	3.25	3.3	-

1905-6

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.1	4.25	6.9	5.0	5.05	5.45	8.1	4.95	5.35	4.45	4.55	4.2
2	4.05	4.2	6.1	4.9	4.8	5.0	7.55	4.9	5.15	4.3	4.45	3.95
3	3.95	4.2	5.85	4.6	4.85	5.45	6.95	4.8	4.95	4.35	4.6	3.85
4	3.9	4.15	8.83	5.55	4.7	11.1	6.55	4.8	4.75	5.35	5.1	3.7
5	3.85	4.1	9.3	5.65	-	11.8	6.4	4.75	4.55	5.25	5.0	3.9
6	3.8	4.1	7.55	5.35	-	8.8	7.05	4.75	4.4	4.95	4.75	3.75
7	3.75	4.05	6.7	5.55	-	7.2	7.85	4.7	4.75	4.75	4.55	3.55
8	3.75	4.2	6.15	5.2	-	6.65	7.2	4.6	4.95	4.45	4.3	3.35
9	3.6	4.3	5.85	4.8	-	6.2	6.85	4.65	4.9	4.2	4.25	3.2
10	3.55	4.35	5.55	4.65	-	6.05	8.35	4.75	4.85	4.1	4.3	3.0
11	3.45	4.3	5.45	4.6	-	5.95	9.4	4.75	4.8	4.05	4.45	2.85
12	4.6	4.25	5.2	4.5	-	5.5	9.55	4.6	5.1	3.95	4.3	2.75
13	5.45	4.2	5.1	4.9	4.1	5.4	8.25	4.55	4.95	3.75	4.1	2.7
14	5.5	4.1	4.95	4.9	4.25	5.25	7.65	4.5	4.6	3.65	3.8	2.7
15	5.15	4.1	4.75	4.9	4.35	4.95	8.5	4.4	4.35	3.5	3.7	2.5
16	4.8	4.05	4.55	5.05	4.15	4.85	13.2	4.4	4.15	3.4	3.45	2.5
17	4.55	3.95	4.6	5.05	4.1	4.75	11.4	4.35	4.15	3.4	3.3	2.45
18	4.45	3.9	4.6	4.8	4.05	4.65	9.1	4.3	4.95	3.45	3.15	2.4
19	4.35	4.0	4.3	4.85	3.9	4.85	8.1	4.25	6.9	3.4	3.1	2.4
20	5.03	3.95	4.3	4.75	4.1	4.55	7.25	4.55	7.15	3.4	3.1	2.3
21	5.4	3.8	5.1	4.6	4.3	4.4	6.95	4.35	6.15	3.65	3.05	2.35
22	5.5	3.8	5.7	4.7	6.65	4.45	6.6	4.15	6.05	3.85	3.45	2.55
23	5.25	3.65	5.75	4.85	6.15	4.45	6.05	4.1	5.95	4.45	3.5	2.75
24	5.05	3.65	5.7	6.2	6.3	4.35	6.1	4.05	5.65	4.65	3.9	3.1
25	4.9	3.65	5.4	7.5	6.15	4.3	6.05	3.95	5.25	4.55	4.1	3.05
26	4.8	3.65	5.05	6.85	6.6	4.3	5.85	3.8	4.95	4.45	3.95	2.9
27	4.7	3.7	5.0	6.0	6.85	4.5	5.65	3.9	4.7	4.25	3.85	3.05
28	4.6	3.65	4.8	5.8	6.0	5.9	5.35	4.3	4.45	4.05	4.05	2.95
29	4.5	4.85	4.8	5.65	-	8.25	5.4	6.25	4.3	4.15	4.3	2.7
30	4.45	5.5	5.15	5.25	-	7.75	5.05	6.45	4.3	4.25	4.4	2.7
31	4.35	-	5.15	5.2	-	7.6	-	6.1	-	4.35	4.5	-

Delaware River at Lambertville--Continued

Daily mean gage height, in feet, 1897-1908 and 1936-37--Continued

1906-7

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.65	5.05	4.7	8.8	4.85	-	6.45	4.85	4.0	4.7	2.4	2.5
2	2.7	5.0	4.6	9.45	4.65	-	5.9	4.7	4.6	4.55	2.4	2.4
3	2.6	4.9	4.6	7.75	4.4	4.2	5.6	4.7	5.35	4.45	2.35	2.35
4	2.8	4.8	4.5	7.15	4.5	3.45	5.35	4.95	5.4	4.25	2.3	3.2
5	4.65	4.8	4.1	6.9	4.55	3.8	5.15	4.9	5.15	4.05	2.2	3.7
6	4.15	4.55	4.15	6.85	-	3.8	5.0	4.95	5.0	3.9	2.3	4.1
7	3.8	4.4	4.4	6.35	-	3.6	4.95	4.9	5.0	3.6	2.3	4.0
8	3.55	4.35	5.3	6.1	-	3.7	5.0	4.85	4.95	3.6	2.3	4.2
9	3.4	4.3	5.1	6.45	-	3.65	5.15	4.9	4.8	3.7	2.45	4.0
10	3.25	4.25	4.75	6.95	-	3.8	5.1	5.05	4.6	3.85	2.3	3.9
11	3.2	4.2	4.75	6.35	-	3.75	5.05	5.2	4.45	3.8	2.45	3.8
12	3.15	4.3	5.1	6.2	-	3.7	5.0	4.9	4.36	3.65	2.1	4.45
13	3.1	4.35	4.85	6.2	-	3.85	5.0	4.75	4.2	3.65	2.15	4.75
14	3.1	4.4	4.85	6.15	-	5.5	5.15	4.6	4.15	3.5	2.05	4.9
15	3.0	4.35	4.8	6.0	-	8.1	5.25	4.4	4.1	3.55	1.9	4.8
16	3.0	4.45	4.8	5.9	-	7.6	5.1	4.65	4.1	3.65	2.05	4.5
17	2.9	4.35	5.05	5.7	-	8.55	4.9	5.0	4.0	3.4	1.9	4.3
18	2.8	4.35	5.2	5.2	-	8.95	4.85	5.0	3.85	3.35	1.95	4.1
19	2.7	4.85	5.0	5.1	5.6	8.8	4.75	5.0	3.75	3.45	1.95	3.95
20	2.85	5.9	4.9	5.7	5.65	8.9	4.7	4.8	3.6	4.0	1.9	4.05
21	4.85	6.7	5.1	6.25	-	7.9	4.6	4.4	3.6	3.8	2.4	4.05
22	5.9	6.3	5.35	6.9	-	7.2	4.55	4.35	3.75	3.4	2.65	4.3
23	5.45	6.1	5.35	6.0	-	7.4	4.4	4.3	3.85	3.35	2.7	4.7
24	5.2	5.8	5.0	5.2	-	9.2	5.1	4.2	3.8	3.2	2.85	6.55
25	5.0	5.45	4.6	5.0	-	9.15	5.1	4.15	3.7	2.95	3.3	5.8
26	5.0	5.25	4.5	5.0	-	8.1	5.2	4.1	3.7	2.85	3.5	5.2
27	5.6	5.05	4.5	4.95	-	7.4	5.25	4.1	3.7	2.7	3.35	4.95
28	5.45	4.95	4.4	4.75	-	7.0	5.2	4.1	4.0	2.7	3.15	4.6
29	5.25	4.85	4.45	4.7	-	6.9	5.2	4.35	3.85	2.5	2.75	7.1
30	5.1	4.7	4.6	4.8	-	7.2	5.05	4.35	4.15	2.5	2.6	6.3
31	4.95	-	5.35	5.0	-	6.85	-	4.15	-	2.35	2.5	-

1907-8

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.85	6.45	5.4	7.1	5.4	5.75						
2	5.5	6.05	5.35	6.85	-	5.4						
3	5.25	7.0	5.25	6.3	-	5.4						
4	5.0	7.85	5.2	5.9	4.8	5.4						
5	5.15	7.6	5.05	5.8	-	5.3						
6	5.4	6.95	4.9	5.9	-	5.4						
7	5.6	8.2	4.8	5.4	-	5.35						
8	5.95	11.9	4.8	5.9	-	5.75						
9	6.3	10.15	4.8	5.75	-	5.9						
10	6.1	8.65	5.75	5.4	-	5.65						
11	6.05	7.85	13.1	5.5	-	5.2						
12	5.65	7.2	12.6	6.0	-	5.7						
13	5.4	6.65	9.6	7.4	-	6.0						
14	5.2	6.3	8.1	8.0	-	6.7						
15	5.25	6.05	7.7	7.45	8.7	9.4						
16	5.0	5.75	7.0	6.75	13.0	9.4						
17	4.95	5.55	6.8	6.4	11.5	9.45						
18	4.8	5.4	6.4	6.05	8.4	8.2						
19	4.55	5.75	6.1	5.75	7.05	8.45						
20	4.6	5.55	5.9	5.55	6.95	8.85						
21	4.6	5.4	5.65	5.45	6.2	8.2						
22	4.6	5.5	5.4	5.3	5.9	7.3						
23	4.55	5.5	6.35	5.3	5.6	6.9						
24	4.5	5.85	7.7	5.35	5.25	6.9						
25	4.5	6.2	9.75	5.05	5.05	7.5						
26	4.5	5.95	8.55	4.9	7.0	8.45						
27	4.5	5.8	7.5	5.05	8.7	7.75						
28	6.05	5.7	7.0	4.95	6.75	8.45						
29	6.85	5.55	6.7	5.2	6.05	9.7						
30	7.8	5.45	7.0	5.0	-	10.5						
31	7.15	-	7.1	4.7	-	9.35						

Delaware River at Lambertville--Continued

Daily mean gage height, in feet, 1897-1908 and 1936-37--Continued

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	51.92	49.78	48.70	48.67	47.78	48.11
2						-	51.68	49.98	48.59	48.70	47.78	48.22
3						-	51.64	49.82	48.74	48.56	47.68	48.12
4						-	51.64	49.88	48.74	48.45	47.38	47.82
5						50.45	51.28	49.90	48.82	48.56	47.26	47.72
6						50.40	52.70	49.80	48.73	48.32	47.66	47.78
7						50.20	54.60	49.67	48.65	48.10	47.66	47.68
8						50.15	54.48	49.56	48.42	47.87	47.70	47.51
9						50.25	53.34	49.50	48.37	48.06	47.78	47.44
10						50.75	52.96	49.44	48.32	47.84	47.70	47.46
11						53.31	52.83	49.48	48.49	48.08	47.50	47.73
12						60.58	52.74	49.28	48.72	48.20	47.54	47.72
13						64.08	52.65	49.31	49.74	47.98	47.74	47.84
14						58.51	52.85	49.40	49.26	47.84	47.86	47.72
15						55.47	53.04	49.68	48.90	47.64	47.84	47.46
16						54.42	52.66	49.55	48.84	47.88	48.06	47.28
17						55.21	52.30	49.38	48.80	47.80	47.83	47.39
18						61.78	51.88	49.18	49.07	47.84	47.55	47.53
19						66.42	51.48	49.07	48.90	47.84	47.44	47.60
20						62.78	51.14	49.32	50.56	47.70	47.42	47.56
21						58.57	50.94	49.45	50.36	47.54	47.32	47.66
22						57.47	50.80	49.27	50.16	47.38	47.54	47.39
23						56.32	50.78	49.18	49.68	47.75	47.72	47.30
24						54.65	50.67	49.12	49.39	47.84	47.65	47.62
25						53.74	50.38	48.88	49.21	48.04	48.78	47.45
26						53.12	50.24	48.84	49.09	48.00	48.80	47.45
27						52.86	50.06	48.98	48.96	47.83	48.53	47.48
28						53.34	49.96	48.98	48.88	47.62	48.17	47.80
29						53.62	49.90	48.95	48.84	47.46	48.10	47.20
30						52.88	49.80	48.90	48.66	47.55	48.04	47.14
31						52.30	-	48.84	-	47.78	48.06	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47.62	48.50	47.92	50.30	51.46	50.26	49.76	50.98	48.98	49.56	48.20	48.16
2	48.18	48.38	47.97	50.72	50.98	50.02	49.95	50.60	48.86	49.50	48.08	48.08
3	48.04	48.27	48.22	50.46	50.44	49.95	50.24	50.32	48.94	49.59	47.86	48.82
4	48.48	48.28	48.52	50.74	50.10	49.84	50.26	50.12	48.87	49.60	48.96	48.73
5	47.74	48.30	48.40	50.58	49.92	49.70	50.06	49.99	48.93	49.37	47.98	48.63
6	47.74	50.15	48.44	50.28	49.76	49.70	50.56	50.40	48.91	49.15	47.88	48.62
7	47.62	51.42	49.42	50.12	49.80	49.86	53.30	49.82	48.88	48.94	47.88	48.72
8	47.62	50.44	49.19	50.22	49.70	49.62	54.10	49.88	49.37	48.90	48.14	49.36
9	47.68	49.98	49.14	50.10	49.56	49.42	52.70	49.78	49.87	48.86	48.02	49.95
10	47.69	49.60	49.10	50.42	49.76	49.42	52.55	49.58	49.44	48.69	47.89	48.78
11	47.86	49.42	49.14	50.78	49.90	49.24	52.50	49.42	49.13	48.53	47.70	48.72
12	47.88	49.18	49.92	50.55	49.96	49.08	51.64	49.33	49.04	48.45	49.38	48.60
13	47.72	48.99	52.03	50.26	49.62	49.02	51.16	49.30	48.90	48.38	49.62	48.32
14	47.49	48.83	51.22	50.02	49.55	49.00	50.86	49.30	48.82	48.66	49.25	48.28
15	47.62	48.76	50.52	50.34	49.98	48.98	50.72	50.48	48.69	48.65	49.46	48.52
16	47.72	48.58	50.09	50.90	50.40	48.98	50.90	52.46	48.88	48.98	49.00	48.76
17	47.76	48.56	50.36	51.32	50.16	49.00	51.70	52.74	49.04	48.90	48.61	49.02
18	48.00	48.50	50.09	51.46	49.76	48.98	51.35	51.80	48.93	49.00	48.53	48.82
19	48.37	48.42	49.96	51.53	49.56	48.98	50.90	51.40	49.00	48.65	48.50	48.78
20	48.40	48.36	51.49	52.09	49.42	49.12	50.86	50.98	49.17	48.42	48.54	48.42
21	48.67	48.32	51.78	51.54	49.44	49.94	50.69	50.68	49.09	48.40	48.41	48.40
22	48.44	48.29	51.52	51.62	51.23	50.21	51.26	50.45	49.72	48.40	48.78	48.55
23	48.24	48.10	50.65	53.11	55.60	50.41	52.90	50.22	51.30	48.25	50.20	48.62
24	48.20	48.10	50.21	53.21	53.77	50.33	53.16	50.05	51.25	48.24	51.25	48.47
25	48.20	48.18	49.94	52.92	52.30	50.36	52.32	49.98	50.33	48.22	50.22	48.28
26	48.10	48.16	49.88	54.00	51.54	50.74	51.57	49.74	49.86	48.02	49.67	48.15
27	48.58	48.06	49.76	54.04	51.02	50.58	51.39	49.50	49.52	48.28	49.43	47.93
28	48.53	47.95	49.74	52.70	50.66	50.22	51.72	49.45	49.20	47.95	49.48	47.93
29	48.68	47.90	49.80	51.31	-	49.95	51.73	49.52	49.10	48.18	49.96	48.05
30	48.64	47.80	49.90	51.44	-	49.78	51.42	49.42	49.26	48.07	50.06	48.10
31	48.43	-	49.86	51.24	-	49.65	-	49.20	-	48.18	49.45	-

Delaware River at Lambertville--Continued

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48.00	50.58	50.65	49.57	50.74	49.78	50.05	49.53	49.20	51.15	50.45	48.60
2	48.10	50.14	50.33	49.90	50.77	49.70	50.07	49.35	49.15	50.70	50.30	48.70
3	48.09	49.95	50.07	49.60	50.51	49.50	50.00	49.17	49.15	50.25	50.50	48.55
4	47.87	49.71	49.92	49.50	50.32	49.52	49.82	49.25	49.22	50.00	50.25	48.45
5	47.92	49.61	49.81	49.55	50.48	49.59	49.62	49.30	40.05	49.68	49.95	48.35
6	47.91	49.55	49.68	49.54	50.71	49.55	49.56	49.14	48.77	49.37	49.90	48.12
7	47.99	49.35	49.78	49.51	50.67	49.52	49.54	49.10	48.65	49.18	50.45	47.90
8	47.95	49.20	49.78	50.12	51.59	50.80	49.70	48.80	49.15	49.15	49.90	47.85
9	48.04	49.07	49.68	50.12	51.89	50.20	49.95	48.60	48.85	49.10	49.65	48.25
10	47.93	48.95	49.51	49.80	51.27	49.90	50.95	48.65	48.80	48.90	49.90	48.30
11	47.98	48.90	49.46	49.55	51.34	49.70	51.95	48.75	48.65	48.90	50.25	48.35
12	47.74	48.87	49.10	49.60	51.21	49.60	51.78	48.85	48.65	48.90	50.35	48.05
13	47.74	48.85	48.60	49.50	50.78	49.40	51.71	48.81	48.80	48.65	53.00	47.95
14	47.86	52.16	48.65	49.56	50.70	49.49	51.51	48.60	48.80	49.27	51.65	47.85
15	47.79	52.57	48.80	49.55	51.41	50.90	51.25	48.78	50.40	49.21	50.75	47.85
16	48.02	52.02	48.92	49.35	51.18	50.90	51.01	49.51	49.70	49.00	50.25	48.70
17	47.97	51.30	49.06	48.90	50.61	50.97	50.77	50.20	49.35	48.60	50.05	48.85
18	48.00	50.94	49.92	48.90	50.39	51.15	50.60	50.25	49.15	48.63	50.40	48.80
19	47.83	50.83	51.26	48.90	50.32	51.60	50.76	49.65	49.13	48.44	50.25	48.75
20	48.28	50.40	52.74	48.75	51.17	51.66	50.85	49.50	48.95	49.70	49.90	50.05
21	49.70	50.31	51.85	48.80	51.00	51.48	50.89	49.35	48.40	50.30	49.75	52.00
22	50.48	50.34	51.16	48.82	50.55	51.25	50.78	49.29	48.52	51.63	49.50	56.20
23	50.17	49.88	50.80	48.85	50.42	51.28	50.65	49.12	48.52	54.30	49.04	60.30
24	53.34	49.80	50.57	48.88	50.56	51.10	50.60	49.08	49.00	56.13	49.20	56.00
25	55.07	49.71	50.41	51.05	50.42	50.95	50.39	50.00	48.80	55.97	49.10	53.76
26	52.14	49.44	50.13	54.85	50.19	50.90	50.08	50.50	48.45	53.10	49.05	52.40
27	51.50	49.45	49.96	55.60	49.99	50.65	49.97	50.40	49.80	52.00	48.95	51.55
28	51.23	49.35	49.80	53.05	49.80	50.48	49.83	50.15	51.90	51.30	48.85	51.10
29	51.24	50.10	49.78	51.75	-	50.30	49.79	49.90	53.25	50.70	48.65	50.65
30	51.17	50.60	49.75	50.85	-	50.15	49.63	49.75	52.20	50.70	48.45	50.27
31	51.05	-	49.57	50.90	-	50.05	-	49.35	-	50.78	48.50	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50.10	48.96	49.75	49.25	50.35	53.85	52.79	50.45	48.38	47.85	47.58	47.40
2	50.07	48.85	49.85	49.35	49.90	53.47	53.05	50.46	48.53	48.30	47.39	47.55
3	49.60	48.80	49.70	49.20	50.00	52.95	53.59	50.15	48.49	48.00	47.47	47.25
4	49.40	48.85	50.70	49.19	52.05	52.15	53.35	50.00	48.44	47.75	47.45	47.21
5	49.50	48.87	52.20	49.23	51.10	51.80	52.50	49.90	48.27	47.75	47.75	47.23
6	49.39	49.07	55.36	49.67	50.65	51.90	52.00	49.79	48.31	47.74	47.66	47.05
7	49.55	49.50	58.53	50.69	50.46	52.29	53.21	49.68	48.06	47.55	47.47	47.00
8	49.60	49.67	56.20	50.67	50.45	52.73	53.23	49.45	48.08	47.65	47.45	47.42
9	49.20	49.90	54.05	50.83	50.35	52.00	52.58	49.25	48.15	47.60	47.38	47.50
10	49.05	49.90	53.43	50.48	50.20	51.60	52.04	49.55	48.13	47.65	47.55	47.60
11	48.90	49.95	53.70	50.30	50.70	51.26	51.72	49.63	48.05	47.35	47.50	47.55
12	48.85	49.87	54.10	50.23	50.65	51.00	51.65	49.55	48.13	47.60	47.50	47.25
13	48.90	49.70	53.05	50.27	50.30	50.90	52.07	49.50	48.32	47.55	47.45	47.55
14	48.80	49.50	52.40	50.20	50.20	50.80	51.93	49.25	48.55	47.75	47.48	47.25
15	48.90	49.40	51.85	50.83	50.10	50.90	51.55	49.00	48.63	47.81	47.37	47.45
16	a49.00	49.53	51.38	49.81	52.48	51.55	51.37	48.91	48.51	47.65	47.27	47.15
17	48.75	49.50	50.85	49.75	53.85	51.33	51.60	49.00	48.27	47.65	47.52	47.25
18	48.45	49.57	50.80	49.65	53.20	51.10	51.85	49.00	48.22	47.35	47.57	47.11
19	48.55	49.47	50.65	49.47	52.35	50.80	51.60	48.80	48.08	47.10	47.65	46.80
20	48.70	49.57	50.45	49.53	51.95	50.50	52.07	48.75	48.14	47.30	47.87	46.80
21	48.85	50.33	50.30	49.63	52.10	50.35	52.10	48.75	48.01	47.35	47.99	46.80
22	49.30	50.90	50.10	49.30	55.10	50.30	51.85	48.82	48.10	47.05	47.86	47.15
23	49.15	50.55	50.00	49.30	53.15	50.15	51.62	49.05	48.17	47.45	47.40	47.30
24	48.85	50.39	49.80	48.90	52.00	50.10	51.72	49.40	48.13	47.43	47.51	47.43
25	49.35	50.42	49.65	49.10	51.60	50.15	51.37	49.35	48.06	47.10	47.67	47.30
26	49.70	50.10	49.68	49.18	51.10	50.73	51.14	49.20	47.80	46.90	47.81	47.05
27	49.70	49.90	50.10	48.90	52.14	51.90	51.00	48.97	47.62	47.10	48.42	47.06
28	49.45	49.90	50.00	48.90	52.27	53.30	50.89	48.75	47.53	47.50	47.90	47.05
29	49.45	49.90	49.70	49.20	-	53.64	50.95	48.70	47.52	47.65	47.55	47.35
30	49.45	49.87	49.70	49.10	-	53.15	50.80	48.50	47.65	47.85	47.33	47.74
31	49.20	-	49.45	50.70	-	52.80	-	48.40	-	47.97	47.47	-

a Estimated

Delaware River at Lambertville--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48.98	49.70	47.85	48.50	48.80	48.15	62.05	50.85	51.12	49.80	48.35	50.55
2	48.25	50.20	47.95	48.60	48.85	48.13	59.69	50.75	52.16	49.50	48.25	54.15
3	48.30	50.60	48.14	48.25	48.35	48.10	55.60	50.95	51.87	49.60	48.30	53.50
4	48.60	50.05	48.14	48.60	48.70	50.94	54.85	51.05	51.45	49.65	48.15	51.30
5	48.63	49.73	48.12	48.40	48.67	51.38	54.98	50.95	50.99	49.35	47.97	51.00
6	48.78	49.65	48.53	48.23	48.55	50.14	55.67	50.73	50.68	49.05	47.52	50.50
7	48.36	49.75	48.62	48.21	48.60	49.15	54.64	50.35	50.42	48.95	47.54	50.20
8	48.19	49.85	48.50	48.47	48.61	49.61	54.15	50.23	50.21	48.74	48.08	50.00
9	47.98	49.65	48.43	49.48	48.62	49.47	56.48	50.10	49.98	48.45	48.15	49.13
10	47.85	49.63	48.33	49.30	48.61	49.40	59.03	50.00	50.11	48.50	48.00	49.80
11	47.15	49.89	48.25	49.40	49.25	49.10	56.19	49.95	50.15	48.50	48.02	49.10
12	47.34	49.63	48.19	49.40	49.10	49.00	54.56	49.70	50.13	48.55	48.00	49.10
13	47.77	49.35	48.49	49.30	48.45	48.87	55.00	49.55	49.96	48.83	47.55	49.57
14	47.75	49.45	48.32	49.35	48.35	48.90	55.15	49.40	49.83	49.10	47.46	49.53
15	47.58	49.37	48.28	49.75	48.47	55.90	53.80	49.45	49.65	48.68	48.05	49.33
16	47.45	49.18	48.37	49.90	49.62	52.60	52.97	49.47	49.51	48.48	47.95	49.10
17	47.45	49.00	48.15	49.37	48.75	51.70	52.50	49.85	49.25	48.35	47.89	48.75
18	47.24	48.90	48.09	48.95	48.48	51.31	52.11	51.02	49.00	48.23	47.91	48.73
19	47.59	48.85	48.09	49.93	48.40	51.23	52.09	50.93	49.15	48.18	48.16	48.77
20	47.68	48.73	48.28	48.85	49.48	51.67	53.58	50.43	49.05	48.22	47.75	48.60
21	47.37	48.60	49.02	50.45	49.42	51.70	54.32	51.25	48.93	48.30	47.40	48.63
22	47.38	48.65	50.35	50.00	49.11	51.95	55.97	51.10	48.68	47.95	47.90	48.82
23	47.67	48.66	50.74	50.03	48.82	51.55	55.19	50.90	48.67	47.90	47.76	48.60
24	47.83	48.45	50.22	50.00	48.67	50.90	53.95	50.71	48.55	47.70	47.90	48.20
25	48.16	48.15	50.02	49.93	48.55	50.60	53.12	50.60	48.62	48.10	48.04	48.46
26	48.06	48.13	49.39	49.93	48.41	50.23	52.47	50.71	49.22	48.53	48.00	49.15
27	47.98	48.24	49.58	49.75	48.37	50.00	51.97	50.95	49.55	48.55	47.64	49.49
28	48.08	48.05	48.82	49.87	48.27	50.03	51.62	51.20	49.46	48.53	47.98	49.22
29	48.18	48.00	48.77	48.70	48.11	50.53	51.30	51.55	49.56	48.61	49.31	49.05
30	49.53	48.00	48.59	48.63	-	50.50	50.98	50.90	49.60	48.14	49.30	48.81
31	49.57	-	48.44	48.90	-	52.80	-	51.05	-	48.22	49.30	-

Monthly and annual discharge, in second-feet, 1897-1902

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
July 23-31, 1897	255 655	53 100	15 850	28 406	4.25	1.42
August	478 655	33 420	7 125	15 440	2.31	2.66
September	153 600	9 550	2 600	5 120	.766	.855
Water year	-	-	-	-	-	-
October 1897	91 399	5 475	2 350	2 948	.441	.509
November	396 432	30 060	2 462	13 214	1.98	2.21
December 1-28, 30, 31	745 345	66 540	10 300	24 845	3.72	4.15
Calendar year	-	-	-	-	-	-
January 1-3, 9-31, 1898	557 820	49 740	8 100	21 455	3.21	3.11
February 8-28	599 305	61 260	11 900	28 538	4.27	3.34
March	857 960	48 780	12 700	27 676	4.14	4.78
April	546 980	39 660	9 125	18 233	2.73	3.05
May	909 405	45 420	19 050	29 336	4.39	5.06
June	322 395	23 820	5 750	10 746	1.61	1.79
July	151 725	10 300	2 500	4 894	.733	.845
August	563 945	38 700	8 450	18 192	2.72	3.14
September	253 777	18 575	4 350	8 459	1.27	1.41
Water year	-	-	-	-	-	-

Note.- Discharge figures represent total flow in river and Delaware & Raritan Canal; no adjustment made for water diverted to Delaware Division Canal.

Delaware River at Lambertville--Continued

Monthly and annual discharge, in second-feet, 1897-1902--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1898	376 760	26 220	3 500	12 154	1.82	2.10
November	693 930	42 060	11 100	23 131	3.46	3.86
December 1-14, 19-31	556 730	34 860	12 700	20 620	3.09	3.10
Calendar year	-	-	-	-	-	-
January 1, 5-31, 1899	601 340	38 840	14 625	21 476	3.21	3.35
February 5-8, 20-28	326 815	48 625	11 650	25 140	3.76	1.82
March	1 228 505	63 045	27 850	39 629	5.93	6.84
April	1 044 575	57 380	15 900	34 819	5.21	5.82
May	252 300	14 625	4 100	8 139	1.22	1.40
June	117 785	10 800	1 750	3 926	.588	.656
July	211 000	11 650	3 700	6 806	1.02	1.17
August	164 170	10 000	1 900	5 296	.793	.914
September	273 140	28 325	2 440	9 105	1.36	1.52
Water year	-	-	-	-	-	-
October 1899	196 640	13 775	4 100	6 345	.950	1.09
November	307 475	14 625	5 050	10 249	1.53	1.71
December 1-28	357 150	22 150	6 650	12 755	1.91	1.99
Calendar year	-	-	-	-	-	-
January 12-27, 1900	280 435	43 475	6 100	17 527	2.62	1.56
February 4-28	827 490	81 070	15 900	33 100	4.96	4.61
March	727 805	87 250	9 250	23 478	3.51	4.05
April	499 795	37 295	10 000	16 600	2.49	2.78
May	296 150	20 300	5 300	9 553	1.43	1.65
June	157 795	8 225	2 300	5 260	.787	.879
July	160 770	11 225	1 900	5 186	.776	.895
August	95 045	5 050	2 000	3 066	.459	.529
September	89 255	5 300	2 000	2 975	.445	.497
Water year	-	-	-	-	-	-
October 1900	72 560	3 900	1 525	2 341	.350	.404
November	128 440	14 625	2 000	4 281	.641	.715
December 1-14, 24-29, 31	212 650	20 300	5 050	10 126	1.52	1.18
Calendar year	-	-	-	-	-	-
January 1901	a190 970	16 325	2 300	a6 160	a.922	a1.06
February	-	-	-	-	-	-
March	b722 310	71 800	2 600	b23 300	b3.49	b4.02
April	954 335	64 075	15 475	31 811	4.76	5.31
May	760 245	62 530	14 625	24 524	3.67	4.23
June	507 060	48 110	5 300	16 902	2.53	2.82
July	144 950	9 625	1 825	4 676	.700	.807
August	504 625	65 105	2 300	16 278	2.44	2.81
September	323 550	21 200	5 300	10 785	1.61	1.80
Water year	-	-	-	-	-	-
October 1-25, 27-31, 1901	286 275	18 050	5 550	9 542	1.43	1.59
November	c200 395	10 800	4 320	c6 680	c1.00	c1.12
December	d972 330	158 320	6 375	d31 366	d4.70	d5.41
Calendar year	-	-	-	-	-	-
January 1902	e620 524	55 629	7 250	e20 017	e3.00	e3.45
February	-	-	-	-	-	-
March	1 730 129	171 813	20 750	55 811	8.35	9.63
April	721 155	49 140	10 000	24 039	3.60	4.01
May	331 725	24 525	5 550	10 701	1.60	1.85
June	205 450	14 200	4 550	6 848	1.03	1.14
July	506 925	f29 275	5 550	16 352	2.45	2.82
August	288 625	25 475	3 125	9 310	1.39	1.61
September	387 655	88 280	2 300	12 922	1.93	2.16
Water year	-	-	-	-	-	-
October 1902	875 745	72 315	10 000	28 250	4.23	4.88
November	339 700	27 375	6 650	11 323	1.70	1.89
December	909 885	96 520	8 550	29 351	4.39	5.07

a Revised; discharge for 4-8 and 19-23 estimated.
b Revised; discharge for 1-3 estimated.
c Discharge for 29 and 30 estimated.
d Discharge for 6-9 estimated.
e Discharge for 14-19, 30, 31 estimated.
f Revised.

Note.- Discharge figures represent total flow in river and Delaware & Raritan Canal; no adjustment made for water diverted to Delaware Division Canal.

Delaware River at Washington Crossing

Location.- Wire-weight gage, lat. 40°17'40", long. 74°52'10", on bridge at Washington Crossing, Mercer County. Datum of gage is 0.14 foot above mean sea level (United States Coast and Geodetic Survey datum).

Records available.- March 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height observed, 47.30 feet at 4 p.m. Mar. 19, 1936; minimum observed, 23.05 feet Sept. 19, 1939.
Maximum stage known, 51.9 feet Oct. 11, 1903, at site 0.4 mile above bridge, from floodmark.

Remarks.- Gage read twice daily except during periods of gage heights above 29.0 feet, when it was read hourly from 8 a.m. to 6 p.m. In tables, figures for March 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	29.87	27.06	25.41	25.28	24.01	25.04
2						-	29.56	27.13	25.30	25.35	23.99	25.47
3						-	29.47	27.10	25.39	25.20	24.07	25.33
4						-	29.49	27.08	25.48	24.88	23.61	24.86
5						-	29.00	27.11	25.56	25.07	23.42	24.62
6						30.33	30.60	26.93	25.34	24.81	23.78	24.23
7						29.00	33.15	26.86	25.22	24.38	23.95	23.83
8						27.78	33.05	26.69	25.10	24.28	23.91	23.82
9						27.71	31.60	26.61	24.98	24.58	24.04	23.70
10						28.39	31.10	26.46	24.68	24.26	23.98	23.74
11						31.44	30.95	26.56	25.08	24.53	23.68	24.13
12						40.12	30.82	26.29	25.36	24.81	23.72	24.22
13						45.46	30.72	26.36	27.28	24.54	24.15	24.17
14						38.36	30.90	26.34	26.20	24.38	24.30	24.16
15						34.36	31.20	26.80	25.76	24.08	24.18	23.86
16						32.94	30.76	26.69	25.64	24.38	24.58	23.52
17						33.91	30.30	26.40	25.62	24.28	24.42	23.78
18						41.39	29.78	26.14	25.36	24.28	23.96	23.87
19						46.71	29.28	26.02	27.02	24.15	23.75	23.86
20						43.24	28.82	26.30	27.78	24.19	23.69	23.60
21						38.35	28.58	26.56	27.67	23.86	23.60	24.05
22						36.82	28.30	26.30	27.49	23.60	23.81	23.70
23						35.59	28.30	26.11	26.82	24.04	24.00	23.55
24						33.29	28.22	26.02	26.50	24.14	23.88	23.90
25						32.12	27.83	26.31	26.20	24.32	25.36	23.84
26						31.36	27.62	25.64	26.05	24.44	26.04	23.64
27						30.98	27.38	25.88	25.78	24.18	25.50	23.54
28						31.60	27.24	25.86	25.63	23.92	24.95	23.42
29						31.96	27.16	25.84	25.54	23.75	24.85	23.32
30						31.06	27.05	25.68	25.36	24.98	24.64	23.24
31						30.36	-	25.54	-	24.04	24.76	-

Delaware River at Washington Crossing--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23.78	25.12	24.30	27.78	29.38	27.81	27.02	28.75	26.04	26.76	24.42	26.17
2	24.70	25.02	24.52	28.34	28.70	27.48	27.28	28.30	25.84	26.72	24.62	26.00
3	24.44	24.90	24.58	28.54	28.08	27.38	27.52	27.92	26.14	26.94	24.38	25.79
4	24.30	24.87	25.28	28.44	27.61	27.22	27.84	27.58	25.88	26.76	24.38	25.54
5	23.94	24.88	25.06	28.18	27.28	27.04	27.52	27.43	26.00	26.50	24.26	25.47
6	24.97	26.76	24.92	27.82	27.07	27.10	28.00	27.29	25.84	26.26	24.28	25.43
7	23.88	29.36	26.40	27.63	27.15	27.20	31.10	27.18	25.84	26.01	24.30	25.59
8	23.89	27.99	26.42	27.76	27.02	26.94	32.56	27.28	26.36	25.97	24.40	26.37
9	23.88	27.38	26.23	27.57	26.32	26.67	30.85	27.14	27.18	25.77	24.46	25.98
10	23.96	27.04	26.10	27.96	27.06	26.64	30.62	26.90	26.71	25.61	24.34	25.78
11	24.02	26.66	26.21	28.53	27.26	26.40	30.61	26.66	26.28	25.26	24.12	25.53
12	24.14	26.33	27.17	28.14	27.42	26.20	29.55	26.61	26.11	25.24	25.98	25.28
13	24.01	26.02	30.10	27.80	26.86	26.11	28.97	26.48	25.94	25.32	26.68	25.14
14	23.74	25.82	29.16	27.50	26.71	26.04	28.55	26.52	25.82	25.68	26.15	25.12
15	23.82	25.64	28.13	27.84	27.34	26.15	28.32	28.10	25.68	25.48	26.48	25.38
16	24.02	25.47	27.50	28.68	27.96	26.18	28.64	30.33	25.88	26.10	26.00	25.78
17	24.18	25.30	28.04	29.22	27.65	26.10	29.60	30.89	26.20	25.91	25.50	26.10
18	24.21	25.37	27.64	29.37	27.12	26.04	29.27	29.73	26.02	26.24	25.33	25.73
19	24.73	25.19	27.32	29.39	26.82	26.06	28.64	29.24	25.82	25.59	25.28	25.58
20	25.06	25.08	29.80	30.17	26.61	26.26	28.53	28.80	26.26	25.28	25.24	25.25
21	25.48	24.86	29.68	29.43	26.57	27.19	28.34	28.32	26.12	25.18	25.06	25.23
22	25.17	24.80	29.44	29.54	28.92	27.86	28.78	28.04	26.90	25.06	25.43	25.36
23	25.46	24.64	28.53	31.11	34.40	28.00	30.92	27.72	28.84	24.86	27.16	25.38
24	24.72	24.62	27.76	31.62	32.30	27.89	31.44	27.48	29.08	24.65	28.85	25.07
25	24.60	24.68	27.38	31.23	30.44	27.94	30.47	27.38	27.92	24.66	27.52	24.84
26	24.51	24.62	27.20	32.29	29.50	28.48	29.60	27.06	27.18	24.60	26.76	24.70
27	25.28	24.38	27.08	32.58	28.80	28.30	29.89	26.84	26.74	24.89	26.43	24.63
28	25.28	24.54	26.52	30.93	28.32	27.62	29.69	26.74	26.34	24.40	26.42	24.56
29	25.66	24.26	27.10	29.33	-	27.43	29.67	26.72	26.16	24.70	26.95	24.40
30	25.46	24.16	27.25	29.32	-	27.12	29.31	26.68	26.34	24.50	27.22	24.70
31	25.14	-	27.19	28.99	-	26.92	-	26.28	-	24.59	26.49	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24.68	27.78	27.95	26.29	28.05	26.82	27.20	26.55	26.12	28.74	27.11	25.45
2	24.63	27.30	27.51	26.42	28.10	26.74	27.14	26.34	26.12	28.09	27.51	25.54
3	24.60	27.05	27.21	26.59	27.79	26.50	27.20	26.12	26.07	27.65	27.31	25.35
4	24.30	26.85	27.02	26.50	27.49	26.55	26.86	26.24	26.14	27.10	27.50	25.20
5	24.33	26.65	26.85	26.51	27.71	26.60	26.65	26.23	25.91	26.80	27.13	24.92
6	24.35	26.50	26.67	26.54	27.58	26.51	26.69	26.07	25.61	26.37	27.04	24.71
7	24.59	26.32	26.95	26.71	27.94	26.50	26.95	25.96	25.47	26.15	27.65	24.65
8	24.56	26.15	26.87	27.22	27.96	28.09	26.71	25.60	26.25	26.10	27.03	24.56
9	24.55	26.02	26.74	27.35	29.57	27.44	27.02	25.41	25.66	26.02	26.71	24.93
10	24.31	25.87	26.35	26.95	28.74	27.02	28.15	25.43	25.60	25.67	27.15	25.02
11	24.46	25.86	26.37	26.56	28.75	26.73	29.59	25.50	25.39	25.94	27.59	25.03
12	24.12	25.73	26.14	26.38	28.64	26.59	29.40	25.59	25.41	25.85	27.56	24.96
13	23.95	26.40	25.49	26.46	28.57	26.55	29.25	25.50	25.70	20.65	32.45	24.79
14	24.32	28.86	25.21	26.43	28.02	26.40	29.04	25.31	25.71	26.33	29.28	24.69
15	24.23	30.53	25.36	26.60	28.82	28.23	28.68	25.49	27.64	26.07	28.25	24.92
16	24.45	29.70	26.02	26.41	28.67	28.56	28.38	26.51	26.79	25.95	27.47	25.43
17	24.44	28.79	25.87	25.76	27.92	28.52	28.05	27.33	26.35	25.45	27.28	25.73
18	24.47	28.27	26.82	25.69	27.54	28.61	27.87	27.38	26.09	25.52	27.72	25.65
19	24.06	27.90	28.52	25.58	27.52	29.14	28.08	26.70	26.07	25.26	27.43	25.85
20	24.67	27.60	30.36	25.19	28.55	29.25	28.15	26.51	25.52	26.39	27.10	27.49
21	24.61	27.43	29.48	-	-	28.90	28.26	26.29	25.24	27.67	26.76	29.78
22	27.55	27.17	28.60	25.71	27.89	28.70	28.10	26.27	25.23	29.48	26.56	35.00
23	27.35	26.95	28.12	25.67	27.71	28.74	27.92	26.02	25.38	32.16	26.05	40.15
24	31.24	26.85	27.79	25.76	27.39	28.54	27.83	26.05	25.69	35.06	26.22	35.03
25	33.55	26.68	27.62	28.79	27.64	28.38	27.61	27.09	25.61	33.54	26.10	32.03
26	30.45	26.58	27.52	33.20	27.35	28.27	27.24	27.74	25.17	31.14	25.92	30.35
27	28.95	26.42	27.05	35.02	27.06	28.15	27.06	27.60	26.60	29.75	25.81	29.34
28	28.61	26.53	26.80	31.06	26.86	27.70	26.93	27.31	29.65	28.92	25.63	28.76
29	28.60	27.20	26.90	29.65	-	27.47	26.82	27.14	31.29	28.26	25.52	28.23
30	28.49	27.84	26.76	28.62	-	27.30	26.63	26.80	29.98	28.21	25.32	27.81
31	28.36	-	26.57	28.33	-	27.20	-	26.40	-	28.16	25.34	-

Delaware River at Washington Crossing--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27.48	25.81	26.82	26.30	27.40	32.14	30.63	27.76	25.09	24.17	24.10	23.80
2	27.32	25.82	26.92	26.21	27.10	31.55	31.05	27.52	25.10	25.02	23.80	23.75
3	26.90	25.69	26.82	26.16	27.22	30.95	31.54	27.46	25.10	24.61	23.95	23.56
4	26.62	25.73	28.18	26.15	29.89	29.94	31.40	27.21	25.03	24.22	23.76	23.44
5	26.65	25.62	29.92	26.18	28.67	29.50	30.38	27.06	24.84	24.27	24.21	23.45
6	26.95	25.58	33.85	26.46	28.03	29.68	29.78	26.89	25.00	24.26	23.89	23.39
7	26.65	26.42	37.92	28.00	27.75	30.03	31.31	26.75	24.56	24.10	23.78	23.27
8	26.85	26.75	35.20	27.89	27.75	30.74	31.22	26.63	24.54	24.04	23.72	23.64
9	26.27	27.00	32.45	28.21	27.57	29.73	30.52	26.26	24.61	23.90	23.81	23.75
10	26.05	26.95	31.57	27.69	27.35	29.22	29.81	26.63	24.52	24.10	24.02	23.89
11	25.95	26.91	31.80	27.54	28.09	28.84	29.38	26.80	24.48	23.90	24.05	23.90
12	25.87	26.97	32.41	27.42	28.23	28.42	29.25	26.70	24.57	23.85	23.76	23.67
13	25.84	26.71	31.12	27.44	27.58	28.39	29.73	26.50	25.00	23.93	23.61	23.42
14	25.67	26.60	30.24	27.28	27.38	28.30	29.60	26.31	25.30	24.19	23.68	23.40
15	25.82	26.43	29.53	27.05	27.40	28.45	29.15	25.96	25.42	24.24	23.81	23.77
16	25.75	26.55	28.92	26.84	30.12	29.30	28.89	25.78	25.25	24.00	23.61	23.59
17	25.60	26.64	28.25	26.52	31.74	28.87	29.24	26.00	24.81	24.05	23.95	23.40
18	25.43	26.54	28.15	27.76	31.35	28.72	29.53	25.87	24.76	23.65	24.03	23.15
19	25.42	26.55	28.00	26.56	30.22	28.30	29.27	25.75	24.70	23.49	23.90	23.05
20	25.45	26.82	27.76	26.91	29.78	27.85	29.81	25.64	24.80	23.54	24.25	23.09
21	25.65	27.44	27.55	26.35	29.82	27.64	29.84	25.58	24.55	23.84	24.50	23.10
22	26.31	28.42	27.26	26.28	33.75	27.62	29.51	25.60	24.80	23.55	24.42	23.41
23	26.12	27.82	27.10	26.62	31.23	27.50	29.23	26.05	24.71	23.48	23.90	23.67
24	25.72	27.63	26.80	26.20	29.85	27.36	29.33	26.46	24.62	23.67	24.04	23.61
25	26.40	27.64	26.63	25.87	29.28	27.30	28.90	26.42	24.61	23.46	24.10	23.62
26	26.75	27.25	26.58	26.41	28.69	27.91	28.60	26.17	24.24	23.35	24.15	23.41
27	26.85	27.49	27.37	25.75	29.85	29.64	28.46	25.89	24.15	23.25	24.20	23.24
28	26.45	27.67	27.23	25.82	30.02	31.25	28.35	25.76	23.93	24.00	24.55	23.27
29	26.41	27.95	26.61	26.10	-	31.72	28.36	25.49	23.96	24.26	24.00	23.66
30	26.49	27.97	26.60	25.91	-	31.20	28.15	25.35	24.24	24.41	23.77	24.15
31	26.05	-	26.35	28.15	-	30.73	-	25.24	-	24.67	23.85	-

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24.21	26.55	24.45	25.49	26.68	24.81	41.76	28.19	28.50	26.90	24.83	28.83
2	24.76	27.06	24.42	25.35	26.60	26.65	39.70	28.08	29.90	26.42	24.77	31.95
3	24.81	27.80	24.52	25.30	26.48	27.82	34.37	28.27	29.50	26.57	24.56	31.07
4	25.27	27.07	24.59	27.95	26.00	28.31	33.35	28.48	29.00	26.52	24.56	29.10
5	25.37	26.58	24.70	27.57	26.21	29.22	33.44	28.25	28.41	26.17	24.26	27.39
6	25.36	26.64	25.20	27.12	26.00	27.28	34.34	28.03	27.96	25.89	23.94	27.10
7	25.46	26.78	25.32	27.36	25.94	26.66	33.50	27.59	27.62	25.78	23.86	26.64
8	24.94	26.35	25.12	27.35	25.94	26.54	32.47	27.39	27.31	25.41	24.44	26.20
9	24.50	26.57	24.88	27.02	25.87	26.40	35.32	27.10	27.22	25.27	24.56	25.34
10	24.36	26.56	24.82	26.75	25.71	26.31	38.63	27.05	27.08	25.14	24.35	25.97
11	24.14	26.58	24.75	26.72	26.68	26.18	35.12	26.94	27.21	25.15	24.22	25.74
12	24.34	26.48	24.70	26.70	27.26	25.55	32.95	26.85	27.23	25.14	24.32	25.75
13	24.20	26.21	24.65	26.70	26.50	25.67	33.46	26.45	27.14	25.37	23.90	25.53
14	24.31	26.25	24.89	26.76	25.24	25.69	33.73	26.29	26.85	25.70	23.68	25.35
15	23.67	26.20	24.85	28.10	27.64	34.04	32.04	26.41	26.65	25.46	24.23	25.18
16	23.65	26.00	24.68	27.34	27.83	30.60	30.93	26.40	26.42	25.21	24.18	25.08
17	23.70	25.78	24.63	26.65	28.28	28.95	30.31	26.83	26.06	25.12	24.12	24.85
18	23.50	25.65	24.51	26.82	28.21	28.75	29.85	28.29	25.84	24.85	24.17	24.75
19	23.92	25.53	24.64	28.54	27.20	28.66	29.76	28.00	25.91	24.74	24.24	24.30
20	24.02	25.49	24.69	29.63	26.85	29.15	31.73	27.67	25.80	24.65	24.04	24.61
21	23.79	25.31	25.69	29.00	26.42	29.18	32.63	28.81	25.66	24.73	23.70	24.57
22	23.45	25.32	25.87	28.70	26.04	29.44	34.67	28.54	25.43	24.47	24.10	24.60
23	23.52	25.21	27.97	28.72	25.63	29.10	33.75	28.30	25.27	24.58	23.97	24.57
24	24.15	25.30	27.10	28.75	25.35	28.51	32.18	28.15	25.17	24.18	23.85	24.46
25	24.65	24.80	26.70	28.57	25.20	27.15	31.12	28.00	25.32	24.66	23.98	24.45
26	24.61	24.75	26.42	28.21	25.09	27.60	30.27	27.90	25.82	25.12	24.05	25.86
27	24.45	24.70	26.38	27.82	25.10	27.80	29.66	28.30	26.52	24.90	23.85	25.56
28	24.42	24.69	25.94	27.74	24.95	27.05	29.21	28.66	26.37	24.86	24.05	25.20
29	24.96	24.47	25.79	27.61	24.69	27.65	28.80	28.61	26.39	24.59	25.26	24.87
30	26.20	24.51	25.68	27.31	-	28.76	28.38	28.26	26.45	24.65	25.40	24.73
31	26.40	-	25.58	27.08	-	29.85	-	28.19	-	24.55	25.15	-

Delaware River at Yardley, Pa.

Location.- Wire-weight gage, lat. 40°14'45", long. 74°50'10", on bridge at Yardley, Bucks County. Datum of gage is at mean sea level (United States Coast and Geodetic Survey datum).

Records available.- March 1936 to September 1940 (gage heights only).

Extremes.- 1936-40: Maximum gage height, 35.90 feet 2 to 3 p.m. Mar. 19, 1936, from graph based on gage readings; minimum observed, 14.73 feet Sept. 20, 1939.
Maximum stage known, 39.1 feet Oct. 11, 1903, from floodmark.

Remarks.- Gage read twice daily except during periods of gage heights above 20.0 feet, when it was read hourly from 8 a.m. to 6 p.m. In tables, figures for March 1936 to September 1937 represent mean gage heights from two or more readings daily.

Cooperation.- Records collected in cooperation with Delaware River Joint Toll Bridge Commission.

1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	20.46	17.68	16.37	16.05	15.32	15.65
2						-	20.15	17.90	16.24	16.07	15.30	15.81
3						-	20.07	17.74	16.34	15.98	15.26	15.74
4						-	20.10	17.88	16.37	15.77	15.09	15.49
5						22.00	19.66	17.84	16.48	15.86	14.93	15.35
6						21.92	21.20	17.74	16.43	15.68	15.04	15.30
7						21.35	23.60	17.58	16.24	15.54	15.23	16.16
8						19.79	23.51	17.44	16.09	15.46	15.22	15.13
9						18.44	22.20	17.36	16.00	15.68	15.26	15.06
10						16.94	21.66	17.24	15.82	15.47	15.23	15.08
11						21.95	21.48	17.31	16.10	15.64	15.06	15.32
12						29.12	21.39	17.06	16.30	15.82	15.07	15.37
13						33.25	21.30	17.16	17.30	15.66	15.34	15.34
14						28.36	21.44	17.11	17.06	15.55	15.38	15.34
15						24.76	21.72	17.54	16.68	15.36	15.32	15.16
16						23.33	21.18	17.39	16.54	15.56	15.58	14.96
17						24.04	20.86	17.16	16.52	15.48	15.46	15.08
18						30.42	20.30	16.92	16.54	15.48	15.16	15.14
19						35.21	19.86	16.79	17.83	15.40	15.07	15.16
20						32.31	19.46	17.08	18.54	15.42	15.04	15.05
21						28.12	19.21	17.31	18.45	15.26	15.00	15.24
22						26.77	18.93	17.06	18.28	15.09	15.10	15.08
23						25.66	18.96	16.94	17.64	15.28	15.20	14.98
24						23.73	18.95	16.82	17.34	15.40	15.16	15.16
25						22.64	18.58	16.65	17.08	15.49	16.42	15.06
26						21.90	18.30	16.52	16.88	15.60	16.59	15.01
27						21.50	18.09	16.69	16.70	15.43	16.14	14.98
28						22.14	17.94	16.67	16.56	15.26	15.78	14.95
29						22.48	17.88	16.70	16.38	15.17	15.69	14.87
30						21.62	17.77	16.54	16.18	15.28	15.54	14.84
31						20.94	-	16.46	-	15.34	15.49	-

Delaware River at Yardley, Pa.--Continued

Daily mean gage height, in feet, 1936-37--Continued

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.16	15.98	15.48	18.34	19.93	18.40	17.61	19.26	16.66	17.39	15.60	16.86
2	15.70	15.91	15.26	18.86	19.28	18.07	17.86	18.82	16.56	17.36	15.66	16.60
3	15.54	15.85	15.60	19.18	18.68	18.98	18.20	18.46	16.64	17.50	15.46	16.51
4	15.44	15.82	16.06	18.97	18.20	17.82	18.31	18.18	16.56	17.40	15.49	16.34
5	15.23	15.83	15.94	18.74	17.84	17.57	18.08	18.01	16.58	17.14	15.46	16.20
6	15.24	18.25	15.88	18.42	17.69	17.69	18.51	17.89	16.56	16.92	15.48	16.18
7	15.18	19.78	17.04	18.20	17.73	17.83	21.70	17.72	16.48	16.65	15.42	16.30
8	15.19	18.54	17.10	18.33	17.64	17.58	23.04	17.90	16.94	16.68	15.54	17.08
9	15.19	17.97	16.91	18.12	17.44	17.30	21.37	17.70	17.76	16.54	15.56	16.68
10	15.23	17.54	16.82	18.48	17.71	17.28	21.10	17.54	17.24	16.38	15.46	16.49
11	15.28	17.30	16.88	19.07	17.87	17.08	21.10	17.27	16.95	16.16	15.35	16.34
12	15.32	16.96	17.78	18.68	18.02	16.87	20.09	17.23	16.72	16.06	16.92	16.15
13	15.24	16.70	20.50	18.36	17.50	16.48	19.46	17.12	16.55	16.02	17.32	15.98
14	15.12	16.54	19.62	18.06	17.33	16.13	19.08	17.15	16.44	16.32	16.84	15.94
15	15.15	16.39	18.68	18.38	17.93	16.82	18.90	18.62	16.33	16.28	17.08	16.23
16	15.26	16.28	18.11	19.18	18.52	16.87	19.24	21.05	16.55	16.76	16.72	16.30
17	15.35	16.14	18.56	19.72	19.25	16.85	20.10	21.46	16.80	16.64	16.26	16.74
18	15.37	16.09	18.18	19.80	17.64	16.72	19.68	20.22	16.60	16.74	16.16	16.35
19	15.81	16.01	17.94	19.86	17.46	16.75	19.16	19.71	16.89	16.36	16.02	16.41
20	15.93	15.96	19.88	20.63	17.26	16.93	19.06	19.35	16.88	16.08	16.10	16.06
21	16.26	15.78	20.11	19.96	17.24	17.90	18.90	18.90	16.78	16.03	15.96	16.04
22	16.02	15.74	19.91	20.00	19.46	18.40	19.20	18.57	17.48	15.94	16.26	16.14
23	15.82	15.63	19.00	21.68	24.60	18.80	21.30	18.28	19.58	15.82	17.26	16.22
24	15.72	15.62	18.34	22.00	22.80	18.53	21.95	18.09	19.58	15.70	19.30	15.93
25	15.64	15.69	17.91	21.65	20.96	18.50	20.92	17.96	18.49	15.66	18.13	15.85
26	15.58	15.64	17.80	22.74	20.03	18.94	19.98	17.65	17.78	15.58	17.44	15.74
27	16.12	15.54	17.64	23.09	19.35	18.81	20.50	17.42	17.38	15.83	17.12	15.61
28	16.10	15.54	17.64	21.42	18.89	18.34	20.20	17.42	17.02	15.57	17.07	15.66
29	16.38	15.45	17.70	20.35	-	18.09	20.16	17.35	16.80	15.73	17.64	15.60
30	16.22	15.38	17.84	19.82	-	17.76	19.84	17.26	17.04	15.60	17.82	15.70
31	16.02	-	17.78	19.48	-	17.55	-	16.94	-	15.64	17.14	-

Daily gage height at 8 a.m., in feet, 1937-40

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.69	18.36	18.50	17.14	18.65	17.58	17.81	17.15	16.83	18.33	18.42	16.32
2	15.65	17.90	18.07	17.55	18.63	17.45	17.70	17.02	16.82	18.65	18.19	16.40
3	15.70	17.67	17.83	17.19	18.38	17.24	17.69	16.84	16.78	18.10	18.50	16.20
4	15.50	17.47	17.57	17.16	18.10	17.23	17.51	16.92	16.84	17.68	18.23	16.09
5	15.45	17.30	17.44	17.14	18.25	17.28	17.33	16.92	16.68	17.42	17.86	15.84
6	15.47	17.20	17.33	17.14	18.41	17.19	17.24	16.77	16.37	17.12	17.80	15.76
7	15.63	16.99	17.46	17.38	18.48	17.20	17.28	16.67	16.28	16.86	18.35	15.70
8	15.62	16.84	17.50	17.83	19.50	18.61	17.35	16.38	16.93	16.82	-	15.67
9	15.60	16.71	17.38	17.86	20.03	18.05	17.60	16.22	16.42	16.72	17.44	15.95
10	15.46	16.62	17.40	17.47	19.28	17.66	18.83	16.23	16.42	16.50	17.88	15.99
11	15.56	16.58	16.98	17.20	19.29	17.40	20.01	16.28	16.22	16.65	18.23	15.96
12	15.35	15.46	16.69	17.23	19.41	17.23	19.92	16.34	16.22	16.55	18.26	15.93
13	15.28	16.50	16.15	17.08	18.68	17.06	19.76	16.25	16.45	17.32	23.05	15.33
14	15.46	19.42	17.40	17.07	18.54	17.07	19.71	16.15	16.48	17.07	19.95	15.70
15	15.43	21.02	19.51	17.24	19.42	16.17	19.24	16.29	18.21	16.82	18.83	15.90
16	15.54	20.07	18.75	16.96	19.19	19.12	18.90	17.16	17.47	16.68	18.23	16.23
17	15.52	19.40	17.77	16.48	18.51	19.08	18.62	17.95	17.04	16.27	17.91	16.58
18	15.56	18.84	18.05	16.42	18.18	19.15	18.41	17.98	16.75	16.19	18.33	16.57
19	15.36	18.45	19.25	16.43	18.10	19.72	18.58	17.38	16.78	16.10	18.13	16.45
20	15.61	18.20	21.07	16.15	19.18	19.75	18.73	17.18	16.30	16.58	17.83	18.25
21	17.25	17.92	19.95	16.37	19.00	19.48	18.82	17.00	16.10	17.86	17.47	20.33
22	18.12	17.80	19.09	16.40	18.46	19.25	18.66	16.86	16.22	20.12	17.27	25.21
23	17.90	17.58	18.68	16.40	18.35	19.28	18.48	16.75	16.18	22.84	16.87	29.75
24	21.54	17.50	18.33	16.48	18.50	19.10	18.38	16.76	16.47	25.39	17.00	25.49
25	23.90	17.33	18.11	19.25	18.28	18.97	18.20	17.65	16.39	24.10	16.85	22.60
26	20.99	17.23	17.86	23.55	17.92	18.87	17.88	18.33	16.05	21.74	16.70	20.90
27	19.53	17.06	17.69	24.87	17.67	18.52	17.73	18.20	17.28	17.32	16.65	19.87
28	19.15	17.08	17.52	21.57	17.52	18.35	17.58	17.90	19.72	19.56	16.43	19.36
29	19.18	17.82	17.46	19.94	-	18.08	17.47	17.62	21.86	18.96	16.36	18.85
30	19.08	18.40	17.36	19.18	-	17.92	17.27	17.45	20.55	18.78	16.24	18.47
31	18.90	-	17.17	18.92	-	17.78	-	17.15	-	18.75	16.20	-

Delaware River at Yardley, Pa.--Continued

Daily gage height at 8 a.m., in feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18.15	16.60	17.52	16.86	18.79	22.46	21.13	18.34	15.97	15.37	15.95	15.15
2	17.92	16.55	17.55	16.94	18.19	22.10	21.47	18.10	15.98	15.88	15.59	15.11
3	17.63	16.45	17.45	16.87	18.02	21.39	22.05	18.04	15.98	15.65	15.45	15.00
4	17.37	16.51	18.79	16.85	20.21	20.44	21.94	17.79	15.92	15.40	15.32	14.92
5	17.42	16.36	20.33	16.91	19.13	20.00	20.83	17.67	15.78	15.39	15.29	14.91
6	17.15	16.58	24.15	17.04	18.56	20.18	20.17	17.44	15.76	15.39	15.40	14.91
7	17.30	17.14	27.85	18.52	18.32	20.47	21.71	17.32	15.65	15.30	15.25	14.86
8	17.53	17.40	25.46	18.49	18.26	21.15	21.67	17.16	15.65	15.28	15.95	15.03
9	17.07	17.60	22.90	18.72	18.12	20.15	21.02	16.92	15.64	15.20	15.65	15.12
10	16.86	17.57	22.02	18.32	17.94	19.78	20.29	17.25	15.59	15.31	15.42	15.17
11	16.70	17.57	22.25	18.13	18.69	19.32	19.85	17.35	15.59	15.17	15.40	15.12
12	16.62	17.55	22.89	18.00	18.65	19.02	19.87	17.32	15.79	15.17	15.29	15.04
13	16.62	17.37	21.50	18.02	18.20	18.87	20.23	17.14	15.92	15.17	15.23	14.95
14	16.47	17.25	20.68	17.87	18.04	18.85	19.98	16.96	16.13	15.33	15.18	14.86
15	16.52	17.09	20.04	17.48	18.97	19.00	19.63	16.67	16.18	15.37	15.01	15.12
16	16.57	17.29	19.41	17.41	20.38	19.74	19.40	16.50	16.05	15.22	14.95	15.04
17	16.47	17.25	18.87	17.32	22.26	19.38	19.89	16.73	15.79	15.25	15.18	14.88
18	16.30	17.19	18.69	17.37	21.71	19.19	19.98	16.56	15.74	15.07	15.23	14.80
19	16.26	17.13	18.55	17.20	*20.71	18.81	19.84	16.50	15.72	14.96	15.41	14.77
20	16.30	17.53	18.34	17.43	20.26	18.39	20.29	16.41	15.76	14.98	15.38	14.73
21	16.60	18.01	18.15	17.17	20.25	18.29	20.31	16.31	15.63	15.14	15.55	14.74
22	17.03	18.92	17.98	16.97	23.88	18.16	19.97	16.33	15.76	15.10	15.46	14.90
23	16.85	18.46	17.74	16.94	21.83	18.08	19.72	16.72	15.68	15.01	15.18	15.03
24	16.55	18.19	17.40	16.81	20.36	17.94	19.84	17.11	15.62	15.07	15.24	15.05
25	17.10	18.15	17.30	16.58	19.68	17.82	19.42	17.10	15.60	15.15	15.27	15.02
26	17.46	17.87	17.29	16.78	19.20	18.57	19.15	16.84	15.45	14.98	15.30	14.94
27	17.48	17.75	17.67	17.00	20.18	19.92	18.97	16.57	15.33	14.94	15.90	14.85
28	17.15	17.68	17.72	19.81	20.54	21.58	18.85	16.37	15.19	15.24	15.62	14.84
29	17.13	17.55	17.32	21.98	-	*22.13	18.88	16.27	15.23	15.54	15.25	15.05
30	17.09	17.52	17.24	22.70	-	21.63	18.49	16.15	15.36	15.85	15.18	15.33
31	16.78	-	17.07	19.71	-	21.29	-	16.06	-	16.04	15.15	-

*Estimated

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.43	17.17	15.51	16.17	19.00	15.10	30.90	18.71	18.98	17.45	-	16.82
2	15.73	17.58	15.49	17.80	19.03	15.62	29.30	18.62	19.24	17.05	-	22.51
3	15.75	18.30	15.46	18.45	18.57	15.56	24.88	18.79	19.95	17.19	-	21.50
4	16.02	17.65	15.57	18.55	18.72	18.87	23.72	18.97	19.47	17.13	-	19.55
5	16.14	17.26	15.65	18.21	18.57	19.80	23.79	18.84	18.90	16.81	-	18.59
6	16.15	17.23	15.90	18.06	18.53	17.84	24.63	18.54	18.50	16.55	-	17.80
7	15.85	17.32	16.02	17.74	18.43	17.36	23.43	18.17	18.15	-	-	17.30
8	15.62	*17.5	15.96	18.55	18.35	17.21	22.87	17.95	17.85	-	-	16.88
9	15.55	17.19	15.82	17.94	18.37	17.08	25.45	17.73	17.60	-	-	16.54
10	15.46	17.15	15.70	17.49	18.22	16.95	28.39	17.68	17.75	-	-	16.62
11	15.32	17.27	15.68	17.25	18.67	16.65	25.34	17.50	17.84	-	-	16.45
12	15.45	17.03	15.70	17.23	19.75	16.42	23.33	17.32	17.72	-	-	16.48
13	15.38	16.85	15.82	17.11	18.90	16.34	23.74	17.10	17.56	-	-	16.37
14	15.35	16.95	15.86	17.14	18.40	16.40	24.02	16.95	17.40	-	15.04	16.14
15	15.20	16.79	15.77	20.35	17.74	24.41	22.46	17.02	17.14	-	15.37	16.03
16	15.08	16.64	15.68	18.34	17.91	20.94	21.36	16.97	16.98	-	15.32	15.95
17	15.06	16.49	15.60	18.19	18.30	19.64	20.78	17.47	16.71	-	15.32	15.78
18	14.99	16.34	15.57	22.91	18.31	19.23	20.32	18.83	16.50	-	15.35	15.71
19	15.13	16.25	15.61	21.28	18.25	19.27	20.21	18.74	16.50	-	15.40	15.75
20	15.25	16.20	15.70	21.11	19.74	19.70	22.19	18.23	16.50	-	15.28	15.63
21	15.10	16.11	16.35	20.96	19.65	19.61	23.00	19.28	16.38	-	15.10	15.65
22	14.94	16.13	17.67	20.87	17.12	20.05	24.90	19.10	16.13	-	15.25	15.64
23	14.85	16.04	18.34	20.61	16.40	19.57	24.14	18.80	16.00	-	15.20	15.60
24	15.20	15.92	17.67	20.47	16.17	18.72	22.65	18.63	15.92	-	15.13	15.53
25	15.63	15.75	17.41	20.51	15.97	18.40	21.60	18.43	16.03	-	15.18	15.51
26	15.61	15.72	16.87	20.10	15.86	18.09	20.75	18.53	16.55	-	15.31	16.60
27	15.50	15.65	17.05	19.81	15.95	17.78	20.14	18.78	17.09	-	15.25	16.33
28	15.48	15.67	16.30	19.38	15.70	17.69	19.74	19.12	16.96	-	15.34	15.95
29	15.84	15.53	16.20	19.31	15.50	18.27	19.27	19.11	16.96	-	16.08	15.81
30	16.78	15.57	16.16	19.30	-	18.22	18.90	18.75	17.06	-	16.17	15.73
31	17.05	-	15.96	19.11	-	20.41	-	19.15	-	-	15.99	-

*Esitmated

Delaware River at Trenton

Location.- Water-stage recorder, lat. 40°13'18", long. 74°46'38", 200 feet upstream from Calhoun Street Bridge at Trenton, Mercer County, and half a mile upstream from Assunpink Creek. Datum of gage is 7.77 feet (revised) above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 6,796 square miles (revised).

Records available.- February 1913 to September 1940.

Average discharge.- 27 years, 11,640 second-feet (adjusted for storage and diversions).

Extremes.- 1913-40: Maximum discharge, 227,000 second-feet 3 to 4 p.m. Mar. 19, 1936 (gage height, 16.66 feet); minimum, 1,220 second-feet Sept. 18 and 19, 1932. Flow in Trenton power race and Delaware & Raritan Canal not included.
Maximum stage known, 22.8 feet Mar. 8, 1904, from floodmark, caused by ice jam.

Peak gage height and discharge during period of this report.-
1934: Dec. 3 (1 a.m.) 9.09 ft., 87,500 sec.-ft.
1935: July 10 (11:30 a.m.) 11.74 ft., 129,000 sec.-ft.
1936: Jan. 3 (4 p.m.) 16.12 ft. caused by ice jam; Mar. 13 (8 a.m.) 15.34 ft., 199,000 sec.-ft.; Mar. 19 (3 to 4 p.m.) 16.66 ft., 227,000 sec.-ft.
1937: Feb. 23 (3 p.m.) 8.16 ft., 74,200 sec.-ft.
1938: Jan. 27 (1 a.m.) 8.60 ft., 80.000 sec.-ft.; July 23 (8 to 10 p.m.) 8.73 ft., 81,500 sec.-ft.; Sept. 23 (6 to 7 a.m.) 11.45 ft., 125,000 sec.-ft.; Dec. 7 (noon) 9.86 ft., 99,500 sec.-ft.
1940: Mar. 15 (3 p.m.) 8.25 ft., 76,500 sec.-ft.; Apr. 1 (4 p.m.) 12.85 ft., 151,600 sec.-ft.; Apr. 10 (5:30 a.m.) 10.25 ft., 106,700 sec.-ft.

Remarks.- Water diverted above station to Delaware & Raritan Canal and Trenton power race. Trenton power race at station abandoned Nov. 15, 1935; no diversion thereafter. Delaware Division Canal closed to navigation since November 1931; small amount of water diverted thereafter. Flow regulated by Lakes Hopatcong and Wallenpaupack and Toronto, Cliff Lake, and Swinging Bridge Reservoirs (combined capacity, 13,100,000,000 cubic feet).

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29 500	6 280	31 900	8 860	b7 300	13 800	17 100	12 200	4 360	6 060	7 220	2 700
2	24 800	6 740	77 000	10 100	b7 400	14 600	16 300	14 600	4 130	5 080	7 740	3 220
3	18 700	6 970	72 800	7 740	b7 700	14 200	15 200	14 200	4 110	4 530	8 000	3 220
4	15 200	7 470	47 400	8 000	b7 700	13 500	14 900	12 200	3 910	4 530	9 150	3 860
5	13 200	12 000	35 500	b7 000	b7 200	13 500	13 800	11 900	4 180	4 180	7 470	14 600
6	15 600	17 500	28 500	b7 200	b6 800	14 600	13 500	12 800	4 890	3 840	5 650	14 900
7	17 500	19 100	23 900	8 000	b6 700	17 100	12 800	13 500	4 710	3 480	5 650	9 460
8	17 500	16 300	20 300	9 150	b6 700	25 700	12 200	16 300	5 080	4 710	5 650	6 970
9	15 600	14 600	17 100	11 900	b7 000	26 200	12 500	24 800	5 080	19 000	5 460	5 460
10	13 200	13 500	13 800	30 900	b6 900	19 900	13 500	21 200	5 650	110 000	4 890	4 890
11	11 900	12 200	12 200	55 800	b6 600	18 700	13 800	18 700	6 500	68 700	5 080	4 890
12	10 700	11 300	b11 300	43 000	b6 400	22 200	14 600	18 700	6 740	41 900	5 260	4 710
13	9 770	10 400	b12 000	28 500	b6 400	38 100	16 000	15 200	5 860	30 500	4 530	4 530
14	9 150	9 770	11 300	20 800	b6 700	35 500	16 300	13 800	5 260	23 000	4 710	3 940
15	8 280	9 770	10 700	16 700	b12 000	27 500	16 300	12 800	4 710	18 700	5 260	4 360
16	7 740	8 860	9 770	14 200	b13 000	22 100	16 300	11 600	4 180	15 200	5 460	4 360
17	8 280	8 280	9 150	13 500	b14 000	20 800	17 100	10 700	3 810	16 700	4 710	3 840
18	7 470	8 000	8 860	11 900	b14 000	25 700	17 100	9 770	3 480	14 600	4 710	3 290
19	7 740	7 740	9 460	11 900	b13 000	30 500	16 000	8 560	4 140	12 200	4 180	3 380
20	7 220	7 740	14 600	11 000	b12 000	26 600	15 600	7 470	6 280	11 300	3 770	3 250
21	7 220	7 740	16 700	10 700	11 600	23 900	15 600	6 970	6 500	11 000	3 770	3 320
22	6 280	8 000	17 900	12 500	10 400	26 600	15 600	6 740	6 280	10 100	4 530	3 640
23	6 280	8 000	14 600	13 800	9 460	27 500	14 900	6 740	6 740	9 770	4 530	3 540
24	6 740	8 280	12 500	b12 000	8 560	24 800	14 200	6 280	8 000	10 400	4 360	3 070
25	6 970	11 300	11 000	b9 000	8 860	22 100	13 500	6 060	6 970	11 000	4 110	2 730
26	6 970	14 600	11 000	b8 800	12 500	21 200	12 800	5 650	6 740	11 600	3 740	3 450
27	6 280	13 200	11 600	b8 000	16 300	18 700	11 900	5 080	5 860	13 500	2 970	3 410
28	6 280	12 200	11 000	b7 200	13 800	17 100	11 000	4 890	5 460	12 200	2 730	3 250
29	6 280	12 500	10 100	b7 200	-	16 700	10 400	5 080	5 260	9 460	3 320	3 160
30	6 280	15 600	9 770	b8 400	-	18 700	10 700	5 080	5 860	7 740	3 350	3 290
31	6 060	-	8 860	b7 500	-	17 900	-	4 890	-	7 740	2 880	-

b Stage-discharge relation affected by ice.

Delaware River at Trenton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3 040	47 400	44 100	b7 000	b8 800	b14 500	27 500	11 300	5 460	4 890	2 970	4 150
2	2 700	32 000	33 500	b7 000	b8 000	b13 500	25 700	12 200	4 890	5 080	2 940	4 530
3	3 290	20 800	26 600	b13 000	b8 000	b12 800	24 800	11 600	5 080	4 890	2 850	4 530
4	3 220	15 600	23 000	b17 000	b7 600	b13 400	24 800	12 200	5 460	4 360	2 380	3 710
5	3 350	12 800	18 700	b23 000	b7 800	b14 500	22 100	11 600	5 650	4 530	2 090	3 350
6	3 380	11 300	16 000	b20 000	b7 600	b14 500	32 800	11 300	5 260	4 110	2 440	3 100
7	3 290	9 460	14 200	19 100	b7 200	b14 000	52 000	10 700	4 890	4 040	2 850	2 790
8	2 820	10 400	12 800	17 100	b6 700	b14 000	50 800	10 100	4 530	3 510	2 790	2 640
9	2 550	10 700	12 800	19 700	b7 100	b14 700	40 800	9 460	4 110	3 980	2 820	2 500
10	3 040	10 400	13 800	26 600	b6 900	b18 400	36 600	8 860	3 870	3 580	2 820	2 520
11	2 940	9 770	14 600	20 300	b6 300	39 600	35 500	9 150	4 530	3 910	2 500	3 000
12	2 850	8 860	15 200	16 700	b6 300	124 000	34 500	8 280	5 080	4 530	2 500	3 350
13	2 500	9 150	13 800	15 600	b6 900	187 000	33 500	8 560	9 720	4 110	3 100	3 320
14	2 440	23 100	12 500	15 200	b6 700	107 000	34 500	8 280	8 280	3 680	3 320	3 220
15	2 170	46 300	12 200	14 600	b6 900	64 800	36 600	10 100	6 280	3 190	3 190	2 700
16	2 170	31 500	13 800	20 300	b7 100	52 000	33 500	9 770	5 860	3 680	3 680	2 220
17	2 580	27 500	15 200	20 800	b7 100	58 400	30 500	8 560	5 650	3 510	3 610	2 500
18	2 820	31 500	15 200	19 100	b6 800	139 000	27 500	7 740	6 060	3 480	2 760	3 040
19	2 520	25 700	13 800	17 900	b6 500	214 000	23 900	7 220	11 000	3 290	2 470	2 880
20	2 360	22 100	12 500	b13 500	b6 400	168 000	21 200	8 000	13 800	3 130	2 380	2 440
21	2 380	22 100	11 600	b11 000	b6 400	104 000	19 500	9 150	14 200	2 730	2 250	2 880
22	2 300	24 800	10 100	b12 000	b6 400	86 000	18 300	8 280	13 500	2 360	2 470	2 520
23	2 120	23 000	b9 000	b11 300	b6 300	74 200	17 900	7 470	10 400	2 790	2 760	2 220
24	2 330	20 300	b8 000	b9 200	b5 900	54 500	17 500	6 970	8 860	3 190	3 120	2 580
25	2 790	17 500	b7 600	b10 500	b5 700	44 100	15 200	6 500	7 740	3 540	6 970	2 440
26	2 610	15 200	b8 500	b11 500	b6 800	38 700	14 200	6 060	6 970	3 810	7 220	2 360
27	2 410	14 200	b7 000	b10 300	b11 200	35 500	12 800	6 500	6 280	3 320	5 650	2 300
28	2 300	13 800	b6 800	b9 000	b14 100	39 700	12 500	6 500	5 860	2 850	4 530	2 170
29	2 170	33 200	b7 000	b9 800	b14 400	43 000	11 900	6 500	5 650	2 550	4 130	1 940
30	4 040	52 000	b6 400	b10 000	-	36 600	11 600	6 060	5 260	2 790	3 810	1 920
31	18 500	-	b6 400	b9 400	-	31 500	-	5 860	-	3 000	3 910	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 610	5 260	3 680	15 200	24 800	16 000	11 900	21 200	7 740	10 700	3 870	8 280
2	4 180	5 080	3 100	17 900	20 800	14 200	13 200	18 300	7 220	10 700	4 010	7 220
3	3 840	4 710	4 040	20 300	17 500	13 500	14 900	16 000	7 220	11 300	3 410	6 740
4	3 480	4 530	5 260	19 100	14 600	12 800	15 600	14 600	6 970	11 000	3 410	6 060
5	2 970	4 710	5 080	17 900	12 800	12 200	14 200	13 800	7 220	9 770	3 450	5 860
6	2 970	13 200	4 890	16 000	12 200	12 500	16 900	13 200	6 970	8 860	3 410	5 650
7	2 820	24 800	8 600	14 900	12 200	12 800	38 900	12 500	6 970	7 740	3 320	6 060
8	2 790	17 100	9 460	15 600	11 900	11 600	49 600	13 200	9 150	7 470	3 680	8 860
9	2 790	13 800	8 000	14 900	11 000	10 400	36 600	12 500	12 500	6 740	3 770	7 470
10	2 940	11 900	7 740	16 700	12 200	10 400	33 500	11 300	10 400	6 280	3 410	6 740
11	2 970	10 400	8 560	19 900	12 800	9 460	34 500	10 400	8 860	5 650	3 100	6 060
12	3 160	8 860	12 800	17 900	13 800	8 560	26 600	10 100	7 740	5 460	7 710	5 460
13	3 000	7 740	26 600	16 000	11 300	8 000	22 100	9 460	6 970	5 260	10 100	5 080
14	2 580	6 970	23 900	14 200	10 700	7 740	19 900	10 100	6 740	5 860	8 280	4 890
15	2 610	6 280	17 500	16 000	12 800	8 280	18 700	17 000	6 280	5 860	9 150	5 650
16	2 940	5 860	14 600	20 300	16 000	8 280	20 300	32 200	6 740	6 970	7 470	6 280
17	3 250	5 650	16 300	23 900	15 200	8 000	26 600	36 600	8 000	6 970	5 860	7 440
18	3 320	5 650	14 900	24 800	12 800	7 740	23 900	27 500	7 740	7 740	5 260	6 500
19	4 530	5 260	13 500	24 800	11 300	8 000	20 300	23 900	7 470	6 280	5 080	6 280
20	5 080	4 890	23 500	29 500	10 400	8 560	19 500	21 200	8 560	5 260	5 080	5 460
21	5 860	4 530	27 500	25 700	10 100	12 800	19 100	18 700	8 000	5 080	4 890	5 260
22	5 260	4 530	25 700	25 700	19 100	16 000	22 100	17 100	11 300	4 890	5 650	5 460
23	4 710	4 180	19 900	36 600	60 500	16 700	36 600	15 200	22 100	4 530	12 300	5 650
24	4 360	4 150	15 200	40 800	47 600	16 700	40 800	13 800	23 000	4 150	22 100	5 260
25	4 180	4 150	13 500	37 700	33 500	16 300	32 500	13 500	16 700	4 110	14 600	4 710
26	4 010	4 110	12 800	46 300	25 700	18 700	25 700	12 200	12 800	3 910	11 000	4 180
27	5 260	3 810	12 200	49 600	21 200	18 300	28 500	11 300	10 700	4 360	9 150	3 940
28	5 460	3 770	12 200	36 600	18 700	15 600	27 500	11 000	9 150	3 810	9 150	3 910
29	6 280	3 450	12 500	28 500	-	13 800	26 600	10 700	8 560	3 980	11 000	3 840
30	6 060	3 350	13 200	24 800	-	12 500	24 800	10 400	9 460	3 940	12 500	4 360
31	5 260	-	12 800	23 000	-	11 600	-	8 860	-	3 910	10 100	-

Delaware River at Trenton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4 360	15 200	16 300	9 460	17 500	9 770	12 800	9 770	8 000	20 300	15 200	5 860
2	4 180	13 200	14 200	11 000	16 700	9 770	12 500	8 860	7 740	16 700	14 600	6 060
3	4 040	11 900	12 500	10 100	14 900	9 460	12 200	8 280	7 470	13 800	16 000	6 060
4	3 540	11 000	11 600	9 460	14 600	9 460	11 300	8 280	7 470	12 200	14 200	5 260
5	3 410	10 100	10 700	9 150	15 600	9 460	10 400	8 000	6 970	10 700	12 200	4 710
6	3 540	9 460	10 400	8 860	16 300	9 460	10 100	7 470	6 500	9 150	11 900	4 180
7	3 940	8 560	11 000	10 100	16 700	9 770	10 100	7 220	6 060	8 000	13 500	4 010
8	3 910	8 000	11 000	11 900	25 700	15 900	10 400	6 280	7 830	7 740	12 200	4 180
9	3 870	7 470	10 100	12 500	25 700	13 800	11 900	5 860	6 500	7 220	11 300	4 890
10	3 510	7 220	8 560	10 700	21 200	11 600	18 100	5 360	6 500	6 740	12 500	4 890
11	3 580	6 970	8 000	9 460	22 100	10 400	27 500	5 860	6 060	7 220	13 500	4 890
12	3 130	6 500	b6 300	9 150	20 300	9 770	25 700	6 060	6 060	6 970	30 700	4 710
13	2 970	12 900	b5 800	8 860	17 100	9 150	24 800	6 060	6 500	9 460	43 800	4 180
14	3 450	23 900	b5 400	8 860	17 100	12 800	23 000	5 650	6 740	8 560	23 900	4 180
15	3 480	31 500	b6 400	8 860	22 100	17 500	20 800	6 500	13 500	7 740	17 100	4 710
16	3 710	26 600	b7 100	8 280	20 300	20 300	18 700	9 770	11 000	7 220	13 800	5 860
17	3 640	21 200	b7 800	6 970	16 300	19 900	17 100	13 500	8 560	6 060	12 800	6 500
18	3 610	18 300	b12 000	6 740	14 200	20 800	16 000	13 500	8 860	6 060	13 500	6 230
19	3 220	16 000	23 100	b6 500	14 600	23 900	17 100	10 700	7 470	5 860	13 200	6 740
20	6 110	14 200	32 500	b6 500	19 100	23 900	18 300	9 460	6 060	11 300	12 200	12 900
21	11 300	13 500	25 700	8 000	18 700	22 100	18 700	8 560	5 460	17 200	10 700	42 000
22	13 500	12 200	20 300	7 470	16 000	20 800	17 500	8 280	5 460	26 600	9 460	82 200
23	14 200	11 600	17 500	6 970	15 200	21 200	16 300	7 740	5 650	62 300	7 740	114 000
24	38 800	11 000	16 000	6 970	16 000	19 900	16 000	8 000	6 500	70 000	7 740	63 500
25	50 800	10 400	14 600	23 000	14 600	19 100	14 200	12 100	6 280	53 200	7 470	41 900
26	31 500	9 460	12 800	61 000	a12 800	17 900	13 200	16 000	5 650	36 600	6 970	30 500
27	22 100	8 860	11 400	62 200	a12 200	16 300	12 500	14 900	12 500	27 500	6 500	23 900
28	19 900	10 100	11 300	36 600	a11 300	14 900	11 600	13 200	32 600	22 100	6 280	20 800
29	19 900	12 800	11 000	23 900	-	14 200	11 000	11 900	37 700	18 700	6 060	17 500
30	19 900	16 000	10 400	19 100	-	13 200	10 100	10 700	28 500	18 300	5 460	15 200
31	18 700	-	9 460	17 900	-	12 800	-	9 150	-	17 500	5 650	-

a No gage-height record; discharge computed on basis of records for station at Riegelsville.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13 500	7 220	11 300	8 000	b11 000	44 100	34 500	14 900	4 890	3 580	3 040	2 520
2	12 200	6 970	11 300	8 280	b10 800	40 800	36 600	14 200	5 080	4 710	2 580	2 440
3	11 000	6 740	10 700	8 000	21 000	35 500	40 800	13 500	5 080	3 940	2 670	2 170
4	10 100	6 740	16 300	8 000	27 500	29 500	38 700	12 500	4 710	3 290	2 580	1 970
5	9 770	6 740	30 500	8 280	19 500	25 700	31 500	11 600	4 530	3 350	3 130	1 990
6	9 150	7 220	65 100	10 100	16 300	27 500	31 500	11 000	4 530	3 250	2 790	1 870
7	10 100	9 460	94 200	15 600	14 900	30 500	39 700	10 400	4 010	3 070	2 610	1 820
8	10 400	10 700	68 700	16 000	14 900	33 500	37 700	9 460	4 010	2 940	2 500	2 270
9	8 280	11 600	46 300	17 100	13 800	27 500	32 500	8 860	4 010	2 730	2 550	2 380
10	7 470	11 600	39 700	14 900	13 800	23 900	27 500	10 100	3 840	2 910	2 790	2 470
11	7 220	11 600	44 100	14 200	16 700	22 100	24 800	10 700	3 840	2 670	2 850	2 580
12	6 970	11 600	46 300	13 500	16 700	19 500	24 800	10 100	4 360	2 500	2 500	2 220
13	6 740	10 400	36 600	13 500	14 200	18 700	27 500	9 150	4 710	2 640	2 360	1 990
14	6 280	9 770	30 300	12 500	13 200	18 300	26 600	8 560	5 650	3 000	2 550	1 990
15	6 740	9 460	24 800	11 600	14 600	19 100	23 900	7 470	5 860	3 100	2 550	2 380
16	6 740	9 770	21 200	10 100	29 500	23 900	23 000	6 970	5 260	2 760	2 300	2 170
17	6 280	9 770	17 900	10 100	45 900	22 100	23 900	7 220	4 530	2 790	2 670	1 850
18	5 650	9 460	16 700	10 100	37 700	20 800	25 700	6 970	4 360	2 300	2 880	1 620
19	5 650	9 460	16 000	9 460	30 500	17 900	27 500	6 740	4 360	2 040	3 160	1 500
20	6 060	11 300	14 900	9 770	27 500	15 600	29 500	6 500	4 360	2 170	3 320	1 480
21	6 970	15 200	13 800	8 560	33 900	14 900	28 500	6 280	4 010	2 470	3 640	1 620
22	8 280	18 700	12 800	8 560	54 500	14 600	26 600	6 740	4 360	2 090	3 480	1 920
23	7 740	16 000	11 900	b7 300	37 700	13 800	24 800	7 740	4 180	2 140	2 730	2 170
24	6 970	14 600	10 700	b6 800	28 500	13 200	24 800	9 460	4 110	2 300	2 880	2 270
25	9 150	14 600	10 100	7 740	23 900	13 200	22 100	9 150	3 840	2 070	2 970	2 170
26	10 400	12 500	9 770	b6 600	22 100	16 000	20 300	8 000	3 350	1 850	3 250	1 870
27	10 400	12 200	12 500	b6 600	27 500	26 600	19 100	7 220	3 100	1 970	4 890	1 690
28	9 460	11 600	12 200	b6 700	35 500	38 700	19 100	6 280	2 760	2 640	3 810	1 850
29	9 150	11 300	9 770	b6 800	-	43 000	19 100	6 060	2 850	3 130	2 940	2 330
30	8 860	11 300	9 150	b8 400	-	39 700	17 100	5 650	3 320	3 470	2 730	2 970
31	7 740	-	8 560	b13 000	-	34 500	-	5 260	-	4 520	2 640	-

b Stage-discharge relation affected by ice.

Delaware River at Trenton--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3 380	9 270	3 640	b4 500	b3 400	4 600	142 900	18 000	20 500	11 100	4 600	20 200
2	4 150	12 300	3 580	b4 000	b3 200	4 420	107 000	17 500	27 500	9 220	4 350	42 000
3	4 360	14 100	3 610	b4 000	b3 200	4 730	62 200	18 900	24 900	9 810	4 070	34 300
4	5 260	11 200	3 870	b4 000	b3 400	24 700	54 700	19 700	22 000	9 580	3 660	21 800
5	5 490	9 830	4 080	b3 800	b3 400	24 000	56 100	18 200	18 800	8 260	3 430	15 400
6	5 490	9 650	4 820	b3 400	b3 400	13 200	60 800	16 500	16 400	7 270	2 810	11 700
7	4 710	10 400	5 260	b3 600	b3 400	10 900	51 000	14 700	14 600	6 520	2 900	9 520
8	4 080	10 500	4 820	b4 000	b3 400	9 750	51 200	13 600	12 900	5 870	3 660	7 990
9	3 680	9 580	4 420	b3 600	b3 400	9 220	79 800	12 700	11 500	5 380	3 800	7 080
10	3 320	9 520	4 180	b3 400	b3 600	8 710	97 800	12 200	12 700	5 380	3 530	7 180
11	3 130	9 770	4 180	b3 200	b6 000	7 420	66 900	11 400	12 800	5 380	3 340	6 940
12	3 380	8 680	4 110	b3 200	b5 500	6 560	52 000	10 500	12 500	5 540	3 370	6 840
13	3 070	8 110	4 670	b3 400	b5 000	6 430	56 500	9 460	11 500	6 040	2 780	6 290
14	2 970	8 560	4 500	b3 800	b4 600	6 980	55 400	8 930	10 700	6 660	2 560	5 870
15	2 440	7 840	4 360	b8 500	b4 400	56 200	43 200	8 870	9 640	5 990	3 140	5 420
16	2 330	7 220	4 220	b9 000	b4 400	33 500	35 900	9 110	8 760	5 340	3 180	4 960
17	2 360	6 500	3 910	b7 500	b4 800	21 600	32 000	11 400	7 830	4 960	3 110	4 530
18	2 090	6 060	3 810	b6 500	b4 800	20 600	28 800	17 800	7 130	4 670	3 140	4 380
19	2 440	5 860	3 940	b5 500	b4 800	20 800	29 000	17 400	7 270	4 350	3 270	4 420
20	2 730	5 530	4 420	b4 800	b6 000	22 600	41 400	14 800	7 030	4 320	2 960	4 140
21	2 330	5 260	7 120	b4 600	b7 000	23 800	51 400	21 800	6 660	4 350	2 530	4 140
22	2 020	5 380	12 700	b4 400	b6 500	24 700	64 700	20 100	5 990	3 830	2 960	4 100
23	2 350	5 260	14 900	b4 800	b6 000	21 800	56 500	18 500	5 620	3 600	2 870	3 970
24	3 190	4 750	11 200	b4 800	b6 000	17 800	44 400	17 700	5 420	3 500	2 720	3 760
25	4 040	4 250	9 580	b4 600	5 790	15 600	36 900	16 400	5 740	4 240	2 780	4 420
26	3 910	4 110	7 320	b4 400	5 270	13 400	31 400	16 600	7 470	5 310	2 960	7 130
27	3 610	4 110	b6 500	b4 000	4 960	12 600	27 100	18 200	9 520	4 820	2 750	6 290
28	3 540	4 080	b7 000	b3 800	4 560	12 400	23 400	21 400	8 930	4 640	3 270	5 190
29	4 770	3 810	b6 500	b4 000	4 420	15 500	20 800	20 600	8 540	4 040	5 520	4 740
30	8 280	3 910	b6 000	b3 800	-	15 400	19 000	18 500	9 340	3 900	6 120	4 350
31	9 030	-	b5 500	b3 600	-	51 400	-	19 600	-	4 140	5 420	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	340 690	29 500	6 060	10 990	10 870	1.60	1.84
November	325 940	19 100	6 280	10 860	11 200	1.65	1.84
December	612 570	77 000	8 860	19 760	20 440	3.01	3.47
Calendar year 1934	4 248 980	77 000	2 250	11 640	11 880	1.75	23.72
January 1935	441 250	55 800	7 000	14 230	14 190	2.09	2.41
February	266 980	16 300	6 400	9 535	9 475	1.39	1.45
March	676 000	33 100	13 500	21 810	22 670	3.34	3.85
April	431 500	17 100	10 400	14 380	14 780	2.17	2.42
May	344 460	24 800	4 890	11 110	11 490	1.69	1.95
June	160 780	8 000	3 480	5 359	5 239	.771	.86
July	532 720	110 000	3 480	17 180	17 370	2.56	2.95
August	154 840	9 150	2 730	4 995	4 374	.644	.74
September	142 690	14 900	2 700	4 756	4 307	.634	.71
Water year 1934-35	4 430 420	110 000	2 700	12 140	12 260	1.80	24.49
October 1935	99 980	18 500	2 120	3 225	2 970	.437	.50
November	652 440	52 000	8 860	21 750	22 500	3.31	3.69
December	442 700	44 100	6 400	14 280	14 360	2.11	2.43
Calendar year 1935	4 346 340	110 000	2 120	11 910	12 000	1.77	23.96
January 1936	457 500	26 600	7 000	14 760	14 570	2.14	2.47
February	219 900	14 400	5 700	7 583	7 252	1.07	1.15
March	1 885 900	214 000	12 800	60 840	63 290	9.31	10.73
April	800 500	52 000	11 600	26 680	26 370	3.88	4.33
May	270 830	12 200	5 860	8 736	8 606	1.27	1.46
June	210 180	14 200	3 870	7 006	6 694	.985	1.10
July	112 410	5 080	2 360	3 626	2 808	.413	.48
August	103 330	7 220	2 090	3 333	2 938	.432	.50
September	85 820	4 530	1 920	2 861	2 494	.367	.41
Water year 1935-36	5 341 490	214 000	1 920	14 590	14 610	2.15	29.25

*Adjusted for change in contents in Lakes Hopatcong and Wallenpaupack and Toronto and Swinging Bridge Reservoirs, and for water diverted to Delaware & Raritan Canal and Trenton power race (prior to Nov. 15, 1935).

Delaware River at Trenton--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	121 530	6 280	2 580	3 920	3 663	0.539	0.62
November	212 680	24 800	3 350	7 089	7 094	1.04	1.16
December	409 510	27 500	3 100	13 210	13 780	2.03	2.34
Calendar year 1936	4 890 090	214 000	1 920	13 360	13 360	1.97	26.75
January 1937	751 100	49 600	14 200	24 230	25 080	3.69	4.25
February	513 500	60 500	10 100	18 340	18 980	2.79	2.90
March	378 020	18 700	7 740	12 190	12 390	1.82	2.10
April	761 900	49 600	11 900	25 400	26 210	3.86	4.31
May	487 820	36 600	8 860	15 740	15 920	2.34	2.70
June	289 230	23 000	6 280	9 641	9 710	1.43	1.60
July	198 540	11 300	3 810	6 405	6 154	.906	1.04
August	225 270	22 100	3 100	7 267	6 948	1.02	1.18
September	174 910	8 860	3 840	5 830	5 415	.797	.89
Water year 1936-37	4 524 010	60 500	2 580	12 390	12 570	1.85	25.09
October 1937	335 800	50 800	2 970	10 830	10 960	1.61	1.86
November	396 100	31 500	6 500	13 200	13 800	2.03	2.26
December	391 220	32 500	5 400	12 620	12 600	1.85	2.13
Calendar year 1937	4 903 413	60 500	2 970	13 430	13 630	2.01	27.22
January 1938	456 520	62 200	6 500	14 730	14 580	2.15	2.48
February	484 900	25 700	11 300	17 320	17 270	2.54	2.64
March	469 270	23 900	9 150	15 140	15 270	2.25	2.59
April	469 900	27 500	10 100	15 660	16 380	2.41	2.69
May	283 470	16 000	5 650	9 144	9 304	1.37	1.58
June	298 150	37 700	5 460	9 938	9 562	1.41	1.57
July	559 000	70 000	5 860	18 030	18 220	2.68	3.09
August	408 130	43 800	5 460	13 170	12 460	1.83	2.11
September	562 550	114 000	4 010	18 750	18 580	2.73	3.05
Water year 1937-38	5 115 010	114 000	2 970	14 010	14 050	2.07	28.05
October 1938	261 420	13 500	5 650	8 433	7 845	1.15	1.33
November	325 580	18 700	6 740	10 850	10 870	1.60	1.78
December	784 150	94 200	8 560	25 300	26 140	3.85	4.44
Calendar year 1938	5 363 040	114 000	4 010	14 690	14 700	2.16	29.35
January 1939	316 150	17 100	6 600	10 200	10 160	1.49	1.72
February	673 600	54 500	10 800	24 060	24 970	3.67	3.82
March	784 700	44 100	13 200	25 310	25 850	3.80	4.38
April	829 700	40 800	17 100	27 660	27 970	4.12	4.60
May	274 740	14 900	5 260	8 863	8 603	1.27	1.46
June	127 860	5 860	2 760	4 262	3 901	.574	.64
July	88 390	4 710	1 850	2 851	2 414	.355	.41
August	90 340	4 890	2 300	2 914	2 395	.352	.41
September	62 540	2 970	1 480	2 085	1 546	.227	.25
Water year 1938-39	4 619 170	94 200	1 480	12 660	12 640	1.86	25.24
October 1939	117 930	9 030	2 020	3 804	3 567	.525	.61
November	225 400	14 100	3 810	7 513	7 620	1.12	1.25
December	178 720	14 900	3 580	5 765	5 766	.848	.98
Calendar year 1939	3 770 070	54 500	1 480	10 330	10 280	1.51	20.53
January 1940	140 500	9 000	3 200	4 532	4 515	.664	.77
February	134 600	7 000	3 200	4 641	4 787	.704	.76
March	541 320	56 200	4 420	17 460	18 900	2.78	3.20
April	1 580 200	142 900	19 000	52 670	54 450	8.01	8.94
May	491 070	21 800	8 870	15 840	16 040	2.36	2.72
June	350 190	27 500	5 420	11 670	11 570	1.70	1.90
July	178 010	11 100	3 500	5 742	5 377	.791	.91
August	107 560	6 120	2 530	3 470	2 789	.410	.47
September	279 050	42 000	3 760	9 302	9 613	1.42	1.58
Water year 1939-40	4 324 550	142 900	2 020	11 820	12 030	1.77	24.09

*Adjusted for change in contents in Lakes Hopatcong and Wallenpaupack and Toronto, Cliff Lake (after November 1939), and Swinging Bridge Reservoirs and for water diverted to Delaware & Raritan Canal

Flat Brook near Flatbrookville

Location.- Water-stage recorder and concrete control, lat. 41°06'24", long. 74°57'09", 1 mile upstream from Flatbrookville, Sussex County, and 1½ miles upstream from mouth. Datum of gage is 347.73 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 65.1 square miles (revised).

Records available.- July 1923 to September 1940.

Average discharge.- 17 years, 109 second-feet.

Extremes.- 1923-40: Maximum discharge, 3,470 second-feet (revised) Apr. 7, 1924, and Feb. 11, 1925 (gage height, 7.1 feet, from floodmarks), from rating curve extended above 700 second-feet on basis of slope-area determination at gage height 6.5 feet; minimum, 4 second-feet Sept. 6 and 7, 1923 (gage height, 1.35 feet).

Peak gage height and discharge during period of this report.-
1934: Dec. 2 (3 to 4 a.m.) 4.10 ft., 850 sec.-ft.
1935: July 9 (7:45 p.m.) 5.04 ft., 1,440 sec.-ft.; Oct. 31 (9:45 and 10:45 a.m.) 6.66 ft., 2,960 sec.-ft.; Nov. 29 (11 a.m.) 4.85 ft., 1,300 sec.-ft.
1936: Mar. 12 (11:15 a.m.) 6.50 ft., 2,780 sec.-ft.; Mar. 18 (5:30 p.m.) 5.47 ft., 1,780 sec.-ft.
1937: May 15 (1 p.m.) 4.10 ft., 850 sec.-ft.; Nov. 14 (10 a.m.) 4.11 ft., 850 sec.-ft.
1938: Jan. 25 (6 p.m.) 5.62 ft., 1,890 sec.-ft.; June 28 (9 a.m.) 5.22 ft., 1,560 sec.-ft.; July 24 (2 a.m.) 6.14 ft., 2,400 sec.-ft.; Sept. 22 (3 a.m.) 7.03 ft., 3,390 sec.-ft.; Dec. 6 (1 p.m.) 6.37 ft., 2,620 sec.-ft.
1939: Feb. 16 (4 a.m.) 4.23 ft., 930 sec.-ft.
1940: Jan. 15 (3 p.m.) 5.47 ft. caused by ice jam; Mar. 15 (noon) 4.47 ft., 1,060 sec.-ft.; Mar. 31 (noon) 5.57 ft., 1,860 sec.-ft.; Apr. 9 (10 a.m.) 4.30 ft., 960 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	154	50	502	175	b73	148	126	76	37	84	51	22
2	102	68	683	131	72	145	120	66	35	61	50	22
3	84	58	371	84	72	167	112	65	34	51	48	23
4	70	142	281	70	70	180	105	72	34	45	47	61
5	63	320	230	66	70	167	100	74	38	43	43	170
6	207	187	190	72	65	268	98	78	45	40	38	74
7	270	145	164	78	70	329	93	111	47	37	37	50
8	164	123	136	122	63	230	90	151	40	87	38	40
9	126	107	110	246	61	180	115	117	72	1 080	37	40
10	105	98	102	474	61	173	139	98	72	955	36	72
11	93	88	95	311	60	201	117	93	51	489	43	51
12	86	82	90	211	b58	307	115	82	41	290	50	41
13	76	78	90	154	b56	311	158	76	36	230	43	37
14	70	76	86	151	56	226	148	76	34	164	78	40
15	66	70	80	123	119	190	131	70	33	139	58	40
16	61	68	80	123	151	197	123	65	25	180	44	34
17	60	72	80	112	154	253	117	61	24	123	38	32
18	54	76	76	112	126	201	107	58	146	100	36	30
19	54	72	106	100	115	173	98	54	105	84	34	29
20	56	66	253	98	102	161	93	51	144	76	32	30
21	47	60	154	107	90	187	88	50	100	76	29	28
22	61	60	123	117	88	197	84	48	82	72	28	29
23	66	63	110	105	84	164	82	48	70	83	28	27
24	60	159	98	82	82	151	78	50	56	131	26	26
25	53	136	93	80	96	134	74	47	50	105	24	25
26	53	100	110	b80	213	126	70	44	44	126	24	24
27	60	88	114	b78	222	115	66	41	43	88	23	24
28	56	88	93	b76	154	131	65	40	47	72	22	24
29	51	95	100	b75	-	215	65	37	52	63	22	27
30	48	149	84	b74	-	158	82	36	151	60	22	29
31	45	-	68	b73	-	131	-	37	-	54	22	-

b Stage-discharge relation affected by ice.

Flat Brook near Flatbrookville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	720	366	b58	b77	164	a200	120	a52	44	17.7	16.5
2	26	352	290	b60	b76	142	a220	105	51	40	17.1	16.0
3	a25	249	234	b354	b75	126	a200	98	48	37	16.5	16.0
4	a25	190	197	520	b75	117	a170	208	53	36	16.0	16.0
5	a25	164	154	269	b76	151	a160	158	48	35	15.4	15.4
6	a25	a150	148	194	b77	136	a700	126	44	33	16.0	14.8
7	a25	a133	128	173	b79	123	a1 000	112	45	28	17.1	14.8
8	24	a120	131	154	80	117	a700	110	44	28	16.5	14.8
9	24	a110	145	184	82	120	a500	98	36	28	15.4	14.2
10	23	a100	151	324	b79	178	333	134	33	27	16.0	14.2
11	22	a94	134	245	b78	623	324	139	34	26	17.7	14.2
12	22	a90	123	204	b77	2 220	307	112	35	25	17.7	14.2
13	22	a150	112	197	b80	1 220	290	102	46	24	16.5	13.6
14	22	170	110	197	b90	691	273	134	99	25	15.4	13.6
15	22	139	110	187	100	523	241	117	88	24	14.8	14.2
16	21	117	154	417	90	547	230	95	68	22	15.4	16.5
17	21	117	134	285	88	585	201	84	51	22	15.4	16.0
18	21	142	110	222	95	1 230	177	82	62	21	15.4	15.4
19	21	142	105	164	b80	1 300	167	159	219	22	14.8	15.4
20	21	180	100	154	b78	875	154	241	139	21	14.8	14.8
21	20	241	80	b140	b78	800	148	148	134	21	14.2	14.8
22	20	211	74	b150	b78	698	161	120	123	24	14.2	14.8
23	21	197	76	b120	b78	472	142	105	90	26	24	14.2
24	21	170	72	b100	78	381	128	93	78	27	59	14.2
25	21	148	65	b105	78	324	117	84	72	25	30	14.2
26	20	139	63	b100	115	277	115	76	63	22	22	14.2
27	21	131	b61	b93	161	281	110	a79	56	21	18.5	14.2
28	21	218	b59	b89	204	450	102	a79	54	20	17.1	13.6
29	21	1 030	b58	b85	173	a470	98	a68	50	19.4	18.5	13.6
30	197	586	b57	b83	-	a325	98	a53	47	19.4	19.4	16.5
31	1 810	-	b57	b80	-	a240	-	a44	-	18.5	17.7	-

a No gage-height record; discharge computed on basis of precipitation records and records for stations on nearby streams.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	63	17.7	16.5	128	294	126	158	145	70	110	27	51
2	48	17.7	18.5	102	208	120	161	136	63	88	24	45
3	28	18.5	40	141	151	115	158	126	61	70	22	41
4	21	20	50	177	136	110	142	117	76	68	20	53
5	18.5	54	40	120	139	110	134	112	65	54	19.4	86
6	16.5	60	36	102	131	105	362	110	62	43	18.5	78
7	16.0	43	123	100	123	98	304	105	136	44	18.5	60
8	16.5	37	86	115	115	88	265	98	82	40	23	48
9	15.5	44	70	123	120	90	237	93	65	37	36	44
10	16.0	43	60	123	142	78	261	88	56	34	33	40
11	17.1	35	77	142	115	76	204	84	54	33	26	37
12	16.5	32	201	117	100	72	177	78	51	34	41	36
13	15.4	30	139	107	105	76	154	74	47	33	32	37
14	15.0	29	98	100	132	74	139	129	48	30	24	73
15	16.5	28	82	175	167	72	139	656	63	38	21	56
16	16.0	27	68	219	128	70	136	312	45	64	19.4	44
17	35	26	102	154	107	72	126	269	40	47	18.5	38
18	54	24	100	259	98	74	115	230	51	36	19.4	41
19	36	23	66	253	93	76	112	190	70	32	19.4	37
20	28	23	348	187	90	82	105	170	54	29	19.4	35
21	25	22	351	167	90	160	112	151	57	27	24	33
22	32	22	194	364	527	184	269	131	212	26	82	40
23	54	21	127	500	444	177	281	123	123	25	340	32
24	33	21	123	338	269	170	208	123	74	24	153	27
25	27	20	110	513	211	222	170	110	60	23	90	26
26	25	20	100	528	173	249	151	95	51	24	63	26
27	24	21	93	343	161	184	184	88	47	26	86	26
28	22	20	88	253	131	167	230	110	47	24	167	26
29	21	18.5	78	230	-	145	197	100	53	22	93	27
30	20	17.8	70	197	-	151	164	84	47	22	68	26
31	18.5	-	80	208	-	154	-	74	-	34	60	-

Flat Brook near Flatbrookville--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	98	134	84	164	70	100	112	56	211	161	65
2	23	90	120	88	126	84	88	100	51	180	460	58
3	23	86	107	82	136	82	84	95	65	145	230	51
4	23	78	100	70	187	62	78	90	61	123	158	53
5	23	72	100	72	145	80	74	84	54	107	151	48
6	24	68	110	68	139	117	72	80	50	88	178	44
7	23	65	139	101	323	107	78	76	45	80	128	41
8	21	61	117	164	222	93	86	70	51	74	117	43
9	22	60	102	105	180	82	265	68	54	68	112	38
10	22	56	b75	b80	184	78	381	68	44	80	115	36
11	24	54	b65	86	154	70	298	65	40	70	228	35
12	26	51	b60	84	136	74	277	61	40	110	166	34
13	28	170	b55	82	145	76	237	60	87	88	112	36
14	25	733	b55	80	187	100	201	58	272	70	95	36
15	21	388	b55	74	154	117	177	277	158	70	86	46
16	19.4	249	b60	65	117	117	161	276	90	61	78	60
17	19.4	190	114	72	110	184	145	148	70	53	98	44
18	19.4	161	330	54	117	234	145	110	74	50	215	41
19	29	136	329	b50	120	184	187	95	61	72	215	76
20	135	131	215	b50	145	164	164	93	51	72	131	439
21	123	123	170	b55	117	154	329	88	47	102	107	1 000
22	74	110	148	b60	105	139	241	90	43	626	93	2 050
23	200	98	136	63	115	131	222	82	54	1 010	84	670
24	470	90	115	72	120	128	177	115	65	1 520	76	376
25	216	88	115	1 230	107	117	158	136	50	616	68	253
26	145	86	115	871	86	112	145	100	62	352	65	197
27	117	86	100	376	98	110	136	102	303	257	61	167
28	148	140	98	253	82	100	128	95	1 210	222	60	148
29	208	230	90	194	-	93	120	78	617	177	54	131
30	145	164	88	184	-	90	117	66	315	194	53	120
31	115	-	88	211	-	95	-	61	-	164	51	-

b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	115	80	117	76	131	610	241	148	45	32	17.7	14.8
2	102	74	110	78	107	362	632	136	41	27	16.5	14.8
3	93	74	102	80	167	269	508	126	40	23	16.5	14.2
4	88	74	454	74	311	237	348	117	37	20	20	13.6
5	84	80	604	68	197	245	273	110	38	20	25	14.8
6	86	105	1 840	302	173	294	286	98	35	20	22	14.8
7	100	107	910	290	154	245	477	93	33	20	17.7	14.2
8	84	100	523	204	139	197	302	93	32	18.5	16.5	13.6
9	76	102	412	164	128	187	257	95	32	20	16.0	13.6
10	72	100	417	145	123	187	226	115	32	18.5	16.0	14.8
11	68	88	329	136	161	161	211	98	32	18.5	14.8	14.2
12	66	82	273	120	158	148	290	88	32	18.5	14.2	13.6
13	63	78	234	110	145	154	226	82	32	17.1	14.2	13.6
14	61	80	204	102	148	145	194	82	51	16.5	14.8	13.1
15	61	76	180	100	285	145	180	78	41	16.0	15.4	12.5
16	60	70	151	95	701	219	167	74	34	15.4	14.2	12.5
17	56	80	148	95	333	245	158	70	30	14.8	13.6	11.9
18	54	86	145	90	285	197	177	68	28	14.8	13.1	11.0
19	54	90	139	88	265	158	234	63	27	14.8	14.2	11.0
20	58	190	126	74	294	154	285	61	29	14.2	30	11.0
21	182	148	115	84	324	161	219	60	30	14.8	27	11.5
22	110	126	107	86	253	151	204	98	26	14.2	19.4	11.9
23	84	128	93	b85	b175	148	187	120	25	13.6	16.5	11.5
24	112	131	100	82	b160	158	164	98	24	13.6	16.0	11.0
25	224	126	98	b80	b150	222	151	72	23	13.1	50	11.0
26	136	117	86	b70	251	261	145	63	22	13.1	30	10.6
27	112	126	107	70	391	222	148	58	22	13.6	22	11.0
28	102	123	b90	65	337	322	229	56	22	19.1	17.7	11.9
29	100	117	b75	65	-	329	190	58	21	26	16.5	13.1
30	95	115	b75	113	-	269	161	61	24	24	16.0	13.1
31	86	-	74	170	-	285	-	45	-	22	14.8	-

b Stage-discharge relation affected by ice.

Flat Brook near Flatbrookville--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.5	98	17.7	30	b25	34	945	148	281	88	24	536
2	17.7	58	18.5	b28	b25	32	541	151	294	68	22	311
3	21	38	30	b26	b25	33	381	145	230	60	20	172
4	23	30	34	b25	b25	78	433	190	187	74	19.4	110
5	19.4	33	27	b24	b25	78	386	177	180	80	19.4	82
6	16.5	171	24	b23	b25	70	298	142	154	70	19.4	65
7	14.8	123	23	b22	b27	63	249	128	131	56	21	56
8	14.2	82	22	b21	b26	54	297	117	115	48	19.4	48
9	13.6	61	21	b20	b25	50	810	126	110	44	17.7	50
10	13.1	48	21	b20	b25	48	494	123	110	44	17.7	50
11	12.5	44	26	b20	134	44	338	110	105	43	17.1	53
12	11.9	37	28	b21	70	42	364	107	98	93	16.5	44
13	11.9	34	26	b23	53	47	523	100	88	106	17.1	38
14	11.9	30	26	b35	41	70	362	93	78	65	18.5	36
15	11.5	29	23	b200	b40	813	298	88	70	51	18.5	34
16	11.9	28	24	b120	b38	424	290	122	82	44	17.7	32
17	11.5	27	24	b80	b37	261	249	559	72	43	17.1	30
18	11.5	26	26	b65	b36	245	249	315	65	40	17.1	29
19	11.9	24	29	b55	b35	290	241	226	65	37	18.5	27
20	11.9	24	43	b50	b35	371	375	194	61	36	20	27
21	12.5	23	131	b45	b35	483	736	329	54	34	17.7	26
22	31	22	84	b41	b36	376	740	249	50	33	17.1	27
23	29	21	61	b38	37	249	466	215	48	29	17.1	26
24	21	20	46	b36	37	187	348	201	84	29	19.4	25
25	18.5	20	49	b33	37	161	285	184	100	29	17.7	40
26	17.7	19.4	44	b31	33	139	245	180	88	28	24	82
27	18.5	18.5	b40	b30	31	139	219	170	100	27	28	48
28	24	18.5	b38	b29	b31	284	194	246	70	26	93	37
29	29	17.7	36	b28	34	352	173	281	215	27	98	33
30	24	17.7	35	b27	-	367	158	204	129	25	52	32
31	35	-	33	b26	-	1 360	-	244	-	25	83	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	2 621	270	45	84.5	1.30	1.50
November	3 044	320	50	101	1.55	1.73
December	4 952	683	68	160	2.46	2.84
Calendar year 1934	38 686	683	15.4	106	1.63	22.14
January 1935	3 960	474	66	128	1.97	2.27
February	2 703	222	56	96.5	1.48	1.54
March	5 916	329	115	191	2.93	3.38
April	3 059	158	65	102	1.57	1.75
May	2 072	151	36	66.8	1.03	1.19
June	1 788	151	24	59.6	.916	1.02
July	5 288	1 080	37	171	2.63	3.03
August	1 151	78	22	37.1	.570	.66
September	1 201	170	22	40.0	.614	.68
Water year 1934-35	37 755	1 080	22	103	1.58	21.59
October 1935	2 656	1 810	20	85.7	1.32	1.52
November	6 700	1 030	90	223	3.43	3.83
December	3 858	366	57	124	1.90	2.19
Calendar year 1935	40 352	1 810	20	111	1.71	23.06
January 1936	5 707	520	58	184	2.83	3.26
February	2 675	204	75	92.2	1.42	1.53
March	15 906	2 220	117	513	7.88	9.08
April	7 766	1 000	98	259	3.98	4.44
May	3 483	241	44	112	1.72	1.98
June	2 112	219	33	70.4	1.08	1.20
July	811.3	44	18.5	26.2	.402	.46
August	576.2	59	14.2	18.6	.286	.33
September	444.9	16.5	13.6	14.8	.227	.25
Water year 1935-36	52 695.4	2 220	13.6	144	2.21	30.07

Flat Brook near Flatbrookville--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	812.0	63	15.4	26.2	0.402	0.46
November	835.2	60	17.7	27.8	.427	.48
December	3 235.0	351	16.5	104	1.60	1.84
Calendar year 1936	44 363.6	2 220	13.6	121	1.86	25.31
January 1937	6 585	528	100	212	3.26	3.76
February	4 700	527	90	168	2.58	2.69
March	3 747	249	70	121	1.86	2.14
April	5 555	362	105	185	2.84	3.17
May	4 511	656	74	146	2.24	2.58
June	2 030	212	40	67.7	1.04	1.16
July	1 246	110	22	41.2	.633	.73
August	1 707.5	340	18.5	55.1	.846	.98
September	1 274	86	26	42.5	.653	.73
Water year 1936-37	36 237.7	656	15.4	99.3	1.53	20.72
October 1937	2 535.2	470	19.4	81.8	1.26	1.45
November	4 212	733	51	140	2.15	2.40
December	3 705	330	55	120	1.84	2.12
Calendar year 1937	41 807.7	733	18.5	115	1.77	23.91
January 1938	5 180	1 230	50	167	2.57	2.96
February	4 021	323	82	144	2.21	2.30
March	3 444	234	62	111	1.71	1.97
April	5 071	381	72	169	2.60	2.90
May	3 099	277	58	100	1.54	1.78
June	4 240	1 210	40	141	2.17	2.42
July	7 112	1 520	50	229	3.52	4.06
August	4 006	460	51	129	1.98	2.28
September	6 436	2 050	34	215	3.30	3.68
Water year 1937-38	53 061.2	2 050	19.4	145	2.23	30.32
October 1938	2 844	224	54	91.7	1.41	1.63
November	3 073	190	70	102	1.57	1.75
December	8 438	1 840	74	272	4.18	4.82
Calendar year 1938	56 964	2 050	34	156	2.40	32.55
January 1939	3 461	302	65	112	1.72	1.98
February	6 446	701	107	230	3.53	3.68
March	7 077	610	145	228	3.50	4.04
April	7 470	632	145	249	3.82	4.26
May	2 684	148	45	86.6	1.33	1.53
June	940	51	21	31.3	.481	.54
July	566.7	32	13.1	18.3	.281	.32
August	588.3	50	13.1	19.0	.292	.34
September	384.2	14.8	10.6	12.8	.197	.22
Water year 1938-39	43 972.2	1 840	10.6	120	1.84	25.11
October 1939	548.4	35	11.5	17.7	.272	.31
November	1 242.8	171	17.7	41.4	.636	.71
December	1 110.2	131	17.7	35.8	.550	.63
Calendar year 1939	32 518.6	701	10.6	89.1	1.37	18.56
January 1940	1 272	200	20	41.0	.630	.73
February	1 083	134	25	37.3	.573	.62
March	7 244	1 360	32	234	3.59	4.14
April	11 687	945	158	390	5.99	6.68
May	5 864	559	88	189	2.90	3.34
June	3 514	294	48	117	1.80	2.01
July	1 502	106	25	48.5	.745	.86
August	845.1	98	16.5	27.3	.419	.48
September	2 206	536	25	73.5	1.13	1.26
Water year 1939-40	38 118.5	1 360	11.5	104	1.60	21.77

Paulins Kill at Blairstown

Location.- Water-stage recorder and concrete control, lat. 40°58'44", long. 74°57'15", 1,200 feet upstream from bridge on State Highway 8 in Blairstown, Warren County, 1,400 feet upstream from Blairs Creek, and 10 miles (revised) upstream from mouth. Datum of gage is 335.86 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 126 square miles.

Records available.- October 1921 to September 1940.

Average discharge.- 19 years, 187 second-feet.

Extremes.- 1921-40: Maximum discharge, 4,480 second-feet Sept. 22, 1938 (gage height, 7.56 feet), from rating curve extended above 1,600 second-feet on basis of weir formula and slope-area determination at gage height 6.92 feet; minimum, about 2.8 second-feet (regulated) Nov. 1, 1922 (gage height, 1.34 feet, site and datum then in use); minimum daily, 5 second-feet Aug. 13 and 14, 1930.

Peak gage height and discharge during period of this report.-
1935: July 10 (1 to 2:30 a.m.) 5.76 ft., 2,060 sec.-ft.; Oct. 31 (10 a.m.) 5.37 ft., 1,800 sec.-ft.; Nov. 29 (2 p.m.) 5.00 ft., 1,560 sec.-ft.
1936: Mar. 12 (8:30 a.m.) 6.92 ft., 3,480 sec.-ft.; Mar. 19 (2 to 4 p.m.) 5.60 ft., 2,000 sec.-ft.; Apr. 6 (8 p.m.) 5.36 ft., 1,800 sec.-ft.
1937: Jan. 26 (5 to 5:30 a.m.) 4.04 ft., 1,070 sec.-ft.
1938: Jan. 26 (2 to 3 a.m.) 4.80 ft., 1,440 sec.-ft.; June 28 (8 a.m.) 7.08 ft., 3,700 sec.-ft.; July 24 (2 a.m.) 6.16 ft., 2,540 sec.-ft.; Sept. 22 (3 a.m.) 7.56 ft., 4,480 sec.-ft.; Dec. 6 (1 p.m.) 6.63 ft., 3,120 sec.-ft.
1939: Feb. 16 (5 a.m.) 4.75 ft., 1,410 sec.-ft.; Mar. 1 (5 a.m.) 4.27 ft., 1,150 sec.-ft.
1940: Mar. 15 (4 to 5 a.m.) 5.49 ft., 1,910 sec.-ft.; Mar. 31 (2 p.m.) 5.10 ft., 1,630 sec.-ft.; Apr. 9 (11 a.m. to 2 p.m.) 4.40 ft., 1,220 sec.-ft.; Apr. 22 (5 a.m.) 4.59 ft., 1,320 sec.-ft.

Remarks.- Flow regulated by Swartswood Lake and by power plant above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	308	98	432	165	b93	251	230	110	36	66	82	36
2	222	117	798	108	b91	244	220	100	34	52	81	40
3	185	102	571	114	b89	346	206	95	35	41	81	43
4	165	125	433	95	b88	358	188	99	32	38	74	174
5	150	223	344	90	b87	303	178	98	40	36	68	443
6	282	168	256	86	b87	372	171	105	51	31	81	336
7	407	140	235	117	b88	447	162	130	45	27	65	195
8	290	128	202	257	b90	332	216	151	43	71	51	111
9	231	123	161	302	96	276	226	117	60	1 270	45	118
10	197	104	143	732	93	266	219	107	63	1 800	51	191
11	181	100	136	557	92	309	209	103	51	1 380	77	162
12	173	95	b120	360	84	427	158	89	45	901	77	124
13	156	90	112	261	84	492	159	82	43	630	68	104
14	141	93	108	245	97	377	221	83	39	424	87	104
15	135	83	102	186	310	322	200	74	34	324	79	102
16	131	71	99	192	417	323	196	65	31	327	66	90
17	125	71	104	177	381	397	181	67	36	282	58	75
18	126	67	100	167	265	344	168	61	68	229	51	68
19	120	66	124	139	228	298	152	57	85	190	47	72
20	110	67	256	147	211	287	138	53	143	192	a45	72
21	110	63	204	154	182	342	133	51	113	166	a45	68
22	123	65	160	176	168	399	127	49	91	149	a45	78
23	124	64	139	173	159	321	121	51	79	163	a45	68
24	111	118	127	118	152	297	118	51	63	245	46	58
25	105	124	114	b118	186	267	112	51	54	217	39	54
26	106	99	142	b114	527	247	104	43	45	226	38	51
27	114	89	169	b109	516	219	97	45	44	172	38	54
28	103	128	138	b105	317	233	94	38	58	134	42	61
29	98	177	125	b101	-	367	97	39	48	120	43	79
30	95	231	112	b98	-	298	107	39	72	87	39	75
31	90	-	109	b95	-	251	-	38	-	83	38	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.

Paulins Kill at Blairstown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62	1 040	818	b108	b149	329	433	199	75	108	24	53
2	72	760	659	b115	b148	297	410	185	74	98	25	46
3	69	542	522	b500	b147	278	422	177	70	88	33	34
4	64	402	429	872	b146	280	367	316	79	85	22	27
5	56	342	325	638	b146	369	328	292	77	81	28	26
6	60	310	302	415	b147	347	1 200	224	69	74	29	35
7	56	268	266	340	b150	316	1 410	195	61	78	36	54
8	53	271	258	301	b160	300	1 020	186	62	64	26	55
9	52	245	282	333	b165	312	786	169	59	63	30	55
10	51	212	295	538	b160	536	770	161	57	54	27	52
11	49	197	276	438	b150	1 490	770	144	59	60	35	51
12	54	187	256	367	b150	3 240	770	137	66	43	39	49
13	50	283	233	372	b155	2 440	720	133	104	47	25	50
14	59	321	224	397	b180	1 570	674	173	156	48	28	45
15	52	267	214	383	b200	1 180	576	152	152	50	31	48
16	51	234	a300	770	b178	1 010	538	130	126	38	28	51
17	45	248	279	557	b170	956	457	111	94	40	31	37
18	38	295	254	420	b185	1 520	402	108	125	35	25	31
19	33	326	247	329	b160	1,920	362	193	275	38	18.7	35
20	43	364	239	315	b150	1 700	334	279	209	40	24	31
21	45	500	b160	b270	b148	1 560	318	195	700	44	24	38
22	43	472	b140	b300	b145	1 350	331	152	595	35	25	35
23	50	441	b130	b250	b145	1 000	292	130	355	35	a45	36
24	51	373	b122	b200	b145	834	266	122	238	33	72	36
25	59	323	b115	b215	b148	737	238	115	195	31	76	38
26	44	308	b110	b200	b220	628	225	101	165	30	67	32
27	48	298	b107	b185	b330	693	216	106	144	40	58	32
28	43	406	b106	b175	b400	884	201	105	137	33	56	34
29	50	1 360	b105	b167	b350	703	192	103	126	35	62	34
30	239	1 100	b105	b160	-	576	192	85	115	35	75	40
31	1 460	-	b106	b155	-	503	-	64	-	36	60	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	84	23	17.5	233	509	245	241	237	106	215	52	85
2	83	19.7	17.1	194	440	233	233	216	105	212	43	71
3	51	22	41	257	b300	224	224	199	95	166	40	65
4	a45	29	60	280	b270	216	207	186	105	140	41	60
5	a40	47	46	220	280	216	199	169	94	122	32	87
6	a35	49	45	182	261	203	336	173	125	110	35	112
7	a35	38	174	177	249	190	391	186	225	99	33	91
8	a35	36	105	203	241	177	306	169	174	a90	37	74
9	a35	46	70	224	245	177	284	152	128	a85	47	a65
10	a35	39	56	245	284	156	299	156	111	a80	38	a60
11	38	35	79	269	241	148	265	141	109	a75	46	a56
12	33	34	233	233	212	141	229	126	93	70	66	a54
13	29	27	170	207	203	141	216	130	82	67	61	a54
14	28	26	122	199	249	141	203	235	85	61	51	a85
15	19.0	26	102	302	273	144	220	795	89	98	42	a75
16	15.3	34	90	414	237	141	229	630	78	118	40	a65
17	34	28	203	313	203	144	199	427	70	99	36	a60
18	63	30	210	430	186	144	182	347	92	80	36	58
19	50	24	132	440	156	156	173	303	248	71	42	56
20	38	18.6	469	353	165	182	156	273	200	61	44	54
21	33	17.8	489	310	173	303	177	241	188	61	34	49
22	29	26	296	544	661	430	432	216	738	55	46	47
23	29	30	223	850	731	427	509	233	581	53	444	41
24	28	27	186	712	492	381	375	216	340	49	297	41
25	25	17.8	190	870	388	417	310	186	228	49	174	41
26	27	21	182	990	327	474	280	159	182	51	128	41
27	26	29	152	770	306	369	284	152	158	73	127	40
28	28	22	148	558	265	330	334	167	157	62	171	33
29	15.9	18.3	137	474	292	292	317	152	157	51	130	45
30	16.1	27	126	424	-	273	265	137	142	48	106	36
31	21	-	158	457	-	257	-	122	-	68	92	-

a No gage-height record; discharge computed on basis of records for Flat Brook near Flatbrookville and Pequest River at Pequest.
b Stage-discharge relation affected by ice.

Paulins Kill at Blairstown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	122	199	186	288	b160	186	144	75	790	a380	126
2	32	111	177	182	237	173	173	133	68	598	a400	117
3	25	104	156	173	237	165	156	126	76	430	a350	98
4	33	94	144	165	273	a170	133	122	79	337	a300	93
5	38	91	144	156	241	a180	141	115	70	280	a300	92
6	31	85	237	144	233	a200	137	108	66	222	a400	85
7	34	78	237	161	495	a220	148	101	62	212	a350	78
8	35	78	220	194	401	a210	169	94	84	186	a280	86
9	29	72	207	203	324	a190	401	92	83	169	a260	90
10	26	73	194	194	327	a180	544	95	70	165	224	74
11	38	71	b170	186	284	a170	457	92	73	156	559	69
12	33	67	b140	182	249	a170	372	85	82	265	440	66
13	32	198	b120	173	261	a180	324	79	86	241	310	68
14	31	790	b100	165	303	a220	284	79	164	194	233	70
15	33	598	84	152	277	257	265	254	166	173	a200	110
16	29	394	92	128	229	257	249	299	117	148	a190	135
17	25	306	117	116	207	350	224	199	92	130	a220	110
18	30	257	273	b110	203	420	233	148	103	118	a470	99
19	34	229	284	b100	220	375	a380	126	106	161	a500	146
20	104	220	292	111	273	341	a310	115	81	173	a320	701
21	108	212	269	118	245	324	a320	115	66	540	a210	1 750
22	76	194	245	121	220	295	a290	122	61	1 050	a190	3 140
23	169	173	241	113	220	273	a260	126	191	1 510	169	a1 800
24	375	156	229	131	265	261	a240	141	232	2 040	150	a1 000
25	217	144	224	841	241	241	a210	173	144	1 270	136	a800
26	165	141	220	1 130	207	220	194	137	220	910	123	a700
27	133	141	216	598	203	212	177	148	901	673	114	a550
28	173	194	212	366	190	194	169	137	2 880	544	109	a450
29	220	280	203	288	-	177	156	118	1 770	457	100	a350
30	173	233	190	265	-	177	148	101	1 130	474	96	313
31	144	-	186	299	-	182	-	85	-	a400	98	-

a No gage-height record; discharge computed on basis of records for Pequest River at Pequest.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	280	140	221	199	277	1 070	430	274	77	89	35	24
2	249	136	213	195	257	828	800	261	63	59	30	23
3	229	130	197	191	333	598	790	257	51	47	37	22
4	207	124	498	182	524	509	598	249	49	41	46	25
5	194	128	797	174	473	509	474	218	47	43	46	25
6	200	160	2 380	349	397	598	554	119	73	41	40	27
7	230	182	1 770	331	358	562	910	137	66	45	39	24
8	208	168	1 270	349	330	427	712	239	61	44	27	23
9	187	178	990	320	316	394	a620	241	62	42	32	22
10	169	169	910	295	314	394	a520	265	58	40	27	25
11	143	151	750	288	377	334	430	248	62	38	33	22
12	148	142	598	273	388	320	526	149	69	34	28	22
13	142	136	509	261	366	327	440	110	68	33	30	25
14	137	133	430	257	385	317	369	133	139	34	32	21
15	133	124	384	253	618	327	347	152	140	36	29	22
16	126	121	330	245	1 170	468	320	144	100	20	27	20
17	123	129	304	237	781	562	306	132	77	28	27	20
18	115	144	300	229	617	474	372	129	64	24	26	17
19	109	165	296	220	562	385	521	120	62	35	21	13
20	122	294	277	216	544	366	636	115	68	21	53	21
21	251	253	254	214	562	366	526	112	62	29	46	28
22	220	214	253	200	457	344	457	235	51	34	37	26
23	179	203	261	b210	361	324	397	257	47	20	28	26
24	202	214	252	210	337	324	353	236	46	24	29	23
25	305	195	245	173	306	347	324	219	43	27	70	26
26	244	211	237	b180	356	334	310	203	45	24	62	23
27	207	223	266	86	580	320	306	115	40	24	42	24
28	190	219	248	93	633	469	377	100	44	42	32	25
29	177	214	229	102	-	526	342	101	37	51	27	23
30	161	213	220	186	-	457	298	83	68	51	33	31
31	144	-	208	219	-	509	-	87	-	38	27	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for Pequest River at Pequest.
b Stage-discharge relation affected by ice.

Paulins Kill at Blairstown--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	87	162	35	58	40	136	1 150	286	449	155	a60	652
2	74	138	38	53	45	126	789	286	563	126	a52	762
3	69	69	68	55	43	127	598	278	561	113	a50	598
4	60	43	67	62	32	274	666	332	448	128	a47	370
5	49	76	56	50	46	214	633	307	355	124	a45	268
6	41	336	45	39	44	214	497	264	306	104	a46	207
7	37	248	40	30	46	209	412	242	250	89	48	173
8	34	165	a40	37	38	206	476	218	234	81	43	155
9	34	126	41	36	37	213	1 120	218	229	74	37	156
10	32	100	40	36	53	207	926	210	238	70	35	155
11	33	90	49	44	142	195	658	191	218	78	29	143
12	30	79	a50	44	127	183	666	195	200	149	33	128
13	24	74	44	44	141	181	920	161	172	175	30	117
14	24	69	46	53	106	269	787	165	162	125	39	94
15	28	61	43	175	b95	1 430	618	159	145	95	35	79
16	21	56	38	139	b90	1 230	552	183	157	84	32	74
17	23	51	40	b140	b85	743	481	448	140	77	28	69
18	25	50	49	b130	b80	603	470	343	127	70	28	64
19	18.9	46	54	b120	77	696	447	273	124	67	33	58
20	30	48	79	b100	81	884	667	252	123	60	37	45
21	26	43	199	84	76	950	1 160	466	109	56	34	52
22	57	40	180	68	61	723	1 220	436	97	54	31	56
23	63	44	160	60	54	501	934	367	90	50	27	52
24	40	a40	152	55	51	382	708	333	133	47	26	47
25	34	a37	143	53	52	327	574	305	166	47	26	96
26	33	a35	138	48	51	280	487	281	167	46	44	185
27	32	a35	123	47	48	267	414	263	174	50	55	130
28	36	a35	b100	44	50	497	364	306	143	52	233	109
29	52	a35	78	46	65	637	325	346	233	84	302	113
30	43	35	56	44	-	561	302	283	200	93	222	106
31	72	-	54	44	-	1 400	-	330	-	72	203	-

a No gage-height record; discharge computed on basis of records for Pequest River at Pequest.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	5 014	407	90	162	1.29	1.49
November	3 289	231	63	110	.873	.97
December	6 375	798	99	206	1.63	1.88
Calendar year 1934	60 529	1 230	24	166	1.32	17.88
January 1935	5 858	732	86	189	1.50	1.73
February	5 278	527	84	188	1.49	1.55
March	10 012	492	219	323	2.56	2.95
April	4 908	230	94	164	1.30	1.45
May	2 341	151	38	75.5	.599	.69
June	1 681	143	31	56.0	.444	.50
July	10 073	1 800	27	325	2.58	2.97
August	1 792	87	38	57.8	.459	.53
September	3 306	443	36	110	.873	.97
Water year 1934-35	59 927	1 800	27	164	1.30	17.68
October 1935	3 201	1 460	33	103	.817	.94
November	12 695	1 360	187	423	3.36	3.75
December	7 984	818	105	258	2.05	2.36
Calendar year 1935	69 129	1 800	27	189	1.50	20.39
January 1936	10 785	872	108	348	2.76	3.18
February	5 227	400	145	180	1.43	1.54
March	29 858	3 240	278	963	7.64	8.81
April	15 220	1 410	192	507	4.02	4.48
May	4 942	316	64	159	1.26	1.45
June	4 819	700	57	161	1.28	1.43
July	1 619	108	30	52.2	.414	.48
August	1 184.7	76	18.7	38.2	.303	.35
September	1 220	55	26	40.7	.323	.36
Water year 1935-36	98 754.7	3,240	18.7	270	2.14	29.13

Paulins Kill at Blairstown--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	1 103.3	84	15.3	35.6	0.283	0.33
November	867.2	49	17.8	28.9	.229	.26
December	4 728.6	489	17.1	153	1.21	1.40
Calendar year 1936	81 573.8	3 240	15.3	223	1.77	24.07
January 1937	12 334	990	177	398	3.16	3.64
February	8 547	731	156	305	2.42	2.52
March	7 472	474	141	241	1.91	2.20
April	8 075	509	156	269	2.13	2.38
May	7 231	795	122	233	1.85	2.13
June	5 285	738	70	176	1.40	1.56
July	2 739	215	48	88.4	.702	.81
August	2 611	444	32	84.2	.668	.77
September	1 801	112	33	60.0	.476	.53
Water year 1936-37	62 794.1	990	15.3	172	1.37	18.53
October 1937	2 660	375	25	85.8	.681	.79
November	5 906	790	67	197	1.56	1.74
December	6 022	292	84	194	1.54	1.78
Calendar year 1937	70 683	990	25	194	1.54	20.85
January 1938	7 451	1 130	100	240	1.90	2.19
February	7 353	495	190	263	2.09	2.18
March	7 144	420	160	230	1.83	2.11
April	7 450	544	133	248	1.97	2.20
May	4 009	299	79	129	1.02	1.18
June	9 448	2 880	61	315	2.50	2.79
July	15 016	2 040	118	484	3.84	4.43
August	8 181	559	96	264	2.10	2.42
September	13 364	3 140	66	445	3.53	3.94
Water year 1937-38	94 004	3 140	25	258	2.05	27.75
October 1938	5 731	305	109	185	1.47	1.70
November	5 213	294	121	174	1.38	1.54
December	16 097	2 380	197	519	4.12	4.75
Calendar year 1938	106 457	3 140	61	292	2.32	31.43
January 1939	6 937	349	86	224	1.78	2.05
February	12 979	1 170	257	464	3.68	3.83
March	14 089	1 070	317	454	3.60	4.15
April	14 365	910	298	479	3.80	4.24
May	5 440	274	83	175	1.39	1.60
June	1 939	140	37	64.6	.513	.57
July	1 158	89	20	37.4	.297	.34
August	1 098	70	21	35.4	.281	.32
September	698	31	13	23.3	.185	.21
Water year 1938-39	85 744	2 380	13	235	1.87	25.30
October 1939	1 261.9	87	18.9	40.7	.323	.37
November	2 466	336	35	82.2	.652	.73
December	2 345	199	35	75.6	.600	.69
Calendar year 1939	64 775.9	1 170	13	177	1.40	19.10
January 1940	2 038	175	30	65.7	.521	.60
February	1 956	142	32	67.4	.535	.58
March	14 865	1 430	126	480	3.81	4.39
April	20 021	1 220	302	667	5.29	5.90
May	8 727	466	159	282	2.24	2.58
June	6 713	563	90	224	1.78	1.99
July	2 695	175	46	86.9	.690	.80
August	1 990	302	26	64.2	.510	.59
September	5 313	762	45	177	1.40	1.56
Water year 1939-40	70 390.9	1 430	18.9	192	1.52	20.78

Pequest River at Huntsville

Location.- Water-stage recorder and concrete control, lat. 40°58'49", long. 74°46'38", at highway bridge in Huntsville, Sussex County, three-eighths of a mile downstream from East Branch of Pequest River. Datum of gage is 553.81 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 31.4 square miles.

Records available.- November 1939 to September 1940.

Extremes.- 1939-40: Maximum discharge, 278 second-feet Mar. 15, 1940 (gage height, 3.81 feet); minimum observed, 5.4 second-feet Jan. 8, 9, 13, and 30, 1940.

Daily discharge, in second-feet, 1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	8.8	a10	a6	a14	180	96	115	38	16.3	82
2		-	10.8	a10	a6	a13	145	88	133	33	13.7	98
3		13.1	13.1	h9.8	a6.5	a15	124	86	133	29	11.9	72
4		11.9	12.5	h9.3	a7	h47	133	96	115	30	10.8	55
5		22	12.5	h7.4	a7.5	42	126	92	102	30	9.8	47
6		48	11.9	h7.0	h8.3	41	111	80	92	27	9.3	37
7		40	10.8	h6.6	8.8	41	100	72	82	24	10.8	31
8		30	10.3	h5.4	8.8	40	104	67	72	21	9.8	28
9		25	9.8	h5.4	8.8	41	180	65	69	20	8.8	27
10		22	10.3	h6.2	11.4	41	172	62	69	18.4	8.3	27
11		20	11.9	h7.0	34	39	145	57	63	21	7.8	27
12		17.0	11.1	a6	24	36	145	57	60	38	7.0	25
13		14.3	10.8	h5.4	21	36	185	52	55	36	7.4	22
14		14.3	10.8	a9	12.2	43	172	48	51	29	8.3	21
15		14.3	9.8	a35	11.8	238	150	47	47	26	7.8	20
16		13.7	9.8	a32	21	212	135	50	47	21	7.8	18.4
17		13.7	9.8	a25	25	159	126	72	41	20	7.4	17.0
18		13.1	11.4	b20	22	138	122	37	39	19.2	7.0	16.3
19		12.5	11.4	a17	21	145	119	57	40	17.7	7.8	15.6
20		13.7	17.8	a14	23	164	145	65	40	16.3	9.3	15.6
21		12.5	29	a12	23	172	198	164	36	16.3	7.8	14.9
22		11.9	24	h9.8	21	152	209	174	32	14.3	6.6	14.3
23		11.4	19.4	a10	18.4	122	185	138	30	13.7	6.6	13.7
24		10.8	a16	a10	17.7	98	164	122	39	13.1	6.2	13.7
25		11.4	a15	a11	17.0	90	147	104	50	12.5	5.8	21
26		9.8	a13	h11.9	17.1	78	135	94	50	11.4	9.0	37
27		10.3	a12	a11	17.7	74	124	88	48	13.1	9.8	28
28		10.8	a11.5	a9	h15.6	80	115	100	40	20	30	22
29		9.3	a11	a7	a15	88	109	106	48	26	35	20
30		9.3	a10.5	h5.4	-	94	102	92	42	22	26	17.7
31		-	b10	a5.5	-	172	-	102	-	18.4	30	-

a No gage-height record; discharge computed on basis of records for station at Pequest.
b Stage-discharge relation affected by ice.
h Computed from staff-gage readings.

Monthly discharge, in second-feet, 1939-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1939						
November 3-30	466.1	48	9.3	16.6	0.529	0.55
December	396.8	29	8.8	12.8	.408	.47
Calendar year	-	-	-	-	-	-
January 1940	350.1	35	5.4	11.3	.360	.42
February	456.6	34	6	15.7	.500	.54
March	2 765	238	13	89.2	2.84	3.27
April	4 307	209	100	144	4.59	5.12
May	2 660	174	47	85.8	2.73	3.15
June	1 880	133	30	62.7	2.00	2.23
July	695.4	38	11.4	22.4	.713	.82
August	359.9	35	5.8	11.6	.369	.43
September	904.2	98	13.7	30.1	.959	1.07
Water year	-	-	-	-	-	-

Pequest River at Pequest

Location.- Water-stage recorder and concrete control, lat. 40°49'43", long. 74°58'45", at Pequest, Warren County, 100 feet upstream from Lehigh & Hudson River Railway bridge and 300 feet downstream from Furnace Brook. Datum of gage is 398.78 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 108 square miles.

Records available.- November 1921 to September 1940.

Average discharge.- 19 years, 148 second-feet.

Extremes.- 1921-40: Maximum discharge, 1,810 second-feet Mar. 14, 1936 (gage height, 4.97 feet), from rating curve extended above 1,200 second-feet; minimum, 16 second-feet Sept. 20, 21, 1924, and Aug. 7, 1926 (gage height, 0.31 foot).

Peak gage height and discharge during period of this report.-
1935: July 10 (5:30 to 8:30 a.m.) 3.42 ft., 730 sec.-ft.; Nov. 29 (9 a.m. to 2 p.m.) 3.30 ft., 678 sec.-ft.
1936: Jan. 3 (5 p.m.) 3.48 ft., 780 sec.-ft.; Jan. 5 (4 p.m.) 3.20 ft., 629 sec.-ft.; Mar. 14 (5:30 a.m.) 4.97 ft., 1,810 sec.-ft.; Mar. 18 (1 to 5 a.m.) 3.93 ft., 1,030 sec.-ft.; Mar. 21-22 (noon to 4 a.m.) 3.99 ft., 1,060 sec.-ft.; Apr. 6-7 (10 p.m. to 2 a.m.) 3.48 ft., 780 sec.-ft.
1937: Feb. 22 (1 to 6 p.m.) 3.13 ft., 596 sec.-ft.
1938: Jan. 25 (3 to 9 p.m.) 3.16 ft., 610 sec.-ft.; June 28 (8 to 9 a.m.) 3.28 ft., 678 sec.-ft.; July 22 (2 a.m.) 3.34 ft., 703 sec.-ft.; July 23-24 (12 p.m. to 5 a.m.) 3.34 ft., 703 sec.-ft.; Sept. 22 (1 to 2 a.m.) 3.82 ft., 948 sec.-ft.; sometime between Dec. 5 and 9, 3.36 ft., 787 sec.-ft.
1939: Feb. 4 (1 a.m.) 3.06 ft., 619 sec.-ft.; Mar. 1 (1 to 9 a.m.) 3.07 ft., 624 sec.-ft.; Apr. 7 (3 to 9 a.m.) 3.09 ft., 635 sec.-ft.
1940: Mar. 15 (5 to 7 a.m.) 4.17 ft., 1,330 sec.-ft.; Apr. 21-22 (9 p.m. to 6 a.m.) 3.08 ft., 629 sec.-ft.; May 21 (5 to 7 a.m.) 3.30 ft., 752 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	243	81	368	166	a80	224	188	99	46	68	108	48
2	168	93	383	138	a80	236	182	91	45	55	114	47
3	129	88	314	155	a80	283	170	91	45	47	120	61
4	108	124	293	104	a80	269	160	91	45	43	112	132
5	99	190	250	99	a80	243	155	99	48	42	99	354
6	189	155	218	122	a82	263	152	99	51	40	88	283
7	246	133	193	129	83	286	147	108	50	41	84	193
8	188	116	168	163	81	263	140	112	48	83	83	138
9	147	106	122	201	84	227	165	97	61	325	78	114
10	126	102	118	418	93	221	185	90	60	705	75	126
11	118	99	116	365	97	263	165	90	55	630	86	114
12	108	91	86	276	91	365	157	83	48	630	90	95
13	100	90	112	205	95	372	179	80	45	655	84	83
14	95	91	110	190	112	321	179	80	42	582	76	80
15	90	86	110	118	293	276	165	80	41	475	73	78
16	88	86	110	160	332	280	163	75	41	365	68	72
17	84	84	108	152	354	290	152	70	42	286	67	68
18	84	83	106	150	310	263	142	68	56	243	64	64
19	84	78	139	114	240	243	136	62	70	205	61	62
20	81	76	250	136	208	233	126	61	100	188	58	66
21	78	78	218	150	168	280	120	61	86	173	56	66
22	84	76	173	176	165	304	120	60	78	157	56	62
23	91	81	152	155	155	263	118	61	66	160	56	60
24	86	143	138	74	147	246	112	58	56	214	54	62
25	81	133	129	112	173	224	106	58	51	211	51	64
26	83	106	168	a100	346	208	95	55	47	211	47	61
27	88	99	152	a90	307	190	91	52	46	168	48	58
28	86	100	142	a85	250	199	91	51	70	142	47	60
29	80	106	145	a82	-	259	86	48	75	129	46	64
30	76	184	118	a81	-	233	99	50	100	118	47	64
31	75	-	87	a80	-	199	-	47	-	110	50	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.

Pequest River at Pequest--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	455	554	91	136	269	395	188	80	95	38	40
2	58	332	488	93	126	263	376	179	75	84	37	37
3	60	253	414	450	122	250	376	176	78	80	35	36
4	55	214	342	536	122	263	350	240	88	75	35	34
5	52	190	269	527	122	339	321	246	80	72	35	35
6	51	170	273	442	120	314	600	211	73	70	35	34
7	51	155	240	339	112	273	754	190	68	67	36	32
8	51	160	236	276	112	259	703	173	67	64	35	32
9	50	155	246	286	112	290	678	163	66	61	34	35
10	50	145	256	383	112	461	654	155	62	58	32	31
11	47	136	250	339	110	876	620	142	70	55	37	31
12	47	131	233	297	110	1 240	568	136	78	54	37	30
13	47	173	221	293	110	1 610	545	131	125	52	35	30
14	46	170	218	293	106	1 740	507	170	157	55	34	29
15	46	150	214	296	102	1 490	421	157	145	56	35	29
16	46	138	253	463	110	1 160	383	133	120	52	35	29
17	45	150	221	368	114	948	357	122	99	50	34	27
18	46	196	182	310	122	979	332	116	162	50	31	28
19	60	250	168	211	b110	979	310	126	246	50	30	31
20	61	314	165	120	b100	979	293	152	170	52	30	29
21	60	328	114	193	b100	1 040	280	131	150	50	29	28
22	58	283	106	246	b102	1 040	283	114	173	48	30	29
23	58	266	129	a210	b105	979	269	106	173	46	a73	30
24	58	233	114	a190	110	890	250	95	140	47	a100	26
25	60	214	99	a170	112	780	230	91	129	47	a80	28
26	55	198	112	a165	147	678	221	88	116	45	a57	28
27	55	190	93	a165	211	629	214	90	102	42	48	27
28	46	257	99	a165	246	654	205	95	102	43	43	27
29	45	654	90	163	253	591	205	88	97	43	43	27
30	159	610	88	152	-	527	196	84	90	40	50	30
31	502	-	91	147	-	450	-	83	-	40	45	-

a No gage-height record; discharge computed on basis of records for Paulins Kill at Blairstown.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	28	27	193	402	211	190	190	106	147	81	93
2	61	28	34	160	335	196	182	165	100	140	62	83
3	43	27	64	208	221	190	173	155	95	124	55	76
4	42	31	58	208	221	185	165	145	97	112	50	76
5	32	48	52	157	230	185	163	138	93	100	47	83
6	35	43	52	133	208	182	283	142	96	99	48	95
7	34	42	175	154	202	170	280	157	335	91	45	86
8	34	42	102	205	196	163	236	145	246	81	42	76
9	32	48	80	205	202	163	221	140	147	83	42	70
10	34	46	73	208	227	150	243	140	118	72	43	66
11	34	41	90	224	199	145	214	133	114	73	52	66
12	31	38	188	190	176	138	199	124	110	73	128	62
13	30	37	142	170	170	140	185	122	100	64	150	64
14	32	36	106	160	202	140	182	230	104	64	99	76
15	32	37	88	253	214	136	185	479	106	88	73	73
16	29	35	81	304	190	126	188	410	95	102	61	67
17	42	35	195	243	163	131	173	342	86	99	55	61
18	58	32	173	350	150	136	157	293	95	83	52	62
19	54	31	116	310	140	147	150	256	136	72	74	58
20	47	32	344	256	140	160	138	230	120	70	104	58
21	40	32	339	240	145	338	152	208	119	62	70	55
22	35	30	250	328	516	438	324	188	404	58	68	54
23	29	31	157	437	510	350	346	173	402	56	338	50
24	32	35	150	395	391	290	280	165	283	52	430	47
25	34	29	136	471	321	290	240	147	190	48	290	50
26	29	38	129	492	273	293	218	138	150	64	185	50
27	32	29	124	446	259	259	243	131	133	97	179	43
28	30	27	122	368	227	236	256	138	124	73	179	43
29	29	32	114	335	-	218	240	136	129	58	136	46
30	30	30	108	310	-	205	214	126	124	54	114	50
31	29	-	135	328	-	196	-	114	-	100	104	-

Pequest River at Pequest--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	102	157	140	236	129	168	124	76	514	361	108
2	48	97	142	147	196	196	155	118	72	484	365	102
3	47	95	131	142	199	176	145	112	70	402	310	97
4	48	97	124	124	250	140	138	110	72	314	276	91
5	a48	97	120	114	224	170	131	104	72	259	256	84
6	a50	95	148	116	208	205	124	99	68	214	337	80
7	a48	95	193	208	361	202	131	95	70	182	350	76
8	a46	95	140	250	304	185	160	90	93	160	280	78
9	a44	95	124	163	263	173	305	90	91	145	259	76
10	a55	93	b90	133	269	168	346	104	78	133	233	73
11	a60	88	b85	133	233	157	273	106	75	152	250	70
12	a55	81	b80	126	205	155	233	97	89	297	230	68
13	a50	240	b75	124	218	160	211	90	126	256	221	70
14	a46	518	b75	122	256	236	193	88	140	233	211	68
15	a42	395	b80	118	230	328	176	210	133	221	188	88
16	a38	300	88	99	182	293	165	214	112	196	168	97
17	a38	253	114	b90	170	321	160	165	91	163	160	93
18	a38	230	277	80	168	346	183	126	91	145	160	88
19	a70	208	269	80	188	297	276	110	83	140	152	110
20	a150	196	221	b85	266	263	233	106	73	217	147	379
21	a110	185	199	b90	233	263	240	102	68	442	140	660
22	90	165	182	95	202	221	218	99	67	654	129	862
23	200	150	176	100	208	205	202	100	76	654	120	834
24	293	142	163	120	246	196	182	99	84	678	114	834
25	196	138	157	542	230	188	168	114	75	654	106	807
26	142	136	157	564	202	179	157	104	117	629	100	728
27	120	133	142	442	196	176	150	124	465	606	97	629
28	158	172	131	332	179	165	140	122	654	554	93	510
29	176	218	126	263	-	157	129	106	597	514	90	380
30	142	179	120	236	-	155	124	91	536	479	88	290
31	118	-	116	250	-	160	-	81	-	402	88	-

a No gage-height record; discharge computed on basis of records for Paulins Kill at Blairstown.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	c259	c145	a167	178	235	614	321	276	89	86	40	33
2	c236	c142	a150	175	239	562	484	256	87	78	37	30
3	c218	c136	a150	178	379	499	461	239	80	65	35	27
4	c196	144	a400	172	582	434	386	226	76	59	37	27
5	c188	148	a600	164	430	417	345	210	75	55	39	27
6	c182	154	a700	387	378	461	403	204	71	56	36	34
7	c211	161	a760	408	341	434	619	192	66	58	34	28
8	c202	156	a740	325	329	378	557	186	65	56	36	29
9	c185	167	a720	270	329	349	489	183	65	52	37	32
10	c173	164	a700	248	333	337	425	192	61	48	35	31
11	c160	159	a660	235	421	306	395	183	70	47	34	30
12	c157	151	a580	216	374	284	439	170	76	43	32	28
13	c168	144	a520	195	329	295	395	159	76	42	31	33
14	c163	141	a450	161	321	310	353	161	160	44	35	30
15	c160	a140	a350	172	386	337	325	154	154	43	34	29
16	c160	a130	a310	175	547	499	302	141	115	35	32	27
17	c152	a140	a290	183	412	527	302	138	91	34	31	25
18	c145	a150	a280	172	417	425	434	131	84	39	30	24
19	c142	a180	a266	154	417	353	452	120	78	36	34	23
20	c145	a220	259	138	408	329	475	115	84	35	47	27
21	c205	a200	245	148	386	310	425	118	80	33	51	27
22	c202	a180	229	156	361	295	391	159	73	32	40	27
23	c179	a170	198	109	287	280	353	164	68	33	35	25
24	c206	a160	198	151	280	273	329	144	63	33	34	24
25	c276	a160	201	154	270	262	310	127	63	36	61	24
26	c205	a100	192	93	325	256	295	113	56	40	48	26
27	c176	a140	306	134	425	245	291	105	56	39	39	25
28	c160	a160	245	122	461	370	374	101	56	44	36	25
29	c155	a170	210	122	-	357	357	97	54	45	34	26
30	c160	a170	219	210	-	345	310	91	66	47	33	41
31	c150	-	186	329	-	365	-	86	-	47	33	-

a Faulty or no gage-height record; discharge computed on basis of recorded range in stage and records for stations on nearby streams, especially Paulins Kill at Blairstown.
c Intake pipe partly plugged; discharge computed on basis of recorder graph and correction indicated by simultaneous readings of hook and staff gages.

Pequest River at Pequest--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	127	39	40	34	65	448	245	370	124	65	357
2	75	89	45	42	34	59	399	242	421	109	58	310
3	76	66	66	40	34	65	345	239	345	103	55	242
4	68	56	63	39	35	195	382	266	310	109	51	180
5	50	66	56	36	35	266	345	245	280	107	50	141
6	39	208	52	35	36	226	298	219	252	95	56	118
7	45	159	51	34	39	210	262	201	229	87	63	103
8	32	113	47	34	42	186	312	180	207	82	54	93
9	32	89	44	33	40	180	542	180	220	78	50	105
10	34	76	45	32	45	180	489	172	235	75	47	101
11	30	71	59	30	136	146	434	161	204	82	44	93
12	35	65	56	29	115	131	434	159	189	151	43	86
13	31	61	50	32	89	148	499	154	178	141	56	78
14	31	56	52	44	63	220	484	146	159	109	73	75
15	32	54	47	200	26	1 060	452	141	151	a93	55	73
16	29	51	51	133	29	735	395	160	154	a86	47	70
17	26	51	51	97	45	701	349	259	141	a80	45	66
18	27	55	56	76	52	678	341	213	134	a76	47	63
19	26	56	58	65	58	598	333	175	131	a72	51	61
20	27	56	84	56	78	494	471	236	129	a68	61	58
21	28	55	156	52	91	434	598	706	120	a64	52	58
22	33	55	107	50	91	386	614	651	111	a62	45	58
23	48	50	71	45	82	321	577	587	107	a60	44	55
24	37	45	58	45	80	248	537	448	122	a60	42	54
25	34	40	61	44	76	232	475	337	141	a70	40	96
26	35	42	61	42	71	204	395	295	151	a90	52	161
27	39	42	45	37	71	192	345	270	161	a100	65	118
28	42	40	50	35	71	201	313	370	136	a86	134	93
29	43	44	47	35	66	216	287	391	161	80	170	78
30	42	37	47	35	-	251	270	302	144	86	129	71
31	70	-	45	35	-	475	-	337	-	75	131	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for Beaver Brook near Belvidere.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	3 483	246	75	112	1.04	1.19
November	3 158	190	76	105	.972	1.08
December	5 296	383	86	171	1.58	1.82
Calendar year 1934	50 453	559	31	138	1.28	17.35
January 1935	4 746	418	74	153	1.42	1.64
February	4 666	354	80	167	1.55	1.61
March	8 026	372	190	259	2.40	2.77
April	4 246	188	86	142	1.31	1.46
May	2 327	112	47	75.1	.695	.80
June	1 714	100	41	57.1	.529	.59
July	7 501	705	40	242	2.24	2.58
August	2 246	120	46	72.5	.671	.77
September	2 899	354	47	96.6	.894	1.00
Water year 1934-35	50 308	705	40	138	1.28	17.31
October 1935	2 181	502	45	70.4	.652	.75
November	7 270	654	131	242	2.24	2.50
December	6 578	554	88	212	1.96	2.26
Calendar year 1935	54 400	705	40	149	1.38	18.73
January 1936	8 379	536	91	270	2.50	2.88
February	3 676	253	100	127	1.18	1.27
March	23 240	1 740	250	750	6.94	8.00
April	11 896	754	196	397	3.68	4.11
May	4 371	246	83	141	1.31	1.51
June	3 381	246	62	113	1.05	1.17
July	1 743	95	40	56.2	.520	.60
August	1 288	100	29	41.5	.384	.44
September	919	40	26	30.6	.283	.32
Water year 1935-36	74 922	1 740	26	205	1.90	25.81

Pequest River at Pequest--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	1 144	61	29	36.9	0.342	0.39
November	1 050	48	27	35.0	.324	.36
December	4 004	344	27	129	1.19	1.37
Calendar year 1936	65 091	1 740	26	178	1.65	22.42
January 1937	8 441	492	133	272	2.52	2.90
February	6 830	516	140	244	2.26	2.35
March	6 307	438	126	203	1.88	2.17
April	6 420	346	138	214	1.98	2.21
May	5 800	479	114	187	1.73	1.99
June	4 557	404	86	152	1.41	1.57
July	2 559	147	48	82.5	.764	.88
August	3 456	430	42	111	1.03	1.19
September	1 939	95	43	64.6	.598	.67
Water year 1936-37	52 507	516	27	144	1.33	18.05
October 1937	2 818	293	38	90.9	.842	.97
November	5 088	518	81	170	1.57	1.75
December	4 402	277	75	142	1.31	1.51
Calendar year 1937	58 617	518	38	161	1.49	20.16
January 1938	5 628	564	80	182	1.69	1.95
February	6 322	361	168	226	2.09	2.18
March	6 338	346	129	204	1.89	2.18
April	5 616	346	124	187	1.73	1.93
May	3 500	214	81	113	1.05	1.21
June	4 504	654	67	150	1.39	1.55
July	11 093	678	133	358	3.31	3.82
August	6 079	365	88	196	1.81	2.09
September	8 530	862	68	284	2.63	2.93
Water year 1937-38	69 918	862	38	192	1.78	24.07
October 1938	5 676	276	142	183	1.69	1.95
November	4 682	220	100	156	1.44	1.61
December	11 481	760	150	370	3.43	3.95
Calendar year 1938	79 449	862	67	218	2.02	27.35
January 1939	6 034	408	93	195	1.81	2.09
February	10 402	582	235	372	3.44	3.58
March	11 508	614	245	371	3.44	3.97
April	11 797	619	291	393	3.64	4.06
May	4 941	276	86	159	1.47	1.70
June	2 358	160	54	78.6	.728	.81
July	1 440	86	32	46.5	.431	.50
August	1 150	61	30	37.1	.344	.40
September	844	41	23	28.1	.260	.29
Water year 1938-39	72 313	760	23	198	1.83	24.91
October 1939	1 287	91	26	41.5	.384	.44
November	2 075	208	37	69.2	.641	.72
December	1 820	156	39	58.7	.544	.63
Calendar year 1939	55 656	619	23	152	1.41	19.19
January 1940	1 582	200	29	51.0	.472	.54
February	1 764	136	26	60.8	.563	.61
March	9 703	1 060	59	313	2.90	3.34
April	12 425	614	262	414	3.83	4.27
May	8 687	706	141	280	2.59	2.99
June	5 793	421	107	193	1.79	2.00
July	2 760	151	60	89.0	.824	.95
August	1 975	170	40	63.7	.590	.68
September	3 315	357	54	110	1.02	1.14
Water year 1939-40	53 186	1 060	26	145	1.34	18.31

Errata in Special Report 5.- On page 213: the daily discharge for Nov. 10, 1932, should be 374 second-feet. On page 215: October 1932, correct figures are: maximum, 446; mean, 261; per square mile, 2.42; run-off in inches, 2.70. For calendar year 1932: maximum, 446; mean, 104; per square mile, 0.963; run-off in inches, 13.18. For year ending Sept. 30, 1933: run-off in inches, 24.61.

Beaver Brook near Belvidere

Location.- Water-stage recorder, lat. 40°50'40", long. 75°02'48", 2,000 feet (revised) upstream from mouth and 2 miles east of Belvidere, Warren County. Datum of gage is 303.36 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 36.2 square miles (revised).

Records available.- May 1922 to September 1940.

Average discharge.- 18 years, 50.4 second-feet.

Extremes.- 1922-40: Maximum discharge, 1,510 second-feet Mar. 12, 1936 (gage height, 5.76 feet), by slope-area and contracted-opening methods; minimum, 1.6 second-feet Sept. 25 and 26, 1932 (gage height, 1.16 feet).

Peak gage height and discharge during period of this report.-
1935: July 10 (5 a.m.) 4.20 ft., 760 sec.-ft.
1936: Mar. 12 (6 a.m.) 5.76 ft., 1,510 sec.-ft.; Mar. 18 (10 p.m.) 3.44 ft., 438 sec.-ft.; Apr. 6 (11 p.m.) 3.48 ft., 454 sec.-ft.
1937: June 22 (11 p.m.) 3.15 ft., 306 sec.-ft.
1938: July 23 (3 p.m.) 3.32 ft., 371 sec.-ft.; Sept. 22 (8 a.m.) 3.81 ft., 586 sec.-ft.; Dec. 5-10 (peak probably occurred during this period of no gage-height record).
1940: Mar. 15 (1 p.m.) 4.80 ft., 1,020 sec.-ft.; Apr. 22 (6 to 12 a.m.) 3.31 ft., 329 sec.-ft.

Remarks.- Diurnal fluctuation caused by small power plant above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	20	93	38	a27	63	63	27	7.7	9.2	28	8.8
2	37	26	102	42	a28	71	59	24	6.6	6.9	37	8.1
3	33	21	98	42	a33	68	55	25	6.4	6.0	44	10.8
4	28	33	88	33	28	63	51	25	7.8	5.4	37	44
5	26	55	73	b25	b26	62	50	25	7.3	5.2	29	102
6	50	35	60	27	b26	73	48	25	8.3	6.8	25	100
7	62	34	54	33	b26	67	45	29	8.7	5.6	23	65
8	39	32	46	47	b26	60	44	30	8.8	63	22	47
9	34	30	b38	51	b27	58	56	24	9.2	278	20	43
10	30	29	b32	106	23	60	53	22	10.8	628	18.2	55
11	29	27	b29	102	26	74	46	21	10.0	382	29	44
12	28	27	b28	79	24	106	47	19.4	9.2	239	29	38
13	25	26	29	63	24	97	52	18.8	7.2	180	23	33
14	24	26	29	60	42	82	47	16.2	6.5	133	21	33
15	24	23	29	b53	106	82	45	17.7	5.8	98	18.2	32
16	22	23	28	50	97	86	42	14.6	6.2	95	16.6	28
17	21	22	30	46	117	88	40	14.1	4.9	81	16.0	25
18	20	22	29	44	100	79	38	14.1	8.5	67	14.6	23
19	20	23	38	42	76	76	36	12.2	13.6	58	14.6	25
20	18.8	21	63	39	65	74	33	11.7	21	53	14.1	29
21	18.2	21	44	40	55	88	31	11.7	15.5	47	13.2	25
22	25	21	40	46	51	98	32	10.8	15.5	45	12.7	24
23	25	22	36	41	46	84	29	10.8	12.2	50	12.7	22
24	23	40	33	b36	a54	84	29	11.7	10.0	60	11.3	20
25	21	37	31	b34	108	76	27	10.4	8.8	53	10.5	18.2
26	22	32	38	b39	90	70	26	9.6	7.7	53	9.4	17.7
27	25	28	44	b33	76	64	23	9.2	6.3	42	10.4	17.2
28	23	29	b37	b30	62	72	22	9.2	9.4	38	9.2	17.2
29	20	29	34	b32	-	84	23	8.5	9.4	34	8.8	21
30	18.2	61	33	a30	-	70	29	7.7	9.6	32	10.4	19.4
31	17.7	-	b31	a28	-	64	-	7.3	-	29	9.6	-

a No gage-height record; discharge computed on basis of records for Pequest River at Pequest.
b Stage-discharge relation affected by ice.

Beaver Brook near Belvidere--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17.7	133	248	26	b45	b66	121	46	15.0	31	5.2	6.4
2	19.4	112	211	25	b42	b70	115	44	14.1	26	5.0	5.7
3	17.2	91	160	b185	b39	64	117	43	14.1	24	4.C	6.3
4	13.2	79	125	220	38	72	100	58	18.2	22	4.8	5.8
5	15.0	70	106	160	39	82	91	47	14.6	19.9	4.6	5.3
6	14.6	67	98	130	b37	81	249	40	13.2	18.8	5.1	4.9
7	15.0	59	89	112	36	84	395	39	11.3	15.5	5.5	4.3
8	13.2	59	97	108	b40	96	308	38	11.3	14.8	5.1	5.2
9	14.6	55	98	117	b39	108	238	38	11.3	14.6	4.6	6.7
10	13.2	52	95	140	b30	175	227	33	10.0	13.6	4.1	4.6
11	13.2	52	86	140	b27	857	211	a32	10.0	12.7	5.7	4.6
12	13.3	51	82	135	b27	1 370	189	a34	11.3	12.2	5.4	4.6
13	11.7	67	73	130	b28	714	177	a32	a26	10.4	4.8	4.8
14	12.2	64	67	123	29	450	163	a51	a45	10.4	4.5	4.0
15	12.7	59	64	130	28	349	140	a46	35	10.0	4.9	4.3
16	11.7	55	73	155	b23	276	130	22	26	9.2	4.3	4.8
17	10.8	84	71	147	23	243	115	28	20	8.5	3.8	4.7
18	11.3	89	59	128	29	366	106	a25	90	8.5	3.8	4.6
19	11.5	106	48	b90	b24	422	98	a38	150	7.7	4.6	6.8
20	10.4	106	45	b60	b24	338	91	a65	133	7.7	4.0	4.3
21	10.4	135	b36	b50	b24	372	84	a48	93	8.2	4.1	3.5
22	14.0	135	b34	b45	b24	334	88	a38	70	6.9	3.8	3.5
23	13.2	125	b34	b42	b25	256	76	a27	54	7.3	13.0	4.9
24	13.4	112	b32	b40	26	234	70	20	43	7.3	37	6.8
25	21	102	b31	b40	29	204	63	18.8	46	8.3	14.4	3.9
26	23	100	b30	b40	40	158	59	17.7	39	8.3	8.5	4.0
27	22	95	b29	b40	59	139	56	13.2	35	5.7	6.9	5.7
28	21	93	b27	b40	b60	214	52	19.4	35	6.0	6.3	3.8
29	18.2	217	b26	b41	b61	180	51	17.2	33	5.7	8.6	4.0
30	76	279	b26	b42	-	155	43	16.0	30	5.4	9.6	5.7
31	140	-	b26	b43	-	137	-	15.5	-	5.3	8.1	-

a No gage-height record; discharge computed on basis of records for Flat Brook near Flatbrookville and other nearby streams.

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.6	8.5	b8	68	142	79	63	55	28	78	24	57
2	13.6	8.5	b10	55	112	76	61	49	23	61	13.8	52
3	10.0	10.0	37	71	b80	73	57	47	26	51	16.0	49
4	8.8	9.2	29	73	b70	70	54	43	26	46	14.1	43
5	8.1	15.5	27	b60	73	68	52	40	24	40	13.2	44
6	8.1	15.0	30	b50	68	64	94	44	44	36	12.6	46
7	8.5	13.2	74	65	64	80	83	49	113	32	11.3	39
8	8.1	12.2	b50	91	63	58	69	40	70	29	11.3	34
9	7.3	16.0	b40	76	64	58	70	39	47	28	15.0	32
10	8.8	14.1	36	73	84	52	72	38	39	27	15.5	30
11	8.5	12.7	45	86	70	51	62	33	36	29	27	29
12	7.3	12.7	73	76	63	48	57	31	31	28	63	28
13	8.5	11.7	56	73	63	47	54	33	29	26	52	29
14	8.1	11.3	46	70	76	48	51	36	32	24	33	31
15	7.7	10.8	43	106	74	46	52	129	30	36	27	28
16	8.8	10.8	40	123	65	44	52	107	27	39	24	27
17	11.7	12.2	73	104	59	48	46	88	25	39	21	26
18	16.0	10.8	62	123	54	48	42	91	35	30	13.8	26
19	13.6	b10.0	b50	121	52	51	41	72	101	27	43	25
20	12.2	9.2	97	106	51	58	37	66	83	25	37	24
21	11.3	10.4	89	98	53	97	48	53	73	23	26	23
22	11.7	10.0	63	121	163	121	97	52	216	19.4	26	21
23	10.0	9.2	b55	160	169	112	91	49	237	19.2	127	19.9
24	9.6	10.4	52	152	142	104	73	47	159	17.2	217	19.4
25	9.6	b9.5	48	130	125	108	69	42	129	15.5	144	18.8
26	8.8	b9.0	47	211	108	106	63	36	95	29	113	18.2
27	10.4	b8.5	45	136	102	93	75	35	78	31	113	17.7
28	9.2	b8.5	44	152	86	86	76	37	72	22	107	16.6
29	9.6	b8.0	41	135	-	79	68	32	70	17.7	83	17.7
30	8.1	b8.0	39	121	-	74	60	30	63	16.0	70	16.6
31	9.6	-	50	117	-	70	-	28	-	27	63	-

b Stage-discharge relation affected by ice.

Beaver Brook near Belvidere--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.6	30	49	50	b72	b61	57	37	18.1	a160	93	27
2	15.0	29	44	50	b56	56	51	35	15.7	a130	109	26
3	14.6	28	41	48	65	55	48	32	17.1	109	84	21
4	15.5	27	38	41	81	49	44	32	18.5	86	72	20
5	14.6	26	37	41	65	56	41	30	16.2	72	66	18.5
6	15.0	26	51	40	69	62	40	29	15.7	61	97	17.1
7	14.6	25	61	63	120	55	43	26	15.4	51	84	16.6
8	13.2	25	44	75	103	52	55	25	20	46	69	17.1
9	12.7	24	b36	b56	90	51	102	26	17.6	41	63	16.2
10	14.6	23	b32	b52	93	49	107	30	14.8	39	57	14.8
11	16.1	22	b30	50	76	47	91	28	17.7	51	68	14.4
12	13.2	23	b28	49	69	47	83	25	20	99	56	14.0
13	13.5	65	b27	48	83	47	76	23	21	66	47	14.4
14	12.7	134	b26	47	103	85	72	24	37	48	42	14.4
15	12.2	122	b27	44	83	91	66	74	30	51	40	21
16	11.6	101	28	b38	68	76	61	57	23	43	35	23
17	10.8	90	40	b32	63	107	57	39	19.0	37	54	19.0
18	11.3	79	96	b27	65	124	63	32	19.0	32	91	18.1
19	18.2	72	87	b26	70	115	88	30	16.2	37	78	26
20	41	70	70	b27	103	111	69	28	14.4	49	56	93
21	34	65	63	b29	79	103	75	27	12.7	133	48	204
22	27	58	58	32	66	97	68	24	12.3	278	41	511
23	52	52	57	33	75	88	61	25	14.4	325	37	399
24	68	48	51	53	95	83	55	25	23	348	32	290
25	44	44	52	207	72	78	52	27	14.4	299	29	217
26	35	44	51	204	62	72	49	26	a25	240	26	174
27	32	43	47	b148	63	69	44	30	a60	195	25	142
28	46	55	47	b98	b57	63	43	28	a220	158	24	119
29	47	66	43	b83	-	60	40	24	267	141	22	100
30	37	54	42	75	-	57	38	21	a210	124	21	88
31	32	-	42	86	-	60	-	19.0	-	101	22	-

a No gage-height record; discharge computed on basis of records for Flat Brook near Flatbrookville.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	81	36	54	44	b75	244	123	68	17.6	32	4.5	6.2
2	68	36	51	45	75	228	177	61	19.3	19.0	4.3	5.9
3	62	35	48	46	120	198	198	55	16.5	14.0	6.7	5.4
4	57	34	126	43	198	172	177	52	15.0	11.2	16.9	5.0
5	53	36	a250	41	186	163	155	47	15.0	11.6	11.3	5.6
6	57	39	a600	101	161	175	163	45	13.5	11.7	7.5	6.6
7	75	44	a450	103	142	155	260	42	12.1	12.9	6.2	6.4
8	58	39	a350	86	130	128	232	40	11.6	11.2	6.2	5.4
9	52	41	a250	77	125	118	201	40	11.2	9.1	6.5	7.8
10	48	38	a240	73	123	114	172	47	10.3	7.9	6.2	7.9
11	44	36	219	72	148	96	158	40	11.2	6.2	5.4	6.5
12	41	35	186	65	152	88	169	39	12.5	6.2	5.4	5.9
13	38	33	166	58	142	96	148	36	12.5	6.2	4.7	5.7
14	36	35	145	52	140	99	123	36	31	6.2	7.5	6.2
15	35	32	121	b50	152	105	109	34	23	5.9	7.4	4.7
16	33	31	101	b48	213	150	101	32	17.6	5.4	5.9	5.2
17	31	32	94	b46	195	166	101	31	14.5	5.0	5.6	4.3
18	31	35	92	b44	177	152	140	29	13.5	5.0	5.3	3.9
19	29	38	88	b42	169	135	138	28	12.5	4.7	4.9	3.7
20	33	58	79	b36	155	130	132	25	14.0	4.7	12.9	3.7
21	67	48	72	b40	140	123	116	26	13.5	4.5	11.9	4.5
22	47	44	65	b40	123	112	112	39	10.3	4.3	8.7	4.1
23	39	43	57	b40	96	103	103	36	9.1	4.3	7.1	4.1
24	52	48	55	b45	86	96	94	31	9.1	3.7	7.5	3.4
25	68	b45	54	39	82	90	84	26	8.3	4.1	25	3.2
26	53	b40	51	b35	105	84	81	25	7.9	4.3	17.7	3.4
27	48	50	93	b35	142	79	79	24	7.2	4.3	12.3	3.1
28	45	53	b65	b35	148	128	96	21	6.8	4.7	10.3	3.2
29	45	48	b50	31	-	130	84	21	7.2	5.2	7.9	3.4
30	43	51	b45	67	-	118	73	19.3	11.9	5.4	6.8	5.4
31	39	-	45	102	-	138	-	19.3	-	5.2	6.8	-

a No gage-height record; discharge computed on basis of records for Flat Brook near Flatbrookville.
b Stage-discharge relation affected by ice.

Beaver Brook near Belvidere--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.6	45	10.7	b16	b10.5	20	153	83	87	32	14.5	69
2	14.1	31	15.0	b15	b10.5	18.2	128	81	119	27	12.5	63
3	15.6	25	25	b14	b10.5	22	111	77	98	26	11.1	47
4	15.1	22	23	b13	b11	150	126	80	85	30	10.2	36
5	11.5	25	16.7	b12.5	b11	160	120	69	76	31	9.8	32
6	9.5	69	14.6	b11.5	b13	110	103	62	69	25	10.6	27
7	8.3	50	14.6	b11	b14	108	92	56	59	21	11.1	24
8	7.1	43	13.2	b10	15.6	90	110	50	53	19.8	11.1	21
9	6.5	38	11.5	b10	14.1	78	225	50	76	13.0	9.8	28
10	5.9	35	11.5	b9.5	19.6	80	210	47	68	16.8	8.6	26
11	5.7	33	20	b9.5	81	63	173	43	58	26	7.8	23
12	5.4	30	16.8	b9.5	39	59	167	42	55	79	7.4	19.8
13	5.7	30	13.7	b10	27	59	225	39	50	57	11.0	18.6
14	5.0	26	13.7	17.7	14.6	119	198	38	45	37	13.5	16.8
15	4.5	25	14.8	102	b15	762	170	36	44	30	10.2	15.1
16	4.3	25	a15	b50	b16	379	146	45	45	26	8.6	15.1
17	5.2	25	a15.5	b35	b17	226	130	94	39	23	8.2	14.0
18	4.7	22	a16	b25	19.8	170	124	64	37	21	7.8	13.0
19	5.2	22	16.7	b20	22	160	119	56	36	19.2	8.6	12.6
20	5.4	22	25	b17	30	158	162	62	32	16.8	12.0	12.0
21	5.0	17.2	57	b16	32	144	283	120	29	15.1	9.8	12.4
22	8.1	15.6	40	b15	32	124	318	92	27	14.0	8.6	10.1
23	9.9	14.6	33	b14	35	100	267	83	26	13.5	7.8	8.6
24	8.2	14.6	b30	b13	30	87	210	77	30	13.5	7.8	9.4
25	7.1	13.2	b27	b12	24	76	175	70	38	22	7.4	26
26	7.1	11.9	b25	b11	27	67	144	68	35	32	12.1	44
27	6.2	12.3	b23	b10.5	b27	64	124	64	38	52	16.2	25
28	7.9	11.9	b21	b10.5	b27	69	110	69	30	27	45	22
29	10.7	11.9	b20	b10.5	27	69	97	64	46	23	55	17.4
30	9.9	12.3	b18	b10.5	-	75	88	54	40	21	37	15.6
31	21	-	b17	b10.5	-	156	-	74	-	17.4	39	-

a No gage-height record; discharge interpolated.
b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	858.9	62	17.7	27.7	0.765	0.88
November	875	61	20	29.2	.807	.90
December	1 417	102	28	45.7	1.26	1.45
Calendar year 1934	15 065.2	171	3.4	41.3	1.14	15.53
January 1935	1 411	106	25	45.5	1.26	1.45
February	1 489	117	23	53.2	1.47	1.53
March	2 343	106	58	75.6	2.09	2.41
April	1 221	63	22	40.7	1.12	1.25
May	524.7	30	7.3	16.9	.467	.54
June	278.9	21	4.9	9.30	.257	.29
July	2 883.1	628	5.2	93.0	2.57	2.96
August	597.5	44	8.8	19.3	.533	.61
September	995.4	102	8.1	33.2	.917	1.02
Water year 1934-35	14 894.5	628	4.9	40.8	1.13	15.29
October 1935	660.1	140	10.4	21.3	.588	.68
November	2 883	279	51	96.1	2.65	2.96
December	2 326	248	26	75.0	2.07	2.39
Calendar year 1935	17 612.7	628	4.9	48.3	1.33	18.09
January 1936	2 929	220	25	94.5	2.61	3.01
February	1 005	61	24	34.7	.959	1.03
March	8 785	1 370	64	283	7.82	9.02
April	4 028	395	48	134	3.70	4.13
May	1 063.8	65	15.5	34.3	.948	1.09
June	1 162.4	150	10.0	38.7	1.07	1.19
July	367.7	31	5.3	11.9	.329	.38
August	214.1	37	3.8	6.91	.191	.22
September	145.0	6.7	3.5	4.83	.133	.15
Water year 1935-36	25 569.1	1 370	3.5	69.9	1.93	26.25

Beaver Brook near Belvidere--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	308.2	16.6	7.3	9.94	0.275	0.32
November	325.9	16.0	8.0	10.9	.301	.34
December	1 504	97	8	48.5	1.34	1.54
Calendar year 1936	21 838.1	1 370	3.5	59.7	1.65	22.42
January 1937	3 308	211	50	107	2.96	3.41
February	2 395	169	51	85.5	2.36	2.46
March	2 195	121	44	70.8	1.96	2.26
April	1 894	97	37	63.1	1.74	1.94
May	1 598	129	28	51.5	1.42	1.64
June	2 076	237	24	69.2	1.91	2.13
July	969.0	78	15.5	31.3	.865	1.00
August	1 586.6	217	11.3	51.2	1.41	1.63
September	886.9	57	16.6	29.6	.818	.91
Water year 1936-37	19 046.6	237	7.3	52.2	1.44	19.58
October 1937	761.0	68	10.8	24.5	.677	.78
November	1 570	134	22	52.3	1.44	1.61
December	1 445	96	26	46.6	1.29	1.49
Calendar year 1937	20 684.5	237	10.8	56.7	1.57	21.26
January 1938	1 952	207	26	63.0	1.74	2.01
February	2 166	120	56	77.4	2.14	2.23
March	2 226	124	47	71.8	1.98	2.28
April	1 839	107	38	61.3	1.69	1.89
May	938.0	74	19.0	30.3	.837	.96
June	1 245.2	267	12.3	41.5	1.15	1.28
July	3 650	348	32	118	3.26	3.76
August	1 688	109	21	54.5	1.51	1.74
September	2 695.6	511	14.0	89.9	2.48	2.77
Water year 1937-38	22 175.8	511	10.8	60.8	1.68	22.80
October 1938	1 508	81	29	48.6	1.34	1.54
November	1 213	58	31	40.4	1.12	1.25
December	4 362	600	45	141	3.90	4.50
Calendar year 1938	25 482.8	600	12.3	69.8	1.93	26.21
January 1939	1 681	103	31	54.2	1.50	1.73
February	3 900	213	75	139	3.84	4.00
March	4 113	244	79	133	3.67	4.23
April	4 099	260	73	137	3.78	4.22
May	1 114.6	68	19.3	36.0	.994	1.15
June	395.7	31	6.8	13.2	.365	.41
July	246.1	32	3.7	7.94	.219	.25
August	263.3	25	4.3	8.49	.235	.27
September	149.8	7.9	3.1	4.99	.138	.15
Water year 1938-39	23 045.5	600	3.1	63.1	1.74	23.70
October 1939	261.4	21	4.3	8.43	.233	.27
November	778.5	69	11.9	26.0	.718	.80
December	634.0	57	10.7	20.5	.566	.65
Calendar year 1939	17 636.4	260	3.1	48.3	1.33	18.13
January 1940	551.7	102	9.5	17.8	.492	.57
February	672.2	81	10.5	23.2	.641	.69
March	4 022.2	762	18.2	130	3.59	4.14
April	4 808	318	88	160	4.42	4.93
May	2 009	120	36	64.8	1.79	2.06
June	1 570	119	26	52.3	1.44	1.61
July	832.1	79	13.5	26.8	.740	.85
August	450.1	55	7.4	14.5	.401	.46
September	723.5	69	8.6	24.1	.666	.74
Water year 1939-40	17 312.7	762	4.3	47.3	1.31	17.77

Lake Hopatcong at Landing

Location.- Water-stage recorder since June 24, 1928, lat. 40°55'00", long. 74°39'50", in gate house of Lake Hopatcong Dam at Landing, Morris County. Datum of gage is 914.57 feet above mean sea level (New Jersey Geological Survey datum). Prior to June 24, 1928, daily gage heights obtained by measuring from high-water mark to water surface; gage heights converted to datum of present gage.

Drainage area.- 25.6 square miles.

Records available.- February 1887 to September 1940.

Extremes.- 1887-1940: Maximum gage height, 10.10 feet 10 to 11 a.m. Apr. 20, 1933 (caused by strong wind); minimum observed, 1.78 feet Nov. 23, 1909.

Remarks.- Daily gage height was determined in the morning prior to June 24, 1928 and thereafter at 8 a.m. from recorder graph.

Cooperation.- Record to June 24, 1928 furnished by Morris Canal & Banking Co. and, after that date, collected in cooperation with that company.

Daily gage height, in feet, 1887-1940

1887

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	8.42	8.69	9.19	8.88	8.65	9.40	8.82
2					-	8.40	8.63	9.19	8.92	8.61	9.48	8.78
3					-	8.34	8.55	9.19	8.94	8.57	9.53	8.74
4					-	7.65	8.57	9.21	8.92	8.57	9.57	8.69
5					-	7.65	8.61	9.21	8.90	8.48	9.57	8.65
6					-	8.26	8.67	9.19	8.92	8.78	9.57	8.61
7					-	8.26	8.67	9.21	8.92	8.92	9.57	8.57
8					-	8.32	8.69	9.21	8.92	8.94	9.57	8.53
9					-	8.36	8.69	9.23	8.92	8.92	9.53	8.46
10					-	8.42	8.67	9.23	8.92	8.94	9.48	8.40
11					-	8.51	8.69	9.21	8.90	8.94	9.44	8.36
12					-	8.55	8.71	9.19	8.88	8.90	9.46	8.36
13					-	8.57	8.74	9.13	8.92	8.88	9.42	8.40
14					-	8.67	8.71	9.09	8.80	8.84	9.38	8.36
15					-	8.67	8.74	9.07	8.74	8.82	9.36	8.32
16					-	8.67	8.76	9.05	8.69	8.76	9.28	8.28
17					-	8.69	8.78	8.99	8.67	8.71	9.28	8.24
18					-	8.69	8.80	8.96	8.65	8.80	9.28	8.19
19					-	-	8.86	8.90	8.63	8.82	9.28	8.15
20					-	-	8.86	8.86	8.63	8.80	9.28	8.09
21					-	-	8.88	8.82	8.61	8.78	9.23	8.05
22					-	8.74	8.90	8.80	8.61	8.82	9.19	8.01
23					-	8.86	8.94	8.78	8.82	8.90	9.19	8.01
24					-	8.78	8.96	8.74	8.86	9.19	9.15	7.94
25					8.48	8.65	8.99	8.78	8.86	9.28	9.11	7.88
26					8.40	8.59	8.96	8.78	8.82	9.36	9.07	7.86
27					8.53	8.61	8.99	8.78	8.80	9.40	9.03	7.82
28					8.44	8.69	9.11	8.80	8.76	9.40	8.99	7.78
29					-	8.74	9.19	8.82	8.74	9.38	8.94	7.74
30					-	8.78	9.19	8.84	8.69	9.38	8.88	7.69
31					-	8.71	-	8.82	-	9.38	8.86	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1887-88

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.69	6.94	6.11	7.11	8.40	8.82	9.15	9.38	9.82	9.01	7.94	7.40
2	7.69	6.90	6.05	7.53	8.40	8.86	9.30	9.40	9.78	9.01	7.90	7.38
3	7.69	6.86	5.98	7.82	8.44	8.90	9.34	9.38	9.76	8.96	7.86	7.38
4	7.67	6.82	5.94	7.98	8.46	8.90	9.32	9.30	9.76	8.90	7.80	7.32
5	7.63	6.78	5.90	8.11	8.51	8.92	9.36	9.32	9.74	8.86	7.84	7.24
6	7.59	6.74	5.90	8.19	8.53	8.92	9.48	9.32	9.74	8.99	7.80	7.17
7	7.53	6.69	5.90	8.24	8.57	8.92	9.46	9.30	9.74	8.94	7.78	7.11
8	7.48	6.65	5.90	8.28	8.57	8.92	9.40	9.28	9.71	8.88	7.74	7.07
9	7.46	6.61	5.90	8.36	8.53	8.94	9.32	9.23	9.69	8.86	7.74	7.28
10	7.46	6.57	5.90	8.40	8.44	8.96	9.23	9.21	9.65	8.86	7.69	7.32
11	7.44	6.59	6.07	8.36	8.40	8.96	9.30	9.19	9.65	8.82	7.65	7.28
12	7.42	6.63	6.15	8.28	8.40	8.96	9.36	9.28	9.59	8.82	7.57	7.36
13	7.36	6.61	-	8.24	8.40	9.11	9.40	9.28	9.55	8.74	7.61	7.42
14	7.30	6.59	6.19	8.17	8.36	9.07	9.40	9.28	9.51	8.65	7.57	7.42
15	7.26	6.55	-	8.19	8.28	8.86	9.32	9.30	9.48	8.57	7.51	7.40
16	7.21	6.53	6.21	8.24	8.24	8.80	9.36	9.32	9.59	8.48	7.46	7.36
17	7.19	6.51	-	8.30	8.24	8.71	9.40	9.32	9.59	8.42	7.40	7.44
18	7.15	6.48	6.24	8.32	8.26	8.61	9.42	9.32	9.57	8.36	7.36	8.36
19	7.15	6.44	-	8.32	8.28	8.61	9.42	9.32	9.53	8.40	7.32	8.94
20	7.11	6.40	-	8.32	8.30	8.57	9.44	9.32	9.46	8.36	7.30	9.11
21	7.24	6.40	6.26	8.32	8.44	8.61	9.48	9.32	9.40	8.32	7.26	9.36
22	7.19	6.36	-	8.32	8.61	8.65	9.48	9.30	9.36	8.32	7.69	9.32
23	7.17	6.34	-	8.32	8.69	8.78	9.48	9.28	9.32	8.24	7.74	9.19
24	7.15	6.32	6.28	8.34	8.69	8.74	9.48	9.28	9.26	8.17	7.74	9.09
25	7.13	6.28	-	8.34	8.74	8.78	9.46	9.30	9.23	8.17	7.69	9.05
26	7.11	6.21	-	8.34	8.78	8.90	9.46	9.32	9.17	8.11	7.63	9.01
27	7.09	6.17	6.30	8.36	8.78	8.82	9.44	9.32	9.11	8.07	7.63	8.99
28	7.07	6.15	6.53	8.36	8.78	8.82	9.42	9.32	9.07	8.03	7.57	8.94
29	7.05	6.15	6.65	8.40	8.74	8.90	9.40	9.48	9.07	7.96	7.51	8.90
30	7.03	6.13	6.78	8.40	-	9.07	9.40	9.71	9.03	7.94	7.46	8.88
31	7.01	-	6.78	8.40	-	9.15	-	9.82	-	7.92	7.42	-

1888-89

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.88	8.84	8.92	8.36	8.17	8.13	9.21	9.80	9.74	9.53	9.44	8.55
2	8.86	8.82	-	8.32	8.15	8.15	9.23	9.76	9.74	9.48	9.59	8.55
3	8.84	8.78	-	8.28	8.13	8.17	9.28	9.78	9.71	9.59	9.65	8.46
4	8.82	8.76	8.94	8.24	8.13	8.26	9.30	9.76	9.76	9.65	9.65	8.40
5	8.76	8.74	-	8.21	8.07	8.42	9.28	9.74	9.74	9.67	9.65	8.34
6	8.74	8.67	-	8.19	8.11	8.48	9.28	9.71	9.69	9.65	9.63	8.28
7	8.94	8.61	-	8.19	8.09	8.57	9.28	9.69	9.65	9.61	9.61	8.24
8	9.01	8.59	8.92	8.19	8.07	8.63	-	9.65	9.59	9.61	9.55	8.19
9	8.94	8.59	-	8.19	8.03	8.67	-	9.61	9.57	9.57	9.53	8.17
10	8.92	8.59	8.99	8.48	8.01	8.71	-	9.61	9.61	9.51	9.51	8.11
11	8.92	8.59	9.07	8.69	7.98	8.74	9.26	9.67	9.61	9.44	9.55	8.09
12	8.90	8.59	-	8.67	7.96	8.74	9.28	9.67	9.59	9.38	9.53	8.07
13	8.92	8.59	-	8.67	7.96	8.76	9.36	9.67	9.57	9.30	9.48	8.32
14	8.92	8.59	8.99	8.67	7.94	8.78	9.44	9.67	9.55	9.21	9.48	8.44
15	8.94	8.55	8.92	8.65	7.94	8.78	-	9.67	9.55	9.32	9.61	8.57
16	8.92	8.61	8.78	8.63	7.94	8.80	-	9.61	9.55	9.30	9.57	8.65
17	8.92	8.63	8.92	8.61	8.05	8.82	-	9.59	9.53	9.36	9.51	8.69
18	8.90	8.69	9.15	8.67	8.11	8.84	-	9.55	9.48	9.36	9.44	8.86
19	8.88	8.74	9.11	8.55	8.13	8.88	9.42	9.53	9.44	9.23	9.42	8.94
20	8.94	8.71	9.07	8.53	8.15	8.92	9.40	9.53	9.40	9.17	9.34	8.98
21	8.92	8.69	9.05	8.69	8.15	8.96	9.42	9.78	9.34	9.32	9.28	9.01
22	8.90	8.69	9.03	8.65	8.15	9.01	-	9.82	9.32	9.32	9.17	9.01
23	8.88	8.69	8.99	8.55	8.15	-	9.40	9.82	9.26	9.30	9.11	9.01
24	8.90	8.69	8.94	8.53	8.15	-	-	9.74	9.21	9.26	9.03	8.96
25	8.88	8.69	8.88	8.40	8.15	9.03	9.38	9.69	9.55	9.21	8.94	8.92
26	8.84	8.82	8.82	8.21	8.15	9.05	9.36	9.69	9.57	9.17	8.92	8.90
27	8.82	8.82	-	8.07	8.13	9.03	9.61	9.69	9.57	9.13	8.88	8.88
28	8.84	8.88	-	8.15	8.13	9.07	9.84	9.63	9.55	9.07	8.82	8.84
29	8.90	8.90	-	8.24	-	9.11	9.76	9.65	9.53	9.09	8.76	8.76
30	8.88	8.92	-	8.21	-	9.13	9.80	9.65	9.53	9.09	8.67	8.76
31	8.86	-	-	8.19	-	9.17	-	9.65	-	9.19	8.61	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1889-1890

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.71	8.51	9.40	8.51	8.17	8.63	9.07	9.13	9.53	8.88	8.19	7.36
2	8.76	8.55	9.32	8.53	8.15	8.61	9.05	9.11	9.53	8.80	8.19	7.34
3	8.69	8.67	9.23	8.55	8.13	8.53	9.05	9.09	9.53	8.86	8.13	7.30
4	8.63	8.86	9.15	8.57	8.11	8.48	9.05	9.05	9.51	8.88	8.07	7.21
5	8.57	8.90	9.05	8.61	8.11	8.57	9.05	9.21	9.48	8.86	8.05	7.15
6	8.51	8.90	8.94	8.63	8.11	8.63	9.15	9.23	9.46	8.84	7.96	7.07
7	8.48	8.90	8.88	8.65	8.19	8.71	9.19	9.28	9.48	8.82	7.94	7.05
8	8.42	8.90	8.80	8.65	8.44	8.76	9.26	9.36	9.51	8.74	7.92	7.05
9	8.40	9.01	8.78	8.63	8.53	8.69	9.26	9.36	9.53	8.67	7.86	7.01
10	8.36	9.23	8.74	8.61	8.57	8.61	9.26	9.36	9.51	8.61	7.84	6.96
11	8.32	9.19	8.61	8.59	8.59	8.57	9.26	9.42	9.48	8.57	7.82	6.90
12	8.28	9.23	8.57	8.55	8.61	8.57	9.23	9.40	-	8.51	7.78	6.86
13	8.32	9.23	8.48	8.55	8.61	8.65	9.23	9.42	-	8.38	7.69	6.88
14	8.36	9.30	8.40	8.55	8.67	8.71	9.23	9.44	-	8.36	7.63	7.07
15	8.40	9.32	8.44	8.53	8.65	8.78	9.23	9.61	9.57	8.30	7.57	7.17
16	8.36	9.30	8.44	8.69	8.57	8.82	9.23	9.67	9.51	8.30	7.53	7.26
17	8.30	9.32	8.40	8.69	8.53	8.84	9.21	9.67	9.44	8.26	7.44	7.36
18	8.26	9.38	8.32	8.65	8.53	8.84	9.19	9.63	9.44	8.26	7.44	7.42
19	8.24	9.48	8.19	8.61	8.53	9.01	9.17	9.65	9.42	8.19	7.44	7.44
20	8.21	9.55	8.24	8.65	8.53	9.01	9.17	9.65	9.38	8.11	7.44	7.44
21	8.21	9.53	8.28	8.61	8.53	9.01	9.15	9.69	9.38	8.07	7.36	7.40
22	8.19	9.48	8.32	8.57	8.51	9.11	9.15	9.67	9.38	7.96	7.38	7.42
23	8.17	9.40	8.34	8.51	8.53	9.26	9.13	9.63	9.38	7.90	7.44	7.40
24	8.13	9.23	8.44	8.44	8.53	9.23	9.13	9.59	9.38	7.80	7.34	7.38
25	8.09	9.17	8.32	8.38	8.53	9.26	9.15	9.55	9.21	8.07	7.32	7.34
26	8.05	9.11	8.34	8.38	8.57	9.28	9.17	9.57	9.19	8.19	7.28	7.30
27	8.19	9.28	8.38	8.36	8.57	9.28	9.19	9.57	9.15	8.28	7.36	7.32
28	8.36	9.36	8.40	8.32	8.55	9.23	9.19	9.57	9.09	8.28	7.44	7.30
29	8.44	9.44	8.42	8.24	-	9.15	9.17	9.57	9.01	8.28	7.42	7.30
30	8.48	9.44	8.44	8.21	-	9.07	9.15	9.57	8.94	8.24	7.40	7.21
31	8.51	-	8.48	8.19	-	9.05	-	9.57	-	8.24	7.36	-

1890-91

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.15	7.86	7.11	7.36	7.86	8.24	9.03	9.15	8.44	6.96	5.98	6.40
2	7.11	7.84	7.05	7.44	7.92	8.24	9.07	9.11	8.40	6.94	5.94	6.44
3	7.19	7.86	7.03	7.53	7.96	8.21	9.11	-	8.36	6.94	5.92	6.44
4	7.32	7.84	6.98	7.61	8.07	8.19	9.15	-	8.32	6.98	5.88	6.42
5	7.32	7.84	6.98	7.65	8.05	8.24	9.15	9.07	8.28	6.98	5.84	6.40
6	7.34	7.82	6.96	7.69	8.03	8.28	9.17	9.05	8.32	6.86	5.78	6.44
7	7.36	7.80	6.94	7.71	8.03	8.32	9.17	9.03	8.24	6.86	5.76	6.44
8	7.38	7.78	6.92	7.74	8.03	8.36	9.17	8.99	8.19	6.80	5.69	6.44
9	7.36	7.78	6.90	7.74	8.03	8.40	9.17	8.94	8.15	6.76	5.65	6.40
10	7.34	7.78	6.90	7.74	8.07	8.44	9.17	8.90	8.09	6.69	5.65	6.38
11	7.32	7.80	6.90	7.74	8.07	8.46	9.23	8.88	8.03	6.69	5.63	6.36
12	7.30	7.80	6.90	8.28	8.05	8.57	9.36	8.86	7.98	6.63	5.57	6.32
13	7.28	7.78	6.90	8.44	7.98	8.65	9.34	8.82	7.94	6.63	5.46	6.28
14	7.28	7.76	6.90	8.51	7.96	8.74	9.36	8.78	7.90	6.55	5.38	6.28
15	7.26	7.71	6.90	8.57	7.94	8.74	9.36	8.74	7.88	6.48	5.36	6.19
16	7.24	7.69	6.90	8.57	8.01	8.78	9.36	8.69	7.92	6.42	5.32	6.13
17	7.32	7.67	6.94	8.57	8.19	8.86	9.36	8.65	7.90	6.32	5.30	6.13
18	7.36	7.67	7.19	8.69	8.36	8.92	9.36	8.74	7.80	6.40	5.24	6.11
19	7.38	7.65	7.24	8.69	8.48	8.99	9.38	8.78	7.80	6.32	5.19	6.07
20	7.42	7.63	7.28	8.65	8.65	9.03	9.38	8.76	7.76	6.40	5.11	6.05
21	7.46	7.63	7.32	8.57	8.57	9.11	9.38	8.74	7.69	6.38	5.11	6.03
22	7.44	7.61	7.32	8.61	8.57	9.19	9.36	8.69	7.65	6.34	5.36	5.98
23	7.42	7.61	7.30	9.15	8.48	9.28	9.36	8.65	7.61	6.24	5.36	5.94
24	7.59	7.59	7.32	9.15	8.36	9.30	9.36	8.61	7.57	6.21	5.78	5.92
25	7.67	7.51	7.34	9.15	8.26	9.32	9.34	8.57	7.46	6.19	6.11	5.86
26	7.74	7.46	7.36	8.94	8.15	9.28	9.32	8.53	7.44	6.17	6.28	5.86
27	7.80	7.40	7.44	8.69	8.24	9.23	9.28	8.51	7.42	6.11	6.32	5.86
28	7.84	7.34	7.44	8.48	8.24	9.23	9.23	8.46	7.34	6.05	6.36	5.82
29	7.82	7.28	7.44	8.24	-	9.11	9.21	8.44	7.24	6.05	6.36	5.76
30	7.86	7.19	7.40	8.05	-	9.03	9.19	8.44	7.13	6.03	6.36	5.69
31	7.86	-	7.44	7.80	-	8.99	-	8.44	-	6.05	6.36	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1891-92

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.65	4.48	4.53	6.44	7.94	8.15	9.28	9.07	9.34	9.59	8.42	7.13
2	5.61	4.44	4.53	6.48	7.90	8.19	9.30	9.05	9.36	9.59	8.40	7.09
3	5.59	4.40	4.53	6.53	7.82	8.36	9.32	9.03	9.38	9.59	8.36	7.01
4	5.55	4.38	4.51	6.94	7.82	8.38	9.34	9.03	9.40	9.59	8.32	6.92
5	5.53	4.36	4.71	6.98	7.84	8.38	-	9.01	9.42	9.59	8.28	6.92
6	5.44	4.32	4.80	7.03	7.88	8.38	-	8.99	9.44	9.57	8.19	6.90
7	5.44	4.28	4.86	7.11	7.90	8.40	-	8.96	9.44	9.53	8.13	6.80
8	5.48	4.19	4.90	7.19	7.94	8.42	-	8.94	9.40	9.48	8.13	6.74
9	5.44	4.14	-	7.28	7.96	8.53	-	8.90	9.42	9.44	8.05	6.65
10	5.36	4.11	4.94	7.24	7.98	8.59	9.32	8.86	9.53	9.38	8.05	6.65
11	5.28	4.19	4.98	7.36	8.01	8.61	9.30	-	9.53	9.34	8.07	6.59
12	5.24	4.24	5.03	7.61	8.03	8.65	9.28	-	9.53	9.32	8.07	6.59
13	5.19	4.28	5.07	7.78	8.03	8.69	9.26	8.82	9.53	9.28	8.03	6.53
14	5.11	4.24	5.11	7.94	8.03	8.74	9.23	-	9.48	9.26	7.94	6.65
15	5.09	4.19	5.15	8.11	8.03	8.78	9.21	8.78	9.48	9.19	7.90	6.59
16	5.07	4.14	5.19	8.28	8.03	8.82	9.19	-	9.44	9.15	7.86	6.57
17	5.03	4.19	5.21	8.42	8.03	8.86	9.19	-	9.44	9.11	7.78	6.53
18	4.98	4.24	5.24	8.44	8.03	8.88	9.19	8.74	9.57	9.03	7.71	6.48
19	4.94	4.28	5.26	8.53	8.03	8.94	9.19	8.74	9.57	8.94	7.65	6.44
20	4.94	4.19	5.28	8.65	-	8.99	9.19	8.78	9.59	8.86	7.61	6.44
21	4.94	4.14	5.32	8.61	-	9.01	9.23	8.82	9.59	8.84	7.57	6.38
22	4.94	4.11	5.36	8.57	-	9.03	9.23	8.82	9.59	8.80	7.48	6.36
23	4.90	4.19	5.40	8.51	-	9.05	9.28	8.94	9.57	8.74	7.42	6.34
24	4.86	4.48	5.53	8.46	-	9.07	9.28	8.99	9.67	8.71	7.34	6.32
25	4.82	4.53	5.69	8.42	8.05	9.09	9.23	9.03	9.67	8.69	7.24	6.32
26	4.82	4.57	5.74	8.36	8.07	9.11	9.21	9.03	9.67	8.69	7.32	6.21
27	4.78	4.57	5.86	8.28	8.09	9.15	9.19	9.03	9.67	8.65	7.36	6.11
28	4.79	4.55	5.94	8.24	8.11	9.19	9.15	9.15	9.67	8.61	7.30	6.03
29	4.69	4.55	5.98	8.19	8.13	9.21	9.11	9.19	9.63	8.57	7.28	5.98
30	4.61	4.55	6.17	8.11	-	9.23	9.09	9.26	9.59	8.53	7.19	5.94
31	4.53	-	6.28	8.03	-	9.26	-	9.30	-	8.46	7.15	-

1892-93

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.86	4.11	4.14	4.36	5.44	7.28	9.28	9.74	9.51	8.78	7.48	6.90
2	5.82	4.03	4.13	4.61	5.48	7.28	9.28	9.71	9.46	8.71	7.44	6.86
3	5.78	4.07	4.11	4.78	5.48	7.30	9.28	9.69	9.44	8.69	7.36	6.82
4	5.71	3.98	4.11	4.86	5.48	7.32	9.28	9.92	9.40	8.69	7.24	6.78
5	5.71	3.94	4.07	4.94	5.61	7.34	9.32	9.96	9.40	8.65	7.19	6.74
6	5.63	3.94	4.03	4.98	5.69	7.36	9.36	9.99	9.40	8.65	7.15	6.69
7	5.48	3.84	4.07	5.03	-	7.36	9.44	9.99	9.36	8.61	7.11	6.63
8	5.40	3.78	4.11	5.11	-	7.36	9.46	9.82	9.34	8.57	7.07	6.63
9	5.40	3.69	4.13	5.11	-	7.51	9.51	9.80	9.26	8.53	6.98	6.63
10	5.36	3.74	4.14	5.11	5.78	7.69	9.53	9.76	9.19	8.51	6.90	6.63
11	5.32	3.82	4.17	5.11	-	7.86	9.53	9.78	9.15	8.42	6.86	6.61
12	5.30	3.78	4.28	5.13	5.94	8.11	9.51	9.78	9.15	8.38	6.82	6.57
13	5.21	3.78	4.32	5.13	-	8.28	9.51	9.78	9.11	8.32	6.78	6.48
14	5.11	3.76	4.36	5.15	6.40	8.48	9.53	9.78	9.07	8.36	6.74	6.44
15	5.01	3.71	4.42	5.15	-	8.61	9.57	9.78	9.03	8.32	6.67	6.40
16	5.01	4.01	4.42	5.15	6.57	8.67	9.61	9.80	8.99	8.26	6.61	6.48
17	4.98	4.07	4.42	5.17	6.69	8.74	9.59	9.82	8.99	8.30	6.53	6.48
18	4.94	4.09	4.53	5.17	6.78	8.76	9.57	9.84	8.99	8.28	6.44	6.48
19	4.90	4.24	4.46	5.19	6.86	8.71	9.55	9.84	8.86	8.24	6.36	6.44
20	4.84	4.19	4.51	5.19	6.90	8.69	-	9.82	8.82	8.19	6.61	6.40
21	4.80	4.11	4.53	5.19	6.94	8.76	9.65	9.82	8.78	8.11	6.69	6.40
22	4.74	4.19	4.48	5.19	7.07	8.82	9.63	9.82	8.74	8.03	6.61	6.40
23	4.69	4.24	4.46	5.19	7.11	-	9.69	9.78	8.90	7.94	6.53	6.36
24	4.65	4.19	4.44	5.19	7.15	8.90	9.80	9.80	8.96	7.88	6.82	6.32
25	4.48	4.11	4.44	5.19	7.19	8.92	9.80	9.80	8.88	7.80	6.86	6.28
26	4.46	4.07	4.42	5.28	7.24	8.94	9.82	9.76	8.84	7.69	6.86	6.19
27	4.42	4.07	4.40	5.28	7.26	8.99	9.82	9.74	8.90	7.67	6.82	6.11
28	4.36	4.03	4.40	5.28	7.28	9.03	9.82	9.67	8.84	7.57	6.82	6.07
29	4.30	4.17	4.38	5.28	-	9.11	9.80	9.67	8.86	7.53	6.86	6.03
30	4.24	4.17	4.36	5.28	-	9.19	9.78	9.65	8.82	7.53	6.92	5.98
31	4.19	-	4.36	5.44	-	9.23	-	9.57	-	7.53	6.92	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1893-94

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.94	5.48	6.11	7.57	7.28	-	8.94	9.53	9.86	9.11	7.15	5.65
2	5.90	5.44	6.19	7.59	7.26	-	8.94	9.48	9.74	9.07	7.24	5.61
3	5.86	5.48	6.28	7.59	7.24	-	8.94	9.46	9.65	9.03	7.24	5.57
4	5.82	5.61	6.44	7.57	7.19	-	8.99	9.44	9.67	8.99	7.15	5.53
5	5.74	5.69	6.53	7.55	-	-	8.99	9.42	9.65	8.94	7.11	5.44
6	5.69	5.69	6.61	7.53	7.15	7.51	8.99	9.42	9.63	8.86	7.07	5.36
7	5.65	5.74	6.61	7.51	7.11	7.61	8.99	9.44	9.61	8.80	6.98	5.28
8	5.61	5.78	6.61	7.48	7.09	7.88	8.99	9.38	9.57	8.74	6.94	5.40
9	5.61	5.78	6.61	7.46	7.07	8.09	8.99	9.32	9.57	8.71	6.86	5.42
10	5.53	5.78	6.61	7.44	7.11	8.26	8.99	9.26	9.57	8.65	6.78	-
11	5.48	5.78	6.61	7.42	7.15	-	8.99	9.21	9.55	8.59	6.69	-
12	5.44	5.69	6.61	7.40	-	8.46	8.99	9.15	9.53	8.48	6.67	5.36
13	5.40	5.65	6.61	7.38	-	8.57	9.15	9.11	9.48	8.36	6.61	5.32
14	5.38	5.65	-	-	7.19	8.61	9.17	9.07	9.44	8.28	6.57	5.28
15	5.36	5.65	6.69	7.36	-	8.63	9.19	9.03	9.40	8.19	6.57	5.26
16	5.40	5.61	6.78	-	-	8.65	9.28	8.99	9.61	8.15	6.53	5.24
17	5.44	5.57	6.94	-	7.24	8.67	9.32	8.94	9.61	8.13	6.46	5.30
18	5.44	5.57	7.11	7.34	-	8.69	9.36	8.90	9.57	8.09	-	5.32
19	5.40	5.57	7.19	7.32	7.24	8.71	9.36	8.90	9.57	8.03	6.40	5.40
20	5.36	5.74	7.24	7.30	7.28	8.74	9.36	8.90	9.51	7.98	6.36	5.61
21	5.32	5.78	7.28	7.28	-	8.78	9.44	9.07	9.44	7.94	6.32	5.74
22	5.28	5.82	7.28	7.26	-	8.82	9.51	9.07	9.40	7.90	6.28	5.78
23	-	5.82	-	7.24	7.32	8.86	9.53	9.07	9.36	7.88	6.24	5.74
24	5.36	5.82	7.32	-	7.36	8.88	9.57	9.19	9.36	7.86	6.19	5.69
25	5.44	5.82	7.36	-	7.40	-	9.57	9.28	9.32	7.78	6.13	5.65
26	5.44	5.78	7.40	7.24	7.44	8.90	9.57	9.34	9.32	7.69	6.03	5.61
27	5.40	5.78	7.44	7.19	7.48	-	9.57	9.34	9.28	7.61	5.94	5.57
28	5.48	5.88	7.48	-	7.53	8.86	9.57	9.36	9.23	7.53	5.88	5.53
29	5.48	6.03	7.51	7.15	-	-	9.57	9.88	9.19	7.44	5.82	5.46
30	5.53	6.07	7.53	7.28	-	8.90	9.57	10.03	9.19	7.40	5.76	5.42
31	5.53	-	7.55	7.28	-	8.94	-	10.01	-	7.34	5.74	-

1894-95

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.38	4.98	5.80	7.15	7.44	6.82	8.44	9.69	9.46	8.44	7.40	5.82
2	5.32	5.03	5.86	-	7.40	6.84	8.53	9.67	9.42	8.40	7.32	5.78
3	5.28	5.19	5.88	-	7.36	6.86	8.48	9.65	9.38	8.32	7.24	-
4	5.32	-	-	-	7.34	6.90	8.61	9.65	9.32	8.26	7.19	-
5	5.32	5.44	-	-	7.30	6.94	-	9.65	9.30	8.36	7.15	-
6	5.26	5.55	5.90	7.19	7.28	6.94	-	9.61	9.30	8.40	7.07	-
7	5.21	5.61	-	7.24	7.28	7.01	-	9.59	9.26	8.40	7.07	-
8	5.15	5.69	5.94	7.28	7.24	-	8.69	9.57	9.19	8.36	7.05	-
9	5.15	5.76	5.98	7.36	7.19	-	9.23	9.57	9.19	8.32	6.98	-
10	5.07	5.78	6.07	7.44	7.15	-	9.59	9.53	9.15	8.30	6.94	-
11	5.15	-	6.11	7.53	7.11	-	9.84	9.53	9.13	8.19	6.86	-
12	5.19	5.86	6.13	7.65	7.07	-	9.86	9.53	9.11	8.11	6.88	-
13	-	5.86	6.38	7.69	7.03	-	9.94	9.51	9.09	8.03	6.86	-
14	-	5.86	6.53	7.71	6.98	7.53	9.65	9.55	9.03	7.98	6.80	-
15	-	5.86	6.61	7.78	6.94	-	9.65	9.65	8.99	7.94	6.67	-
16	-	5.86	6.65	7.82	6.90	-	9.65	9.61	8.94	7.92	6.61	-
17	5.15	5.86	6.69	7.82	6.86	7.61	9.63	9.61	8.90	7.90	6.65	-
18	-	5.86	6.74	7.86	6.82	-	9.61	9.61	8.84	7.90	6.61	-
19	5.11	5.90	6.78	7.82	6.78	-	9.57	9.61	8.78	7.86	6.57	-
20	5.07	-	6.80	7.78	-	-	-	9.61	8.74	7.82	6.53	-
21	-	-	6.90	7.74	-	-	-	-	8.65	7.78	6.44	-
22	5.05	5.92	6.94	7.71	-	-	-	-	8.61	7.71	6.36	-
23	5.01	-	6.94	7.69	-	7.90	-	9.53	8.53	7.84	6.28	-
24	4.98	5.94	6.98	7.67	-	-	-	9.51	8.48	7.78	6.19	-
25	4.94	-	7.03	7.65	-	8.01	9.61	9.51	8.51	7.74	6.13	-
26	4.92	5.92	7.07	7.61	-	-	9.61	9.48	8.44	7.69	6.11	-
27	4.88	5.90	7.11	7.59	-	-	9.65	9.53	8.40	7.61	6.07	-
28	4.86	5.86	7.11	7.57	6.80	-	9.65	9.61	8.40	7.48	6.03	-
29	4.82	5.82	7.11	7.55	-	-	9.65	9.57	8.36	7.53	5.98	-
30	4.76	5.80	7.15	7.53	-	-	9.69	9.53	8.32	7.48	5.94	-
31	4.78	-	7.15	7.48	-	-	-	9.48	-	7.44	5.86	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1895-96

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			-	2.94	3.86	7.65	8.99	9.28	8.61	8.01	7.78	6.32
2			-	3.03	3.90	7.78	9.07	9.23	8.57	7.96	7.78	6.28
3			-	3.11	3.90	7.86	9.13	9.19	8.55	7.94	7.74	6.21
4			-	3.15	3.94	7.90	9.15	9.15	8.51	7.90	7.74	6.17
5			-	3.15	3.94	7.94	9.19	9.11	8.48	7.86	7.61	6.11
6			-	3.19	4.03	7.98	9.23	9.07	8.44	7.98	7.55	6.48
7			-	3.24	5.61	8.03	9.23	9.03	8.40	8.07	7.59	6.63
8			-	3.28	5.94	8.07	9.23	8.99	8.36	8.03	7.55	6.65
9			-	3.32	6.19	8.11	9.23	8.94	8.40	8.03	7.42	6.65
10			-	3.36	6.32	8.15	9.28	8.90	8.38	8.07	7.34	6.55
11			-	-	6.42	8.15	9.30	8.88	8.36	8.05	7.28	6.55
12			-	-	6.57	8.28	9.30	8.86	8.34	8.01	7.24	6.53
13			-	-	6.57	8.28	9.32	8.84	8.28	8.03	7.19	6.53
14			-	-	6.63	8.28	9.34	8.82	8.28	8.05	7.19	6.53
15			-	-	6.69	8.28	9.36	8.80	8.32	8.03	7.11	6.46
16			-	-	6.78	-	9.36	8.78	8.28	8.03	7.11	6.42
17			-	3.38	6.82	-	9.36	8.69	8.28	7.98	7.03	6.42
18			-	3.40	6.82	-	9.34	8.65	8.28	7.92	6.98	6.40
19			-	3.38	6.82	8.15	9.34	8.63	8.26	7.84	6.90	6.40
20			-	3.36	6.82	8.57	9.34	8.67	8.21	7.78	6.86	6.36
21			2.11	3.34	6.82	8.65	9.34	8.69	8.17	-	-	6.36
22			2.28	3.36	-	8.61	9.34	8.69	8.15	-	6.82	6.34
23			2.32	3.38	-	8.53	9.34	8.67	8.11	7.80	6.78	6.21
24			2.36	3.40	6.98	8.53	9.34	8.59	8.05	7.90	6.78	6.17
25			2.40	3.61	6.98	8.53	9.34	8.53	8.09	7.90	6.74	6.09
26			2.40	3.69	6.98	8.61	9.34	8.44	8.09	7.90	6.67	-
27			2.44	3.74	7.07	8.65	9.34	8.46	8.11	7.86	6.61	-
28			2.48	3.78	7.11	8.69	9.34	8.46	8.11	7.86	6.53	-
29			2.61	3.82	7.32	8.78	9.34	8.57	8.07	7.86	6.44	-
30			2.57	3.84	-	8.86	9.34	8.57	8.05	7.86	6.38	6.19
31			2.82	3.86	-	8.88	-	8.59	-	7.82	6.36	-

1896-97

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.17	5.82	7.11	6.98	7.44	7.84	9.11	9.51	9.61	8.90	9.57	9.07
2	-	5.82	7.11	6.98	-	7.86	9.11	-	9.59	8.86	9.53	9.05
3	-	5.78	7.07	6.94	-	7.88	9.13	10.03	9.57	8.86	9.51	9.11
4	-	5.94	7.07	6.94	-	7.90	9.15	10.01	9.57	8.82	9.48	9.07
5	-	6.40	7.03	6.92	7.48	7.94	9.19	9.94	9.59	8.78	9.65	9.03
6	6.11	6.53	6.98	6.90	7.53	7.98	9.26	9.82	9.59	8.74	9.61	9.01
7	6.05	6.61	6.94	6.92	7.86	8.07	9.28	9.82	9.57	8.69	9.57	8.96
8	6.03	6.65	6.90	6.92	-	8.15	9.30	9.80	9.55	8.61	9.53	8.92
9	5.98	6.78	6.94	6.92	7.94	8.19	9.55	9.74	9.59	8.53	9.44	8.88
10	-	6.82	-	6.92	-	8.24	9.57	9.69	9.63	8.44	9.40	8.86
11	-	6.86	-	6.94	7.92	8.28	9.55	9.69	9.63	8.36	9.36	8.82
12	-	6.88	-	6.94	7.90	8.32	9.53	9.69	9.61	8.44	9.32	8.76
13	-	6.92	-	6.94	7.88	8.38	9.57	9.99	9.57	8.55	9.28	8.69
14	6.03	6.94	-	6.94	7.86	8.44	9.61	9.90	9.57	8.82	9.26	8.63
15	-	-	-	6.94	7.82	8.48	9.65	9.78	9.53	8.86	9.23	8.59
16	-	-	-	6.94	7.78	8.53	9.69	9.69	9.48	8.84	9.30	8.55
17	-	-	-	6.94	7.74	8.55	9.69	9.65	9.44	8.82	9.32	8.48
18	6.01	-	-	6.94	7.69	8.59	9.69	9.67	9.42	8.80	9.28	8.44
19	5.98	-	6.90	6.94	7.63	8.61	9.69	9.65	9.36	8.84	9.23	8.36
20	5.96	-	-	7.03	7.57	8.78	9.69	9.65	9.32	8.82	9.19	8.32
21	5.94	-	-	7.11	7.61	8.82	9.65	9.65	9.30	8.78	9.17	8.28
22	-	-	6.92	7.26	7.65	8.86	9.65	9.71	9.23	8.94	9.19	8.24
23	-	-	-	7.26	7.74	8.92	9.63	9.67	9.19	8.99	9.21	8.19
24	-	-	-	7.26	7.74	9.09	9.61	9.69	9.15	9.07	9.28	8.15
25	-	-	6.94	7.28	7.76	9.17	9.59	9.80	9.11	9.11	9.28	8.13
26	-	-	6.94	7.30	7.76	9.17	9.57	9.74	9.07	9.15	9.30	8.11
27	-	-	6.96	7.34	7.78	9.15	9.55	9.69	9.03	9.15	9.26	8.07
28	-	6.90	-	7.44	7.80	9.13	9.53	9.65	9.01	9.21	9.21	8.03
29	5.90	7.03	-	7.44	-	9.11	9.53	9.61	8.94	9.46	9.15	7.98
30	5.86	7.07	6.98	7.44	-	9.09	9.53	9.57	8.94	9.53	9.13	7.94
31	5.82	-	-	7.44	-	9.11	-	9.55	-	9.57	9.11	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1897-98

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.90	6.61	6.48	7.65	8.15	8.36	9.44	9.53	9.69	8.92	7.55	7.11
2	7.86	6.78	6.44	7.61	8.11	8.34	9.48	9.57	9.69	8.88	7.53	7.07
3	7.78	6.82	6.44	7.57	8.07	8.36	9.48	9.65	9.69	8.80	7.53	7.03
4	7.74	6.84	6.53	7.57	7.96	8.36	9.48	9.65	9.69	8.74	7.55	6.96
5	7.69	6.86	6.61	7.53	7.90	8.34	9.51	9.65	9.67	8.69	7.69	6.92
6	7.61	6.82	6.61	7.53	7.82	8.36	9.51	9.74	9.65	8.61	7.67	6.86
7	7.57	6.78	6.61	7.51	7.78	8.32	9.51	9.80	9.67	8.55	7.63	6.82
8	7.53	6.76	6.65	7.48	7.76	8.42	9.51	9.78	9.61	8.48	7.61	6.78
9	7.48	6.76	6.65	7.46	7.67	8.44	9.51	9.74	9.51	8.42	7.59	6.71
10	7.44	6.78	6.69	7.44	7.59	8.48	9.53	9.76	9.53	8.36	7.67	6.65
11	7.42	6.74	6.74	7.42	7.53	8.53	-	9.76	9.51	8.28	7.78	6.61
12	7.38	6.76	6.78	7.44	7.53	8.55	9.57	9.78	9.48	8.21	7.78	6.55
13	7.36	6.74	6.82	7.48	7.53	8.57	9.57	9.78	9.44	8.15	7.76	6.48
14	7.32	6.74	6.82	7.53	7.63	8.59	9.53	9.69	9.42	8.09	7.71	6.42
15	7.26	6.74	6.98	7.55	7.69	8.61	9.53	9.65	9.40	8.03	7.69	6.36
16	7.17	6.76	7.19	7.57	7.78	8.61	9.51	9.76	9.38	7.98	7.67	6.32
17	7.13	6.74	7.32	7.61	7.78	8.65	9.51	9.76	9.32	7.94	7.65	6.32
18	7.11	6.69	7.44	7.65	7.78	8.69	9.48	9.69	9.26	7.90	7.63	6.28
19	7.03	6.69	7.48	7.69	7.82	8.74	-	9.67	9.19	7.84	7.61	6.24
20	6.98	6.69	7.53	7.69	8.15	8.76	9.40	9.67	9.17	7.90	7.59	6.17
21	6.94	6.67	7.57	7.86	8.32	8.78	9.36	9.65	9.19	7.84	7.53	6.11
22	6.90	6.65	7.63	7.90	8.34	8.86	9.38	9.61	9.15	7.86	7.51	6.03
23	6.88	6.61	7.63	8.07	8.36	8.92	9.40	9.59	9.13	7.84	7.48	6.03
24	6.86	6.57	7.61	8.21	8.44	8.99	9.44	9.69	9.07	7.78	7.44	6.03
25	6.82	6.53	7.59	8.30	8.44	9.03	9.55	9.76	9.01	7.71	7.46	5.96
26	6.82	6.53	7.59	8.36	8.44	9.07	9.55	9.78	9.07	7.65	7.40	5.92
27	6.78	6.53	7.59	8.34	8.44	-	9.55	9.74	9.07	7.61	7.36	5.88
28	6.74	6.53	7.57	8.30	8.32	-	9.55	9.69	9.07	7.65	7.30	5.84
29	6.69	6.53	7.57	8.28	-	-	9.57	9.69	9.03	7.65	7.24	5.78
30	6.65	6.53	7.57	8.24	-	9.36	9.53	9.69	8.99	7.61	7.19	5.74
31	6.61	-	7.55	8.19	-	9.42	-	9.69	-	7.57	7.15	-

1898-99

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.69	5.11	5.90	7.28	7.86	7.65	9.51	9.57	8.92	7.53	6.86	5.90
2	5.65	5.07	5.90	7.28	7.84	7.69	9.48	9.57	8.88	7.48	6.82	5.88
3	5.61	5.07	5.94	7.32	7.84	7.74	9.46	9.57	8.84	7.42	6.94	5.84
4	5.53	5.05	5.98	7.34	7.82	7.78	9.46	9.57	8.78	7.36	6.92	5.88
5	5.48	5.01	6.11	7.40	7.80	7.94	9.48	9.55	8.74	7.32	6.90	5.86
6	5.53	4.98	6.15	7.51	7.78	8.09	9.53	9.53	8.69	7.42	6.92	5.82
7	5.48	4.96	6.19	7.65	7.76	8.19	9.57	9.53	8.65	7.38	6.86	5.78
8	5.44	4.94	6.24	7.67	7.76	8.34	9.69	9.51	8.61	7.36	6.82	5.67
9	5.40	4.92	6.28	7.67	7.76	8.32	9.65	9.46	8.57	7.44	6.78	5.65
10	5.36	4.90	6.32	7.67	7.76	8.30	9.63	9.38	8.53	7.46	6.78	5.59
11	5.30	5.07	6.36	7.63	7.76	8.28	9.63	9.34	8.48	7.44	6.76	5.55
12	5.24	5.07	6.40	7.59	7.74	8.28	9.61	9.40	8.42	7.40	6.71	5.55
13	5.17	5.07	6.40	7.57	7.74	8.34	9.61	9.40	8.36	7.40	6.67	5.53
14	5.11	5.13	6.40	7.65	7.76	8.40	9.61	9.40	8.32	7.36	6.63	5.44
15	5.11	5.15	6.40	7.67	7.69	8.44	9.61	9.38	8.28	7.32	6.59	5.40
16	5.07	5.13	6.38	7.69	7.65	8.53	9.61	9.34	8.24	7.36	6.53	5.34
17	5.03	5.13	6.38	7.69	7.61	8.55	9.65	9.30	8.17	7.34	6.48	5.30
18	4.98	5.15	6.40	7.69	7.57	8.57	9.65	9.28	8.11	7.32	6.42	5.28
19	4.98	5.26	6.42	7.69	7.48	8.71	9.65	9.28	8.05	7.26	6.38	5.21
20	4.94	5.44	6.44	7.65	7.40	8.82	9.63	9.23	7.98	7.19	6.30	5.36
21	4.94	5.53	6.53	7.65	7.36	8.88	9.61	9.21	7.94	7.13	6.24	5.32
22	4.96	5.53	6.55	7.63	7.32	8.94	9.61	9.17	7.86	7.07	6.30	5.30
23	4.94	5.57	6.71	7.61	7.32	8.96	9.61	9.13	7.80	7.03	6.24	5.26
24	4.92	5.65	6.82	7.82	7.32	8.94	9.61	9.11	7.74	6.98	6.19	5.21
25	4.90	5.69	6.86	7.86	-	8.92	9.61	9.07	7.78	6.98	6.15	5.19
26	4.88	5.78	6.88	7.90	7.32	9.03	9.61	9.05	7.76	6.94	6.09	5.40
27	5.11	5.82	6.90	7.94	7.51	9.11	9.61	9.01	7.69	6.94	6.09	5.44
28	5.15	5.86	6.94	7.94	7.55	9.19	9.61	8.96	7.61	7.01	6.07	5.44
29	5.11	5.84	7.01	7.92	-	9.40	9.59	9.03	7.69	6.96	6.03	5.40
30	5.11	5.86	7.07	7.90	-	9.53	9.59	9.01	7.61	6.90	5.98	5.40
31	5.11	-	7.11	7.90	-	9.51	-	8.96	-	6.90	5.94	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1899-1900

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.38	4.65	4.48	5.38	6.67	8.28	9.07	9.69	9.55	8.76	7.86	6.53
2	5.36	4.69	4.51	5.40	6.67	8.61	9.11	9.69	9.53	8.69	7.80	6.48
3	5.32	4.69	4.53	5.40	6.67	8.61	9.13	9.71	9.51	8.61	7.74	6.44
4	5.28	4.71	4.53	5.40	6.69	8.59	9.13	9.69	9.48	8.53	7.67	6.38
5	5.24	4.76	4.57	5.40	6.94	8.53	9.15	9.69	9.46	8.61	7.61	6.32
6	5.19	4.76	4.57	5.42	7.05	8.46	9.19	9.69	9.44	8.69	7.57	6.24
7	5.24	4.74	4.57	5.42	7.13	8.40	9.21	9.69	9.42	8.69	7.48	6.28
8	5.19	4.74	4.57	5.44	7.17	8.34	9.21	9.65	9.40	8.69	7.44	6.24
9	5.15	4.71	4.57	5.44	7.32	8.28	9.23	9.65	9.40	8.65	7.40	6.19
10	5.11	4.69	4.57	5.44	7.38	8.21	9.28	9.65	9.38	8.65	7.36	6.13
11	5.07	4.67	4.57	5.48	7.44	8.19	9.32	9.65	9.34	8.65	7.32	6.07
12	5.03	4.67	4.61	5.59	7.51	8.17	9.36	9.65	9.36	8.61	7.28	6.01
13	5.01	4.67	4.61	5.67	7.74	8.17	9.40	9.65	9.32	8.55	7.24	5.94
14	4.98	4.65	4.61	5.69	8.11	8.19	9.44	9.63	9.28	8.48	7.24	5.90
15	4.94	4.74	4.65	5.76	8.24	8.21	9.48	9.61	9.40	8.42	7.19	5.86
16	4.92	4.71	4.65	5.78	8.30	8.38	9.53	9.63	9.36	8.36	7.24	5.86
17	4.90	4.74	4.69	5.78	8.34	8.40	9.57	9.78	9.34	8.30	7.19	5.86
18	4.98	4.74	4.74	5.78	8.36	8.42	9.61	9.80	9.32	8.24	7.13	5.82
19	4.98	4.74	4.78	5.82	8.32	8.44	9.65	9.90	9.28	8.19	7.09	5.76
20	4.96	4.76	4.82	5.86	8.32	8.53	9.69	9.78	9.23	8.15	7.03	5.69
21	4.90	4.76	4.84	6.15	8.30	8.61	9.74	9.61	9.19	8.11	6.98	5.65
22	4.84	4.76	4.86	6.24	8.40	8.65	9.78	9.61	9.15	8.05	6.94	5.61
23	4.82	4.74	4.88	6.30	8.63	8.69	9.82	9.63	9.11	7.98	6.90	5.57
24	4.78	4.71	4.90	-	8.63	8.74	9.76	9.63	9.07	7.92	6.86	5.53
25	4.74	4.69	5.03	6.44	8.63	8.80	9.76	9.65	9.03	7.86	6.82	5.46
26	4.69	4.65	5.13	6.48	8.46	8.84	9.74	9.65	8.99	8.07	6.78	5.40
27	4.65	4.59	5.21	6.53	8.40	8.90	9.71	9.65	8.94	8.05	6.74	5.36
28	4.61	4.55	5.30	-	8.34	8.92	9.69	9.63	8.92	8.01	6.69	5.32
29	4.61	4.51	5.30	6.61	-	8.99	9.67	9.61	8.90	7.96	6.65	5.28
30	4.61	4.48	5.32	6.63	-	9.01	9.69	9.59	8.84	7.92	6.61	5.24
31	4.61	-	5.36	6.65	-	9.03	-	9.57	-	7.90	6.57	-

1900-1901

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.24	4.07	2.90	2.78	3.11	3.07	6.07	9.32	9.57	8.99	8.55	8.92
2	5.17	4.01	2.86	-	3.11	3.09	6.09	9.36	9.61	8.94	8.53	8.94
3	5.11	3.94	2.82	-	3.11	3.09	-	9.44	9.61	8.90	8.48	8.90
4	5.05	3.90	2.82	-	3.11	3.11	6.36	9.48	9.61	8.99	8.44	8.90
5	5.01	3.86	2.98	-	3.11	3.11	6.48	9.48	9.59	8.99	8.40	8.88
6	4.96	3.82	2.98	-	3.11	3.11	6.65	9.44	9.57	9.01	8.36	8.86
7	4.94	3.78	2.96	-	3.11	3.11	6.86	9.44	9.55	9.03	8.69	8.82
8	4.90	3.74	2.94	-	3.11	3.11	7.03	9.44	9.61	9.05	8.90	8.78
9	4.86	3.69	2.92	-	3.11	3.11	7.11	9.44	9.61	9.07	8.94	8.76
10	4.80	3.61	2.92	2.82	3.11	3.13	7.19	-	9.59	9.07	8.92	8.74
11	4.71	3.53	2.90	2.82	3.11	3.40	7.28	9.63	9.59	9.03	8.99	8.69
12	4.63	3.44	2.88	2.86	3.11	3.65	7.34	9.57	9.61	9.03	8.99	8.65
13	4.57	3.36	2.86	2.86	3.11	3.74	7.38	9.48	9.59	8.99	8.96	8.69
14	4.57	3.28	2.86	2.86	3.11	3.78	-	9.55	9.57	8.99	8.94	8.65
15	4.63	3.19	2.84	2.90	3.11	3.94	-	9.57	9.55	8.94	8.90	8.61
16	4.57	3.15	2.82	2.94	3.11	4.03	-	9.53	9.53	8.90	8.86	8.65
17	4.53	3.11	2.80	2.98	3.11	4.07	7.48	9.48	9.48	8.90	8.82	8.65
18	4.48	3.07	2.78	3.03	3.11	4.11	7.53	9.44	9.44	8.90	9.23	8.67
19	4.44	3.03	2.78	3.05	3.11	4.17	7.57	9.40	9.40	8.86	9.53	8.65
20	4.38	2.98	2.78	3.05	3.11	4.24	-	9.36	9.36	8.82	9.61	8.63
21	4.36	2.94	2.78	3.05	3.11	4.57	7.90	9.32	9.32	8.76	9.61	8.59
22	4.32	2.94	2.78	3.07	3.11	5.07	8.28	9.32	9.28	8.71	9.61	8.57
23	4.30	2.90	2.78	3.07	3.11	5.19	-	9.36	9.26	8.67	9.48	8.53
24	4.36	2.86	2.78	3.07	3.11	5.28	-	9.36	9.28	8.63	9.40	8.48
25	4.32	2.86	2.78	3.09	3.09	5.44	8.86	9.48	9.26	8.59	9.48	8.44
26	4.30	3.03	2.78	3.09	3.09	5.57	9.03	9.48	9.19	8.59	9.38	8.40
27	4.26	3.03	2.78	3.09	3.09	5.69	9.11	9.48	9.13	8.55	9.26	8.36
28	4.21	3.01	2.78	3.11	3.07	5.78	9.15	9.57	9.11	8.51	9.11	8.34
29	4.19	2.98	2.78	3.11	-	5.84	9.19	9.65	9.07	8.44	9.01	8.40
30	4.14	2.94	2.78	3.11	-	5.90	9.23	9.63	9.01	8.51	8.94	8.42
31	4.11	-	2.78	3.11	-	6.01	-	9.57	-	8.55	8.88	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1901-2

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.42	7.40	6.40	8.44	7.78	8.36	9.32	9.67	9.38	9.05	8.67	7.74
2	8.40	7.36	6.40	8.15	7.74	8.86	9.38	9.74	9.38	9.05	8.63	7.69
3	8.38	7.32	6.40	7.98	7.69	9.03	9.44	9.74	9.36	9.03	8.69	7.65
4	8.34	7.28	6.44	7.88	7.65	8.90	9.48	9.67	9.32	9.03	8.69	7.61
5	8.28	7.26	6.44	7.82	7.59	8.78	9.48	9.61	9.28	9.03	8.69	7.53
6	8.24	7.21	6.44	7.78	7.53	8.69	9.48	9.57	9.23	9.03	8.65	7.46
7	8.19	7.19	6.53	7.74	7.48	8.57	9.53	9.57	9.19	8.99	8.59	7.40
8	8.15	7.15	6.53	7.69	7.48	8.40	9.53	9.55	9.15	8.94	8.53	7.36
9	8.11	7.09	6.53	7.65	7.48	8.36	9.57	9.53	9.11	8.90	8.44	7.28
10	8.07	7.05	6.44	7.65	7.51	8.32	9.53	9.51	9.07	8.86	8.36	7.32
11	8.03	7.01	6.53	7.65	7.51	8.36	9.48	9.48	9.07	8.82	8.44	7.32
12	7.98	6.96	6.53	7.65	7.53	8.40	9.44	9.48	9.07	8.78	8.42	7.28
13	7.94	6.92	6.57	7.65	7.53	8.46	9.40	9.48	9.07	8.74	8.38	7.24
14	8.07	6.90	7.19	7.63	7.53	8.57	9.40	9.46	9.15	8.69	8.34	7.19
15	8.07	6.86	7.44	7.61	7.53	8.59	9.40	9.44	9.11	8.67	8.28	7.15
16	8.03	6.82	7.61	7.57	7.53	8.61	9.40	9.42	9.07	8.65	8.24	7.11
17	7.98	6.78	7.61	7.53	7.57	8.78	9.40	9.40	9.03	8.61	8.19	7.07
18	7.94	6.74	7.61	7.48	7.61	8.82	9.42	9.38	8.99	8.57	8.15	7.03
19	7.90	6.69	7.65	7.51	7.61	8.82	9.44	9.36	8.94	8.55	8.11	6.98
20	7.86	6.65	7.69	7.53	7.61	8.82	9.46	9.36	8.90	8.53	8.17	6.94
21	7.82	6.61	7.74	7.53	7.61	8.78	9.48	9.36	8.86	8.53	8.15	6.90
22	7.78	6.57	7.78	8.11	7.61	8.71	9.48	9.36	9.01	8.48	8.13	6.86
23	7.74	6.53	7.82	8.15	7.78	8.71	9.48	9.36	8.99	8.44	8.09	6.86
24	7.69	6.48	7.86	8.07	7.65	8.71	9.46	9.36	8.94	8.36	8.03	6.94
25	7.65	6.57	7.86	8.03	7.53	8.71	9.44	9.36	8.90	8.44	7.98	6.98
26	7.61	6.53	7.86	7.98	7.40	8.78	9.42	9.36	8.96	8.48	7.92	7.03
27	7.57	6.48	7.86	7.94	7.48	8.82	9.40	9.36	8.94	8.48	7.86	7.11
28	7.53	6.44	8.03	7.94	7.57	8.86	9.38	9.42	8.92	8.48	7.82	7.15
29	7.51	6.40	8.19	7.90	-	8.94	9.36	9.42	8.88	8.48	7.82	7.19
30	7.48	6.40	8.44	7.86	-	9.19	9.61	9.40	9.03	8.53	7.82	7.19
31	7.44	-	8.57	7.82	-	9.23	-	9.40	-	8.57	7.78	-

1902-3

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.32	8.19	7.65	7.86	7.57	7.94	9.07	9.40	8.57	9.48	8.69	8.42
2	7.44	8.19	7.65	7.74	7.57	8.01	9.11	9.38	8.53	9.48	8.65	8.40
3	7.53	8.19	7.65	7.69	7.59	8.07	9.19	9.38	8.48	9.51	8.59	8.38
4	7.53	8.19	7.65	7.65	7.65	8.13	9.23	9.36	8.42	9.51	8.53	8.36
5	7.57	8.19	7.65	7.61	7.76	8.17	9.23	9.36	8.36	9.44	8.76	8.32
6	7.69	8.19	7.74	7.57	7.78	8.21	9.26	9.36	8.32	9.36	8.78	8.28
7	7.74	8.19	7.78	7.53	7.78	8.36	9.28	9.34	8.28	9.28	9.03	8.24
8	7.74	8.15	7.82	7.48	7.82	8.36	9.36	9.32	8.36	9.21	9.07	8.17
9	7.78	8.11	7.82	7.44	7.86	8.44	9.40	9.30	8.36	9.13	9.07	8.11
10	7.78	8.07	7.82	7.40	7.84	8.44	9.44	9.28	8.36	9.05	9.07	8.07
11	7.78	8.07	7.82	7.40	7.82	8.40	9.48	9.23	8.36	8.96	9.07	8.01
12	7.90	8.05	7.80	7.36	7.94	8.36	9.53	9.19	8.63	8.96	9.07	7.94
13	8.03	8.03	7.78	7.32	7.94	8.44	-	9.15	9.26	8.94	9.03	7.88
14	8.03	8.01	7.76	7.26	7.94	8.53	-	9.11	9.38	8.90	8.99	7.82
15	8.03	7.98	7.86	7.21	7.94	8.57	9.78	9.07	9.61	8.88	8.94	7.78
16	8.03	7.96	8.07	7.21	8.03	8.69	-	9.03	9.61	8.86	8.88	7.74
17	8.03	7.94	8.32	7.21	8.11	8.67	9.86	8.99	9.61	8.82	8.82	7.94
18	8.03	7.92	8.51	7.21	8.11	8.71	9.82	8.94	9.59	8.78	8.78	8.03
19	8.03	7.90	8.57	7.26	8.07	8.76	9.74	8.90	9.55	8.86	8.74	8.03
20	8.03	7.90	8.61	7.36	8.03	8.80	9.65	8.86	9.53	8.88	8.69	8.03
21	8.01	7.86	8.65	7.40	8.01	8.82	9.61	8.82	9.46	8.88	8.65	7.98
22	7.98	7.82	8.90	7.40	7.98	9.03	9.57	8.78	9.44	9.03	8.61	7.94
23	7.96	7.78	9.03	7.40	7.94	9.11	9.53	8.74	9.42	9.03	8.57	7.90
24	7.94	7.74	8.94	7.40	7.90	9.19	9.48	8.69	9.40	8.99	8.53	7.86
25	7.90	7.69	8.82	7.40	7.86	9.11	9.42	8.65	9.36	8.94	8.48	7.78
26	7.86	-	8.71	7.42	7.84	9.07	9.42	8.61	9.32	8.94	8.48	7.69
27	7.82	7.74	8.53	7.44	7.82	9.01	9.42	8.57	9.28	8.90	8.48	7.61
28	8.07	7.74	8.40	7.53	7.90	8.88	9.42	8.57	9.28	8.86	8.48	7.61
29	8.15	7.74	8.28	7.55	-	8.82	9.42	8.61	9.40	8.82	8.48	7.61
30	8.19	7.69	8.15	7.55	-	-	9.42	8.61	9.46	8.78	8.48	7.57
31	8.19	-	8.03	7.55	-	-	-	8.61	-	8.74	8.44	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1903-4

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.53	8.07	7.11	7.34	7.38	7.40	8.21	9.07	8.90	8.32	7.19	5.84
2	7.48	8.03	7.07	7.32	7.38	7.42	8.32	9.07	8.90	8.28	7.15	5.78
3	7.44	7.98	7.03	7.30	7.36	7.44	8.40	9.07	8.90	8.24	7.11	5:71
4	7.40	7.98	7.03	7.28	7.34	7.46	8.40	9.07	8.90	8.19	7.07	5.65
5	7.36	7.98	6.98	7.26	7.32	7.48	8.53	9.07	8.94	8.15	7.03	5.61
6	7.30	7.98	6.94	7.24	7.30	7.51	8.53	9.07	8.94	8.11	6.98	5.55
7	7.24	7.98	6.90	7.21	7.30	7.65	8.57	9.07	8.94	8.07	6.92	5.48
8	7.19	7.98	6.86	7.19	7.32	7.78	8.61	9.07	8.99	8.28	6.86	5.42
9	7.65	7.96	6.86	7.19	7.32	7.86	8.65	9.05	-	8.32	6.80	5.40
10	9.53	7.94	6.86	7.15	7.32	7.94	8.74	9.03	9.05	8.32	6.74	5.38
11	9.69	7.90	6.82	7.13	7.32	7.98	8.78	9.01	9.07	8.28	6.69	5.36
12	9.48	7.86	6.78	7.11	7.30	7.92	8.82	8.99	9.07	8.19	6.65	5.32
13	9.28	7.82	6.74	7.09	7.28	7.86	8.86	8.94	9.05	8.11	6.61	5.28
14	8.99	7.78	6.82	7.07	7.26	7.82	8.90	8.90	9.03	8.03	6.57	5.24
15	8.86	7.76	6.80	7.05	7.24	7.78	8.92	8.90	8.99	7.94	6.53	5.69
16	8.78	7.69	6.78	7.05	7.24	7.74	8.94	8.90	8.94	7.86	6.48	5.78
17	8.71	7.69	6.78	7.05	7.21	7.69	8.96	8.90	8.90	7.78	6.44	5.78
18	8.69	7.69	6.78	7.03	7.19	7.65	8.99	8.90	8.86	7.90	6.40	5.76
19	8.65	7.65	6.78	7.03	7.17	7.63	8.99	8.94	8.82	7.90	6.36	5.69
20	8.65	7.61	6.82	7.01	7.15	7.63	8.99	8.94	8.78	7.86	6.32	5.63
21	8.65	7.57	7.15	6.98	7.13	7.63	9.01	8.94	8.74	7.82	6.32	5.57
22	8.65	7.57	7.28	7.07	7.21	7.67	9.01	8.94	8.69	7.82	6.32	5.51
23	8.65	7.53	7.36	7.11	7.28	7.71	9.03	8.94	8.65	7.78	6.30	5.42
24	8.65	7.48	7.40	7.19	7.30	7.74	9.03	8.96	8.61	7.74	6.26	5.36
25	8.53	7.44	7.40	7.24	7.30	7.78	9.03	8.96	8.57	7.67	6.21	5.32
26	8.44	7.40	7.40	7.28	7.32	7.86	9.03	8.96	8.53	7.61	6.15	5.40
27	8.32	7.36	7.40	7.32	7.32	7.90	9.03	8.99	8.48	7.55	6.09	5.40
28	8.19	7.30	7.40	7.34	7.32	7.94	9.07	8.99	8.44	7.48	6.03	5.40
29	8.11	7.24	7.40	7.36	7.38	7.98	9.09	8.99	8.40	7.40	5.98	5.40
30	8.11	7.15	7.38	7.36	-	8.03	9.09	8.94	8.36	7.32	5.94	5.40
31	8.11	-	7.36	7.36	-	8.07	-	8.90	-	7.24	5.88	-

1904-5

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.34	5.76	5.61	5.86	7.53	6.57	9.48	8.78	7.82	6.86	5.53	4.80
2	5.28	5.71	5.61	5.90	7.48	6.57	9.46	8.74	7.80	6.90	5.48	4.78
3	5.24	5.67	5.63	5.94	7.44	6.59	9.44	8.69	7.78	6.90	5.44	4.94
4	5.19	5.65	5.63	5.98	7.40	6.59	9.40	8.65	7.76	6.90	5.40	5.01
5	5.17	5.61	5.65	5.98	7.36	6.61	9.40	8.61	7.74	6.86	5.36	5.03
6	5.13	5.57	5.65	5.98	7.36	6.61	9.44	8.57	7.71	6.82	5.32	5.03
7	5.11	5.57	5.67	6.48	7.34	6.61	9.40	8.48	7.69	6.78	5.28	5.03
8	5.07	5.57	5.69	7.15	7.32	6.61	9.32	8.44	7.67	6.74	5.24	5.01
9	5.03	5.57	5.71	7.30	7.28	6.61	9.23	8.40	7.65	6.69	5.19	4.98
10	5.01	5.53	5.74	7.44	7.24	6.65	9.15	8.36	7.61	6.63	5.15	4.94
11	4.98	5.53	5.78	7.53	7.19	6.69	9.11	8.32	7.57	6.57	5.13	4.90
12	4.98	5.53	5.78	7.69	7.15	6.74	9.11	8.32	7.53	6.53	5.11	5.15
13	4.96	5.57	5.78	7.78	7.15	6.78	9.11	8.32	7.53	6.48	5.07	5.19
14	4.94	5.74	5.76	7.86	7.11	6.80	9.11	8.32	7.53	6.44	5.07	5.19
15	4.90	5.69	5.74	7.88	7.07	6.82	9.09	8.32	7.48	6.44	5.15	5.19
16	4.88	5.69	5.71	7.90	7.03	6.84	9.01	8.32	7.44	6.36	5.15	5.19
17	4.84	5.67	5.69	7.88	7.01	6.86	8.92	8.30	7.40	6.28	5.15	5.17
18	4.78	5.65	5.67	7.86	6.96	6.90	8.86	8.28	7.36	6.19	5.11	5.24
19	4.71	5.63	5.65	7.82	6.92	7.03	8.80	8.26	7.32	6.15	5.07	5.24
20	4.65	5.61	5.63	7.78	6.86	7.24	8.76	8.24	7.32	6.11	5.03	5.24
21	4.86	5.61	5.61	7.74	6.82	7.57	8.76	8.21	7.28	6.07	4.98	5.24
22	5.44	5.61	5.61	7.69	6.78	7.84	8.76	8.19	7.28	6.03	4.94	5.24
23	5.57	5.61	5.65	7.69	6.74	8.07	8.76	8.15	7.24	5.94	4.90	5.24
24	5.61	5.61	5.65	7.69	6.69	8.24	8.76	8.11	7.19	5.90	4.86	5.21
25	5.65	5.61	5.65	7.74	6.65	8.48	8.76	8.07	7.15	5.82	4.92	5.19
26	5.69	5.61	5.65	7.76	6.63	8.65	8.76	8.03	7.09	5.74	4.94	5.15
27	5.71	5.61	5.69	7.74	6.61	8.78	8.76	7.98	7.03	5.65	4.92	5.11
28	5.74	5.61	5.74	7.71	6.59	8.90	8.76	7.94	6.94	5.57	4.88	5.07
29	5.76	5.61	5.78	7.65	-	9.09	8.76	7.90	6.90	5.55	4.86	5.03
30	5.78	5.61	5.82	7.61	-	9.23	8.76	7.86	6.90	5.55	4.84	4.98
31	5.78	-	5.82	7.57	-	9.36	-	7.84	-	5.55	4.82	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1905-6

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.96	4.65	4.19	5.36	6.59	7.57	8.82	9.34	9.69	9.40	9.44	8.34
2	4.94	4.61	4.24	5.40	6.61	7.65	8.86	9.34	9.65	9.36	9.53	8.30
3	4.94	4.59	4.32	5.44	6.61	7.69	8.90	9.34	9.57	9.36	9.57	8.26
4	4.94	4.57	4.40	5.57	6.61	7.78	8.94	9.36	9.51	9.40	9.61	8.26
5	4.90	4.53	4.46	5.61	6.61	7.82	8.99	9.36	9.44	9.44	9.57	8.21
6	4.86	4.53	4.53	5.65	6.61	7.98	9.03	9.36	9.40	9.42	9.55	8.19
7	4.82	4.51	4.57	5.69	6.61	8.07	9.07	9.40	9.40	9.40	9.53	8.15
8	4.78	4.48	4.61	5.74	6.61	8.26	9.11	9.40	9.36	9.36	9.51	8.11
9	4.74	4.46	4.65	5.74	6.61	8.32	9.28	9.40	9.32	9.36	9.48	8.07
10	4.69	4.44	4.69	5.76	6.65	8.36	9.36	9.42	9.30	9.36	9.44	8.03
11	4.65	4.42	4.74	5.78	6.65	8.38	9.42	9.42	9.30	9.34	9.38	7.98
12	4.69	4.40	4.78	5.86	6.65	8.40	9.38	9.42	9.28	9.34	9.30	7.94
13	4.67	4.38	4.78	5.94	6.69	8.42	9.34	9.44	9.23	9.32	9.21	7.90
14	4.65	4.36	4.78	5.94	6.69	8.44	9.48	9.46	9.21	9.30	9.11	7.86
15	4.65	4.32	4.78	5.98	6.69	8.46	9.53	9.48	9.19	9.28	9.03	7.82
16	4.65	4.28	4.78	6.03	6.69	8.61	9.53	9.51	9.23	9.21	8.94	7.78
17	4.63	4.24	4.78	6.07	6.74	8.63	9.53	9.51	9.28	9.15	8.86	7.74
18	4.63	4.19	4.78	6.11	6.78	8.65	9.51	9.57	9.32	9.23	8.78	7.69
19	4.61	4.17	4.78	6.15	6.82	8.69	9.48	9.59	9.34	9.23	8.71	7.65
20	4.74	4.17	4.78	6.19	6.86	8.82	9.46	9.61	9.36	9.19	8.65	7.61
21	4.82	4.14	4.78	6.21	6.86	8.71	9.44	9.57	9.32	9.15	8.61	7.57
22	4.82	4.11	4.96	6.26	6.90	8.65	9.42	9.53	9.38	9.21	8.57	7.53
23	4.82	4.07	4.98	6.30	6.96	8.61	9.40	9.48	9.44	9.19	8.53	7.55
24	4.82	4.03	5.01	6.40	7.03	8.57	9.38	9.46	9.44	9.17	8.48	7.53
25	4.82	3.98	5.03	6.44	7.19	8.53	9.36	9.44	9.42	9.15	8.44	7.48
26	4.82	3.94	5.05	6.44	7.28	8.53	9.36	9.44	9.38	9.13	8.40	7.38
27	4.80	3.90	5.07	6.51	7.40	8.53	9.32	9.48	9.34	9.11	8.44	7.40
28	4.78	3.86	5.09	6.51	7.48	8.53	9.32	9.61	9.36	9.15	8.48	7.36
29	4.76	4.07	5.17	6.53	-	8.53	9.32	9.82	9.40	9.15	8.46	7.32
30	4.74	4.14	5.24	6.55	-	8.61	9.32	9.76	9.44	9.34	8.42	7.28
31	4.69	-	5.30	6.57	-	8.76	-	9.74	-	9.36	8.38	-

1906-7

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.24	6.53	6.17	6.78	8.32	7.57	9.30	9.30	9.11	8.96	7.78	6.32
2	7.19	6.53	6.13	6.94	8.36	7.57	9.28	9.30	9.09	8.94	7.74	6.28
3	7.15	6.53	6.11	7.19	8.40	7.57	9.28	9.30	9.30	8.92	7.69	6.19
4	7.11	6.53	6.07	7.24	8.44	7.57	9.26	9.30	9.32	8.90	7.65	6.15
5	7.15	6.51	6.07	7.28	-	7.57	9.23	9.32	9.32	8.88	7.61	6.24
6	7.15	6.48	6.09	7.30	8.53	7.57	-	9.34	9.30	8.84	7.57	6.19
7	7.11	6.44	6.11	7.34	8.51	7.57	-	9.34	9.30	8.80	7.53	6.15
8	7.07	6.40	6.15	7.38	8.36	7.57	-	9.34	9.28	8.76	7.48	6.11
9	7.03	6.36	6.19	7.44	8.28	7.57	9.28	9.36	9.26	8.74	7.44	6.15
10	7.03	6.32	6.17	7.48	8.21	7.57	9.32	9.34	9.23	8.69	7.40	6.11
11	6.98	6.28	6.15	7.53	8.11	7.57	9.40	9.34	9.21	8.65	7.34	6.07
12	6.94	6.24	6.13	7.57	8.03	7.55	9.44	9.32	9.19	8.69	7.28	6.15
13	6.90	6.19	6.11	7.65	7.94	7.55	9.44	9.30	9.15	8.69	7.21	6.11
14	6.86	6.15	6.11	7.74	7.86	7.61	9.40	9.28	9.13	8.59	7.15	6.07
15	6.82	6.15	6.13	7.82	7.78	7.65	9.36	9.26	9.15	8.53	7.05	6.01
16	6.78	6.24	6.13	7.86	7.69	7.69	9.32	9.23	9.13	8.48	6.98	5.94
17	6.74	6.24	6.15	7.94	7.61	7.78	9.26	9.36	9.11	8.44	6.94	5.88
18	-	6.28	6.17	7.98	7.53	8.03	9.30	9.36	9.07	8.44	6.90	5.82
19	-	6.30	6.19	8.07	7.53	8.15	9.32	9.36	9.03	8.40	6.86	5.78
20	6.74	6.30	6.24	8.11	7.57	8.30	9.34	9.36	8.99	8.36	6.82	5.74
21	6.71	6.30	6.26	8.15	7.57	8.40	9.32	9.34	9.07	8.32	6.76	5.69
22	6.74	6.30	6.28	8.17	7.57	8.48	9.32	9.32	9.03	8.28	6.69	5.69
23	6.74	6.30	6.30	8.19	7.59	8.61	9.30	9.30	9.01	8.24	6.61	5.82
24	6.74	6.30	6.32	8.21	7.59	8.74	9.40	9.28	8.99	8.19	6.53	6.36
25	6.69	6.30	6.34	8.24	7.63	8.86	9.40	9.23	8.94	8.15	6.67	6.53
26	6.65	6.28	6.36	8.26	7.61	8.94	9.38	9.19	8.90	8.11	6.63	6.57
27	6.61	6.26	6.40	8.28	7.59	9.03	9.38	9.19	8.94	8.05	6.59	6.57
28	6.57	6.24	6.44	8.28	7.57	9.07	-	9.19	8.92	7.98	6.53	6.61
29	6.55	6.21	6.48	8.28	-	9.11	9.32	9.17	8.90	7.94	6.46	6.82
30	6.53	6.19	6.53	8.28	-	9.15	9.28	9.15	8.96	7.88	6.40	6.84
31	6.51	-	6.61	8.28	-	9.19	-	9.13	-	7.84	6.36	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1907-8

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.84	8.17	-	8.28	7.86	8.40	8.84	9.32	9.57	9.07	8.46	7.11
2	6.84	8.19	9.05	8.17	7.94	8.40	8.82	9.36	9.44	9.03	8.40	7.07
3	6.84	8.53	8.92	8.21	7.94	8.40	8.80	9.38	9.36	9.15	8.36	7.03
4	6.90	8.69	8.86	8.24	7.92	8.38	8.80	9.40	9.36	9.11	8.32	6.98
5	6.94	8.69	8.88	8.28	7.90	8.36	8.78	9.40	9.36	9.11	8.28	6.94
6	6.98	8.78	8.90	8.30	7.92	8.34	8.74	9.40	9.32	9.07	8.24	6.90
7	7.03	9.17	8.92	8.36	7.90	8.36	8.69	-	9.28	9.03	8.11	6.84
8	7.11	9.36	8.86	8.38	7.86	8.34	8.65	9.57	9.28	8.99	8.07	6.78
9	7.40	9.42	8.78	8.36	7.82	8.32	8.82	9.57	9.23	8.94	8.01	6.71
10	7.53	9.28	8.94	8.34	7.78	8.30	8.86	9.57	9.21	8.90	7.94	6.65
11	7.57	9.19	9.07	8.32	7.69	8.28	8.90	9.57	9.19	8.86	7.88	6.59
12	7.61	9.15	9.11	8.28	7.61	8.28	8.90	9.53	9.15	8.80	7.82	6.55
13	7.65	9.13	9.11	8.44	7.57	8.28	8.92	9.48	9.13	8.76	7.76	6.48
14	7.65	8.92	9.11	8.51	7.67	8.36	8.94	9.53	9.11	8.67	7.76	6.44
15	7.65	8.74	9.19	8.48	7.74	8.40	8.96	9.57	9.09	8.67	7.71	6.38
16	7.63	8.65	9.11	8.46	7.90	8.44	8.99	9.53	9.57	8.63	7.69	6.34
17	7.63	8.59	9.03	8.44	8.01	8.53	9.01	9.48	9.51	8.57	7.65	6.28
18	7.63	8.55	8.94	8.40	8.03	8.59	9.03	9.48	9.42	8.48	7.59	6.21
19	7.61	8.63	8.86	8.32	8.03	8.80	9.05	9.48	9.36	8.44	7.53	6.15
20	7.61	8.67	8.78	8.24	8.17	8.88	9.07	-	9.36	8.40	7.44	6.09
21	7.63	-	8.67	8.15	8.13	8.92	9.09	-	9.34	8.36	7.38	6.03
22	7.61	8.74	8.57	8.03	8.11	8.94	9.11	9.61	9.32	8.32	7.32	5.96
23	7.59	8.78	8.48	7.90	8.09	8.92	9.13	9.59	9.32	8.28	7.28	5.90
24	7.57	8.86	8.65	7.90	8.07	8.92	9.15	9.51	9.38	8.24	7.24	5.84
25	7.55	8.99	8.65	7.84	8.05	8.90	9.17	9.44	9.36	8.32	7.19	5.78
26	7 53	9.03	8.61	7.74	8.03	8.88	9.17	9.40	9.32	8.65	-	5.71
27	7.51	9.07	8.61	7.74	8.32	8.88	9.19	9.36	9.28	8.76	-	5.65
28	7.74	9.09	8.61	7.74	8.36	8.86	9.19	9.40	9.23	8.71	7.28	5.59
29	7.98	9.11	8.61	7.74	8.38	8.86	9.21	9.40	9.17	8.67	7.24	5.82
30	8.09	9.13	8.53	7.76	-	8.86	9.23	9.40	9.13	8.61	7.19	5.78
31	8.15	-	8.38	7.78	-	8.86	-	9.61	-	8.53	7.15	-

1908-9

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.74	4.65	3.74	4.01	5.24	8.09	8.96	9.44	9.28	8.96	7.28	5.98
2	5.69	4.61	3.71	4.01	5.26	8.15	8.96	9.46	9.23	8.94	7.21	5.90
3	5.65	4.55	3.69	4.01	5.28	8.21	8.99	9.48	9.17	8.90	7.15	5.82
4	5.61	4.48	3.69	4.03	5.30	8.36	8.99	9.53	9.11	8.86	7.09	5.74
5	5.57	4.44	3.69	4.03	5.32	8.40	8.96	9.51	9.09	8.78	7.03	5.74
6	5.53	4.38	3.69	4.32	5.34	8.44	8.96	9.46	9.13	8.69	6.96	5.69
7	5.46	4.32	3.82	4.42	5.36	8.44	8.94	-	9.15	8.61	6.90	5.63
8	5.40	4.28	3.82	4.51	5.38	8.53	8.94	9.51	9.15	8.53	6.84	5.57
9	5.34	4.24	3.82	4.57	5.40	8.55	8.92	9.51	9.15	8.46	6.78	5.51
10	5.28	4.19	3.82	4.61	5.53	8.59	8.92	9.51	9.19	8.40	6.71	5.42
11	5.21	4.14	3.82	4.65	5.69	8.63	8.90	9.59	9.15	8.34	6.65	5.36
12	5.15	4.11	3.90	4.78	5.76	8.59	8.90	9.57	9.07	8.28	6.59	5.30
13	5.09	4.07	3.94	4.74	5.84	8.59	8.90	9.53	9.03	8.21	6.53	5.24
14	5.03	4.03	3.94	4.78	5.88	8.61	9.11	9.48	9.03	8.15	6.44	5.19
15	4.98	4.03	3.94	4.82	5.94	8.57	9.34	9.46	9.03	8.09	6.38	5.15
16	4.94	4.03	3.94	4.82	6.07	8.57	9.42	9.44	9.03	8.05	6.38	5.11
17	4.90	4.03	3.98	4.86	6.19	8.55	9.38	9.40	8.99	7.98	6.65	5.07
18	4.86	3.98	3.98	4.90	6.30	8.55	9.34	9.36	9.15	7.92	6.69	5.03
19	4.80	3.94	3.98	4.94	6.38	8.53	9.30	9.32	9.19	7.86	6.69	4.98
20	4.74	3.90	4.01	4.98	6.65	8.53	9.28	-	9.23	7.82	6.65	4.94
21	4.69	3.86	4.01	5.01	6.86	8.51	9.28	-	9.23	7.78	6.61	4.90
22	4.65	3.82	4.01	5.03	6.98	8.51	9.26	-	9.19	7.74	6.59	4.86
23	4.61	3.78	3.98	5.05	7.11	8.51	9.23	9.32	9.15	7.71	6.55	4.82
24	4.57	3.74	3.98	5.07	7.36	8.48	9.21	9.32	9.11	7.69	6.51	4.78
25	4.53	3.74	3.98	5.11	7.61	8.69	9.19	9.32	9.11	7.65	6.44	4.74
26	4.65	3.74	3.98	5.13	7.78	8.80	9.15	9.32	9.11	7.61	6.38	4.69
27	4.69	3.76	3.98	5.15	7.90	8.86	9.13	9.32	9.11	7.53	6.32	4.65
28	4.69	3.76	3.96	5.17	8.01	-	9.19	9.32	9.07	7.44	6.26	4.61
29	4.69	3.76	3.96	5.19	-	8.94	-	9.32	9.03	7.38	6.19	4.55
30	4.69	3.76	3.96	5.19	-	8.94	-	9.32	8.99	7.32	6.13	4.48
31	4.69	-	4.01	5.19	-	8.94	-	9.32	-	7.32	6.07	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1909-10

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.40	2.78	1.94	2.86	4.90	6.65	9.09	9.48	9.32	9.19	7.57	6.28
2	4.34	2.74	1.94	2.86	4.92	6.98	9.11	9.44	9.32	9.15	7.51	6.28
3	4.28	2.69	1.92	2.86	4.94	7.19	9.11	9.44	9.32	9.11	7.51	6.28
4	4.24	2.65	1.92	2.86	4.96	7.36	9.13	9.46	9.28	9.07	7.44	6.24
5	4.19	2.61	1.92	2.86	4.98	7.53	9.13	9.46	9.23	9.03	7.40	6.19
6	4.14	2.55	1.90	2.86	5.01	7.65	9.15	9.46	9.32	8.99	7.36	6.19
7	4.11	2.48	1.90	2.94	5.03	7.86	9.15	9.48	9.32	8.94	7.34	6.19
8	4.03	2.44	1.90	2.94	5.07	8.03	9.17	9.48	9.30	8.90	7.24	6.15
9	3.98	2.40	1.94	2.94	5.11	8.13	9.17	9.48	9.28	8.86	7.19	6.11
10	3.94	2.36	1.94	2.98	5.15	8.21	9.19	9.53	-	8.80	7.15	6.07
11	3.88	2.32	1.94	3.03	5.19	8.30	9.19	9.51	9.36	8.76	7.28	6.03
12	3.82	2.28	1.94	3.03	5.24	8.38	9.19	9.46	9.48	8.69	7.24	5.96
13	3.76	2.24	1.94	3.07	5.28	8.46	9.15	9.44	9.48	8.63	7.19	5.90
14	3.69	2.19	2.32	3.07	5.30	8.57	9.11	9.44	9.46	8.59	7.15	5.84
15	3.63	2.15	2.53	3.15	5.32	8.61	9.07	9.44	9.44	8.53	7.11	5.78
16	3.57	2.11	2.63	3.17	5.32	8.67	-	9.40	9.44	8.48	7.07	5.71
17	3.51	2.07	2.67	3.19	5.34	8.74	9.03	9.40	9.48	8.42	7.03	5.65
18	3.44	2.03	2.69	3.21	5.34	8.78	9.15	9.40	9.53	8.36	6.98	5.59
19	3.40	1.98	2.71	3.24	5.36	8.82	9.32	9.40	9.57	8.32	6.96	5.55
20	3.36	1.90	2.74	3.28	5.36	8.88	9.40	9.40	9.48	8.28	6.92	5.51
21	3.32	1.86	2.76	3.32	5.67	8.94	9.44	9.44	9.44	8.19	6.86	5.44
22	3.28	1.82	2.78	3.74	5.80	8.99	9.46	9.48	9.42	8.11	6.82	5.36
23	3.24	1.78	2.78	4.11	5.96	9.05	9.46	9.53	9.40	8.07	6.76	5.30
24	3.19	1.86	2.78	4.28	6.03	9.11	-	9.53	9.36	8.03	6.69	5.24
25	3.15	1.94	2.78	4.36	6.11	9.11	9.59	9.57	9.32	7.98	6.63	5.19
26	3.09	1.94	2.86	4.53	6.19	9.09	9.78	9.61	9.28	7.94	6.57	5.15
27	3.03	1.94	2.86	4.63	6.28	9.07	9.78	9.57	9.28	7.90	6.51	5.11
28	2.96	1.94	2.86	4.69	6.40	9.05	9.74	9.51	9.28	7.84	6.44	5.07
29	2.90	1.94	2.86	4.74	-	9.05	9.59	9.44	9.28	7.78	6.38	5.03
30	2.86	1.94	2.86	4.82	-	9.05	9.53	9.38	9.23	7.71	6.34	4.94
31	2.82	-	2.86	4.86	-	9.07	-	9.32	-	7.65	6.26	-

1910-11

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.90	3.44	2.96	3.11	4.48	5.09	6.61	8.13	7.78	8.90	8.40	8.03
2	4.84	3.40	2.96	3.19	4.48	5.11	6.69	8.15	7.76	8.86	8.36	8.07
3	4.78	3.36	2.94	3.40	4.51	5.13	6.74	8.15	7.74	8.82	8.32	8.07
4	4.71	3.61	2.94	3.57	4.61	5.15	6.78	8.17	7.71	8.80	8.28	8.03
5	4.65	3.69	2.94	3.69	4.63	5.17	6.90	8.17	7.69	8.78	8.24	8.03
6	4.57	3.69	2.94	3.74	4.67	5.21	7.03	8.19	7.69	8.74	8.17	8.03
7	4.53	3.69	2.94	3.78	4.69	5.24	7.15	8.19	7.69	8.71	8.13	8.01
8	-	3.69	2.94	3.82	4.71	5.26	7.24	8.17	7.69	8.67	8.09	7.98
9	4.48	3.65	2.94	3.86	4.74	5.28	7.32	8.17	7.67	8.61	8.05	7.96
10	4.42	3.61	2.94	3.86	4.76	5.30	7.36	8.15	7.65	8.57	8.01	7.94
11	4.34	3.57	2.94	3.90	4.78	5.32	7.40	8.15	7.67	8.55	7.96	7.90
12	4.28	3.53	2.90	3.94	4.80	5.34	7.44	8.13	8.03	8.48	7.92	7.90
13	4.21	3.48	2.88	3.98	4.82	5.36	7.48	8.11	8.40	8.44	7.88	7.90
14	4.14	3.44	2.86	4.07	4.84	5.38	7.53	8.11	8.65	8.40	7.82	7.86
15	4.11	3.44	2.84	4.14	4.88	5.48	7.57	8.11	8.74	8.48	7.76	7.82
16	4.05	3.40	2.82	4.19	4.90	5.53	7.61	8.11	8.82	8.48	7.88	7.86
17	3.98	3.36	2.80	4.21	4.92	5.57	7.63	8.11	8.88	8.44	7.82	7.86
18	3.92	3.32	2.78	4.21	4.94	5.61	7.65	8.11	8.90	8.46	7.78	7.82
19	3.92	3.28	2.78	4.24	4.96	5.69	7.69	8.09	8.92	8.44	7.74	7.78
20	3.92	3.24	2.76	4.24	4.96	5.78	7.78	8.07	8.92	8.40	7.69	7.74
21	3.90	3.19	2.76	4.26	4.98	5.82	7.86	8.05	8.92	8.53	7.65	7.69
22	3.86	3.15	2.74	4.28	4.98	5.86	7.94	8.03	8.90	8.65	7.61	7.65
23	3.82	3.11	2.74	4.32	5.01	5.90	7.98	8.01	8.90	8.61	7.55	7.63
24	3.78	3.07	2.88	4.34	5.01	5.92	8.03	7.98	8.99	8.63	7.57	7.61
25	3.74	3.03	2.92	4.38	5.03	5.94	8.07	7.96	8.99	8.61	7.57	7.57
26	3.67	2.98	2.92	4.38	5.03	5.96	8.07	7.94	8.99	8.59	7.53	7.57
27	3.61	2.98	2.92	4.40	5.05	6.07	8.09	7.90	8.99	8.57	7.53	7.55
28	3.61	2.98	2.94	4.42	5.09	6.19	8.09	7.86	8.99	8.55	7.57	7.53
29	3.57	2.98	2.98	4.44	-	6.28	8.11	7.82	8.99	8.53	7.65	7.53
30	3.53	2.98	3.03	4.46	-	6.42	8.11	7.80	8.94	8.48	7.78	7.53
31	3.48	-	3.07	4.48	-	6.53	-	7.78	-	8.44	7.94	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1911-12

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.53	8.57	8.46	7.94	7.51	8.11	9.30	9.13	9.11	7.98	6.15	5.07
2	7.53	8.53	8.44	7.92	7.51	8.15	9.21	9.23	9.11	7.92	6.07	5.15
3	7.53	8.48	8.40	7.90	7.48	8.17	9.19	9.26	9.11	7.86	6.03	5.15
4	7.53	8.44	8.38	7.88	7.48	8.19	9.17	9.28	9.09	7.80	5.96	5.13
5	7.53	8.40	8.36	7.86	7.46	8.21	9.17	9.30	9.07	7.71	5.90	5.11
6	7.61	8.36	8.32	7.84	7.46	8.24	9.17	9.34	9.07	7.61	5.84	5.09
7	7.61	8.48	8.28	7.82	7.44	8.26	9.17	9.36	9.11	7.57	5.78	4.98
8	7.61	8.48	8.24	7.80	7.42	8.28	9.23	9.44	9.11	7.53	5.71	5.03
9	7.61	8.48	8.19	7.78	7.40	8.32	9.23	9.53	9.09	7.44	5.63	4.98
10	7.61	8.44	8.15	7.78	7.38	8.36	9.21	9.53	9.05	7.36	5.55	4.94
11	7.61	8.40	8.11	7.78	7.36	8.38	9.19	9.48	9.01	7.28	5.74	4.88
12	7.61	8.38	8.07	7.76	7.34	8.40	9.17	9.44	8.96	7.24	5.74	4.90
13	7.61	8.36	8.03	7.74	7.34	8.69	9.15	9.42	8.92	7.19	5.74	4.86
14	7.61	8.32	7.98	7.71	7.32	8.86	-	9.40	8.86	7.11	5.71	4.82
15	7.61	8.36	7.94	7.71	7.32	8.92	9.11	9.36	8.82	7.07	5.69	4.78
16	7.59	8.40	7.90	7.69	7.30	9.34	9.11	9.34	8.78	7.03	5.65	4.78
17	7.57	8.42	8.09	7.65	7.30	9.34	9.09	9.42	8.74	6.96	5.61	4.74
18	7.69	8.48	8.07	7.61	7.30	9.34	9.15	9.40	8.69	6.90	5.61	4.69
19	7.86	8.51	8.03	7.63	7.28	9.26	9.21	9.36	8.63	6.86	5.61	4.71
20	8.03	8.51	7.98	7.65	7.28	9.26	9.23	9.36	8.57	6.80	5.59	4.71
21	8.11	8.51	7.94	7.63	7.30	9.30	9.21	9.34	8.53	6.74	5.57	4.67
22	8.19	8.51	7.94	7.61	7.55	9.26	9.19	9.34	8.48	6.42	5.55	4.61
23	8.40	8.51	7.94	7.61	7.61	9.11	9.15	9.32	8.42	6.61	5.53	4.57
24	8.42	8.57	7.96	7.59	7.65	9.15	9.11	9.30	8.36	6.53	5.48	4.57
25	8.48	8.57	7.96	7.57	7.69	9.17	9.07	9.28	8.30	6.44	5.44	4.69
26	8.57	8.57	7.98	7.57	7.74	9.17	9.05	9.26	8.24	6.36	5.40	4.69
27	8.59	8.57	7.96	7.57	7.92	9.21	9.07	9.21	8.19	6.28	5.36	4.67
28	8.59	8.57	7.94	7.57	8.03	9.21	9.11	9.19	8.15	6.24	5.30	4.65
29	8.59	8.53	7.92	7.55	8.07	9.32	9.15	9.17	8.11	6.19	5.24	4.63
30	8.59	8.48	7.92	7.55	-	9.36	9.15	9.15	8.07	6.15	5.17	4.63
31	8.59	-	7.98	7.53	-	9.32	-	9.13	-	6.11	5.11	-

1912-13

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.61	4.34	5.30	6.76	8.36	8.46	9.30	9.57	9.42	8.48	6.90	5.13
2	4.59	4.44	5.32	6.84	8.36	8.51	9.21	9.53	9.42	8.44	6.86	5.09
3	4.57	4.44	5.44	7.01	8.36	8.55	9.21	9.53	9.42	8.38	6.82	5.01
4	4.55	4.42	5.48	7.24	8.34	8.59	9.21	9.53	9.40	8.32	6.78	4.96
5	4.53	4.40	5.53	7.32	8.32	8.61	9.23	9.53	9.38	8.32	6.74	4.90
6	4.51	4.38	5.61	7.40	8.30	8.63	9.21	9.53	9.36	8.24	6.69	4.84
7	4.48	4.38	5.67	7.44	8.28	8.65	9.21	9.53	9.34	8.15	6.67	4.78
8	4.44	4.65	5.69	7.59	8.26	8.65	9.19	9.53	9.42	8.07	6.63	4.71
9	4.40	4.69	5.71	7.71	8.24	8.69	9.21	9.53	9.38	7.98	6.57	4.67
10	4.32	4.71	5.74	7.78	8.24	8.71	9.23	9.53	9.36	7.98	6.48	4.61
11	4.30	4.74	5.76	7.86	8.24	8.74	9.28	9.53	9.32	7.92	6.40	4.57
12	4.26	4.76	5.78	7.86	8.24	8.78	9.42	9.51	9.28	7.88	6.32	4.48
13	4.21	4.78	5.80	8.07	8.21	8.86	9.51	9.48	9.23	7.90	6.26	4.44
14	4.14	4.86	5.82	8.11	8.19	9.01	9.55	9.46	9.19	7.86	6.19	4.38
15	4.09	4.88	5.82	8.15	8.19	9.11	9.61	9.44	9.15	7.82	6.13	4.32
16	4.05	4.90	5.84	8.21	8.13	9.28	9.63	9.42	9.11	7.76	6.07	4.26
17	4.03	4.90	5.86	8.26	8.15	9.32	9.63	9.40	9.07	7.69	5.98	4.19
18	3.98	4.92	5.86	8.28	8.13	9.36	9.57	9.38	9.03	7.63	5.98	4.13
19	3.94	4.92	5.90	8.34	8.11	9.38	9.48	9.38	8.96	7.57	5.92	4.17
20	3.90	4.94	5.98	8.34	8.11	9.44	9.40	9.38	8.90	7.53	5.86	4.13
21	3.86	4.96	6.03	8.40	8.11	9.51	9.30	9.38	8.94	7.46	5.78	4.09
22	3.80	4.96	6.05	8.38	8.17	-	9.26	9.38	8.94	7.40	5.69	4.24
23	3.96	4.98	6.07	8.36	8.19	9.53	9.28	9.38	8.90	7.32	5.69	4.19
24	4.14	4.98	6.09	8.36	8.21	9.48	9.32	9.59	8.84	7.28	5.61	4.14
25	4.28	5.09	6.15	8.36	8.21	9.44	9.36	9.61	8.80	7.24	5.53	4.09
26	4.32	5.17	6.17	8.36	8.24	9.40	9.40	9.63	8.76	7.15	5.46	4.03
27	4.34	5.21	6.24	8.36	8.28	9.48	9.44	9.63	8.74	7.11	5.40	3.98
28	4.36	5.24	6.32	8.36	8.42	9.80	9.48	9.61	8.71	7.05	5.34	3.94
29	4.36	5.26	6.36	8.36	-	9.78	9.69	9.57	8.65	7.09	5.28	3.88
30	4.36	5.28	6.44	8.36	-	9.61	9.61	9.48	8.57	7.03	5.26	3.82
31	4.36	-	6.63	8.36	-	9.51	-	9.44	-	6.98	5.19	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1913-14

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.76	4.82	5.96	6.84	7.61	7.69	9.36	9.48	9.34	8.78	8.57	7.44
2	4.17	4.84	5.98	6.84	7.65	7.96	9.53	9.44	9.28	8.86	8.57	7.40
3	4.24	4.84	6.01	6.86	7.71	7.98	9.53	9.44	9.23	8.86	8.57	7.36
4	4.19	4.84	6.01	6.96	7.78	7.96	9.53	9.44	9.21	8.82	8.53	7.30
5	4.14	4.84	6.03	7.01	7.82	7.96	9.53	9.51	9.32	8.80	8.48	7.24
6	4.13	4.84	6.05	7.01	7.86	7.96	9.53	9.61	9.26	8.76	8.44	7.17
7	4.11	4.84	6.07	7.03	7.90	7.96	9.48	9.59	9.21	8.86	8.40	7.11
8	4.09	4.84	6.11	7.03	7.92	7.94	9.51	9.57	9.19	8.88	8.40	7.05
9	4.07	4.92	6.15	7.03	7.94	7.94	9.57	9.53	9.19	8.90	8.38	6.98
10	4.05	5.21	6.19	7.03	7.94	7.94	9.48	9.48	9.17	8.86	8.36	6.90
11	4.05	5.30	6.24	7.03	7.94	7.92	9.44	9.46	9.15	8.86	8.32	6.86
12	4.24	5.36	6.24	7.05	7.94	7.90	9.44	9.61	9.15	8.84	8.32	6.82
13	4.21	5.40	6.24	7.05	7.94	7.88	9.44	9.57	9.13	8.82	8.32	6.78
14	4.19	5.44	6.24	7.05	8.03	7.86	9.40	9.53	9.11	8.80	8.26	6.71
15	4.17	5.48	6.24	7.05	8.03	7.86	9.40	9.48	9.07	8.80	8.19	6.65
16	4.14	5.53	6.24	7.03	8.03	7.88	9.40	9.48	8.99	8.78	8.11	6.59
17	4.13	5.61	6.28	7.03	8.03	7.90	9.40	9.48	9.01	8.78	8.05	6.53
18	4.11	5.65	6.28	7.03	8.03	7.98	9.34	9.48	8.99	8.74	7.98	6.48
19	4.09	5.69	6.28	7.03	8.01	8.05	9.34	9.48	8.96	8.69	7.94	6.42
20	4.21	5.71	6.30	7.03	8.01	8.07	9.38	9.48	8.94	8.65	7.90	6.36
21	4.21	5.74	6.32	7.03	7.98	8.11	9.36	9.48	8.92	8.59	7.92	6.32
22	4.21	5.76	6.34	7.03	7.94	8.15	9.34	9.48	8.92	8.59	7.88	6.26
23	4.21	5.78	6.36	7.03	7.90	8.17	9.32	9.46	8.90	8.61	7.84	6.21
24	4.21	5.80	6.53	7.03	7.86	8.19	9.28	9.42	8.90	8.61	7.80	6.15
25	4.36	5.80	6.57	7.17	7.82	8.24	9.28	9.40	8.86	8.57	7.78	6.09
26	4.57	5.82	6.69	7.19	7.78	8.34	9.44	9.36	8.82	8.53	7.74	6.03
27	4.69	5.82	6.76	7.21	7.74	8.42	9.48	9.42	8.80	8.53	7.67	5.96
28	4.78	5.86	6.80	7.26	7.71	8.69	9.53	9.46	8.82	8.63	7.59	5.90
29	4.82	5.90	6.80	7.30	-	9.03	9.48	9.44	8.86	8.67	7.57	5.82
30	4.84	5.94	6.82	7.36	-	9.21	9.48	9.42	8.82	8.67	7.53	5.76
31	4.82	-	6.82	7.40	-	9.28	-	9.38	-	8.63	7.48	-

1914-15

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.69	4.38	4.03	4.82	8.26	8.94	8.71	9.51	9.59	8.78	7.92	8.21
2	5.63	4.32	4.03	4.82	8.74	8.90	8.71	9.53	9.59	8.78	8.03	8.19
3	5.57	4.26	4.03	4.82	8.82	8.86	8.71	9.53	9.57	8.78	8.03	8.17
4	5.59	4.21	4.03	4.82	8.86	8.82	8.82	9.55	9.55	8.74	8.07	8.13
5	5.46	4.17	4.03	4.82	8.82	8.82	8.82	9.57	9.53	8.69	8.36	8.11
6	5.42	4.11	4.07	4.82	8.88	8.84	8.86	9.57	9.48	8.65	8.48	8.07
7	5.36	4.05	4.11	5.11	8.92	8.84	8.88	9.59	9.46	8.61	8.51	8.07
8	5.30	3.98	4.19	5.30	8.92	8.82	8.88	9.61	9.42	8.57	8.57	8.03
9	5.26	3.92	4.24	5.48	8.92	8.80	8.88	9.63	9.38	8.63	8.63	8.03
10	5.19	3.86	4.28	5.51	8.90	8.74	8.90	9.61	9.34	8.61	8.63	7.98
11	5.15	3.82	4.28	5.53	8.86	8.71	9.05	9.59	9.28	8.57	8.63	7.94
12	5.11	3.78	4.28	5.53	8.80	8.71	9.21	9.57	9.28	8.55	8.63	7.90
13	5.07	3.74	4.28	6.05	8.74	8.69	9.34	9.69	9.28	8.55	8.69	7.86
14	5.03	3.69	4.42	6.36	8.67	8.67	9.42	9.63	9.23	8.55	8.69	7.82
15	5.01	3.69	4.44	6.51	8.67	8.65	9.48	9.61	9.21	8.53	8.69	7.78
16	5.01	3.98	4.46	6.61	8.69	8.63	9.53	9.59	9.23	8.48	8.67	7.74
17	5.07	3.98	4.51	6.69	8.69	8.59	9.57	9.59	9.21	8.44	8.65	7.69
18	5.05	3.98	4.53	6.86	8.65	8.59	9.61	9.61	9.19	8.40	8.61	7.65
19	5.01	3.98	4.55	7.13	8.59	8.61	9.63	9.61	9.15	8.36	8.57	7.65
20	4.98	4.07	4.57	7.28	8.53	8.61	9.59	9.61	9.13	8.38	8.53	7.67
21	4.96	4.11	4.61	7.40	8.46	8.63	9.57	9.61	9.11	8.38	8.48	7.74
22	4.94	4.09	4.63	7.46	8.42	8.65	9.55	9.67	9.07	8.34	8.48	7.74
23	4.92	4.07	4.65	7.59	8.42	8.67	9.48	9.71	8.99	8.30	8.48	7.69
24	4.86	4.03	4.67	7.76	8.42	8.67	9.48	9.71	8.99	8.26	8.46	7.65
25	4.80	4.01	4.69	7.90	8.78	8.69	9.48	9.74	8.94	8.21	8.46	7.61
26	4.74	4.01	4.71	7.96	8.94	8.69	9.46	9.74	8.92	8.17	8.42	7.57
27	4.67	4.01	4.74	8.01	8.96	8.71	9.44	9.69	8.90	8.15	8.36	7.53
28	4.61	4.01	4.76	8.05	8.96	8.71	9.46	9.67	8.88	8.11	8.32	7.48
29	4.57	4.01	4.78	8.09	-	8.71	9.46	9.63	8.84	8.09	8.32	7.44
30	4.51	4.03	4.84	8.13	-	8.71	9.48	-	8.78	8.03	8.28	7.44
31	4.44	-	4.82	8.17	-	8.71	-	9.59	-	7.98	8.24	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1915-16

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.36	6.65	6.48	7.86	8.21	8.32	8.69	9.40	9.48	9.40	9.01	7.61
2	7.36	6.61	6.51	7.86	8.26	8.32	8.86	9.40	9.44	9.38	8.96	7.55
3	7.36	6.57	6.53	7.90	8.30	8.32	8.94	9.40	9.40	9.36	8.92	7.46
4	7.32	6.53	6.53	7.92	8.32	8.30	9.03	9.40	9.40	9.34	8.88	7.38
5	7.32	6.53	6.53	7.92	8.32	8.28	9.11	9.40	9.40	9.32	8.84	7.34
6	7.28	6.51	6.53	7.94	8.30	8.28	9.13	9.38	9.40	9.28	8.78	7.30
7	7.24	6.46	6.53	7.96	8.30	8.34	9.17	9.36	-	9.26	8.76	7.26
8	7.24	6.42	6.53	7.96	8.28	8.34	-	9.36	9.55	9.21	8.71	7.21
9	7.24	6.38	6.53	7.96	8.26	8.32	9.23	9.34	9.55	9.19	8.67	7.15
10	7.21	6.34	6.53	7.96	8.24	8.30	9.26	9.34	9.55	9.17	8.63	7.11
11	7.19	6.30	6.51	7.98	8.21	8.28	9.26	9.36	9.55	9.15	8.59	7.07
12	7.15	6.26	6.48	7.98	8.21	8.26	9.23	9.36	9.55	9.15	8.55	7.03
13	7.11	6.21	6.46	8.03	8.21	8.24	9.23	9.36	9.55	9.15	8.51	6.98
14	7.11	6.17	6.61	8.03	8.21	8.24	9.32	9.36	9.55	9.15	8.46	6.94
15	7.11	6.17	6.67	8.03	8.19	8.24	9.57	9.38	9.55	9.21	8.42	6.90
16	7.11	6.19	6.67	8.03	8.17	8.28	9.53	9.44	9.55	9.19	8.38	6.98
17	7.07	6.19	6.67	8.01	8.13	8.26	9.53	9.48	9.61	9.19	8.34	6.96
18	7.03	6.19	6.86	7.98	8.09	8.24	9.53	9.51	9.69	9.19	8.30	6.92
19	6.98	-	6.94	7.96	8.05	8.19	9.51	9.51	9.69	9.17	8.26	6.88
20	7.03	6.30	7.03	7.94	8.01	8.19	9.48	9.53	9.65	9.15	8.21	6.82
21	7.07	6.38	7.07	7.92	7.98	8.17	9.44	9.53	9.61	9.11	8.17	6.76
22	7.07	6.44	7.11	7.94	7.98	8.19	-	9.53	9.57	9.07	8.11	6.69
23	7.03	6.44	7.15	7.96	7.96	8.21	9.40	9.53	9.53	9.03	8.07	6.65
24	6.98	6.44	7.19	7.96	7.96	8.19	9.36	9.55	9.48	9.01	8.01	6.61
25	6.94	6.44	7.24	7.98	8.03	8.17	9.36	9.57	9.44	8.99	7.94	6.57
26	6.90	6.44	7.44	8.03	8.21	8.17	9.36	9.57	9.44	9.11	7.90	6.53
27	6.86	6.44	7.61	8.05	8.30	8.17	9.36	9.55	9.42	9.17	7.86	6.48
28	6.82	6.48	7.69	8.09	8.36	8.24	9.36	9.55	9.42	9.15	7.82	6.42
29	6.78	6.48	7.69	8.13	8.34	8.32	9.38	9.55	9.40	9.11	7.76	6.38
30	6.74	6.46	7.82	8.15	-	8.38	9.40	9.53	9.40	9.09	7.69	6.44
31	6.69	-	7.82	8.19	-	8.57	-	9.51	-	9.05	7.65	-

1916-17

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.40	5.24	4.61	4.90	6.30	6.63	8.44	9.09	9.40	9.17	8.78	7.74
2	6.36	5.19	4.61	4.90	6.32	6.65	8.53	9.11	9.42	9.15	8.74	7.69
3	6.32	5.15	4.61	4.90	6.34	6.69	8.59	9.11	9.46	9.19	8.69	7.65
4	6.28	5.11	4.61	4.94	6.36	6.74	8.61	9.11	9.46	9.19	8.63	7.61
5	6.21	5.07	4.61	4.98	6.36	6.82	-	-	9.44	9.17	8.57	7.57
6	6.15	5.05	4.61	5.11	6.38	6.86	8.78	-	9.44	9.15	8.51	7.53
7	6.11	5.01	4.61	5.15	6.40	6.88	8.86	9.30	9.42	9.13	8.48	7.48
8	6.07	4.94	4.59	5.19	6.40	6.90	8.94	9.30	9.42	9.13	8.44	7.48
9	6.01	4.90	4.59	5.24	6.40	6.94	9.03	9.28	9.42	9.11	8.40	7.48
10	5.94	4.86	4.63	5.28	6.40	6.98	9.07	9.23	9.40	9.11	8.36	7.44
11	5.90	4.82	4.63	5.32	6.40	7.03	9.11	9.19	9.40	9.11	8.30	7.38
12	5.86	4.78	4.65	5.32	6.40	7.07	9.13	9.19	9.42	9.28	8.24	7.32
13	5.82	4.74	4.67	5.32	6.40	7.11	9.15	9.19	9.40	9.28	8.17	7.26
14	5.80	4.71	4.69	5.53	6.40	7.17	9.17	9.19	9.38	9.28	8.15	7.21
15	5.76	4.69	4.69	5.69	6.40	7.24	9.19	9.17	9.42	9.23	8.15	7.19
16	5.71	4.63	4.69	5.78	6.40	7.28	9.21	9.17	9.40	9.23	8.15	7.15
17	5.67	4.57	4.69	5.82	6.40	7.30	9.23	9.17	9.36	9.23	8.11	7.09
18	5.63	4.53	4.69	5.86	6.40	7.40	9.26	9.17	9.32	9.23	8.07	7.05
19	5.61	4.48	4.69	5.90	6.40	7.44	9.28	9.19	9.30	9.21	8.03	7.01
20	5.67	4.44	4.69	5.94	6.40	7.48	9.23	9.19	9.28	9.21	7.98	6.96
21	5.65	4.42	4.78	5.98	6.40	7.53	9.26	9.19	9.23	9.21	7.94	6.92
22	5.63	4.40	4.78	6.11	6.40	7.55	9.19	9.19	9.19	9.19	7.92	6.88
23	5.61	4.40	4.78	6.13	6.42	7.59	9.15	9.26	9.17	9.15	7.90	6.84
24	5.57	4.48	4.78	6.15	6.46	7.69	9.13	9.26	9.17	9.11	8.03	6.76
25	5.53	4.48	4.78	6.15	6.48	7.78	9.11	9.23	9.17	9.09	7.98	6.69
26	5.48	4.46	4.78	6.17	6.51	7.84	9.11	9.23	9.15	9.03	7.94	6.65
27	5.44	4.44	4.78	6.19	6.55	7.90	9.11	9.23	9.21	8.99	7.90	6.61
28	5.40	4.42	4.86	6.21	6.61	8.19	9.09	9.23	9.21	8.92	7.86	6.61
29	5.36	4.42	4.86	6.24	-	8.28	9.09	9.28	9.19	8.86	7.82	6.57
30	5.32	4.61	4.90	6.26	-	8.36	9.09	9.36	9.19	8.82	7.78	6.53
31	5.28	-	4.90	6.28	-	8.40	-	9.40	-	8.80	7.74	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1917-18

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.46	5.88	5.44	5.42	5.63	7.53	9.01	9.21	9.07	8.90	8.11	6.78
2	6.42	5.86	5.46	5.40	5.61	7.63	8.99	9.19	9.03	8.90	8.05	6.76
3	6.40	5.84	5.48	5.38	5.61	7.71	8.99	9.15	9.01	8.86	8.03	6.71
4	6.36	5.82	5.51	5.36	5.59	7.80	9.03	9.36	8.99	8.82	7.98	6.65
5	6.32	5.80	5.53	5.34	5.57	7.86	9.01	-	8.99	8.78	7.94	6.59
6	6.28	5.78	5.53	5.32	5.55	7.94	8.99	9.34	9.11	8.74	7.90	6.53
7	6.21	5.76	5.53	5.30	5.53	8.11	8.99	9.32	9.15	8.78	7.86	6.48
8	6.15	5.74	5.53	5.30	5.53	8.15	8.96	9.30	9.13	8.78	7.82	6.44
9	6.11	5.71	5.53	5.30	5.53	8.24	9.03	9.30	9.13	8.71	7.78	6.40
10	6.07	5.69	5.55	5.28	5.53	8.32	-	9.28	9.11	8.69	7.74	6.36
11	6.03	5.65	5.53	5.28	5.53	8.32	-	9.26	9.15	8.67	7.69	6.32
12	5.98	5.63	5.48	5.48	5.53	8.36	-	9.23	9.15	8.65	7.65	6.28
13	5.98	5.61	5.44	5.53	5.53	8.44	9.23	9.19	9.19	8.63	7.61	6.21
14	5.94	5.59	5.61	5.53	5.57	8.53	9.23	9.26	9.17	8.63	7.69	6.15
15	5.90	5.57	5.61	5.55	5.59	8.69	9.26	9.23	9.15	8.61	7.69	6.11
16	5.86	5.55	5.61	5.61	5.65	8.71	9.26	9.21	9.13	8.61	7.65	6.07
17	5.82	5.53	5.59	5.61	5.69	8.78	9.26	9.17	9.11	8.61	7.61	6.03
18	5.78	5.48	5.59	5.61	5.74	8.80	9.26	9.15	9.09	8.57	7.55	5.98
19	5.74	5.46	5.57	5.61	5.78	8.86	9.28	9.11	9.07	8.53	7.48	5.98
20	5.69	5.44	5.57	5.61	5.98	8.90	9.28	9.09	9.03	8.48	7.40	5.94
21	5.65	5.44	5.55	5.61	6.36	8.94	9.28	9.15	8.99	8.44	7.32	5.94
22	5.61	5.44	5.55	5.63	6.57	8.99	9.36	9.17	9.07	8.40	7.24	5.92
23	5.57	5.53	5.53	5.65	6.69	9.03	9.36	9.19	9.03	8.36	7.17	5.90
24	-	5.53	5.53	5.67	6.78	9.03	9.36	9.21	9.01	8.30	7.11	5.86
25	5.65	5.53	5.53	5.67	6.86	9.07	9.32	9.19	8.99	8.28	7.05	5.82
26	5.65	5.51	5.53	5.67	7.11	9.09	9.28	9.17	8.96	8.24	6.98	5.78
27	5.65	5.48	5.51	5.67	7.28	9.11	9.26	9.15	8.96	8.19	6.94	5.74
28	5.69	5.46	5.48	5.67	7.42	9.13	9.23	9.11	8.94	8.15	6.90	5.69
29	5.67	5.44	5.46	5.67	-	9.11	9.19	9.07	8.92	8.09	6.86	5.65
30	5.67	5.42	5.44	5.65	-	9.07	9.15	9.05	8.90	8.03	6.82	5.59
31	5.86	-	5.42	5.63	-	9.03	-	9.05	-	8.15	6.78	-

1918-19

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.55	4.40	3.69	4.61	5.82	6.74	8.96	9.21	9.01	8.92	9.05	8.28
2	5.51	4.36	3.67	4.78	5.82	6.86	8.99	9.28	8.99	8.90	8.86	8.32
3	5.46	4.32	3.65	4.98	5.82	6.94	9.01	9.28	8.96	8.88	8.80	8.36
4	5.42	4.28	3.63	5.05	5.82	7.03	9.05	9.28	8.94	8.86	8.74	8.40
5	5.36	4.24	3.63	5.09	5.84	7.07	9.11	9.26	8.92	8.84	8.69	8.38
6	5.36	4.19	3.61	5.13	5.84	7.11	9.13	9.23	8.90	8.82	8.78	8.38
7	5.36	4.14	3.61	5.15	5.84	7.15	9.13	9.21	8.88	8.88	8.92	8.36
8	5.34	4.11	3.59	5.19	5.86	7.28	9.15	9.19	8.86	8.86	9.01	8.36
9	5.30	4.07	3.57	5.24	5.86	7.44	9.15	9.17	8.86	8.84	8.96	8.34
10	5.26	4.03	3.55	5.26	5.86	7.65	9.15	9.17	8.86	8.78	8.92	8.34
11	5.19	3.98	3.53	5.28	5.86	7.74	9.15	9.28	8.86	8.74	8.86	8.32
12	5.15	3.92	3.59	5.30	5.86	7.82	9.19	9.28	8.84	8.69	8.78	8.36
13	5.11	3.86	3.61	5.30	5.86	7.88	9.21	9.26	8.82	8.65	8.74	8.34
14	5.07	3.82	3.69	5.32	5.94	-	9.21	9.23	8.80	8.61	8.92	8.30
15	5.03	3.78	3.76	5.34	6.07	7.94	9.21	9.21	8.78	8.57	8.82	8.26
16	4.98	3.74	3.82	5.34	6.15	-	-	9.19	8.76	8.57	8.82	8.21
17	4.92	3.69	3.88	5.36	6.17	8.11	9.32	9.19	8.74	8.53	8.69	8.19
18	4.86	3.86	3.86	5.36	6.19	8.19	9.36	9.17	8.71	8.57	8.61	8.17
19	4.82	3.90	3.86	5.38	6.19	8.28	9.38	9.15	8.71	8.65	8.57	8.11
20	4.78	3.90	3.88	5.38	6.21	8.36	9.38	9.13	8.69	8.78	8.53	8.05
21	4.78	3.86	3.88	5.38	6.21	8.40	9.38	9.13	8.69	9.11	8.42	7.98
22	4.74	3.82	3.88	5.40	6.24	8.44	9.38	9.21	8.71	9.36	8.30	7.94
23	4.67	3.78	4.07	5.42	6.26	8.44	9.36	9.15	8.69	9.61	8.21	8.03
24	4.61	3.76	4.24	5.59	6.36	8.44	9.36	9.13	8.65	9.76	8.21	8.01
25	4.57	3.74	4.32	5.63	6.40	8.46	9.34	9.11	8.61	9.65	8.26	7.98
26	4.53	3.69	4.38	5.67	6.46	8.48	9.32	9.11	8.57	9.65	8.26	7.94
27	4.51	3.67	4.44	5.69	6.55	8.51	9.30	9.11	8.69	9.65	8.26	7.90
28	4.48	3.65	4.48	5.71	6.61	8.82	9.28	9.09	8.99	9.57	8.24	7.86
29	4.46	3.74	4.53	5.76	-	8.86	9.26	9.07	8.96	9.44	8.24	7.78
30	4.44	3.71	4.55	5.78	-	8.90	9.23	9.05	8.94	9.30	8.21	7.69
31	4.44	-	4.57	5.80	-	8.92	-	9.03	-	9.11	8.21	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1919-20

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.65	6.78	6.74	7.55	6.13	5.01	9.26	9.15	8.90	8.69	8.69	8.30
2	7.59	6.84	6.74	7.53	6.07	4.96	9.28	9.11	8.86	8.65	8.63	8.26
3	7.53	6.82	6.76	7.48	6.03	4.94	9.28	9.09	8.82	8.74	8.53	8.21
4	7.46	6.80	6.78	7.44	6.03	4.92	9.28	9.07	8.78	8.69	8.40	8.15
5	7.40	6.84	6.80	7.42	6.03	4.90	9.30	9.03	8.74	8.67	8.38	8.09
6	7.36	6.86	6.82	7.40	6.03	5.36	9.30	8.99	8.86	8.65	8.36	8.05
7	7.36	6.86	6.88	7.38	6.07	5.44	9.26	8.96	8.82	8.63	8.36	8.21
8	7.32	6.86	6.92	7.36	6.03	5.48	9.21	8.99	8.80	8.61	8.36	8.19
9	7.28	6.82	6.94	7.36	5.96	5.61	9.15	8.99	8.84	8.59	8.36	8.17
10	7.24	6.78	7.11	7.36	5.90	5.65	9.11	8.99	8.82	8.57	8.40	8.15
11	7.19	6.78	7.15	7.36	5.84	5.69	9.03	8.96	8.82	8.55	8.40	8.15
12	7.15	6.82	7.19	7.36	5.78	5.80	8.94	8.94	8.82	8.55	8.36	8.21
13	7.11	6.90	7.28	7.30	5.71	6.11	8.86	8.99	8.82	8.55	8.53	8.19
14	7.07	6.90	7.40	7.24	5.65	6.38	8.90	9.03	8.82	8.55	8.57	8.15
15	7.13	6.88	7.42	7.15	5.61	6.65	8.86	9.03	8.80	8.55	8.57	8.11
16	7.15	6.86	7.42	7.09	5.55	6.90	8.82	9.01	8.76	8.53	8.57	8.05
17	7.19	6.86	7.44	7.03	5.48	7.19	8.78	8.99	8.80	8.51	8.57	8.01
18	7.15	6.86	7.48	6.96	5.40	7.44	8.78	8.96	8.80	8.46	8.65	7.96
19	7.11	6.82	7.51	6.90	5.32	7.67	8.78	8.94	8.82	8.44	8.74	7.92
20	7.07	6.78	7.53	6.86	5.26	7.88	8.82	8.92	8.82	8.40	8.74	7.90
21	7.03	6.74	7.53	6.80	5.19	8.01	8.90	8.99	8.82	8.36	8.71	7.84
22	7.01	6.69	7.55	6.78	5.15	8.11	9.01	9.07	8.80	8.32	8.71	7.80
23	6.96	6.65	7.57	6.74	5.11	8.26	9.05	9.07	8.80	8.44	8.69	7.74
24	6.98	6.61	7.59	6.69	5.13	8.42	9.09	9.07	8.78	8.69	8.65	7.69
25	6.96	6.57	7.61	6.61	5.11	8.63	9.05	9.09	8.78	9.07	8.59	7.65
26	6.94	6.53	7.63	6.53	5.09	8.84	9.05	9.07	8.76	9.07	8.55	7.61
27	6.90	6.53	7.65	6.44	5.07	8.99	9.05	9.05	8.74	9.01	8.51	7.57
28	6.88	6.53	7.63	6.38	5.05	9.11	9.07	9.03	8.71	8.94	8.46	7.53
29	6.86	6.53	7.61	6.32	5.03	9.19	9.07	9.01	8.69	8.88	8.42	7.53
30	6.82	6.71	7.59	6.26	-	9.23	9.07	8.99	8.69	8.82	8.38	7.53
31	6.78	-	7.57	6.19	-	9.23	-	8.94	-	8.76	8.32	-

1920-21

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.78	6.44	5.03	4.63	5.53	6.11	8.88	8.90	8.63	7.90	7.48	6.61
2	7.78	6.36	5.15	4.65	5.53	6.21	8.86	8.90	8.61	7.90	7.48	6.57
3	7.78	6.30	5.11	4.69	5.53	6.30	8.84	8.90	8.59	7.90	7.48	6.53
4	7.78	6.21	5.05	4.71	5.51	6.51	8.82	8.99	8.61	7.88	7.48	6.48
5	7.74	6.09	5.05	4.74	5.48	6.65	8.80	8.99	8.57	7.84	7.44	6.44
6	7.69	6.01	5.03	4.78	5.51	6.74	8.76	8.96	8.53	7.80	7.40	6.40
7	7.65	5.92	4.98	4.78	5.53	6.82	8.74	8.94	8.51	7.78	7.36	6.34
8	7.59	5.82	4.90	4.78	5.53	6.94	8.69	8.94	8.48	7.74	7.61	6.28
9	7.55	5.69	4.86	4.80	5.55	7.03	8.65	8.94	8.46	7.69	7.61	6.24
10	7.51	5.61	4.82	4.80	5.57	7.28	8.63	8.90	8.44	7.78	7.59	6.17
11	7.48	5.53	4.65	4.82	5.61	7.53	8.61	8.86	8.42	7.78	7.57	6.11
12	7.48	5.40	4.51	4.82	5.65	7.65	8.61	8.82	8.40	7.78	7.55	6.03
13	7.44	5.34	4.40	4.82	5.65	7.82	8.59	8.80	8.38	7.74	7.53	5.94
14	7.42	5.24	4.40	4.86	5.65	7.90	8.57	8.80	8.36	7.69	7.48	5.88
15	7.40	5.11	4.53	5.11	5.65	7.98	8.59	8.80	8.34	7.65	7.46	5.82
16	7.36	-	4.48	5.21	5.65	8.03	8.59	8.78	8.32	7.78	7.44	5.76
17	7.36	5.15	4.44	5.28	5.65	8.19	8.59	8.74	8.28	7.74	7.42	5.69
18	7.32	5.11	4.36	5.32	5.67	8.24	8.61	8.69	8.24	7.69	7.40	5.63
19	7.28	5.07	4.26	5.36	5.69	8.26	8.69	8.67	8.17	7.65	7.36	5.57
20	7.24	5.03	4.14	5.36	5.78	8.26	8.67	8.65	8.11	7.69	7.32	5.51
21	7.21	4.98	4.11	5.38	5.82	8.28	8.65	8.65	8.05	7.69	7.28	5.44
22	7.19	4.94	4.11	5.40	5.86	8.30	8.63	8.69	7.98	7.65	7.21	5.51
23	7.15	5.11	4.28	5.44	5.88	8.30	8.69	8.69	7.94	7.65	7.17	5.51
24	7.05	5.19	4.36	5.46	5.90	8.30	8.78	8.69	7.90	7.61	7.11	5.46
25	6.98	5.24	4.40	5.46	5.90	8.55	8.82	8.69	7.86	7.57	7.05	5.42
26	6.92	5.24	4.44	5.46	5.90	8.61	8.82	8.69	7.82	7.53	6.98	5.40
27	6.86	5.19	4.48	5.48	5.94	8.65	8.82	8.69	7.76	7.61	6.92	5.34
28	6.86	5.19	4.53	5.48	6.03	8.69	8.82	8.69	7.69	7.59	6.86	5.28
29	6.78	5.15	4.55	5.51	-	8.74	8.82	8.69	7.65	7.53	6.78	5.24
30	6.67	5.07	4.57	5.51	-	8.74	8.82	8.67	7.90	7.53	6.74	5.19
31	6.53	-	4.61	5.53	-	8.76	-	8.65	-	7.51	6.67	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1921-22

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.13	3.74	3.90	4.69	4.82	5.74	8.65	8.82	8.90	8.69	8.19	7.11
2	5.07	3.76	3.94	4.69	4.96	5.82	8.78	8.82	8.88	8.90	8.15	7.11
3	5.01	3.71	4.11	4.69	5.01	5.86	8.84	8.80	8.99	8.94	8.15	7.07
4	4.94	3.65	4.17	4.69	5.03	5.90	8.90	8.80	9.09	8.94	8.11	7.11
5	4.90	3.61	4.24	4.74	5.03	5.94	8.94	9.07	9.07	8.92	8.11	7.38
6	4.84	3.57	4.28	4.74	5.07	5.98	8.96	9.03	9.09	8.86	8.05	7.40
7	4.78	3.55	4.32	4.76	5.09	6.01	9.03	9.01	9.07	8.82	7.98	7.42
8	4.74	3.53	4.34	4.78	5.11	6.53	8.99	8.99	8.99	8.78	7.96	7.42
9	4.67	3.51	4.34	4.78	5.13	6.78	8.94	8.94	8.94	8.86	7.92	7.40
10	4.61	3.51	4.36	4.78	5.15	6.86	8.90	8.90	8.90	8.86	7.90	7.38
11	4.55	3.48	4.36	4.78	5.17	6.98	8.94	8.88	8.90	8.86	7.86	7.36
12	4.48	3.48	4.36	4.86	5.19	7.24	8.94	8.88	8.99	8.86	7.82	7.32
13	4.44	3.44	4.38	4.86	5.24	7.34	8.92	8.90	8.96	8.86	7.76	7.28
14	4.40	3.40	4.40	4.86	5.24	7.40	8.90	8.90	8.94	8.84	7.69	7.24
15	4.36	3.38	4.40	4.86	5.24	7.48	8.94	8.90	8.90	8.82	7.63	7.19
16	4.30	3.36	4.40	4.86	5.26	7.57	9.03	8.94	8.88	8.80	7.57	7.15
17	4.24	3.34	4.40	4.86	5.26	7.65	9.07	8.94	8.86	8.76	7.57	7.11
18	4.17	3.32	4.48	4.86	5.26	7.69	9.07	8.99	8.90	8.71	7.51	7.07
19	4.13	3.30	4.53	4.86	5.26	7.69	9.03	9.09	8.90	8.69	7.44	7.03
20	4.14	3.44	4.55	4.86	5.28	7.86	8.96	9.07	8.88	8.67	7.38	6.98
21	4.11	3.44	4.57	4.86	5.30	7.98	8.90	9.07	8.88	8.61	7.34	6.92
22	4.07	3.44	4.57	4.86	5.32	8.07	8.86	9.07	8.86	8.55	7.28	6.86
23	4.03	3.44	4.61	4.86	5.34	8.11	8.84	9.05	8.84	8.51	7.19	6.82
24	3.98	3.44	4.65	4.86	5.36	8.15	8.82	9.03	8.82	8.46	7.11	6.78
25	3.96	3.44	4.67	4.86	5.42	8.19	8.82	9.03	8.80	8.44	7.15	6.71
26	3.94	3.48	4.69	4.84	5.57	8.24	8.84	9.03	8.78	8.42	7.17	6.65
27	3.92	3.53	4.69	4.84	5.65	8.30	8.84	9.03	8.78	8.38	7.17	6.61
28	3.90	3.61	4.69	4.84	5.69	8.34	8.86	9.01	8.78	8.34	7.15	6.57
29	3.86	3.74	4.69	4.84	-	8.38	8.84	8.99	8.76	8.34	7.11	6.53
30	3.82	3.86	4.71	4.84	-	8.42	8.82	8.96	8.74	8.28	7.07	6.48
31	3.76	-	4.71	4.84	-	8.48	-	8.94	-	8.24	7.03	-

1922-23

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.44	5.17	3.90	3.86	5.15	5.36	8.19	8.94	8.88	8.11	6.67	5.36
2	6.40	5.11	3.90	4.09	5.17	5.38	8.19	8.96	8.86	8.07	6.61	5.28
3	6.36	5.11	3.88	4.14	5.19	5.40	8.24	8.99	8.82	8.03	6.57	5.24
4	6.32	5.11	3.86	4.36	5.21	5.44	8.28	8.99	8.90	7.98	6.53	5.21
5	6.26	5.07	3.86	4.40	5.24	5.48	8.36	9.01	8.90	7.92	6.48	5.17
6	6.19	5.03	3.86	4.44	5.26	5.53	8.53	9.03	8.92	7.86	6.44	5.11
7	6.13	5.03	3.86	4.44	5.30	5.69	8.57	9.03	8.94	7.80	6.40	5.07
8	6.11	4.98	3.90	4.53	5.30	5.69	8.59	9.03	8.99	7.76	6.36	5.03
9	6.15	4.94	3.86	4.59	5.30	5.74	8.63	9.07	8.96	7.71	6.32	5.13
10	6.15	4.90	3.86	4.63	5.32	5.78	8.67	9.07	8.92	7.65	6.28	5.11
11	6.15	4.86	3.82	4.61	5.32	5.82	8.69	9.05	8.88	7.61	6.21	5.05
12	6.15	4.82	3.82	4.65	5.32	5.86	8.71	9.03	8.84	7.55	6.15	4.98
13	6.13	4.78	3.80	4.65	5.36	5.98	8.74	9.07	8.82	7.48	6.17	4.94
14	6.11	4.74	3.78	4.65	5.40	6.11	8.76	9.05	8.80	7.44	6.13	4.90
15	6.05	4.67	3.80	4.69	5.40	6.15	8.76	9.03	8.78	7.38	6.07	4.82
16	5.98	4.67	3.78	4.69	5.40	6.21	8.78	9.01	8.76	7.34	6.03	4.76
17	5.92	4.63	3.82	4.69	5.40	6.46	8.76	8.99	8.74	7.32	5.96	4.67
18	5.86	4.61	3.80	4.69	5.40	6.63	8.76	8.96	8.69	7.28	5.92	4.65
19	5.80	4.55	3.80	4.67	5.40	6.82	8.76	8.94	8.67	7.21	5.86	4.59
20	5.76	4.48	3.78	4.67	5.40	7.03	8.76	8.94	8.65	7.15	5.82	4.57
21	5.69	4.44	3.76	4.74	5.40	7.19	8.76	8.96	8.61	7.11	5.78	4.65
22	5.65	4.40	3.74	4.82	5.40	7.32	8.76	8.99	8.57	7.05	5.82	4.63
23	5.61	4.34	3.71	4.90	5.40	7.44	8.80	8.99	8.46	6.98	5.74	4.67
24	5.61	4.28	3.74	4.90	5.38	7.57	8.78	8.96	8.46	6.92	5.67	4.65
25	5.57	4.21	3.71	4.98	5.36	7.71	8.76	8.96	8.42	6.86	5.63	4.61
26	5.51	4.14	3.69	5.03	5.32	7.84	8.74	8.96	8.38	6.86	5.59	4.59
27	5.46	4.11	3.67	5.07	5.32	7.92	8.71	8.94	8.32	6.82	5.55	4.57
28	5.40	4.05	3.71	5.11	5.36	8.01	8.71	8.94	8.26	6.76	5.48	4.53
29	5.34	3.98	3.78	5.15	-	8.09	8.90	8.92	8.19	6.74	5.48	4.48
30	5.28	3.92	3.78	5.15	-	8.15	8.92	8.92	8.15	6.74	5.44	4.44
31	5.24	-	3.78	5.15	-	8.19	-	8.90	-	6.71	5.40	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1923-24

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.40	3.88	3.78	4.94	6.96	7.15	7.71	9.15	9.15	8.99	8.03	5.15
2	4.34	3.88	3.84	4.96	6.98	7.13	7.78	9.17	9.15	8.96	7.98	5.11
3	4.28	3.86	3.88	5.07	6.98	7.11	7.86	9.15	9.17	8.92	7.94	5.03
4	4.24	3.86	3.92	5.19	6.98	7.11	7.90	9.19	9.19	8.90	7.90	4.74
5	4.19	3.84	3.98	5.24	7.01	7.11	7.96	9.19	9.19	8.88	7.86	4.53
6	4.14	3.82	4.07	5.28	7.11	7.11	8.07	9.19	9.17	8.86	7.84	4.21
7	4.11	3.84	4.17	5.30	7.13	7.15	8.61	9.19	9.19	8.82	7.78	3.94
8	4.05	3.84	4.24	5.32	7.15	7.15	8.99	9.19	9.19	8.78	7.74	3.69
9	4.01	3.84	4.30	5.34	7.15	7.15	9.11	9.28	9.19	8.84	7.69	3.42
10	3.96	3.82	4.36	5.36	7.17	7.15	9.19	9.28	9.19	8.82	7.65	3.24
11	3.92	3.80	4.36	5.40	7.19	7.19	9.21	9.28	9.19	8.78	7.61	3.11
12	3.90	3.78	4.36	5.61	7.19	7.24	9.21	9.40	9.17	8.71	7.69	3.07
13	3.86	3.76	4.36	5.67	7.19	7.26	9.21	9.53	9.23	8.74	7.69	3.03
14	3.84	3.76	4.36	5.71	7.19	7.26	9.21	9.53	9.21	8.76	7.69	2.98
15	3.82	3.71	4.38	5.76	7.19	7.26	9.21	9.53	9.19	8.74	7.63	2.94
16	3.80	3.67	4.46	5.78	7.19	7.26	9.19	9.51	9.15	8.74	7.57	2.90
17	3.74	3.65	4.51	6.09	7.19	7.28	9.15	9.44	9.11	8.65	7.42	2.84
18	3.69	3.63	4.53	6.26	7.17	7.26	9.11	9.40	9.09	8.61	7.24	2.78
19	3.65	3.63	4.53	6.36	7.15	7.24	9.28	9.38	9.09	8.57	7.05	2.71
20	3.65	3.59	4.53	6.44	7.19	7.24	9.30	9.36	9.09	8.53	6.86	2.67
21	3.65	3.57	4.55	6.48	7.28	7.24	9.28	9.32	9.07	8.48	6.74	2.61
22	3.63	3.57	4.55	6.53	7.28	7.26	9.28	9.32	9.07	8.44	6.55	2.57
23	3.59	3.55	4.65	6.55	7.26	7.28	9.30	9.28	9.05	8.40	6.36	2.61
24	3.78	3.65	4.67	6.57	7.24	7.30	9.28	9.23	9.03	8.36	6.19	2.57
25	3.82	3.65	4.71	6.76	7.21	7.32	9.26	9.23	8.99	8.34	6.03	2.57
26	3.90	3.63	4.74	6.82	7.21	7.36	9.21	9.23	9.03	8.30	5.86	2.53
27	3.86	3.63	4.78	6.86	7.19	7.42	9.17	9.21	8.99	8.26	5.69	2.51
28	3.86	3.61	4.82	6.88	7.17	7.46	9.11	9.21	8.99	8.21	5.53	2.48
29	3.84	3.55	4.84	6.90	7.15	7.51	9.11	9.19	9.01	8.15	5.36	2.46
30	3.86	3.65	4.86	6.92	-	7.61	9.09	9.23	9.01	8.11	5.28	2.69
31	3.90	-	4.90	6.94	-	7.67	-	9.19	-	8.07	5.19	-

1924-25

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.19	2.42	2.42	2.74	3.55	6.98	7.51	8.32	8.80	8.82	8.96	8.60
2	3.30	2.42	2.42	2.76	3.53	7.17	-	8.34	8.82	8.78	8.98	8.58
3	3.24	2.40	2.42	2.92	3.55	7.26	7.57	8.34	8.84	8.76	9.00	8.56
4	3.19	2.38	2.40	2.92	3.55	7.32	7.59	8.36	8.86	8.74	9.00	8.54
5	3.07	2.36	2.40	2.94	3.55	7.36	7.61	8.38	8.86	8.78	9.00	8.52
6	2.98	2.34	2.40	2.94	3.57	7.40	7.63	8.38	8.86	8.76	9.00	8.50
7	2.90	2.34	2.53	2.94	3.57	7.42	7.65	8.38	8.86	8.74	9.00	8.58
8	2.82	2.36	2.55	2.96	3.59	7.44	7.67	8.36	8.86	8.76	8.98	8.58
9	2.74	2.34	2.57	2.96	3.61	7.46	7.69	8.36	8.86	8.80	9.00	8.58
10	2.71	2.32	2.59	2.98	3.69	7.46	7.71	8.36	8.86	8.78	9.00	8.50
11	2.71	2.30	2.61	2.98	3.82	7.46	7.86	8.40	8.84	8.80	9.00	8.42
12	2.69	2.30	2.63	3.01	4.14	7.53	7.94	8.44	8.82	8.78	8.96	8.31
13	2.67	2.28	2.65	3.03	4.53	7.53	7.94	8.44	8.80	8.76	8.96	8.19
14	2.65	2.28	2.65	3.03	4.80	7.51	7.92	8.44	8.78	8.74	8.96	8.12
15	2.65	2.28	2.65	3.05	4.98	7.51	8.01	8.44	8.78	8.69	8.94	-
16	2.63	2.28	2.65	3.05	5.24	7.51	8.03	8.44	8.78	8.69	8.92	8.00
17	2.61	2.26	2.69	3.09	5.46	7.51	8.05	8.46	8.84	8.78	8.90	7.83
18	2.61	2.24	2.69	3.11	5.61	7.53	8.07	8.46	8.82	8.78	8.88	7.69
19	2.61	2.24	2.69	3.11	5.74	7.65	8.09	8.44	8.80	8.76	8.88	7.54
20	2.59	2.21	2.74	3.19	5.86	7.63	8.11	8.44	8.82	8.74	8.85	7.38
21	2.57	2.19	2.74	3.26	5.94	7.55	8.13	8.42	8.82	8.71	8.85	7.19
22	2.55	2.24	2.69	3.28	6.03	7.48	8.15	8.42	8.80	8.74	8.83	7.04
23	2.53	2.40	2.69	3.28	6.15	7.40	8.17	8.42	8.80	8.78	8.81	7.00
24	2.51	2.42	2.71	3.30	6.28	7.34	8.19	8.48	8.80	8.78	8.79	6.96
25	2.48	2.42	2.74	3.30	6.44	7.34	8.21	8.65	8.78	8.78	8.77	6.94
26	2.48	2.42	2.74	3.32	6.61	7.32	8.24	8.69	8.82	8.82	8.75	6.90
27	2.46	2.42	2.74	3.32	6.80	7.32	8.26	8.71	8.80	8.84	8.73	6.85
28	2.46	2.42	2.74	3.32	6.88	7.44	8.26	8.71	8.78	8.82	8.71	6.83
29	2.44	2.44	2.74	3.32	-	7.44	-	8.74	8.76	8.84	8.67	6.79
30	2.44	2.44	2.74	3.44	-	7.42	-	8.76	8.86	8.82	8.65	-
31	2.42	-	2.74	3.53	-	7.46	-	8.78	-	8.82	8.62	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1925-26

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.75	6.40	7.12	7.40	7.62	8.04	8.79	8.96	8.79	8.65	-	9.02
2	6.71	6.38	7.17	7.38	7.67	8.10	8.75	8.94	8.83	8.62	8.73	-
3	6.69	6.38	-	7.35	7.67	8.12	8.73	8.94	8.88	8.62	8.73	9.25
4	6.69	6.35	-	7.35	7.67	8.15	8.71	8.94	8.85	-	8.71	9.21
5	6.73	6.33	-	7.38	7.73	8.15	8.71	8.92	8.83	-	8.65	9.21
6	6.71	6.31	7.54	7.38	7.73	8.15	8.73	8.90	8.81	8.58	8.56	9.33
7	6.69	6.25	7.62	7.35	7.73	8.19	8.75	8.92	8.83	8.60	8.50	9.38
8	6.65	6.21	7.65	7.33	7.71	8.29	8.83	8.92	8.83	8.58	8.48	9.35
9	6.60	6.29	7.67	7.35	7.71	8.33	8.94	8.90	8.83	8.56	8.46	9.31
10	6.65	6.31	7.67	7.38	7.71	8.33	8.94	8.88	8.81	8.54	8.44	9.31
11	6.60	6.25	7.67	7.35	7.71	8.31	8.96	8.85	8.81	8.62	8.42	9.29
12	6.54	6.25	7.67	7.33	7.69	8.29	-	8.85	8.79	8.58	8.42	9.25
13	6.48	6.56	7.67	7.31	7.67	8.29	8.96	8.83	8.79	8.58	8.58	9.19
14	6.44	6.54	7.62	7.31	7.67	8.27	8.98	8.85	8.83	8.56	8.58	-
15	6.50	6.52	7.65	7.29	7.75	8.27	8.98	8.88	8.88	8.54	8.73	9.10
16	6.50	6.75	7.60	7.27	7.75	8.27	8.96	-	-	8.58	8.79	9.08
17	6.50	6.88	7.58	7.25	7.75	8.27	8.96	8.90	8.85	8.52	8.96	9.04
18	6.48	6.92	7.54	7.23	7.75	8.27	8.96	8.90	8.83	8.50	-	9.02
19	6.44	6.94	7.52	7.40	7.81	8.27	8.96	8.88	8.81	8.71	-	9.00
20	6.40	6.98	7.54	7.42	7.85	8.29	8.94	8.88	8.79	8.75	-	8.96
21	6.35	7.00	7.54	7.44	7.85	8.35	8.92	8.85	8.75	8.75	-	-
22	6.35	7.02	7.54	7.58	7.83	8.40	8.92	8.83	8.73	8.75	-	8.92
23	6.33	7.04	7.52	7.58	7.83	8.44	8.92	8.88	8.71	8.75	9.04	8.88
24	6.31	7.02	7.52	7.56	7.81	8.50	8.92	8.85	8.75	8.73	9.06	8.88
25	6.42	7.00	7.50	7.56	7.88	8.52	8.94	8.83	8.75	8.81	9.08	8.83
26	6.46	7.02	7.50	7.56	8.00	8.58	8.94	8.83	8.75	8.81	9.10	8.92
27	6.44	7.06	7.50	7.56	8.02	8.65	8.94	8.83	8.73	8.81	9.10	-
28	6.42	7.10	7.48	7.56	8.04	8.69	8.96	8.81	8.71	8.79	9.10	-
29	6.42	7.12	7.46	7.54	-	8.71	8.98	8.79	8.67	8.77	9.08	-
30	6.40	7.12	7.44	7.54	-	8.73	8.96	8.77	8.65	8.77	9.04	8.83
31	6.42	-	7.42	7.54	-	-	-	8.77	-	-	9.02	-

1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.79	8.46	7.08	7.40	7.98	8.56	-	9.08	8.98	8.96	9.04	9.54
2	8.77	8.33	7.08	7.42	7.98	8.58	-	9.08	8.98	-	9.38	9.62
3	8.75	8.25	7.08	7.42	7.98	8.58	8.83	9.10	8.98	8.94	9.40	9.67
4	8.73	8.17	7.08	7.44	8.00	8.58	8.83	-	8.96	8.92	9.40	9.56
5	8.69	8.04	7.10	7.46	8.00	8.60	-	9.15	9.02	8.90	9.35	9.42
6	8.71	7.94	7.12	7.48	8.02	8.62	8.83	9.17	9.06	8.88	9.27	9.25
7	8.69	7.79	7.12	7.50	8.06	8.62	8.92	9.19	9.02	8.88	9.21	9.10
8	8.67	-	7.12	7.50	8.02	8.67	8.85	9.19	9.00	8.88	9.15	9.02
9	8.62	7.62	7.15	7.50	8.02	8.75	-	9.19	8.98	8.88	9.21	8.98
10	8.58	7.62	7.15	7.50	8.02	8.79	-	-	8.96	8.88	9.12	8.98
11	8.58	7.58	7.17	7.50	8.02	8.83	8.83	9.33	9.08	8.85	9.04	8.96
12	8.54	7.50	7.17	7.50	8.02	8.88	8.83	9.35	9.04	8.83	9.00	8.94
13	8.50	7.42	7.17	7.50	8.02	8.85	8.83	9.29	9.00	8.83	8.98	8.92
14	8.52	7.33	7.17	7.54	8.02	8.83	8.81	9.29	8.98	8.81	8.98	8.92
15	8.50	7.25	7.17	7.54	8.02	8.83	8.79	9.29	9.00	8.92	9.10	8.90
16	8.48	-	7.17	7.62	8.04	8.83	8.79	9.29	-	8.92	9.10	8.88
17	8.42	-	7.17	7.62	8.04	8.81	8.83	9.27	8.96	9.04	9.04	8.85
18	8.42	-	7.15	7.62	8.10	8.79	8.83	9.21	8.96	9.06	-	8.83
19	8.44	7.54	7.15	7.65	8.12	8.83	8.83	-	-	9.04	9.06	8.85
20	-	7.50	7.15	7.67	-	8.92	8.83	9.15	-	9.00	-	8.85
21	8.46	7.46	7.12	7.71	8.27	-	8.83	9.08	8.98	8.98	9.00	8.83
22	8.46	7.40	7.10	7.71	8.29	8.96	8.96	9.04	9.00	8.96	9.00	8.81
23	8.44	7.33	7.10	7.77	8.29	-	9.00	9.00	8.98	9.02	9.00	8.79
24	-	7.27	7.08	7.85	8.33	-	9.00	-	9.00	9.15	-	8.75
25	-	7.19	7.10	7.88	8.38	-	9.00	-	8.96	-	8.98	8.71
26	8.67	7.10	7.21	7.88	8.46	8.83	9.02	9.17	-	-	8.98	8.67
27	8.71	7.08	7.23	7.88	8.50	8.83	9.04	9.15	9.00	9.04	-	8.62
28	8.71	7.00	7.25	7.90	8.54	8.81	9.10	9.02	8.98	9.00	-	-
29	8.71	7.00	7.31	7.92	-	8.79	9.08	9.02	8.96	8.98	9.42	8.60
30	8.62	-	7.35	7.94	-	8.81	9.04	9.00	8.96	8.98	9.54	8.58
31	8.54	-	7.38	7.96	-	8.83	-	9.00	-	9.02	9.54	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1927-28

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.52	8.98	7.83	7.88	8.50	8.17	8.42	9.02	8.94	9.00	9.07	8.76
2	8.54	8.98	-	7.88	8.52	8.12	8.42	9.00	8.94	8.99	9.06	8.73
3	8.50	9.12	7.54	7.81	8.52	8.12	8.40	8.98	8.94	8.96	9.00	8.73
4	8.69	9.58	-	7.83	8.48	8.10	8.38	8.96	8.92	8.97	8.95	8.73
5	8.69	9.58	7.25	7.83	8.46	8.08	8.35	-	-	9.01	9.00	8.68
6	8.67	9.58	7.04	7.85	8.42	8.04	8.35	8.96	8.92	9.25	9.08	8.66
7	8.65	9.50	7.02	7.85	8.40	8.04	8.38	-	9.00	9.27	9.02	8.67
8	8.62	9.31	7.21	7.88	8.48	8.04	8.44	-	8.98	9.30	8.96	8.65
9	8.60	9.17	7.48	7.90	8.50	-	-	-	8.96	9.31	8.96	8.64
10	8.60	9.00	7.58	7.92	8.46	8.10	8.44	8.96	9.08	9.26	8.88	8.63
11	8.58	8.83	7.67	7.94	8.42	8.08	-	8.94	9.04	9.20	8.84	8.60
12	8.54	8.67	7.77	7.96	8.38	8.10	8.50	8.94	8.98	9.15	8.91	8.58
13	8.81	8.50	7.85	7.98	8.31	8.12	8.54	8.92	8.94	9.14	8.85	8.56
14	8.85	8.50	8.02	8.00	8.25	8.17	-	8.92	8.96	9.19	8.80	8.57
15	8.88	8.50	8.08	8.00	8.38	8.21	8.67	8.92	9.00	9.20	8.76	8.54
16	-	8.50	-	8.00	8.42	8.19	8.71	8.92	9.02	9.15	8.73	8.51
17	-	8.52	8.17	8.02	8.40	8.19	8.67	8.92	9.02	9.11	8.70	8.50
18	-	9.21	8.21	8.02	8.42	8.25	8.67	8.94	9.00	9.07	8.94	8.46
19	9.23	9.42	8.19	8.04	8.40	8.25	8.69	9.02	9.00	9.06	8.95	8.49
20	9.48	9.42	8.19	8.12	8.33	8.25	8.71	9.04	-	9.07	8.90	8.45
21	9.58	9.38	8.17	8.12	8.25	8.25	-	9.04	-	9.08	8.83	8.44
22	9.58	9.27	8.17	8.12	8.17	8.25	-	9.02	-	9.06	8.83	8.41
23	9.50	9.15	8.15	8.12	8.25	8.25	8.92	8.96	9.00	9.12	8.97	8.35
24	9.40	9.00	8.08	8.15	8.33	8.25	9.04	8.94	8.99	9.14	8.96	8.32
25	9.29	8.92	8.00	8.29	8.35	8.27	9.04	8.94	8.96	9.10	9.06	8.29
26	9.10	8.79	7.92	8.31	8.33	8.27	9.02	8.92	8.97	9.06	9.10	8.27
27	9.02	8.58	7.85	8.33	8.29	8.29	9.00	8.94	9.01	9.03	9.10	8.21
28	9.00	-	7.83	8.33	8.25	8.29	-	8.96	8.98	9.28	9.06	8.19
29	9.00	8.19	7.81	8.42	8.21	-	9.06	8.92	8.99	9.28	9.00	8.17
30	9.00	8.02	7.85	8.46	-	-	9.04	8.92	9.07	9.23	8.92	8.17
31	8.98	-	7.83	8.48	-	8.42	-	8.92	-	9.15	8.84	-

1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.14	7.34	7.01	6.51	6.83	7.13	8.77	9.26	9.13	9.17	8.72	8.21
2	8.11	7.31	7.03	6.61	6.78	7.17	8.81	9.25	9.13	9.16	8.71	8.19
3	8.09	7.29	7.03	6.61	6.77	7.24	8.81	9.21	9.10	9.12	8.67	8.17
4	8.07	7.31	7.01	6.61	6.73	7.25	8.82	9.21	9.08	9.06	8.66	8.13
5	8.04	7.36	7.00	6.60	6.71	7.31	8.86	9.17	9.07	9.07	8.60	8.10
6	8.03	7.33	7.00	6.84	6.69	7.50	8.96	9.18	9.09	9.08	8.57	8.11
7	8.00	7.31	6.99	6.98	6.81	7.56	8.99	9.22	9.07	9.07	8.54	8.08
8	7.97	7.30	6.98	7.03	6.86	7.58	9.02	9.20	9.09	9.07	8.51	8.10
9	7.91	7.30	6.95	7.05	6.89	7.65	9.05	9.18	9.11	9.07	8.49	8.08
10	7.91	7.26	6.91	7.11	6.91	7.69	9.10	9.16	9.10	9.06	8.47	8.05
11	7.86	7.26	6.89	7.13	6.92	7.72	9.11	9.13	9.08	9.03	8.48	8.04
12	7.85	7.24	6.86	7.15	6.91	7.77	9.21	9.11	9.07	9.02	8.47	7.97
13	7.82	7.23	6.85	7.14	6.91	7.82	9.29	9.21	9.06	9.01	8.47	7.92
14	7.81	7.20	6.82	7.11	6.90	7.87	9.29	9.23	9.05	8.97	8.46	7.94
15	7.77	7.16	6.80	7.09	6.89	8.04	9.27	9.23	9.07	8.96	8.51	7.93
16	7.75	7.15	6.77	7.09	6.86	8.13	9.38	9.22	9.08	8.93	8.50	7.89
17	7.74	7.15	6.75	7.07	6.87	8.22	9.32	9.21	9.07	8.91	8.47	7.87
18	7.73	7.13	6.79	7.05	6.86	8.27	9.28	9.16	9.11	8.87	8.45	7.91
19	7.71	7.11	6.76	7.05	6.85	8.33	9.25	9.15	9.09	8.97	8.48	7.85
20	7.69	7.14	6.75	7.08	6.86	8.38	9.22	9.21	9.12	8.97	8.47	7.82
21	7.65	7.13	6.71	7.05	6.89	8.42	9.25	9.23	9.12	8.94	8.43	7.77
22	7.61	7.10	6.69	7.02	6.91	8.47	9.27	9.22	9.12	8.92	8.41	7.73
23	7.57	7.10	6.66	7.01	6.90	8.43	9.24	9.20	9.09	8.88	8.38	7.69
24	7.60	7.05	6.65	6.98	6.88	8.58	9.20	9.17	9.08	8.87	8.38	7.66
25	7.55	7.05	6.60	6.98	6.87	8.60	9.18	9.19	9.07	8.87	8.35	7.62
26	7.54	7.02	6.57	6.97	6.89	8.65	9.34	9.17	9.18	8.86	8.32	7.59
27	7.49	7.00	6.55	6.94	6.97	8.67	9.35	9.15	9.17	8.82	8.30	7.57
28	7.45	6.96	6.53	6.90	7.10	8.69	9.34	9.13	9.13	8.82	8.29	7.52
29	7.43	6.95	6.50	6.88	-	8.71	9.36	9.13	9.21	8.80	8.26	7.49
30	7.39	6.94	6.53	6.86	-	8.71	9.32	9.12	9.17	8.78	8.24	7.49
31	7.35	-	6.51	6.84	-	8.76	-	9.12	-	8.77	8.22	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.46	6.98	6.66	7.05	7.16	7.35	8.59	9.18	8.97	9.01	8.80	8.45
2	7.57	6.97	6.64	7.06	7.14	7.37	8.63	9.20	8.96	9.06	8.76	8.44
3	7.62	7.00	6.65	7.08	7.11	7.35	8.63	9.20	8.96	9.04	8.75	8.45
4	7.59	7.02	6.63	7.10	7.11	7.33	8.64	9.16	8.94	9.04	8.71	8.41
5	7.56	6.99	6.61	7.10	7.18	7.31	8.65	9.13	8.92	9.01	8.71	8.36
6	7.53	6.96	6.65	7.10	7.18	7.28	8.65	9.11	8.91	9.05	8.70	8.33
7	7.48	6.94	6.68	7.10	7.18	7.29	8.81	9.11	8.91	9.04	8.66	8.29
8	7.47	6.92	6.71	7.10	7.18	7.49	8.88	9.11	8.91	9.02	8.65	8.27
9	7.42	6.90	6.70	7.11	7.16	7.65	8.94	9.12	8.91	9.00	8.62	8.22
10	7.38	6.86	6.69	7.11	7.14	7.74	8.97	9.11	9.16	9.06	8.61	8.18
11	7.34	6.83	6.66	7.10	7.12	7.83	9.01	9.09	9.25	9.03	8.55	8.13
12	7.32	6.82	6.64	7.10	7.11	7.97	9.03	9.04	9.28	9.02	8.51	8.10
13	7.27	6.79	6.65	7.12	7.09	8.04	9.07	9.02	9.27	8.98	8.47	8.07
14	7.26	6.78	6.65	7.14	7.14	8.12	9.12	9.02	9.26	9.04	8.44	8.12
15	7.23	6.77	6.65	7.30	7.14	8.17	9.14	9.06	9.25	9.03	8.48	8.10
16	7.18	6.77	6.63	7.32	7.15	8.20	9.18	9.06	9.21	9.01	8.48	8.06
17	7.15	6.74	6.61	7.31	7.14	8.24	9.23	9.05	9.20	9.00	8.47	8.06
18	7.10	6.86	6.82	7.35	7.13	8.28	9.24	9.06	9.24	8.98	8.45	8.05
19	7.06	6.83	6.76	7.42	7.12	8.36	9.27	9.06	9.25	8.96	8.44	8.04
20	7.04	6.85	6.83	7.40	7.10	8.38	9.29	9.06	9.21	8.99	8.41	8.00
21	7.01	6.83	6.85	7.39	7.09	8.41	9.28	9.05	9.20	8.96	8.42	7.97
22	7.00	6.82	6.88	7.37	7.10	8.41	9.28	9.04	9.17	8.95	8.39	7.93
23	7.20	6.82	6.90	7.36	7.13	8.43	9.26	9.02	9.14	8.95	8.51	7.89
24	7.19	6.78	6.94	7.34	7.18	8.43	9.24	9.02	9.11	8.92	8.55	7.85
25	7.17	6.77	6.95	7.31	7.23	8.48	9.23	9.08	9.11	9.00	8.54	7.85
26	7.12	6.75	6.96	7.30	7.31	8.51	9.22	9.05	9.08	9.00	8.53	7.86
27	7.11	6.75	6.95	7.27	7.36	8.52	9.22	9.02	9.11	8.92	8.52	7.82
28	7.10	6.74	6.96	7.31	7.36	8.55	9.21	9.01	9.09	8.90	8.51	7.78
29	7.06	6.71	7.01	7.21	-	8.58	9.19	9.03	9.06	8.87	8.50	7.73
30	7.02	6.70	7.05	7.19	-	8.58	9.18	9.02	9.02	8.87	8.49	7.70
31	7.01	-	7.05	7.17	-	8.60	-	9.01	-	8.84	8.47	-

1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.65	6.76	6.70	6.58	6.54	6.92	8.51	9.30	9.25	9.10	9.00	8.90
2	7.60	6.73	6.68	6.58	6.50	6.94	8.57	9.29	9.22	9.07	8.99	8.88
3	7.56	6.71	6.66	6.58	6.52	6.96	8.64	9.29	9.19	9.05	8.96	8.91
4	7.51	6.70	6.65	6.58	6.52	6.96	8.71	9.25	9.16	9.05	9.04	8.90
5	7.45	6.70	6.64	6.58	6.52	6.98	8.82	9.25	9.15	9.04	9.01	8.90
6	7.41	6.74	6.63	6.71	6.52	7.00	8.88	9.24	9.14	9.07	9.00	8.89
7	7.37	6.71	6.60	6.62	6.52	7.00	8.94	9.23	9.11	9.07	9.00	8.88
8	7.35	6.69	6.58	6.67	6.58	7.08	8.98	9.29	9.27	9.08	9.00	8.85
9	7.31	6.65	6.55	6.71	6.65	7.25	9.02	9.34	9.28	9.05	8.97	8.80
10	7.28	6.60	6.54	6.71	6.77	7.33	9.04	9.34	9.26	9.39	8.99	8.77
11	7.26	6.58	6.51	6.71	6.75	7.40	9.09	9.35	9.27	9.82	9.00	8.74
12	7.25	6.55	6.50	6.71	6.75	7.46	9.09	9.33	9.25	9.66	9.03	8.71
13	7.21	6.54	6.50	6.75	6.71	7.50	9.08	9.35	9.23	9.77	9.00	8.67
14	7.19	6.53	6.49	6.75	6.75	7.50	9.11	9.33	9.21	9.65	9.00	8.62
15	7.20	6.57	6.47	6.73	6.73	7.56	9.11	9.31	9.19	9.67	9.00	8.64
16	7.16	6.61	6.45	6.71	6.71	7.58	9.10	9.33	9.20	9.60	9.06	8.62
17	7.14	6.65	6.45	6.69	6.73	7.62	9.09	9.30	9.44	9.50	9.05	8.58
18	7.15	6.79	6.44	6.69	6.81	7.67	9.10	9.27	9.45	9.43	9.02	8.55
19	7.10	6.82	6.43	6.73	6.85	7.69	9.10	9.24	9.42	9.38	9.00	8.52
20	7.05	6.82	6.42	6.75	6.88	7.75	9.09	9.22	9.40	9.30	9.03	8.45
21	7.03	6.80	6.40	6.73	6.88	7.77	9.08	9.29	9.40	9.24	9.00	8.43
22	6.98	6.80	6.38	6.71	6.90	7.79	9.07	9.30	9.35	9.22	8.98	8.43
23	6.96	6.78	6.38	6.71	6.90	7.82	9.21	9.35	9.30	9.16	8.96	8.48
24	6.93	6.76	6.38	6.69	6.92	7.86	9.22	9.34	9.30	9.13	8.95	8.46
25	6.90	6.76	6.35	6.67	6.92	7.90	9.22	9.31	9.25	9.10	8.91	8.43
26	6.86	6.75	6.33	6.65	6.92	7.95	9.23	9.31	9.22	9.10	8.90	8.40
27	6.82	6.71	6.30	6.62	6.92	7.99	9.33	9.29	9.21	9.08	8.90	8.41
28	6.80	6.70	6.52	6.62	6.92	8.00	9.33	9.27	9.20	9.07	8.95	8.38
29	6.78	6.67	6.54	6.60	-	8.18	9.33	9.25	9.15	9.05	8.94	8.35
30	6.77	6.65	6.56	6.60	-	8.28	9.33	9.24	9.13	9.05	8.93	8.32
31	6.78	-	6.58	6.58	-	8.37	-	9.20	-	9.03	8.91	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.25	7.26	6.41	6.00	6.92	7.62	9.08	9.12	9.00	8.85	8.22	7.82
2	8.23	7.21	6.39	6.07	6.92	7.62	9.18	9.22	9.00	8.84	8.17	7.96
3	8.21	7.17	6.33	6.15	6.95	7.61	9.27	9.22	8.99	8.82	8.15	7.96
4	8.18	7.12	6.32	6.18	6.96	7.61	9.31	9.20	8.98	8.81	8.15	7.95
5	8.15	7.08	6.39	6.18	7.04	7.63	9.27	9.19	8.98	8.85	8.14	7.90
6	8.11	7.06	6.33	6.19	7.07	7.64	9.25	9.16	8.97	8.83	8.12	8.08
7	8.09	7.03	6.26	6.35	7.09	7.75	9.22	9.16	8.97	8.81	8.12	8.08
8	8.05	7.00	6.25	6.40	7.11	7.77	9.18	9.20	8.91	8.80	8.11	8.05
9	8.09	6.96	6.25	6.49	7.15	7.76	9.17	9.22	8.90	8.77	8.09	7.99
10	8.05	6.95	6.26	6.52	7.16	7.76	9.17	9.23	8.87	8.73	8.06	7.94
11	8.00	6.91	6.25	6.55	7.29	7.76	9.17	9.20	8.85	8.70	8.07	7.91
12	7.97	6.88	6.25	6.56	7.40	7.76	9.19	9.19	8.84	8.67	8.04	7.86
13	7.90	6.85	6.26	6.55	7.44	7.81	9.18	9.19	8.90	8.65	8.01	7.83
14	7.85	6.84	6.25	6.61	7.49	7.81	9.18	9.17	8.90	8.64	7.98	7.77
15	7.84	6.80	6.24	6.62	7.53	7.81	9.16	9.16	8.90	8.61	7.95	7.76
16	7.86	6.77	6.18	6.65	7.55	7.81	9.14	9.15	8.90	8.58	7.97	7.75
17	7.82	6.75	6.17	6.67	7.56	7.81	9.14	9.15	8.91	8.57	7.98	7.66
18	7.82	6.70	6.16	6.68	7.58	7.88	9.13	9.14	8.90	8.59	7.85	7.63
19	7.77	6.70	6.15	6.69	7.60	7.83	9.14	9.11	8.88	8.55	7.92	7.60
20	7.73	6.67	6.13	6.67	7.60	7.85	9.14	9.07	8.87	8.52	7.91	7.55
21	7.70	6.65	6.10	6.70	7.58	7.86	9.14	9.06	8.85	8.51	7.91	7.54
22	7.67	6.64	6.09	6.73	7.57	7.93	9.15	9.07	8.96	8.48	7.90	7.52
23	7.62	6.62	6.09	6.75	7.58	7.96	9.15	9.04	8.96	8.52	7.86	7.48
24	7.61	6.58	6.09	6.76	7.58	7.98	9.12	9.03	8.92	8.52	7.83	7.39
25	7.55	6.54	6.08	6.76	7.59	8.00	9.11	9.00	8.90	8.49	7.81	7.42
26	7.48	6.50	6.09	6.77	7.57	8.02	9.10	8.99	8.88	8.46	7.81	7.36
27	7.41	6.48	6.06	6.79	7.58	8.09	9.13	8.99	8.86	8.43	7.80	7.32
28	7.37	6.47	6.05	6.82	7.59	8.32	9.13	9.05	8.89	8.40	7.80	7.30
29	7.35	6.45	6.05	6.83	7.60	8.57	9.12	9.06	8.88	8.35	7.80	7.30
30	7.34	6.44	6.02	6.86	-	8.70	9.12	9.04	8.86	8.30	7.79	7.27
31	7.30	-	6.02	6.90	-	8.81	-	9.00	-	8.25	7.76	-

1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.23	7.48	8.80	7.92	6.95	7.75	9.33	9.26	9.20	8.84	8.52	9.19
2	7.20	7.79	8.70	7.80	6.96	7.76	9.42	9.25	9.19	8.94	8.50	9.15
3	7.16	7.91	8.58	7.72	7.00	7.76	9.42	9.25	9.18	8.98	8.49	9.18
4	7.14	7.95	8.52	7.61	7.00	7.79	9.45	9.34	9.14	8.95	8.50	9.35
5	7.11	7.97	8.39	7.50	7.05	7.79	9.45	9.29	9.13	8.95	8.50	9.39
6	7.20	8.02	8.30	7.40	7.05	7.79	9.45	9.26	9.18	8.94	8.49	9.38
7	7.48	8.15	8.12	7.27	7.05	7.79	9.47	9.32	9.19	8.93	8.45	9.31
8	7.50	8.25	8.04	7.17	7.13	7.87	9.45	9.27	9.19	8.92	8.45	9.28
9	7.53	8.35	7.95	7.07	7.20	7.95	9.48	9.26	9.19	8.89	8.43	9.23
10	7.52	8.54	7.92	7.00	7.22	7.95	9.48	9.26	9.19	8.88	8.39	9.17
11	7.50	8.72	7.94	6.90	7.25	7.95	9.41	9.26	9.21	8.84	8.43	9.13
12	7.44	8.88	7.95	6.81	7.37	7.98	9.47	9.26	9.18	8.81	8.42	9.09
13	7.41	8.94	7.95	6.69	7.36	7.97	9.60	9.26	9.15	8.79	8.42	9.02
14	7.36	8.94	7.95	6.60	7.38	8.07	9.58	9.27	9.14	8.78	8.45	9.00
15	7.29	8.96	7.95	6.52	7.38	8.21	9.57	9.26	9.12	8.75	8.46	9.35
16	7.24	8.98	7.93	6.52	7.38	8.27	9.59	9.25	9.08	8.77	8.46	9.60
17	7.17	9.02	7.92	6.55	7.38	8.31	9.55	9.25	9.02	8.76	8.46	9.71
18	7.34	9.04	7.95	6.60	7.37	8.38	9.58	9.25	9.05	8.76	8.46	9.69
19	7.44	9.12	7.94	6.61	7.40	8.46	9.76	9.20	9.01	8.76	8.46	9.65
20	7.45	9.48	7.92	6.65	7.45	8.62	10.00	9.18	8.96	8.76	8.48	9.56
21	7.49	9.52	7.90	6.65	7.53	8.80	9.53	9.24	8.95	8.75	8.47	9.48
22	7.48	9.52	7.90	6.69	7.57	8.90	9.50	9.23	8.94	8.75	8.57	9.42
23	7.47	9.46	7.90	6.73	7.61	9.02	9.47	9.20	8.94	8.70	8.62	9.33
24	7.47	9.40	7.87	6.78	7.65	9.13	9.43	9.18	8.93	8.63	9.15	9.25
25	7.46	9.33	7.92	6.80	7.68	9.16	9.38	9.18	8.91	8.63	9.50	9.21
26	7.45	9.29	7.92	6.90	7.73	9.25	9.38	9.18	8.90	8.63	9.54	9.16
27	7.47	9.21	7.92	6.89	7.75	9.26	9.33	9.15	8.89	8.61	9.52	9.10
28	7.48	9.06	7.98	6.90	7.75	9.27	9.31	9.15	8.85	8.60	9.48	9.09
29	7.48	8.98	8.00	6.96	-	9.32	9.27	9.15	8.85	8.58	9.40	9.05
30	7.48	8.88	8.03	6.96	-	9.33	9.29	9.16	8.85	8.54	9.31	9.02
31	7.47	-	8.00	6.95	-	9.33	-	9.21	-	8.53	9.25	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.92	7.48	6.53	6.42	6.58	6.27	7.97	9.22	9.21	9.09	8.77	8.46
2	8.93	7.45	6.49	6.42	6.62	6.25	8.08	9.21	9.21	9.07	8.75	8.43
3	8.89	7.42	6.48	6.42	6.60	6.25	8.19	9.25	9.18	9.04	8.79	8.42
4	8.83	7.37	6.48	6.43	6.58	6.30	8.28	9.32	9.17	9.08	8.79	8.43
5	8.77	7.35	6.48	6.46	6.56	6.40	8.34	9.32	9.15	9.06	8.77	8.40
6	8.72	7.32	6.48	6.48	6.56	6.60	8.38	9.29	9.12	9.05	8.73	8.37
7	8.67	7.27	6.48	6.57	6.54	6.70	8.49	9.28	9.13	9.02	8.71	8.36
8	8.62	7.22	6.48	6.72	6.52	6.73	8.55	9.27	9.10	9.11	8.69	8.50
9	8.58	7.18	6.47	6.82	6.52	6.78	8.59	9.24	9.04	9.08	8.65	8.65
10	8.49	7.12	6.42	6.88	6.50	6.82	8.65	9.18	9.06	9.07	8.65	8.68
11	8.43	7.10	6.39	6.94	6.48	6.94	8.68	9.27	9.07	9.03	8.69	8.67
12	8.36	7.07	6.35	6.97	6.46	6.90	8.84	9.28	9.08	9.00	8.69	8.65
13	8.32	7.03	6.35	6.97	6.44	6.94	8.89	9.27	9.18	8.96	8.69	8.61
14	8.25	6.97	6.34	6.98	6.42	6.97	8.97	9.23	9.17	8.98	8.69	8.59
15	8.21	6.92	6.30	6.99	6.40	6.98	9.03	9.27	9.14	9.00	8.69	8.65
16	8.15	6.87	6.29	6.99	6.38	7.00	9.08	9.31	9.13	9.02	8.69	8.65
17	8.08	6.84	6.31	6.99	6.35	7.04	9.20	9.29	9.10	9.00	8.67	8.86
18	8.16	6.80	6.31	6.99	6.33	7.13	9.22	9.26	9.07	8.96	8.67	8.95
19	8.14	6.85	6.31	6.93	6.31	7.15	9.24	9.25	9.24	8.94	8.65	8.95
20	8.08	6.82	6.31	6.88	6.38	7.17	9.29	9.23	9.31	8.92	8.62	8.95
21	8.04	6.78	6.34	6.82	6.35	7.19	9.30	9.24	9.30	8.92	8.60	8.90
22	7.97	6.74	6.35	6.77	6.33	7.22	9.29	9.22	9.28	8.90	8.56	8.81
23	7.93	6.74	6.35	6.69	6.33	7.23	9.27	9.27	9.27	8.85	8.58	8.73
24	7.87	6.73	6.35	6.75	6.33	7.23	9.27	9.24	9.26	8.83	8.57	8.63
25	7.86	6.69	6.35	6.71	6.33	7.29	9.34	9.26	9.22	8.83	8.59	8.54
26	7.79	6.69	6.35	6.69	6.33	7.30	9.32	9.34	9.18	8.83	8.57	8.45
27	7.76	6.64	6.41	6.67	6.33	7.31	9.29	9.35	9.16	8.81	8.55	8.34
28	7.70	6.60	6.41	6.67	6.31	7.48	9.29	9.32	9.15	8.83	8.55	8.20
29	7.65	6.60	6.41	6.71	-	7.56	9.26	9.30	9.12	8.83	8.52	8.03
30	7.59	6.58	6.41	6.67	-	7.62	9.23	9.26	9.12	8.83	8.50	8.14
31	7.53	-	6.43	6.62	-	7.73	-	9.26	-	8.81	8.47	-

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.16	3.92	4.21	4.90	5.48	5.66	7.05	7.62	7.52	7.53	8.95	8.56
2	8.10	3.92	4.50	4.96	5.46	5.67	7.07	7.61	7.48	7.50	8.95	8.54
3	7.98	3.92	4.62	4.96	5.42	5.72	7.09	7.61	7.45	7.46	8.98	8.54
4	7.87	3.92	4.72	4.92	5.42	5.71	7.11	7.61	7.42	7.43	8.98	8.59
5	7.73	4.02	4.78	4.92	5.42	5.71	7.12	7.63	7.43	7.41	8.97	8.82
6	7.69	4.02	4.82	4.92	5.42	5.75	7.16	7.64	7.43	7.41	8.94	8.91
7	7.66	4.02	4.84	4.92	5.40	5.80	7.18	7.67	7.43	7.38	8.93	8.90
8	7.57	4.00	4.84	4.94	5.38	5.87	7.22	7.71	7.44	7.35	8.91	8.90
9	7.45	4.02	4.80	4.96	5.38	5.92	7.31	7.68	7.47	8.03	8.89	8.87
10	7.33	4.00	4.76	5.10	5.36	5.94	7.31	7.67	7.48	8.55	8.88	8.90
11	7.15	4.00	4.74	5.20	5.34	5.99	7.32	7.70	7.46	8.93	8.86	8.90
12	7.00	4.00	4.66	5.24	5.32	6.06	7.35	7.69	7.45	9.10	8.85	8.87
13	6.80	3.96	4.62	5.26	5.30	6.17	7.39	7.69	7.44	9.24	8.85	8.85
14	6.61	4.00	4.58	5.28	5.28	6.22	7.41	7.68	7.43	9.24	8.87	8.82
15	6.43	3.98	4.54	5.30	5.38	6.25	7.43	7.70	7.43	9.25	8.86	8.77
16	6.25	3.96	4.48	5.32	5.40	6.29	7.47	7.68	7.39	9.23	8.85	8.76
17	6.07	3.94	4.48	5.36	5.48	6.36	7.51	7.66	7.37	9.21	8.84	8.74
18	5.89	3.92	4.50	5.36	5.49	6.43	7.51	7.68	7.43	9.17	8.83	8.68
19	5.72	3.90	4.48	5.38	5.49	6.46	7.52	7.66	7.54	9.14	8.80	8.65
20	5.50	3.92	4.76	5.40	5.50	6.52	7.53	7.64	7.52	9.15	8.79	8.65
21	5.25	3.92	4.76	5.42	5.49	6.62	7.55	7.62	7.51	9.14	8.76	8.60
22	5.10	3.92	4.78	5.48	5.48	6.69	7.56	7.61	7.53	9.10	8.76	8.60
23	4.98	3.90	4.80	5.48	5.48	6.76	7.57	7.60	7.53	9.07	8.75	8.59
24	4.75	4.00	4.80	5.54	5.51	6.85	7.58	7.60	7.53	9.10	8.72	8.53
25	4.54	3.94	4.80	5.54	5.51	6.82	7.60	7.60	7.51	9.11	8.68	8.50
26	4.38	3.94	4.80	5.54	5.55	6.86	7.59	7.57	7.50	9.13	8.64	8.45
27	4.21	3.94	4.88	5.54	5.64	6.88	7.59	7.56	7.48	9.10	8.61	8.44
28	4.08	3.96	4.86	5.54	5.65	6.91	7.57	7.54	7.55	9.03	8.60	8.40
29	4.00	3.94	4.86	5.52	-	6.98	7.59	7.50	7.56	9.01	8.60	8.39
30	3.96	4.02	4.86	5.52	-	7.04	7.62	7.52	7.54	9.00	8.59	8.35
31	3.92	-	4.86	5.50	-	7.05	-	7.50	-	8.96	8.58	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.29	8.27	8.97	7.30	6.98	6.58	9.29	9.14	9.02	9.16	8.68	8.54
2	8.30	8.36	9.00	7.23	6.96	6.60	9.25	9.14	9.00	9.16	8.65	8.51
3	8.25	8.44	9.01	7.40	6.84	6.65	9.24	9.14	9.00	9.14	8.62	8.50
4	8.22	8.47	9.00	7.50	6.80	6.68	9.24	9.25	9.00	9.13	8.60	8.50
5	8.18	8.48	8.90	7.58	6.74	6.70	9.23	9.26	9.00	9.10	8.58	8.51
6	8.16	8.52	8.85	7.58	6.69	6.75	9.41	9.25	9.00	9.10	8.56	8.49
7	8.14	8.53	8.80	7.58	6.64	6.77	9.56	9.22	8.99	9.07	8.54	8.45
8	8.09	8.57	8.73	7.57	6.62	6.79	9.60	9.23	8.97	9.05	8.52	8.44
9	8.06	8.58	8.73	7.53	6.63	6.82	9.56	9.25	8.95	9.05	8.50	8.42
10	8.02	8.57	8.74	7.57	6.59	6.86	9.59	9.21	8.93	9.02	8.46	8.40
11	7.98	8.57	8.72	7.57	6.55	7.00	9.60	9.21	8.92	9.01	8.47	8.35
12	7.97	8.58	8.66	7.57	6.50	8.22	9.58	9.19	8.92	9.00	8.46	8.29
13	7.96	8.60	8.62	7.57	6.48	8.98	9.55	9.19	9.00	9.00	8.44	8.27
14	7.93	8.66	8.58	7.53	6.60	9.25	9.54	9.23	9.06	8.97	8.42	8.24
15	7.93	8.65	8.50	7.51	6.58	9.42	9.49	9.19	9.10	8.97	8.40	8.20
16	7.89	8.65	8.45	7.56	6.55	9.52	9.45	9.20	9.12	8.94	8.40	8.19
17	7.83	8.68	8.42	7.56	6.53	9.58	9.41	9.16	9.12	8.93	8.39	8.16
18	7.79	8.78	8.36	7.54	6.53	9.76	9.35	9.15	9.15	8.91	8.36	8.16
19	7.76	8.73	8.29	7.57	6.51	9.96	9.33	9.15	9.21	8.95	8.32	8.15
20	7.73	8.72	8.22	7.63	6.49	10.00	9.28	9.17	9.22	8.94	8.31	8.12
21	7.71	8.73	8.10	7.60	6.47	9.98	9.28	9.15	9.36	8.93	8.30	8.10
22	7.67	8.72	8.04	7.57	6.45	9.94	9.28	9.14	9.35	8.90	8.28	8.08
23	7.65	8.73	7.98	7.53	6.44	9.78	9.25	9.12	9.33	8.85	8.45	8.06
24	7.63	8.73	7.94	7.49	6.42	9.73	9.25	9.10	9.31	8.85	8.61	8.01
25	7.59	8.70	7.80	7.40	6.40	9.64	9.21	9.10	9.28	8.86	8.60	7.98
26	7.56	8.68	7.74	7.34	6.42	9.55	9.17	9.10	9.25	8.82	8.60	7.94
27	7.53	8.65	7.68	7.28	6.48	9.47	9.17	9.06	9.24	8.78	8.59	7.90
28	7.51	8.62	7.58	7.24	6.54	9.50	9.15	9.06	9.22	8.76	8.55	7.86
29	7.48	8.82	7.50	7.18	6.55	9.42	9.15	9.06	9.19	8.75	8.57	7.82
30	7.54	8.92	7.45	7.11	-	9.36	9.14	9.06	9.16	8.72	8.58	7.81
31	8.08	-	7.38	7.04	-	9.32	-	9.05	-	8.69	8.56	-

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.85	4.75	4.15	5.91	8.28	9.38	9.29	9.37	9.24	9.15	8.83	9.01
2	7.81	4.74	4.17	5.96	8.35	9.35	9.29	9.35	9.23	9.14	8.83	9.00
3	7.74	4.68	4.21	6.03	8.38	9.35	9.29	9.32	9.18	9.14	8.83	8.98
4	7.63	4.72	4.19	6.07	8.40	9.31	9.26	9.30	9.18	9.11	8.83	8.98
5	7.48	4.78	4.19	6.10	8.44	9.32	9.25	9.28	9.17	9.10	8.73	9.02
6	7.32	4.77	4.17	6.14	8.45	9.30	9.36	9.28	9.15	9.09	8.70	9.04
7	7.15	4.71	4.29	6.19	8.50	9.29	9.41	9.30	9.20	9.07	8.70	9.00
8	7.01	4.69	4.32	6.24	8.52	9.26	9.40	9.29	9.20	9.06	8.67	8.97
9	6.85	4.72	4.32	6.25	8.55	9.27	9.42	9.26	9.16	9.06	8.67	8.93
10	6.72	4.68	4.32	6.34	8.59	9.25	9.44	9.26	9.14	9.05	8.66	8.90
11	6.54	4.66	4.34	6.39	8.61	9.25	9.40	9.24	9.14	9.05	8.66	8.94
12	6.32	4.62	4.44	6.41	8.63	9.24	9.38	9.20	9.13	9.00	8.82	8.93
13	6.15	4.62	4.50	6.45	8.67	9.22	9.34	9.18	9.11	9.00	8.84	8.85
14	5.96	4.54	4.50	6.47	8.68	9.21	9.29	9.36	9.09	8.97	8.84	8.88
15	5.77	4.56	4.50	6.57	8.71	9.25	9.30	9.62	9.09	9.00	8.84	8.85
16	5.59	4.56	4.57	6.68	8.73	9.30	9.33	9.68	9.09	9.00	8.83	8.85
17	5.59	4.50	4.60	6.70	8.75	9.28	9.33	9.67	9.09	9.03	8.80	8.85
18	5.46	4.49	4.64	6.82	8.75	9.25	9.30	9.65	9.09	9.00	8.76	8.75
19	5.32	4.48	4.66	6.91	8.75	9.24	9.30	9.61	9.09	8.98	8.76	8.70
20	5.20	4.44	5.00	6.97	8.75	9.25	9.28	9.60	9.08	8.97	8.75	8.68
21	5.12	4.39	5.28	7.05	8.79	9.29	9.26	9.50	9.05	8.94	8.74	8.64
22	5.08	4.37	5.45	7.15	9.10	9.29	9.36	9.48	9.22	8.92	8.72	8.61
23	5.06	4.35	5.51	7.29	9.26	9.29	9.40	9.45	9.23	8.90	8.99	8.58
24	5.03	4.34	5.59	7.35	9.34	9.29	9.39	9.43	9.21	8.90	9.02	8.55
25	5.00	4.32	5.63	7.56	9.38	9.31	9.37	9.40	9.20	8.84	9.04	8.59
26	4.92	4.32	5.68	7.70	9.40	9.33	9.37	9.37	9.18	8.80	9.03	8.59
27	4.94	4.29	5.70	7.82	9.40	9.32	9.38	9.34	9.14	8.91	9.05	8.51
28	4.88	4.24	5.74	7.87	9.39	9.31	9.39	9.35	9.12	8.90	9.06	8.51
29	4.85	4.21	5.76	7.99	-	9.30	9.41	9.31	9.12	8.88	9.06	8.50
30	4.82	4.17	5.78	8.05	-	9.29	9.40	9.28	9.11	8.86	9.04	8.50
31	4.79	-	5.80	8.14	-	9.29	-	9.27	-	8.85	9.02	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.41	8.30	8.67	7.79	8.23	7.98	8.70	9.20	9.13	9.60	9.50	8.99
2	8.35	8.25	8.63	7.80	8.22	7.95	8.72	9.18	9.10	9.54	9.49	8.98
3	8.31	8.27	8.59	7.79	8.20	7.95	8.70	9.17	9.15	9.45	9.45	8.96
4	8.27	8.24	8.52	7.78	8.18	7.95	8.70	9.16	9.13	9.40	9.40	8.93
5	8.24	8.21	8.48	7.75	8.18	7.95	8.70	9.15	9.13	9.35	9.38	8.92
6	8.26	8.18	8.42	7.71	8.19	7.97	8.71	9.15	9.12	9.30	9.36	8.90
7	8.25	8.16	8.37	7.69	8.19	7.98	8.81	9.14	9.11	9.28	9.39	8.84
8	8.21	8.15	8.31	7.69	8.19	7.97	8.80	9.11	9.17	9.25	9.36	8.85
9	8.18	8.13	8.25	7.70	8.19	7.97	8.89	9.10	9.16	9.22	9.35	8.80
10	8.15	8.11	8.19	7.70	8.17	7.97	8.96	9.11	9.15	9.20	9.32	8.76
11	8.13	8.10	8.14	7.68	8.16	7.97	8.98	9.11	9.11	9.19	9.37	8.73
12	8.08	8.08	8.08	7.67	8.14	7.99	9.02	9.10	9.13	9.30	9.37	8.68
13	8.06	8.25	7.91	7.63	8.12	8.00	9.06	9.08	9.18	9.29	9.31	8.65
14	8.04	8.73	7.87	7.60	8.10	8.05	9.10	9.05	9.20	9.26	9.28	8.64
15	7.99	8.92	7.81	7.60	8.07	8.13	9.11	9.18	9.20	9.25	9.25	8.65
16	7.95	9.02	7.81	7.56	8.07	8.16	9.15	9.23	9.16	9.25	9.24	8.65
17	7.93	9.06	7.80	7.56	8.06	8.24	9.13	9.21	9.14	9.19	9.23	8.61
18	7.90	9.07	7.85	7.56	8.04	8.31	9.13	9.21	9.15	9.17	9.21	8.60
19	7.90	9.06	7.92	7.46	8.01	8.37	9.25	9.20	9.14	9.15	9.19	8.56
20	8.07	9.06	7.92	7.44	8.06	8.40	9.25	9.19	9.11	9.19	9.18	8.95
21	8.07	9.01	7.92	7.40	8.06	8.44	9.29	9.19	9.10	9.27	9.15	9.12
22	8.09	8.97	7.92	7.40	8.06	8.46	9.29	9.20	9.08	9.65	9.13	9.70
23	8.20	8.92	7.91	7.36	8.06	8.50	9.30	9.19	9.06	9.74	9.10	9.76
24	8.25	8.85	7.91	7.33	8.06	8.54	9.30	9.18	9.06	9.96	9.09	9.74
25	8.25	8.80	7.91	7.64	8.05	8.58	9.26	9.20	9.06	9.96	9.05	9.65
26	8.25	8.75	7.92	7.95	8.01	8.55	9.26	9.18	9.03	9.89	9.04	9.57
27	8.25	8.67	7.89	8.04	8.01	8.60	9.24	9.21	9.35	9.80	9.02	9.48
28	8.31	8.60	7.86	8.08	8.00	8.60	9.24	9.21	9.65	9.73	9.00	9.45
29	8.32	8.67	7.87	8.10	-	8.60	9.22	9.21	9.72	9.65	8.97	9.40
30	8.30	8.67	7.82	8.15	-	8.64	9.21	9.19	9.69	9.64	8.96	9.36
31	8.31	-	7.80	8.20	-	8.67	-	9.15	-	9.62	8.95	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.30	8.46	8.07	8.16	7.75	8.75	9.25	9.40	9.05	8.79	8.31	8.07
2	9.22	8.42	8.06	8.10	7.74	8.80	9.35	9.35	9.02	8.77	8.30	8.06
3	9.16	8.40	8.06	8.05	7.77	8.82	9.36	9.35	8.98	8.74	8.26	8.05
4	9.10	8.36	8.18	8.00	7.91	8.82	9.36	9.30	8.97	8.72	8.25	8.04
5	9.06	8.34	8.27	7.97	7.95	8.85	9.35	9.26	8.96	8.68	8.30	8.03
6	9.04	8.34	8.63	8.05	7.98	8.91	9.33	9.26	8.94	8.67	8.26	8.00
7	9.04	8.34	8.83	8.09	8.02	8.93	9.48	9.25	8.90	8.69	8.26	7.95
8	9.00	8.31	8.94	8.10	8.03	8.92	9.46	9.25	8.88	8.66	8.24	7.92
9	8.98	8.31	9.06	8.10	8.02	8.91	9.45	9.22	8.86	8.65	8.20	7.90
10	8.94	8.26	9.11	8.09	8.04	8.90	9.44	9.26	8.86	8.63	8.22	7.84
11	8.90	8.23	9.11	8.09	8.10	8.87	9.40	9.25	8.86	8.60	8.20	7.79
12	8.86	8.21	9.11	8.08	8.10	8.89	9.46	9.23	8.84	8.57	8.20	7.75
13	8.81	8.17	9.08	8.06	8.11	8.94	9.44	9.20	8.82	8.53	8.10	7.73
14	8.79	8.13	9.02	8.10	8.11	8.90	9.41	9.20	8.92	8.52	8.12	7.70
15	8.75	8.10	9.00	8.08	8.10	8.88	9.37	9.17	8.94	8.50	8.10	7.66
16	8.70	8.06	8.95	8.07	8.25	8.90	9.34	9.15	8.94	8.46	8.09	7.63
17	8.66	8.04	8.91	8.05	8.31	8.92	9.31	9.14	8.92	8.44	8.07	7.60
18	8.64	8.01	8.86	8.02	8.34	8.95	9.40	9.13	8.92	8.40	8.05	7.55
19	8.58	8.00	8.81	8.00	8.37	8.95	9.41	9.10	8.87	8.39	8.04	7.50
20	8.55	8.00	8.75	7.97	8.40	8.93	9.52	9.10	8.88	8.36	8.17	7.48
21	8.62	7.99	8.70	7.97	8.42	8.96	9.54	9.10	8.89	8.33	8.17	7.40
22	8.60	7.98	8.63	7.95	8.44	8.97	9.53	9.12	8.87	8.33	8.16	7.23
23	8.60	7.99	8.55	7.91	8.44	8.98	9.51	9.14	8.83	8.29	8.12	7.02
24	8.60	8.01	8.50	7.87	8.41	8.99	9.47	9.15	8.84	8.27	8.11	6.88
25	8.65	8.11	8.45	7.84	8.40	9.01	9.45	9.14	8.83	8.25	8.15	6.68
26	8.64	8.10	8.39	7.75	8.42	9.03	9.45	9.12	8.79	8.24	8.20	6.50
27	8.61	8.10	8.41	7.75	8.55	9.05	9.42	9.10	8.76	8.21	8.20	6.32
28	8.62	8.09	8.36	7.70	8.56	9.16	9.47	9.09	8.76	8.35	8.18	6.10
29	8.60	8.09	8.31	7.67	-	9.19	9.46	9.08	8.76	8.35	8.15	5.98
30	8.55	8.06	8.25	7.67	-	9.20	9.42	9.08	8.74	8.33	8.13	5.88
31	8.50	-	8.20	7.75	-	9.24	-	9.06	-	8.33	8.10	-

Lake Hopatcong at Landing--Continued

Daily gage height, in feet, 1887-1940--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.87	3.65	3.08	2.65	3.04	3.54	6.81	9.38	9.49	9.26	9.01	9.15
2	5.78	3.65	3.08	2.62	3.04	3.56	6.98	9.37	9.65	9.25	8.98	9.36
3	5.65	3.63	3.06	2.62	3.04	3.56	7.10	9.37	9.66	9.24	8.96	9.41
4	5.50	3.60	3.06	2.60	3.02	3.71	7.24	9.40	9.65	9.24	8.92	9.40
5	5.41	3.60	3.02	2.60	3.02	3.75	7.34	9.38	9.61	9.23	8.90	e9.39
6	5.25	3.92	3.00	2.60	3.02	3.79	7.45	9.34	9.57	9.20	8.89	9.36
7	5.08	3.94	2.98	2.58	3.04	3.81	7.53	9.32	9.54	9.19	8.92	9.33
8	4.96	3.92	2.98	2.58	3.06	3.85	7.60	9.30	9.47	9.16	8.92	9.30
9	4.80	3.83	2.92	2.56	3.04	3.88	7.94	9.29	9.41	9.15	8.90	9.27
10	4.70	3.75	2.88	2.56	3.04	3.90	8.11	9.28	9.40	9.12	8.89	9.30
11	4.56	3.71	2.90	2.54	3.10	3.90	8.20	9.26	9.35	9.11	8.86	9.26
12	4.40	3.69	2.85	2.54	3.12	3.90	8.31	9.25	9.34	9.17	8.83	9.25
13	4.26	3.67	2.81	2.58	3.17	3.92	8.56	9.22	9.32	9.17	8.80	9.22
14	4.12	3.63	2.85	2.58	3.21	3.96	8.65	9.21	9.30	9.15	8.88	9.20
15	4.04	3.58	2.81	2.81	3.33	4.35	8.73	9.20	9.26	9.11	8.86	9.15
16	3.96	3.56	2.77	2.92	3.33	4.62	8.81	9.19	9.25	9.11	8.83	9.14
17	3.94	3.54	2.75	2.96	3.33	4.81	8.89	9.30	9.24	9.12	8.82	9.10
18	3.88	3.50	2.73	3.00	3.33	4.92	8.98	9.30	9.20	9.11	8.83	9.08
19	3.81	3.50	2.71	3.04	3.33	5.06	9.06	9.29	9.17	9.09	8.81	9.06
20	3.79	3.50	2.73	3.04	3.42	5.23	9.22	9.28	9.20	9.07	8.81	9.05
21	3.75	3.46	2.75	3.06	3.46	5.44	9.37	9.40	9.16	9.06	8.80	9.00
22	3.79	3.40	2.75	3.08	3.48	5.60	9.50	9.44	9.15	9.05	8.79	8.98
23	3.75	3.35	2.73	3.08	3.48	5.73	9.53	9.47	9.11	9.01	8.75	8.95
24	3.71	3.33	2.71	3.08	3.50	5.81	9.53	9.46	9.15	8.98	8.75	8.94
25	3.67	3.33	2.67	3.08	3.52	5.90	9.54	9.40	9.18	8.96	8.67	9.02
26	3.65	3.27	2.67	3.08	3.52	5.92	9.53	9.42	9.20	8.95	8.73	9.03
27	3.63	3.23	2.67	3.08	3.52	5.98	9.50	9.40	9.26	9.00	8.73	9.02
28	3.58	3.19	2.65	3.08	3.52	6.06	9.47	9.43	9.25	9.05	8.82	9.00
29	3.60	3.15	2.65	3.08	3.54	6.17	9.42	9.45	9.30	9.05	8.85	8.99
30	3.56	3.10	2.67	3.06	-	6.23	9.40	9.44	9.27	9.05	8.87	8.96
31	3.63	-	2.65	3.06	-	6.56	-	9.49	-	9.05	8.85	-

Musconetcong River at outlet of Lake Hopatcong

Location.- Water-stage recorder and concrete control, lat. 40°55'00", long. 74°39'55", at highway bridge 300 feet downstream from Lake Hopatcong Dam in Landing, Morris County. Datum of gage is 904.99 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 25.6 square miles.

Records available.- July 1928 to September 1940.

Average discharge.- 12 years, 43.4 second-feet (adjusted for storage).

Extremes.- 1928-40: Maximum discharge, 534 second-feet Mar. 19, 1936 (gage height, 3.17 feet), from rating curve extended above 340 second-feet on basis of computation of flow over Lake Hopatcong Dam; minimum daily, 0.1 second-foot (regulated) many days during March 1940.

Remarks.- Flow regulated by Lake Hopatcong which has a capacity of about 800,000,000 cubic feet above sill of lowest gate.

Cooperation.- Water-stage recorder operated by employee of Morris Canal & Banking Co.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	112	37	31	29	29	30	12.0	12.0	12.0	12.0	12.0	11.6
2	179	33	31	29	30	30	11.6	12.0	12.0	12.0	12.5	12.0
3	216	31	31	29	30	31	11.6	12.0	12.0	12.0	12.9	24
4	216	36	31	29	30	31	11.6	12.0	12.0	12.0	12.9	29
5	216	47	31	30	30	31	11.6	12.0	12.5	12.0	12.5	29
6	216	48	31	30	30	31	11.6	12.0	12.5	12.5	12.0	30
7	216	41	54	30	29	31	12.0	12.0	12.0	12.5	12.0	29
8	216	30	71	30	29	31	11.6	12.0	12.0	12.5	12.0	29
9	216	30	71	30	29	31	11.6	12.0	12.0	12.0	11.6	29
10	249	30	70	30	29	31	11.6	12.0	12.0	11.6	11.2	29
11	275	30	70	30	29	31	11.6	12.0	12.0	14.4	11.6	29
12	275	30	70	30	29	31	11.6	12.0	11.6	29	11.6	29
13	278	30	70	30	29	31	11.6	12.0	12.0	69	11.6	29
14	278	30	70	30	29	31	11.6	12.0	12.0	73	11.6	29
15	275	30	70	30	30	31	11.6	11.6	12.0	84	11.6	29
16	275	30	43	30	30	16.0	11.6	11.6	12.0	79	11.6	29
17	272	30	29	30	30	11.6	11.6	12.0	12.0	72	11.6	29
18	272	30	29	30	30	11.6	11.2	11.6	12.5	64	11.6	29
19	270	30	29	30	30	11.6	11.6	11.6	12.5	60	12.0	29
20	275	30	29	30	30	11.6	12.0	12.0	12.5	59	12.0	29
21	275	30	29	30	30	11.6	12.0	12.0	12.5	56	11.6	30
22	275	30	29	30	30	11.6	11.6	12.0	12.0	51	12.0	29
23	270	29	29	30	30	11.6	11.2	12.0	12.0	40	11.6	30
24	270	30	29	30	30	11.6	11.2	12.0	12.0	51	11.6	30
25	270	30	29	30	29	11.6	11.6	12.5	12.0	56	11.6	30
26	270	30	29	30	29	11.6	11.6	12.5	12.0	54	11.6	30
27	235	30	29	30	30	11.6	11.6	12.5	12.5	47	11.6	30
28	181	30	29	29	30	11.6	11.6	12.5	12.0	29	12.0	31
29	95	30	29	28	-	11.6	11.6	12.0	12.0	15.1	11.6	31
30	55	30	29	28	-	11.6	12.0	12.0	12.0	12.9	12.0	31
31	31	-	29	28	-	11.6	-	12.0	-	12.0	11.6	-

Musconetcong River at outlet of Lake Hopatcong--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	30	66	94	103	11.6	129	24	12.5	27	12.8	12.0
2	31	30	81	94	103	11.6	105	22	12.0	24	13.0	12.0
3	31	30	112	94	90	11.6	79	27	12.0	21	11.6	12.0
4	31	29	119	96	82	11.6	70	48	12.0	19.2	12.0	12.0
5	31	30	a116	96	82	11.6	60	47	12.5	18.8	12.5	12.0
6	30	30	a114	96	75	11.6	124	42	12.0	17.3	12.0	12.0
7	30	29	a113	101	61	11.6	181	40	12.5	15.1	12.0	12.0
8	30	30	114	105	56	11.6	181	41	12.5	13.3	12.0	25
9	30	30	114	105	56	11.6	184	41	12.0	13.3	12.0	30
10	30	30	114	105	55	12.0	196	36	11.2	13.3	12.0	30
11	30	30	116	103	55	12.0	188	29	12.0	13.7	12.0	30
12	30	30	116	103	48	12.9	174	28	12.0	13.7	11.6	30
13	30	30	116	103	41	21	166	28	15.1	12.9	11.6	30
14	30	30	114	103	41	59	153	37	16.0	12.5	11.6	30
15	30	29	114	103	41	91	140	28	19.7	12.5	11.6	30
16	30	30	114	103	41	131	129	28	21	12.5	11.6	30
17	30	31	116	103	41	215	114	21	17.3	12.0	12.0	30
18	30	51	116	103	41	362	101	21	24	12.0	12.0	30
19	30	62	116	103	41	496	90	23	37	12.5	12.0	30
20	30	62	116	103	33	496	61	26	37	12.0	12.0	30
21	30	64	116	103	29	496	52	24	76	12.9	12.0	30
22	30	64	116	103	29	434	48	21	71	4.9	12.0	30
23	30	66	116	103	29	376	44	17.3	64	8.8	12.0	30
24	29	66	116	103	28	349	40	17.3	57	11.6	12.0	30
25	30	66	114	103	16.4	320	32	17.3	48	11.6	12.0	30
26	30	66	114	103	12.0	284	31	15.1	41	11.6	12.0	30
27	30	66	105	105	11.6	252	27	16.4	37	11.6	12.0	30
28	30	66	101	105	11.6	252	25	16.4	36	12.0	12.0	30
29	30	66	103	105	11.6	224	24	13.7	29	12.0	12.0	47
30	30	66	103	105	-	199	25	13.3	28	12.0	12.0	58
31	30	-	98	105	-	162	-	12.5	-	12.0	12.0	-

a No gage-height record; discharge interpolated.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	29	30	30	12.0	75	53	85	37	26	12.0	13.7
2	61	29	30	30	12.0	71	51	78	34	23	12.0	12.9
3	89	29	30	30	12.0	67	52	71	28	22	11.6	12.9
4	166	29	30	30	12.0	62	48	64	27	19.7	11.6	13.7
5	191	29	30	30	12.0	63	48	58	24	18.3	11.6	18.2
6	219	29	30	30	11.6	61	83	60	26	17.3	11.6	16.7
7	227	30	30	30	11.6	57	101	61	34	16.0	11.6	26
8	224	30	30	30	11.6	54	98	58	28	14.6	11.6	30
9	221	30	30	30	11.6	54	105	53	23	14.6	11.6	30
10	218	30	30	30	11.6	49	103	52	21	14.2	11.6	30
11	228	30	31	30	11.6	47	93	45	24	13.3	12.0	29
12	240	30	31	30	11.6	43	86	37	19.2	12.9	12.0	30
13	214	30	31	30	11.6	41	76	45	17.3	12.9	11.6	31
14	230	30	31	30	11.6	41	71	103	17.8	12.5	12.0	30
15	224	30	31	31	11.6	50	72	194	19.2	12.5	11.6	29
16	221	30	31	31	11.6	61	76	218	17.8	12.5	12.0	29
17	218	29	31	31	11.6	55	67	210	16.0	12.5	12.0	30
18	216	30	31	31	11.6	50	61	196	15.1	12.9	12.0	30
19	181	30	31	31	11.6	46	62	178	17.3	12.5	11.6	30
20	178	29	31	31	12.0	47	55	153	15.5	12.5	11.6	30
21	86	29	31	31	12.0	56	68	131	17.5	12.5	11.6	30
22	61	30	31	22	23	57	90	116	43	12.0	12.0	30
23	55	30	31	11.6	52	57	93	108	41	12.0	16.9	30
24	39	30	31	11.6	70	60	90	100	37	12.5	16.0	30
25	30	30	30	11.6	79	68	85	84	32	12.0	15.5	30
26	30	30	30	12.0	85	68	93	72	28	12.9	15.5	30
27	29	30	30	12.0	85	66	94	67	23	12.9	17.9	29
28	30	30	30	12.0	80	64	98	67	22	12.5	17.8	29
29	30	30	30	12.0	-	61	101	57	22	12.5	16.9	29
30	29	30	30	12.0	-	57	93	50	21	12.5	14.6	29
31	28	-	30	12.0	-	55	-	44	-	12.0	14.2	-

Musconetcong River at outlet of Lake Hopatcong--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	30	123	63	85	40	12.0	37	18.3	218	105	9.6
2	30	30	121	63	93	28	12.0	32	15.5	196	101	10.5
3	30	30	121	63	93	28	12.0	30	19.2	133	85	12.5
4	29	30	119	63	93	29	12.0	28	18.8	84	73	12.5
5	29	30	119	63	93	28	12.5	26	18.8	66	67	12.5
6	29	30	119	62	93	28	12.5	25	17.3	57	68	23
7	29	29	119	62	93	28	13.3	22	17.1	49	72	28
8	30	29	119	62	93	28	14.2	19.7	27	41	66	28
9	30	29	118	62	93	19.2	12.5	18.8	24	35	58	29
10	30	29	118	62	93	12.9	12.5	21	23	33	52	29
11	30	29	118	62	93	12.0	12.5	20	20	34	70	29
12	30	29	114	62	91	12.0	13.7	18.8	21	55	62	29
13	30	31	100	62	91	12.0	17.3	16.4	26	53	50	29
14	30	31	91	62	73	12.0	19.7	19.6	28	47	42	29
15	30	31	75	62	66	12.0	23	37	27	43	36	29
16	30	60	64	62	64	12.0	27	44	22	37	32	29
17	30	93	63	62	64	12.0	27	41	19.2	31	28	29
18	16.5	103	63	62	64	11.2	35	38	22	28	27	29
19	18.1	114	63	61	64	11.2	53	35	21	27	22	29
20	30	127	63	61	64	11.6	55	33	18.3	47	19.2	30
21	30	127	63	61	64	11.6	60	33	16.0	107	16.0	93
22	31	125	63	62	64	11.6	62	36	15.1	202	13.3	252
23	30	123	63	62	64	11.6	61	31	14.6	252	12.0	270
24	28	123	63	62	64	11.2	54	31	14.6	320	10.8	249
25	28	123	63	62	64	11.6	50	31	13.3	310	10.7	210
26	29	123	63	63	64	11.2	47	30	27	272	11.6	170
27	29	121	63	63	56	11.6	42	36	99	233	12.0	142
28	29	123	63	64	50	12.0	42	34	191	188	12.5	121
29	29	123	63	64	-	12.0	41	34	224	162	11.2	108
30	30	123	63	64	-	11.6	37	27	240	155	11.6	94
31	30	-	63	72	-	11.6	-	22	-	127	12.0	-

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100	56	30	93	61	91	76	90	15.5	12.5	12.5	12.5
2	96	56	30	93	61	91	105	80	13.7	12.0	12.5	12.0
3	85	56	30	93	61	91	106	77	12.9	12.0	12.5	12.0
4	72	56	30	78	62	93	106	62	12.5	12.5	12.5	12.0
5	66	56	30	64	62	93	101	55	12.0	12.5	12.5	27
6	66	56	31	66	62	93	118	51	12.9	12.0	12.0	31
7	64	63	31	66	62	93	150	48	12.5	12.0	12.0	31
8	61	66	31	66	62	93	148	44	12.9	12.0	12.0	31
9	61	67	87	66	62	93	142	44	12.5	12.0	12.0	31
10	60	67	110	66	62	93	133	48	19.6	12.0	12.5	31
11	60	67	112	66	62	93	116	44	19.4	12.0	12.5	31
12	60	67	129	66	62	94	119	41	14.6	12.0	12.5	31
13	58	60	133	66	67	93	118	34	14.2	12.0	12.5	31
14	60	56	127	66	73	93	110	32	13.7	12.0	12.5	31
15	58	62	125	66	75	93	106	31	13.3	12.5	12.5	31
16	58	67	125	66	76	76	96	27	12.9	12.5	12.5	31
17	58	67	125	66	75	64	78	24	12.9	12.0	12.5	31
18	58	60	125	64	75	63	93	23	13.3	12.0	12.9	31
19	57	55	125	64	75	63	109	20	12.9	12.0	13.3	31
20	57	52	123	64	78	42	140	20	12.5	12.5	12.5	70
21	57	36	123	64	78	32	142	19.7	12.5	12.5	12.5	187
22	56	30	123	64	78	32	140	24	12.5	11.6	12.5	218
23	56	30	123	63	78	32	129	26	12.0	12.5	12.5	236
24	56	30	119	63	78	32	119	27	12.0	12.5	12.9	246
25	56	30	119	63	78	34	110	24	12.0	12.5	12.5	243
26	56	30	119	61	78	35	108	22	12.0	12.5	12.5	243
27	56	30	119	61	85	39	100	19.7	12.0	13.3	12.5	240
28	56	30	119	60	91	56	119	18.3	12.0	13.3	12.0	204
29	56	30	103	58	-	60	106	18.3	12.5	12.9	12.0	181
30	56	30	94	60	-	67	94	16.4	12.5	12.5	12.0	174
31	56	-	93	61	-	72	-	15.1	-	12.5	12.7	-

Musconetcong River at outlet of Lake Hopatcong--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	171	30	30	12.0	12.0	12.0	12.0	78	135	40	14.2	36
2	171	30	30	12.0	12.0	12.0	12.0	78	188	35	13.7	84
3	171	30	30	12.0	12.0	12.0	12.0	76	188	31	12.5	96
4	171	30	30	12.0	12.0	3.6	12.0	88	178	35	12.5	96
5	169	30	30	12.0	12.0	.1	11.2	80	157	31	12.5	88
6	166	31	30	12.0	12.0	.1	9.2	71	144	27	12.5	75
7	162	31	30	12.0	12.0	.1	9.2	67	118	24	12.9	62
8	160	31	30	12.0	12.0	8.0	9.2	60	98	21	12.9	52
9	155	31	30	12.0	12.0	12.0	9.2	58	90	18.8	12.5	55
10	153	31	30	12.0	12.5	12.0	8.8	53	85	18.3	12.0	51
11	153	31	30	12.0	12.5	12.0	8.8	49	71	19.2	12.0	45
12	150	31	30	12.0	12.5	12.5	8.4	48	63	28	12.0	39
13	146	31	30	12.0	12.5	12.9	8.8	40	56	27	12.0	33
14	138	31	30	12.5	12.0	8.7	10.4	39	50	22	12.0	30
15	100	31	30	12.9	12.0	.4	11.2	37	44	18.8	12.0	28
16	51	31	30	12.5	12.0	.1	11.6	41	46	17.3	12.0	28
17	31	31	30	12.5	12.0	.1	12.0	57	36	17.8	12.0	29
18	30	30	30	12.5	12.0	.1	11.2	56	29	16.4	12.5	29
19	30	30	30	12.5	12.0	.1	14.7	55	28	15.1	12.5	28
20	30	30	30	12.5	12.0	.1	52	59	27	14.6	12.5	28
21	30	30	30	12.5	12.0	.1	75	93	22	14.2	12.5	30
22	30	30	30	12.5	12.0	.1	114	101	18.3	12.9	13.5	31
23	30	30	30	12.5	12.0	.1	133	106	16.4	12.5	13.7	31
24	30	30	30	12.0	12.0	.1	135	100	22	12.0	12.5	31
25	30	30	20	12.0	12.0	8.0	131	96	24	12.0	12.5	33
26	30	30	12.9	12.0	12.0	12.0	125	90	36	12.5	12.5	33
27	30	30	12.0	12.0	12.0	12.0	114	84	42	13.7	12.5	31
28	30	30	12.0	12.0	12.0	11.6	105	100	41	17.3	14.2	31
29	30	30	12.0	12.0	12.0	12.0	93	103	48	17.3	12.9	30
30	30	30	12.0	12.0	-	12.0	84	96	42	16.4	12.5	31
31	30	-	12.0	12.0	-	12.0	-	119	-	16.0	12.5	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	7 024	278	31	227	80.8	3.16	3.64
November	962	48	29	32.1	35.6	1.39	1.55
December	1 280	71	29	41.3	65.7	2.57	2.96
Calendar year 1934	19 158.4	278	11.2	52.5	47.7	1.86	25.32
January 1935	919	30	28	29.6	50.4	1.97	2.27
February	829	30	29	29.6	35.7	1.39	1.45
March	653.0	31	11.6	21.1	73.4	2.87	3.31
April	348.8	12.0	11.2	11.6	33.6	1.31	1.46
May	372.4	12.5	11.6	12.0	5.67	.221	.25
June	363.1	12.5	11.6	12.1	12.5	.488	.54
July	1 148.5	84	11.6	37.0	91.5	3.57	4.12
August	367.2	12.9	11.2	11.8	-2.52	-.098	-.11
September	843.6	31	11.6	28.1	17.7	.691	.77
Water year 1934-35	15 110.6	278	11.2	41.4	41.9	1.64	22.21
October 1935	934	31	29	30.1	22.8	.891	1.03
November	1 339	66	29	44.6	82.0	3.20	3.57
December	3 419	119	66	110	43.7	1.71	1.97
Calendar year 1935	11 536.6	119	11.2	31.6	38.9	1.52	20.63
January 1936	3 159	105	94	102	90.0	3.52	4.06
February	1 364.2	103	11.6	47.0	30.6	1.20	1.29
March	5 360.3	496	11.6	173	277	10.82	12.47
April	2 973	196	24	99.1	92.0	3.59	4.00
May	821.3	48	12.5	26.5	23.3	.910	1.05
June	819.3	76	11.2	27.3	31.9	1.25	1.40
July	429.6	27	4.9	13.9	-5.01	-.196	-.23
August	371.9	13.0	11.6	12.0	6.95	.271	.31
September	814.0	58	12.0	27.1	-2.25	-.088	-.10
Water year 1935-36	21 804.6	496	4.9	59.6	57.9	2.26	30.82

*Adjusted for change in contents in Lake Hopatcong. Negative figures indicate that evaporation and seepage from Lake exceeded the inflow.

Musconetcong River at Outlet of Lake Hopatcong--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	4 273	240	28	138	29.6	1.16	1.34
November	891	30	29	29.7	8.90	.348	.39
December	944	31	30	30.5	89.0	3.48	4.01
Calendar year 1936	22 220.6	496	4.9	60.7	56.3	2.20	29.97
January 1937	765.8	31	11.6	24.7	111	4.34	5.00
February	720.4	85	11.6	25.7	74.9	2.93	3.05
March	1 763	75	41	56.9	53.2	2.08	2.40
April	2 366	105	48	78.9	82.2	3.21	3.58
May	2 915	218	37	94.0	90.0	3.52	4.06
June	747.7	43	15.1	24.9	19.5	.762	.85
July	449.0	26	12.0	14.5	2.24	.088	.10
August	404.1	17.9	11.6	13.0	20.4	.797	.92
September	798.1	31	12.9	26.6	5.72	.223	.25
Water year 1936-37	17 037.1	240	11.6	46.7	48.9	1.91	25.95
October 1937	893.6	30	16.5	28.8	21.1	.824	.95
November	2 178	127	29	72.6	87.4	3.41	3.80
December	2 703	123	63	87.2	53.4	2.09	2.41
Calendar year 1937	16 703.7	218	11.6	45.8	51.6	2.02	27.37
January 1938	1 942	72	61	62.6	79.0	3.09	3.56
February	2 146	93	50	76.6	67.2	2.62	2.73
March	514.7	40	11.2	16.6	43.8	1.71	1.97
April	904.7	62	12.0	30.2	50.5	1.97	2.20
May	907.3	44	16.4	29.3	27.3	1.07	1.23
June	1 278.1	240	13.3	42.6	62.6	2.45	2.73
July	3 642	320	27	117	114	4.45	5.13
August	1 268.9	105	10.7	40.9	18.0	.703	.81
September	2 194.6	270	9.6	73.2	87.3	3.41	3.80
Water year 1937-38	20 572.9	320	9.6	56.4	59.1	2.31	31.32
October 1938	1 932	100	56	62.3	29.7	1.16	1.34
November	1 518	67	30	50.6	37.4	1.46	1.63
December	2 943	133	30	94.9	95.7	3.74	4.31
Calendar year 1938	21 191.3	320	9.6	58.1	59.3	2.32	31.44
January 1939	2 083	93	58	67.2	51.3	2.00	2.31
February	1 979	91	61	70.7	112	4.38	4.56
March	2 189	94	32	70.6	91.6	3.58	4.13
April	3 437	150	76	115	121	4.73	5.28
May	1 125.5	90	15.1	36.3	21.8	.852	.98
June	398.7	19.6	12.0	13.3	5.59	.218	.24
July	381.6	13.3	11.6	12.3	-8.64	-.338	-.39
August	385.8	13.3	12.0	12.4	3.52	.138	.16
September	2 751.5	246	12.0	91.7	9.36	.366	.41
Water year 1938-39	21 124.1	246	11.6	57.9	47.0	1.84	24.96
October 1939	2 838	171	30	91.5	20.3	.793	.91
November	912	31	30	30.4	14.8	.578	.64
December	812.9	30	12.0	26.2	14.7	.574	.66
Calendar year 1939	19 294.0	246	11.6	52.9	37.5	1.46	19.89
January 1940	377.4	12.9	12.0	12.2	22.6	.883	1.02
February	350.0	12.5	12.0	12.1	26.8	1.05	1.13
March	198.9	12.9	.1	6.42	110	4.30	4.96
April	1 362.9	135	8.4	45.4	149	5.82	6.49
May	2 278	119	37	73.5	77.9	3.04	3.50
June	2 142.7	188	16.4	71.4	61.8	2.41	2.69
July	634.1	40	12.0	20.5	11.6	.453	.52
August	391.5	14.2	12.0	12.6	12.6	.492	.57
September	1 324	96	28	44.1	40.1	1.57	1.75
Water year 1939-40	13 622.4	188	.1	37.2	46.8	1.83	24.85

*Adjusted for change in contents in Lake Hopatcong. Negative figures indicate that evaporation and seepage from the Lake exceeded the inflow.

Musconetcong River near Hackettstown

Location.- Water-stage recorder above Saxton Falls Dam, lat. 40°53'10", long. 74°48'00", half a mile upstream from Delaware, Lackawanna & Western Railroad Bridge and 3 miles northeast of Hackettstown, Warren County. Datum of gage is 630.93 feet above mean sea level (New Jersey Geological Survey datum). Prior to July 20, 1938, water-stage recorder was at site 2,000 feet downstream; datum of gage was 603.96 feet above mean sea level.

Drainage area.- 70.0 square miles for both sites.

Records available.- September 1921 to September 1940.

Average discharge.- 19 years, 115 second-feet (adjusted for storage).

Extremes.- 1921-40: Maximum discharge, 1,430 second-feet Mar. 12, 1936 (gage height, 5.88 feet, from floodmarks, site and datum then in use), from rating curve extended above 1,000 second-feet; minimum, about 2 second-feet (regulated) July 8, 1927 (gage height, 1.02 feet, site and datum then in use).

Peak gage height and discharge during period of this report.-
1935: July 10 (6 a.m.) 5.55 ft., 1,290 sec.-ft.
1936: Mar. 12, 5.88 ft. from floodmark, 1,430 sec.-ft.; Mar. 21-22 (8 p.m. to 4 a.m.) 4.85 ft., 923 sec.-ft.; Apr. 6-7 (11 p.m. to 4 a.m.) 4.54 ft., 784 sec.-ft.
1937: May 15 (4 to 8 p.m.) 4.12 ft., 530 sec.-ft.
1938: June 28 (6 p.m.) 4.14 ft., 613 sec.-ft.; July 24 (8 to 12 a.m.) 2.62 ft., 924 sec.-ft.; Sept. 22 (5 to 7 a.m.) 2.96 ft., 1,260 sec.-ft.; Dec. 6 (8 to 12 p.m.) 2.29 ft., 642 sec.-ft.
1940: Mar. 15 (1 to 2 p.m.) 2.25 ft., 611 sec.-ft.; May 21 (2 to 4 p.m.) 2.23 ft., 596 sec.-ft.

Remarks.- Flow regulated by Lake Hopatcong.

Cooperation.- Water-stage recorder operated by employee of Morris Canal & Banking Co.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	276	76	254	118	b80	133	106	58	22	40	53	30
2	222	90	290	121	b80	128	99	56	21	33	52	30
3	211	89	271	111	89	142	110	54	20	28	58	36
4	224	102	257	99	83	150	87	53	21	25	57	90
5	234	148	229	85	b76	146	83	53	25	25	52	189
6	278	131	193	87	b74	156	83	57	28	23	50	171
7	313	116	173	93	b74	173	80	63	28	23	47	128
8	283	105	177	108	b74	171	80	67	28	76	45	97
9	269	93	165	126	b76	152	99	59	40	520	45	90
10	257	89	156	236	80	144	102	56	47	1 140	44	92
11	278	87	148	243	76	156	94	52	40	761	51	80
12	276	86	137	206	73	198	94	48	35	486	56	68
13	266	83	135	177	72	229	103	45	29	391	51	63
14	271	83	133	156	77	202	97	45	24	348	48	61
15	271	80	128	133	133	183	96	43	22	296	44	60
16	264	78	114	130	144	165	93	40	21	278	39	56
17	286	77	92	126	162	165	90	37	22	245	34	51
18	271	77	85	123	156	154	85	35	39	195	32	49
19	264	76	119	111	139	137	81	33	58	167	30	51
20	257	74	204	114	126	130	74	32	68	165	30	53
21	271	73	163	118	108	150	72	30	59	162	30	50
22	288	74	144	126	106	165	69	28	52	150	29	50
23	281	74	128	123	103	141	67	26	44	124	28	49
24	276	100	116	b113	100	130	65	26	36	148	28	47
25	271	97	110	a103	102	121	61	25	30	162	28	47
26	271	87	119	a96	148	110	58	24	28	162	28	45
27	271	85	128	a91	167	102	54	27	33	141	27	46
28	234	83	113	a88	146	106	52	23	83	118	28	50
29	185	86	108	a85	-	130	51	22	68	89	27	54
30	126	135	105	a82	-	124	57	23	51	68	28	51
31	97	-	92	a80	-	121	-	23	-	59	31	-

a No gage-height record; discharge computed on basis of records for stations at outlet of Lake Hopatcong and near Bloomsbury.
b Stage-discharge relation affected by ice.

Musconetcong River near Hackettstown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	342	306	b132	b137	b93	a305	94	37	67	15	32
2	54	278	271	162	b132	b88	a290	88	36	62	18	25
3	52	213	248	283	b127	b87	a240	91	41	56	19	25
4	50	183	238	321	b122	b94	a215	164	44	51	19	25
5	40	163	b238	306	b118	b106	a375	143	39	46	17	24
6	39	152	b215	276	b122	b99	a570	131	34	44	18	23
7	42	139	b190	257	b110	a95	a760	120	30	40	19	21
8	38	135	b190	236	b104	a98	a595	113	28	36	18	21
9	37	128	224	243	b103	a104	a500	118	28	35	19	27
10	36	121	224	264	b102	a160	a445	105	27	32	22	37
11	38	116	220	259	b97	a370	437	93	28	33	23	44
12	39	114	213	252	b93	a1 370	402	82	39	44	21	44
13	37	128	218	245	b86	a940	386	81	61	33	19	43
14	36	124	224	243	b87	a720	358	108	102	40	18	42
15	42	116	224	243	b89	a620	332	104	105	37	18	41
16	46	111	234	278	b94	a560	301	89	100	33	21	43
17	40	130	229	264	b103	a530	277	77	75	31	21	43
18	40	152	222	261	b120	a590	259	71	73	31	18	49
19	43	169	218	248	b104	a1 220	227	75	113	40	16	54
20	44	181	213	b225	b93	a1 170	205	90	110	33	16	44
21	45	195	b170	b212	b85	a1 100	168	86	145	30	13	41
22	63	195	b164	b203	b76	a930	166	75	188	25	13	41
23	72	195	b160	b190	b70	a820	154	63	166	20	16	39
24	63	191	b155	b180	b69	a730	141	57	138	17	57	39
25	54	183	b152	b175	b72	a620	126	53	118	12	47	38
26	50	177	b152	b175	b76	a540	113	48	94	13	36	36
27	48	175	b152	b172	b84	a520	107	51	84	11	30	35
28	48	202	b150	b167	b87	a520	99	55	81	11	26	36
29	51	339	b142	b159	b94	a480	97	50	75	9	25	41
30	133	342	b137	b150	-	a400	96	44	67	12	30	71
31	406	-	b134	b143	-	a340	-	39	-	14	33	-

a No gage-height record; discharge computed on basis of stages at Saxton Falls Dam and records for stations at Lake Hopatcong and near Bloomsbury.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	57	69	131	190	177	129	190	83	82	42	34
2	72	58	74	129	167	165	128	171	72	81	39	30
3	76	58	83	141	167	157	135	155	64	70	36	25
4	128	64	79	139	124	155	133	145	62	62	36	23
5	185	75	72	129	118	159	129	137	60	56	37	48
6	190	72	74	124	113	149	211	143	60	54	35	53
7	209	68	109	131	104	139	265	147	81	51	31	39
8	222	68	100	143	97	129	232	135	84	50	30	34
9	218	72	92	139	100	131	216	122	72	51	28	37
10	218	68	88	143	104	124	218	118	61	39	25	36
11	216	67	95	149	95	114	194	111	60	38	31	36
12	213	65	129	141	89	107	181	90	58	23	60	34
13	218	65	113	141	85	105	163	86	52	25	60	42
14	220	64	104	133	89	100	149	234	54	22	53	58
15	218	65	97	169	88	109	153	477	58	30	46	52
16	216	64	89	179	85	128	157	494	54	36	39	45
17	245	62	113	169	80	124	149	428	48	36	32	42
18	255	61	109	198	78	118	131	384	47	30	27	40
19	236	63	113	198	76	113	129	338	47	25	28	39
20	227	63	260	185	75	120	118	307	48	22	30	38
21	198	64	297	183	78	159	126	257	50	21	32	42
22	90	63	253	207	211	196	207	232	131	21	42	40
23	74	63	157	243	225	196	216	216	167	21	124	38
24	76	64	167	245	222	192	194	198	126	22	122	37
25	70	68	151	284	227	198	173	179	86	22	81	37
26	64	70	135	302	229	200	165	159	68	26	64	38
27	63	69	126	272	218	190	185	143	60	44	59	37
28	60	70	120	241	200	179	211	145	58	52	60	48
29	61	72	95	220	-	167	213	137	64	44	57	53
30	61	71	93	183	-	157	205	114	65	39	50	48
31	59	-	111	173	-	151	-	95	-	44	42	-

Musconetcong River near Hackettstown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	85	220	122	226	b80	99	98	84	398	259	51
2	43	86	203	122	197	102	96	92	60	349	248	51
3	43	85	194	124	175	90	88	84	57	301	216	42
4	43	82	180	119	180	b65	81	80	58	218	166	40
5	50	76	175	115	178	85	77	71	62	161	152	37
6	62	68	186	112	178	96	75	66	66	134	181	35
7	58	64	194	135	223	96	89	60	62	116	227	37
8	52	64	186	155	220	119	99	56	82	104	190	54
9	52	63	188	143	214	90	135	54	85	92	166	60
10	54	62	180	133	214	71	161	61	88	85	143	57
11	55	62	186	133	194	60	159	70	86	93	166	54
12	54	62	175	131	173	58	144	65	85	150	176	54
13	54	229	155	131	178	60	124	58	100	152	152	60
14	51	303	128	128	183	92	117	54	117	139	135	60
15	49	277	112	122	160	131	112	128	105	130	114	69
16	47	262	98	110	143	124	110	173	102	112	103	69
17	44	234	108	106	131	128	105	148	89	93	92	60
18	43	226	173	108	124	138	112	120	86	78	82	60
19	59	220	197	106	135	124	171	104	86	75	79	75
20	89	214	180	100	167	115	163	91	78	121	72	265
21	84	220	170	96	160	104	169	86	65	319	66	504
22	72	208	157	100	152	104	167	86	58	682	60	1 160
23	120	200	147	102	150	108	161	86	58	723	54	1 050
24	143	197	140	110	157	104	144	84	62	878	48	604
25	109	197	138	388	150	100	137	89	66	731	45	472
26	97	197	135	378	135	98	130	85	72	581	42	379
27	90	205	133	280	128	98	124	104	254	500	42	288
28	93	217	128	281	100	96	117	102	523	431	40	254
29	95	234	124	231	-	92	111	92	531	342	37	227
30	89	226	119	208	-	89	102	78	439	379	37	211
31	85	-	117	220	-	93	-	77	-	323	37	-

b Stage discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	181	135	103	161	171	411	221	232	48	60	37	35
2	181	127	99	157	166	366	299	206	45	51	32	32
3	157	122	85	157	213	323	323	190	42	48	30	32
4	139	118	139	157	299	277	288	171	40	42	30	35
5	131	122	219	139	265	271	265	152	40	35	32	40
6	131	122	558	185	248	288	282	143	37	35	32	48
7	152	135	581	195	243	282	459	131	37	35	28	57
8	135	143	459	185	216	248	405	127	37	35	28	63
9	122	157	379	176	206	237	323	122	37	35	28	60
10	118	152	373	171	181	227	299	131	40	35	28	60
11	114	147	342	166	206	216	271	127	51	c32	28	57
12	110	147	305	161	206	221	288	110	51	28	25	54
13	107	131	299	157	200	232	265	99	47	28	30	51
14	107	122	282	157	216	216	248	96	114	28	35	45
15	107	122	259	152	259	216	237	92	85	28	30	42
16	110	122	237	147	348	265	221	85	60	28	25	42
17	110	127	237	139	317	265	216	79	51	28	25	45
18	107	135	232	135	311	221	277	75	72	30	23	51
19	107	147	216	127	277	200	305	69	63	32	26	45
20	114	157	211	122	265	185	486	63	c57	28	63	48
21	171	139	206	122	259	157	418	66	c54	28	54	119
22	157	103	185	122	243	147	354	89	54	28	37	195
23	152	92	185	110	221	143	323	96	48	28	30	200
24	171	92	185	118	185	139	294	89	45	25	42	211
25	185	89	181	114	185	139	265	82	c40	23	122	216
26	171	99	176	103	216	139	254	72	c40	25	79	221
27	166	107	232	107	277	139	248	66	40	35	48	227
28	161	107	248	103	305	200	323	60	37	51	37	221
29	152	99	216	99	-	227	299	57	37	51	35	181
30	152	99	185	139	-	216	254	54	45	45	35	195
31	143	-	171	181	-	237	-	48	-	42	35	-

c Backwater from grass on dam; discharge computed on basis of recorder graph and recorded drop in gage height when dam was cleaned.

Musconetcong River near Hackettstown--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	232	110	54	40	30	48	366	185	342	107	42	346
2	206	89	60	40	30	48	294	181	459	92	37	348
3	200	75	63	40	30	51	237	181	431	82	32	277
4	190	66	66	37	32	75	232	211	385	85	32	232
5	185	86	63	35	32	82	221	206	335	85	30	195
6	181	200	63	35	32	82	185	181	282	75	32	161
7	176	161	60	32	37	79	161	157	248	69	40	135
8	171	122	60	b31	37	72	176	143	216	63	40	114
9	171	114	57	b31	37	69	399	135	195	57	37	118
10	166	96	60	b30	40	66	354	131	195	51	35	118
11	161	85	69	b30	66	66	282	122	181	57	35	110
12	157	82	60	b30	57	69	271	127	161	82	35	99
13	157	79	63	32	54	66	348	110	143	92	40	89
14	152	75	63	42	54	72	299	103	131	82	45	82
15	143	75	63	143	51	495	248	99	118	66	37	79
16	92	69	63	147	57	445	232	99	118	60	32	75
17	60	72	63	114	54	317	211	152	110	54	35	72
18	51	69	66	85	48	271	200	161	96	51	40	72
19	51	57	66	66	54	271	195	143	89	48	48	69
20	51	57	75	60	69	311	265	165	82	42	48	69
21	45	57	92	b56	66	335	411	537	72	42	37	72
22	57	57	89	b50	63	237	465	472	66	45	32	72
23	54	57	79	b47	54	185	438	399	60	40	32	72
24	51	57	75	b45	48	185	392	342	66	37	32	69
25	48	57	69	b42	45	161	348	282	82	35	32	105
26	51	54	48	b40	45	147	294	259	103	40	45	166
27	51	51	37	b38	51	143	265	237	135	51	51	110
28	54	54	40	37	51	143	237	282	118	66	82	92
29	54	51	42	35	48	143	216	311	127	60	107	85
30	54	51	40	35	-	152	195	259	118	57	82	75
31	75	-	40	32	-	335	-	299	-	54	81	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	7 842	313	97	253	107	1.53	1.76
November	2 734	148	73	91.1	94.7	1.35	1.51
December	4 786	290	85	154	179	2.56	2.95
Calendar year 1934	44 841	340	15	123	118	1.68	22.90
January 1935	3 808	243	80	123	144	2.06	2.38
February	2 924	167	72	104	110	1.57	1.64
March	4 614	229	102	149	201	2.87	3.31
April	2 442	110	51	81.4	103	1.47	1.64
May	1 263	67	22	40.7	34.4	.491	.56
June	1 122	83	20	37.4	37.8	.540	.60
July	6 648	1 140	23	214	269	3.84	4.43
August	1 230	58	27	39.7	25.3	.361	.42
September	2 034	189	30	67.8	57.4	.820	.92
Water year 1934-35	41 447	1 140	20	114	114	1.63	22.12
October 1935	1 875	406	36	60.5	53.1	.759	.88
November	5 389	342	111	180	217	3.10	3.46
December	6 227	306	134	201	134	1.91	2.20
Calendar year 1935	39 576	1 140	20	108	116	1.66	22.44
January 1936	6 924	321	132	223	211	3.01	3.47
February	2 856	137	69	98.5	82.0	1.17	1.26
March	16 114	1 370	87	520	623	8.90	10.26
April	8 746	760	96	292	284	4.06	4.53
May	2 658	164	39	85.7	82.5	1.18	1.36
June	2 306	188	27	76.9	81.4	1.16	1.29
July	998	67	9	32.2	13.3	.190	.22
August	701	57	13	22.6	17.6	.251	.29
September	1 124	71	21	37.5	8.09	.116	.13
Water year 1935-36	55 918	1 370	9	153	151	2.16	29.35

* Adjusted for change in contents in Lake Hopatcong.

Musconetcong River near Hackettstown--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	4 728	255	59	153	44.3	0.633	0.73
November	1 973	75	57	65.8	45.0	.643	.72
December	3 767	297	69	122	180	2.57	2.96
Calendar year 1936	52 895	1 370	9	145	140	2.00	27.22
January 1937	5 564	302	124	179	266	3.80	4.38
February	3 734	229	75	133	183	2.61	2.72
March	4 608	200	100	149	145	2.07	2.39
April	5 215	265	118	174	177	2.53	2.82
May	6 287	494	86	203	199	2.84	3.27
June	2 100	167	47	70.0	64.6	.923	1.03
July	1 239	82	21	40.0	27.7	.396	.46
August	1 478	124	25	47.7	55.1	.787	.91
September	1 203	58	23	40.1	19.2	.274	.31
Water year 1936-37	41 896	494	21	115	117	1.67	22.70
October 1937	2 122	143	43	68.5	60.7	.867	1.00
November	4 925	303	62	164	179	2.56	2.86
December	4 926	220	98	159	125	1.79	2.06
Calendar year 1937	43 401	494	21	119	125	1.79	24.21
January 1938	4 849	388	96	156	173	2.47	2.85
February	4 725	226	100	169	159	2.27	2.36
March	3 010	138	58	97.1	124	1.77	2.04
April	3 679	171	75	123	143	2.04	2.28
May	2 702	173	54	87.2	85.1	1.22	1.41
June	3 766	531	57	126	146	2.09	2.33
July	8 990	878	75	290	286	4.09	4.72
August	3 627	259	37	117	94.1	1.34	1.54
September	6 439	1 160	35	215	229	3.27	3.65
Water year 1937-38	53 760	1 160	35	147	150	2.14	29.10
October 1938	4 321	185	107	139	107	1.53	1.76
November	3 716	157	89	124	111	1.59	1.77
December	7 785	581	85	251	252	3.60	4.15
Calendar year 1938	57 609	1 160	35	158	159	2.27	30.86
January 1939	4 464	195	99	144	128	1.83	2.11
February	6 704	348	166	239	281	4.01	4.18
March	7 050	411	139	227	248	3.54	4.08
April	9 010	486	216	300	307	4.39	4.90
May	3 279	232	48	106	91.3	1.30	1.50
June	1 494	114	37	49.8	42.1	.601	.67
July	1 082	60	23	34.9	14.0	.200	.23
August	1 169	122	23	37.7	28.8	.411	.47
September	2 928	227	32	97.6	15.2	.217	.24
Water year 1938-39	53 002	581	23	145	134	1.91	26.06
October 1939	3 547	232	45	114	43.1	.616	.71
November	2 385	200	51	79.5	63.9	.913	1.02
December	1 908	92	37	61.5	50.0	.714	.82
Calendar year 1939	45 020	486	23	123	108	1.54	20.93
January 1940	1 557	147	30	50.2	60.6	.866	1.00
February	1 372	69	30	47.3	62.1	.887	.96
March	5 221	495	48	168	272	3.89	4.48
April	8 437	465	161	281	385	5.50	6.14
May	6 671	537	99	215	220	3.14	3.62
June	5 264	459	60	175	166	2.37	2.64
July	1 927	107	35	62.2	53.3	.761	.88
August	1 365	107	30	44.0	44.0	.629	.73
September	3 778	348	69	126	122	1.74	1.94
Water year 1939-40	43 432	537	30	119	128	1.83	24.94

* Adjusted for change in contents in Lake Hopatcong.

Musconetcong River near Bloomsbury

Location.- Water-stage recorder and concrete control, lat. 40°40'20", long. 75°03'40", at highway bridge 1½ miles upstream from Bloomsbury, Hunterdon County, and 9½ miles (revised) upstream from mouth. Datum of gage is 274.83 feet above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 143 square miles.

Records available.- July 1903 to March 1907 and July 1921 to September 1940.

Average discharge.- 19 years (1921-40), 222 second-feet (adjusted for storage).

Extremes.- 1921-40: Maximum discharge, 3,650 second-feet Mar. 15, 1940 (gage height, 7.55 feet), from rating curve extended above 1,700 second-feet; minimum, 13 second-feet (regulated) Aug. 26, 1932; minimum daily, 38 second-feet July 24, 1932.
Maximum stage known, 8.0 feet original datum, Oct. 10 or 11, 1903.

Peak gage height and discharge during period of this report.-
1935: Feb. 15 (1 a.m.) 4.30 ft., 1,410 sec.-ft.; July 10 (4:30 p.m.) 4.50 ft., 1,530 sec.-ft.
1936: Jan. 3 (noon) 5.35 ft., 2,080 sec.-ft.; Jan. 9 (6 p.m.) 3.85 ft., 1,180 sec.-ft.; Mar. 11 (11:30 to 12 p.m.) 5.67 ft., 2,270 sec.-ft.; Mar. 21 (1 to 2 p.m.) 4.80 ft., 1,710 sec.-ft.; Apr. 6 (9 a.m.) 4.48 ft., 1,530 sec.-ft.; June 18 (8 a.m.) 4.20 ft., 1,350 sec.-ft.
1937: Feb. 22 (3:30 a.m.) 3.61 ft., 1,020 sec.-ft.; Aug. 23 (10 a.m.) 3.60 ft., 1,020 sec.-ft.
1938: Jan. 25 (6 a.m.) 3.69 ft., 1,070 sec.-ft.; July 23 (11 to 11:30 p.m.) 5.12 ft., 1,900 sec.-ft.; Sept. 21 (11 to 12 p.m.) 5.14 ft., 1,910 sec.-ft.; Dec. 6 (5 to 6 a.m.) 4.25 ft., 1,350 sec.-ft.
1939: Feb. 28 (8 to 9 p.m.) 3.70 ft., 1,070 sec.-ft.; Apr. 6 (10:30 p.m.) 3.64 ft., 1,040 sec.-ft.
1940: Mar. 4 (7 a.m.) 3.91 ft., 1,180 sec.-ft.; Mar. 15 (4 a.m.) 7.55 ft., 3,650 sec.-ft.; May 20 (6:30 p.m.) 7.44 ft., 3,570 sec.-ft.; Sept. 1 (2 a.m.) 3.64 ft., 1,040 sec.-ft.

Remarks.- Flow regulated by Lake Hopatcong. Diurnal fluctuation caused by small power plants above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	578	183	445	361	171	249	227	149	77	93	144	83
2	402	174	478	264	167	253	210	145	68	91	157	89
3	346	171	420	224	171	276	203	146	82	74	173	102
4	335	223	420	193	171	276	196	137	84	71	141	207
5	338	253	368	196	156	260	190	140	77	74	134	302
6	547	231	316	190	155	276	190	147	82	75	119	282
7	504	210	291	207	155	291	183	157	82	65	127	214
8	435	196	276	220	158	287	183	151	79	138	118	171
9	396	180	257	242	158	264	210	139	104	859	114	162
10	368	167	253	487	171	249	213	138	107	1 350	106	164
11	382	164	238	430	171	276	203	122	100	1 150	105	148
12	384	167	249	350	153	396	188	119	90	788	115	135
13	368	158	234	299	158	411	211	122	82	622	106	124
14	364	158	224	287	313	360	206	120	72	495	103	120
15	373	158	213	234	737	324	208	109	70	402	101	127
16	350	152	207	238	401	312	202	112	69	370	98	118
17	373	145	190	238	538	307	194	104	77	346	80	107
18	364	146	174	231	350	287	183	92	105	282	94	108
19	346	155	263	201	284	264	178	96	133	254	90	106
20	337	146	360	220	260	257	167	100	182	266	94	123
21	342	149	284	249	224	299	162	99	121	232	88	109
22	391	141	249	307	220	307	166	89	115	213	89	94
23	364	146	227	242	207	272	152	84	100	266	88	109
24	355	203	213	174	207	260	154	85	103	300	84	102
25	346	180	203	220	231	246	150	84	86	295	78	101
26	360	171	249	220	364	231	143	80	75	279	83	96
27	355	159	224	196	316	224	137	91	83	230	a82	96
28	324	158	207	193	262	224	138	88	136	200	a81	99
29	287	164	207	190	-	264	144	84	128	185	a80	104
30	224	276	193	203	-	238	152	75	115	162	79	109
31	193	-	190	193	-	231	-	78	-	134	76	-

a No gage-height record; discharge computed on basis of records for station near Hackettstown.

Musconetcong River near Bloomsbury--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	101	643	578	b210	b260	297	600	257	135	166	71	87
2	108	458	510	213	b255	278	600	246	132	147	73	77
3	102	325	438	1 360	250	262	574	249	132	138	79	75
4	104	268	417	620	239	314	482	382	152	133	82	74
5	95	235	373	542	232	385	468	329	136	125	75	67
6	98	217	375	468	235	318	1 130	291	130	123	82	66
7	108	203	342	414	219	278	1 020	280	127	117	80	66
8	101	204	339	369	206	276	923	264	125	112	79	63
9	100	190	354	621	203	350	810	257	125	108	68	73
10	97	180	350	544	b200	646	831	253	122	105	74	75
11	102	172	339	435	b195	1 340	810	238	173	108	73	71
12	96	186	319	412	b195	2 080	746	227	173	113	71	77
13	96	197	318	428	196	1 950	746	220	275	107	96	75
14	101	192	325	398	202	1 350	705	253	227	119	77	86
15	96	172	331	474	208	1 020	643	249	238	108	65	81
16	91	172	372	588	207	900	622	224	213	105	66	79
17	98	228	336	449	224	883	569	207	193	98	71	82
18	90	276	315	428	250	1 470	533	203	391	90	68	82
19	88	278	307	368	b215	1 590	496	200	314	89	68	89
20	92	326	301	b350	b195	1 530	468	220	234	106	63	91
21	98	337	252	b330	b185	1 590	416	203	224	98	66	89
22	98	326	b244	b320	176	1 530	396	190	291	90	68	82
23	117	317	b238	b305	171	1 290	373	171	276	91	64	84
24	119	303	b232	b295	162	1 150	346	167	253	86	141	84
25	103	293	b228	b295	170	1 020	324	167	224	84	106	84
26	93	281	b226	b300	223	900	303	147	204	79	100	76
27	95	273	b228	b295	323	900	291	162	177	90	81	75
28	100	325	b226	b290	335	900	280	156	174	74	87	78
29	103	712	b219	b285	294	788	276	151	170	80	71	86
30	305	664	b212	272	-	726	264	150	163	72	84	90
31	746	-	b210	261	-	664	-	136	-	73	84	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	192	86	97	227	440	329	268	360	200	171	79	112
2	161	90	129	210	360	307	249	333	187	172	76	111
3	135	90	176	268	295	291	253	316	167	150	76	104
4	139	98	132	242	299	284	253	295	171	133	69	93
5	213	131	109	213	276	291	253	287	153	129	70	107
6	227	118	125	207	264	276	420	284	162	119	71	132
7	242	106	297	246	249	264	449	295	225	108	73	128
8	268	106	163	260	242	257	406	284	200	105	62	108
9	257	129	152	246	246	257	391	268	183	109	68	108
10	260	109	146	276	249	242	396	264	152	91	74	105
11	260	103	172	280	224	227	350	249	156	88	70	101
12	257	99	221	257	217	220	324	231	143	102	133	99
13	260	105	183	249	210	220	303	227	138	96	140	109
14	260	92	170	242	227	213	284	469	164	88	109	131
15	260	98	155	346	220	227	295	810	148	155	80	128
16	260	102	149	324	207	242	291	788	144	146	79	119
17	337	93	214	307	193	242	280	705	128	131	69	108
18	337	93	180	435	187	238	264	643	132	102	75	107
19	303	87	165	373	180	234	264	569	122	102	82	94
20	276	98	637	346	177	253	249	510	121	93	146	105
21	272	91	519	355	183	416	260	435	160	86	116	99
22	195	93	416	440	702	416	435	382	280	87	106	101
23	124	95	316	533	445	382	440	350	274	82	594	96
24	106	95	268	501	416	364	373	329	237	82	368	104
25	114	98	231	664	396	382	337	299	201	71	246	90
26	109	100	220	622	401	378	316	276	158	100	195	82
27	98	102	207	551	378	346	416	260	142	107	194	97
28	93	93	203	487	346	324	425	253	150	95	164	95
29	90	106	180	449	-	307	401	253	139	90	139	103
30	91	100	164	391	-	291	378	227	147	79	139	106
31	85	-	193	416	-	284	-	210	-	117	129	-

Musconetcong River near Bloomsbury--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	163	331	217	371	209	238	177	142	622	501	161
2	84	165	311	220	331	227	224	177	142	560	473	139
3	90	163	295	227	318	218	210	171	125	468	401	125
4	96	153	278	209	334	190	210	161	116	368	355	116
5	90	150	271	207	301	205	196	152	116	280	316	122
6	108	135	320	202	295	242	193	149	118	242	509	116
7	117	120	326	293	430	227	210	143	119	207	478	112
8	93	130	288	270	360	227	230	142	171	190	396	119
9	95	122	284	238	342	217	364	144	151	171	355	126
10	98	115	276	229	350	193	350	147	128	a170	316	119
11	104	118	b250	227	320	177	320	153	128	a200	342	121
12	102	116	b230	222	291	171	291	148	138	a250	329	131
13	95	480	b210	223	312	177	260	131	162	a240	291	128
14	102	643	b200	217	329	238	242	129	187	a230	268	133
15	89	494	b200	209	287	307	231	264	172	a210	249	139
16	90	445	207	201	260	268	224	282	146	200	227	142
17	87	385	225	204	246	299	217	237	139	177	220	133
18	84	353	396	178	242	312	256	198	226	171	212	127
19	107	345	396	168	257	276	329	183	141	158	196	167
20	204	336	299	192	346	268	295	174	134	368	175	586
21	166	338	276	188	295	260	303	158	118	637	169	1 190
22	132	325	260	193	276	242	287	155	105	900	171	1 530
23	354	305	253	193	287	231	272	161	189	1 240	149	1 200
24	300	292	238	235	307	224	253	164	130	1 440	150	900
25	223	284	249	900	279	217	238	171	108	1 120	137	705
26	190	283	242	705	255	217	231	167	148	923	131	600
27	179	296	234	542	255	217	217	193	465	788	132	515
28	221	373	227	488	236	213	207	177	810	684	125	445
29	195	393	220	399	-	207	196	164	854	622	127	396
30	178	345	217	368	-	207	183	149	726	643	122	373
31	162	-	210	382	-	220	-	146	-	569	122	-

a No gage-height record; discharge computed on basis of records for station near Hackettstown.
b Stage-discharge relation affected by ice.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	337	218	217	307	303	767	464	464	146	122	83	78
2	316	224	210	303	299	684	664	425	139	108	81	58
3	303	217	193	303	604	622	622	391	130	96	76	65
4	276	213	403	295	622	560	560	378	130	98	73	68
5	260	217	563	280	510	578	519	346	133	99	70	68
6	276	217	1 150	440	482	643	657	324	121	94	73	60
7	320	231	923	373	478	574	810	316	119	100	77	70
8	268	231	767	342	435	515	726	307	124	89	71	78
9	246	249	684	329	416	505	643	328	108	86	69	84
10	246	238	684	324	406	482	600	407	107	95	70	81
11	234	234	600	316	524	449	569	316	130	76	69	91
12	224	231	556	303	449	464	600	295	133	80	65	76
13	217	224	528	291	430	505	546	276	125	81	62	78
14	213	220	501	291	440	482	515	272	210	83	83	76
15	207	210	464	280	556	501	492	260	187	71	74	73
16	a200	207	425	280	643	643	464	242	155	68	70	65
17	a190	213	416	268	564	542	468	231	130	82	68	69
18	a180	220	416	260	564	515	643	224	116	75	62	72
19	a170	242	406	249	533	468	622	210	128	73	69	70
20	a200	287	382	236	519	449	767	196	123	73	103	69
21	a320	260	378	242	487	411	726	203	122	74	116	84
22	257	220	346	242	473	386	664	242	125	69	92	190
23	253	196	333	214	430	368	600	238	116	74	84	217
24	326	193	329	246	391	360	564	220	108	76	76	217
25	324	196	324	234	364	342	524	203	103	67	142	234
26	287	210	320	242	489	337	505	193	106	71	138	234
27	268	213	538	224	533	333	496	177	102	72	99	242
28	265	227	386	220	700	487	600	167	109	82	93	242
29	256	213	396	217	-	464	564	164	100	98	78	220
30	246	220	346	396	-	492	501	149	112	98	75	238
31	245	-	320	382	-	492	-	152	-	101	70	-

a No gage-height record; discharge computed on basis of records for station near Hackettstown.

Musconetcong River near Bloomsbury--Continued

Daily discharge, in second-feet, 1934-40--Continued

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	291	173	85	b80	b68	92	496	342	604	210	108	700
2	257	147	98	b78	68	74	416	337	697	190	101	501
3	249	119	114	b76	b67	173	346	333	656	180	91	382
4	224	106	111	b74	66	712	382	373	587	177	78	320
5	217	131	105	b72	68	272	333	346	524	187	88	276
6	210	280	91	b70	66	213	284	324	459	158	86	242
7	200	234	98	b66	77	193	257	291	411	152	98	210
8	193	183	95	b64	75	171	388	264	368	155	93	183
9	200	164	91	b62	71	167	664	268	412	132	93	205
10	193	136	93	b60	80	158	556	253	417	126	78	190
11	190	127	108	b60	332	132	459	234	337	136	74	176
12	180	122	98	b60	127	123	496	238	307	182	84	159
13	177	123	98	64	116	136	564	234	284	163	91	147
14	180	112	103	96	97	418	501	220	257	161	98	132
15	167	114	92	396	74	2 230	440	203	246	155	83	135
16	145	114	95	231	136	693	401	220	227	130	92	123
17	102	114	91	b200	126	515	360	291	220	123	85	124
18	86	114	100	b170	96	449	355	276	210	119	73	110
19	83	106	98	b150	119	487	355	253	217	116	80	111
20	83	98	133	b130	190	492	596	833	203	103	93	110
21	83	94	162	b120	177	501	726	952	187	138	86	106
22	86	94	129	b110	128	435	767	726	167	216	88	112
23	98	93	112	b100	111	360	697	622	167	188	83	115
24	84	95	111	91	101	295	635	556	207	126	70	105
25	83	94	118	b86	98	264	582	482	193	160	71	251
26	88	86	102	b82	99	231	519	440	217	181	112	235
27	91	92	85	b78	86	220	464	416	238	203	108	191
28	98	87	87	b74	94	224	420	578	246	172	178	150
29	90	87	88	b72	85	224	391	519	268	143	171	136
30	95	89	79	b70	-	242	360	440	220	141	150	133
31	133	-	68	b68	-	487	-	551	-	114	209	-

b Stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1934-40

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1934	11 431	578	193	369	223	1.56	1.80
November	5 284	276	141	176	180	1.26	1.41
December	8 322	478	174	268	293	2.05	2.36
Calendar year 1934	81 314	1 250	58	223	218	1.52	20.72
January 1935	7 699	487	174	248	269	1.88	2.17
February	7 029	737	153	251	257	1.80	1.87
March	8 671	411	224	280	332	2.32	2.68
April	5 443	227	137	181	203	1.42	1.58
May	3 482	157	75	112	106	.741	.85
June	2 884	182	68	96.1	96.5	.675	.75
July	10 361	1 350	65	334	389	2.72	3.14
August	3 227	173	76	104	89.7	.627	.72
September	4 011	302	83	134	123	.860	.96
Water year 1934-35	77 844	1 350	65	213	214	1.50	20.29
October 1935	3 941	746	88	127	120	.839	.97
November	8 953	712	172	298	336	2.35	2.62
December	9 854	578	210	318	251	1.76	2.03
Calendar year 1935	75 555	1 350	65	207	214	1.50	20.34
January 1936	12 939	1 360	210	417	405	2.83	3.26
February	6 425	335	162	222	205	1.43	1.54
March	28 975	2 080	262	935	1 038	7.26	8.37
April	17 045	1 130	264	568	561	3.92	4.37
May	6 849	382	136	221	218	1.52	1.75
June	5 903	391	122	197	201	1.41	1.57
July	3 234	166	72	104	85.5	.598	.69
August	2 433	141	63	78.5	73.5	.514	.59
September	2 364	91	63	78.8	49.4	.345	.38
Water year 1935-36	108 915	2 080	63	298	296	2.07	28.14

* Adjusted for change in contents in Lake Hopatcong.

Musconetcong River near Bloomsbury--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Observed				Adjusted*		
	Second-foot-days	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October 1936	6 281	337	85	203	94.4	0.660	0.76
November	3 006	131	86	100	79.4	.555	.62
December	6 689	637	97	216	274	1.92	2.21
Calendar year 1936	102 143	2 080	63	279	275	1.92	26.11
January 1937	10 963	664	207	354	440	3.08	3.55
February	8 229	702	177	294	343	2.40	2.50
March	9 004	416	213	290	287	2.01	2.32
April	10 023	449	249	334	337	2.36	2.63
May	11 461	810	210	370	366	2.56	2.95
June	5 084	280	121	169	164	1.15	1.28
July	3 386	172	71	109	97.0	.678	.78
August	4 091	594	62	132	139	.972	1.12
September	3 182	132	82	106	85.2	.596	.66
Water year 1936-37	81 399	810	62	223	225	1.57	21.38
October 1937	4 333	354	84	140	132	.923	1.06
November	8 365	643	115	279	294	2.06	2.30
December	8 148	396	200	263	229	1.60	1.84
Calendar year 1937	86 269	810	62	236	242	1.69	22.99
January 1938	8 946	900	168	289	305	2.13	2.46
February	8 512	430	236	304	295	2.06	2.14
March	7 103	312	171	229	256	1.79	2.06
April	7 477	364	183	249	270	1.89	2.11
May	5 267	282	129	170	168	1.17	1.35
June	6 554	854	105	218	238	1.66	1.85
July	15 048	1 440	158	485	482	3.37	3.88
August	8 144	509	122	263	240	1.68	1.94
September	10 916	1 530	112	364	378	2.64	2.94
Water year 1937-38	98 813	1 530	84	271	273	1.91	25.93
October 1938	7 930	337	170	256	223	1.56	1.80
November	6 691	287	193	223	210	1.47	1.64
December	14 504	1 150	193	468	469	3.28	3.78
Calendar year 1938	107 092	1 530	105	293	295	2.06	27.95
January 1939	8 929	440	214	288	272	1.90	2.19
February	13 644	700	299	487	529	3.70	3.85
March	15 420	767	333	497	518	3.62	4.17
April	17 695	810	464	590	596	4.17	4.65
May	8 316	464	149	268	254	1.78	2.05
June	3 797	210	100	127	119	.832	.93
July	2 631	122	67	84.9	63.9	.447	.52
August	2 531	142	62	81.6	72.7	.508	.59
September	3 567	242	58	119	36.5	.255	.28
Water year 1938-39	105 655	1 150	58	289	279	1.95	26.45
October 1939	4 656	291	83	150	78.9	.552	.64
November	3 728	280	86	124	109	.762	.85
December	3 136	162	68	101	89.7	.627	.72
Calendar year 1939	88 050	810	58	241	226	1.58	21.44
January 1940	3 210	396	60	104	114	.797	.92
February	3 098	332	66	107	122	.853	.92
March	11 383	2 230	74	367	471	3.29	3.79
April	14 210	767	257	474	577	4.03	4.50
May	12 415	952	203	400	405	2.83	3.26
June	9 753	697	167	325	316	2.21	2.47
July	4 837	216	103	156	147	1.03	1.19
August	3 093	209	70	99.8	99.8	.698	.80
September	6 070	700	105	202	198	1.38	1.54
Water year 1939-40	79 589	2 230	60	217	227	1.59	21.60

* Adjusted for change in contents in Lake Hopatcong.

Assunpink Creek at Trenton

Location.- Water-stage recorder and concrete control, lat. 40°13'29", long. 74°45'02", at Chambers Street Bridge in Trenton, Mercer County, 1½ miles upstream from mouth. Datum of gage is 24.76 feet above mean sea level (New Jersey Geological Survey datum).

Drainage area.- 89.4 square miles (revised).

Records available.- July 1923 to September 1940.

Average discharge.- 17 years. 118 second-feet.

Extremes.- 1923-40: Maximum discharge, 3,320 second-feet Sept. 22, 1938 (gage height, 10.74 feet), from rating curve extended above 1,300 second-feet; minimum, 1.0 second-foot (regulated) Aug. 21 and Oct. 22, 1931 (gage height, 0.25 foot); minimum daily, 4 second-feet July 21, Aug. 8, and Sept. 2, 1929.

Peak gage height and discharge during period of this report.-

1935: Sept. 6 (7 p.m.) 5.41 ft., 1,000 sec.-ft.

1936: Jan. 3 (4 p.m.) 7.30 ft. estimated, about 1,890 sec.-ft.; Jan. 9 (11 p.m.) 6.60 ft. estimated, about 1,550 sec.-ft.; Mar. 12 (6:40 a.m.) 5.57 ft., 1,080 sec.-ft.; Mar. 18 (1 p.m.) 5.00 ft., 840 sec.-ft.; Dec. 20 (11 a.m.) 5.02 ft., 840 sec.-ft.

1938: June 28 (7:30 to 10 p.m.) 6.86 ft., 1,420 sec.-ft.; July 23 (10:30 p.m.) 8.90 ft., 2,370 sec.-ft.; Sept. 22 (2:45 and 3:30 a.m.) 10.74 ft., 3,320 sec.-ft.

1939: Jan. 31 (2:30 a.m.) 6.27 ft., 1,360 sec.-ft.; Feb. 4 (1 a.m.) 7.59 ft., 2,000 sec.-ft.; Feb. 28 (11:30 p.m.) 5.53 ft., 1,020 sec.-ft.; Apr. 7 (3 a.m.) 6.12 ft., 1,290 sec.-ft.; June 30 (7:30 p.m.) 5.34 ft., 940 sec.-ft.; Aug. 20 (3 a.m.) 5.19 ft. estimated, about 877 sec.-ft.

1940: Mar. 4 (8 p.m.) 5.41 ft., 970 sec.-ft.; Mar. 15 (11 a.m.) 5.64 ft., 1,070 sec.-ft.; Apr. 9 (4 a.m.) 6.33 ft., 1,380 sec.-ft.; Apr. 20 (3 p.m.) 5.19 ft., 877 sec.-ft.; May 31 (3 p.m.) 5.40 ft., 966 sec.-ft.; Sept. 3 (3 to 4 a.m.) 6.00 ft., 1,230 sec.-ft.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	285	54	190	289	73	230	122	60	28	30	46	16
2	220	56	157	236	70	257	102	61	18	47	33	18
3	172	51	136	207	77	273	92	62	50	43	21	36
4	142	75	153	161	89	215	85	54	48	20	134	85
5	110	98	135	118	81	195	80	55	50	38	113	244
6	486	102	114	108	75	176	92	67	51	28	74	680
7	475	107	106	98	67	152	95	136	55	18	60	525
8	381	98	88	112	68	158	99	165	51	20	48	428
9	309	94	72	125	81	135	200	161	131	121	35	375
10	233	89	62	157	117	122	216	141	139	350	25	298
11	165	86	52	146	128	126	225	102	106	257	25	174
12	120	82	47	123	117	206	225	72	98	174	37	105
13	93	70	43	104	110	392	190	68	70	128	35	81
14	85	66	48	92	161	321	153	64	70	106	33	64
15	80	62	46	72	566	273	137	50	68	65	69	57
16	73	58	49	69	610	218	121	55	33	48	58	54
17	68	52	56	71	715	168	103	47	32	44	35	45
18	65	52	54	79	517	135	97	39	51	45	17	44
19	68	57	137	71	409	119	84	26	59	46	39	41
20	57	55	276	101	309	119	76	55	82	34	34	38
21	56	61	171	201	215	142	73	43	82	40	36	33
22	72	62	157	235	184	155	80	39	66	57	34	38
23	73	45	145	181	162	135	67	37	45	42	31	40
24	69	56	120	109	165	140	62	41	56	43	20	37
25	66	64	98	124	189	124	64	30	44	48	15	33
26	64	65	128	131	288	115	65	20	39	113	21	47
27	63	58	141	121	306	99	46	42	48	99	29	29
28	64	58	102	103	246	124	51	41	34	68	25	18
29	64	55	161	97	-	221	61	38	20	57	13	18
30	61	124	153	91	-	162	61	22	17	41	33	35
31	61	-	110	87	-	142	-	44	-	48	20	-

Assunpink Creek at Trenton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	630	489	56	66	680	170	68	43	43	27	38
2	29	610	359	76	62	610	160	66	39	34	21	34
3	26	451	254	1 060	66	590	176	142	36	36	25	29
4	28	327	199	785	61	560	155	515	36	30	22	26
5	19	237	149	715	67	645	145	363	35	30	16	22
6	28	173	131	442	67	531	475	312	34	36	20	17
7	40	163	112	341	67	396	409	224	33	33	27	19
8	47	186	112	291	59	297	341	150	31	29	20	26
9	32	151	150	557	62	303	282	106	30	30	16	27
10	27	134	156	815	63	326	315	83	30	27	15	27
11	30	132	152	590	62	580	338	73	37	27	22	16
12	34	153	143	447	57	940	303	68	52	31	22	20
13	34	183	132	338	59	730	309	158	95	40	22	15
14	39	238	122	277	63	475	261	288	115	33	23	20
15	37	191	125	284	64	358	212	113	140	20	27	22
16	33	158	166	433	70	285	187	91	122	16	18	22
17	33	366	147	327	88	252	152	73	97	21	19	21
18	26	590	139	319	132	580	135	78	89	29	21	103
19	21	462	127	303	b130	489	124	95	102	21	24	228
20	22	411	110	249	b104	435	113	119	63	23	24	208
21	33	336	90	216	b98	435	106	93	55	25	23	312
22	28	254	78	198	b96	355	99	73	50	26	21	338
23	42	198	76	162	b96	276	91	61	43	24	16	249
24	40	168	70	123	96	243	87	56	42	43	39	181
25	27	149	64	102	119	209	81	52	43	22	33	148
26	17	143	65	98	237	178	77	48	40	20	28	99
27	24	133	58	89	513	241	77	65	35	28	31	66
28	30	164	62	69	610	396	73	63	33	25	31	55
29	28	565	56	74	575	315	72	58	40	33	62	40
30	142	590	56	73	-	267	70	52	43	24	49	48
31	547	-	57	72	-	221	-	48	-	25	48	-

b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	237	40	33	248	374	126	87	206	50	63	23	106
2	187	44	58	176	279	115	85	152	54	55	22	74
3	150	a43	122	292	218	149	79	124	55	49	22	54
4	128	a42	106	267	187	115	79	102	55	43	20	46
5	117	a42	97	227	176	104	81	91	55	39	20	61
6	91	a42	117	198	152	97	200	87	109	39	20	61
7	68	a42	382	272	145	93	195	81	158	39	25	60
8	55	a42	273	285	148	102	192	77	221	36	32	54
9	54	a65	267	243	162	126	206	75	187	34	39	49
10	54	a64	236	288	178	110	201	75	106	31	34	41
11	61	a64	230	370	155	108	148	68	99	39	62	38
12	63	a63	332	288	140	95	131	65	85	40	98	34
13	56	a62	261	246	133	91	108	73	77	49	113	41
14	49	a56	224	209	184	95	95	186	115	49	73	43
15	46	a52	198	326	181	135	87	470	106	56	63	45
16	43	a49	164	326	162	365	85	297	85	62	54	43
17	152	a46	258	294	158	369	77	300	66	50	39	40
18	155	a43	187	435	145	382	70	224	58	46	30	34
19	165	a41	172	329	133	306	75	152	52	39	27	33
20	173	a40	579	294	122	224	70	104	48	34	26	32
21	176	a39	422	422	128	273	100	85	62	30	41	30
22	128	36	369	531	438	204	306	73	99	29	80	29
23	93	40	267	546	361	176	282	65	102	28	128	28
24	66	38	192	448	344	152	243	60	93	27	114	28
25	56	40	152	590	267	148	204	55	85	27	147	27
26	55	39	126	435	189	155	173	50	108	33	159	27
27	48	42	113	347	165	128	427	52	65	25	151	26
28	46	38	110	279	140	122	396	52	52	20	137	30
29	46	35	99	230	-	110	382	58	50	29	137	30
30	44	38	93	198	-	99	291	58	55	28	174	30
31	42	-	175	258	-	93	-	54	-	25	151	-

a No gage-height record; discharge computed on basis of records for stations on Millstone River and North Branch of Rancocas Creek.

Assunpink Creek at Trenton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	151	268	87	168	94	74	45	49	426	137	57
2	28	135	229	96	142	110	72	43	42	a280	124	48
3	27	110	176	95	138	106	67	42	39	a190	110	42
4	26	88	140	87	147	92	63	41	37	a130	107	39
5	45	74	117	80	131	96	60	40	37	a90	96	38
6	63	68	135	74	122	115	57	39	36	a80	148	36
7	57	63	142	228	138	115	63	38	50	a70	263	37
8	54	59	122	184	120	110	87	34	195	a62	211	36
9	51	59	113	157	108	98	218	36	133	a60	144	34
10	53	56	100	128	103	92	192	43	88	a58	119	32
11	47	53	80	124	92	84	170	45	64	a55	106	31
12	46	54	68	106	85	90	142	49	105	a52	92	32
13	47	243	60	105	85	93	101	47	215	a62	78	34
14	45	362	53	106	87	120	82	55	356	a140	67	36
15	41	261	49	103	84	251	72	173	282	a250	61	50
16	37	244	60	92	73	209	63	149	231	a150	56	42
17	36	215	74	85	67	240	57	131	186	a110	94	46
18	33	170	140	78	67	207	90	95	133	a90	105	54
19	55	137	140	57	113	170	198	64	85	a100	90	182
20	141	113	126	60	356	146	170	52	70	a500	67	686
21	142	98	119	64	292	128	144	48	57	a970	57	1 590
22	138	88	110	95	295	110	115	58	53	1 520	52	2 830
23	172	79	96	122	312	100	88	51	87	1 490	48	1 750
24	186	73	87	131	300	93	74	52	131	1 840	46	787
25	157	70	92	496	220	84	66	53	85	1 440	42	397
26	128	67	92	356	184	79	60	42	124	900	41	258
27	107	74	84	280	166	78	56	117	860	567	39	190
28	203	267	90	218	140	73	52	120	1 230	a383	39	153
29	172	400	96	155	-	70	49	106	1 130	a278	38	144
30	164	278	90	133	-	68	46	92	711	a209	36	119
31	155	-	88	160	-	70	-	67	-	a164	40	-

a No gage-height record: discharge computed on basis of recorded range in stage and records for North Branch of Rancocas Creek at Pemberton.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	106	119	155	105	639	702	328	152	41	371	25	64
2	100	105	146	100	449	455	462	133	38	234	24	51
3	95	90	133	105	951	322	302	123	37	150	28	45
4	88	82	387	103	1 530	241	245	116	41	86	34	40
5	82	76	359	101	835	260	201	109	40	58	34	38
6	101	82	567	178	455	309	391	100	37	50	28	34
7	146	84	397	192	347	289	992	a95	33	45	24	32
8	133	90	292	318	312	234	587	a90	38	42	24	32
9	126	100	242	224	279	201	380	a90	40	40	24	30
10	115	92	235	164	299	174	272	a160	33	41	24	30
11	108	87	203	144	488	158	236	a110	33	42	22	30
12	98	82	186	120	412	227	229	a95	37	37	19	27
13	84	79	164	103	338	433	190	a80	46	34	19	25
14	79	76	147	100	264	380	168	a75	91	37	19	23
15	72	70	133	96	268	309	158	69	74	32	20	23
16	70	61	112	93	371	564	146	67	69	27	19	22
17	66	68	108	98	241	394	160	67	64	25	19	21
18	67	70	110	101	218	299	315	66	59	25	46	20
19	66	101	112	100	201	229	349	64	48	24	293	19
20	70	205	105	90	192	197	382	69	56	24	616	19
21	80	275	101	88	178	178	257	89	51	23	430	20
22	76	330	95	95	176	166	216	105	42	23	292	20
23	70	215	87	96	156	162	176	93	37	22	227	19
24	85	155	84	84	142	154	152	82	33	23	139	19
25	96	128	82	74	114	158	136	77	29	24	74	18
26	88	120	82	74	289	172	158	67	28	23	54	18
27	85	126	285	78	412	160	174	59	27	32	45	20
28	95	133	194	67	502	320	245	59	27	35	42	21
29	129	137	157	87	-	252	199	58	29	30	41	22
30	128	146	151	557	-	394	170	50	214	27	92	53
31	124	-	126	988	-	420	-	43	-	25	80	-

a No gage-height record: discharge computed on basis of records for North Branch of Rancocas Creek at Pemberton.

Assunpink Creek at Trenton--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	146	41	30	26	75	168	111	710	59	19	631
2	48	121	45	32	27	72	138	111	528	47	18	750
3	50	114	50	29	26	150	127	138	315	45	18	1 060
4	51	107	53	27	28	794	170	216	197	59	17	548
5	51	185	53	26	29	653	146	140	138	56	18	284
6	47	318	50	25	34	424	127	116	109	51	23	166
7	38	216	47	25	50	296	105	102	91	42	28	111
8	33	197	45	25	56	212	234	91	79	37	29	82
9	30	170	41	26	54	170	860	86	75	33	34	79
10	28	131	40	26	58	140	449	80	84	33	38	70
11	28	100	42	26	105	116	336	74	79	34	28	66
12	26	77	41	27	116	94	315	75	74	38	21	62
13	26	64	43	29	112	86	442	74	69	40	34	56
14	25	59	51	63	111	107	374	70	61	40	24	51
15	24	53	51	300	64	653	302	66	53	34	23	45
16	23	50	48	174	62	344	241	146	51	30	22	42
17	23	48	47	131	64	276	197	418	48	29	25	40
18	23	47	47	112	67	257	170	262	48	30	25	37
19	24	47	47	107	156	223	158	218	48	29	36	37
20	25	43	56	75	377	188	569	170	45	27	37	53
21	27	43	61	53	409	172	653	168	40	25	38	37
22	33	43	59	43	360	168	580	276	37	24	35	34
23	30	43	50	38	234	162	394	389	37	24	27	33
24	29	42	42	38	170	123	274	325	53	26	22	32
25	28	42	37	37	138	105	216	243	114	30	22	173
26	28	41	37	33	109	93	178	197	82	28	52	218
27	28	41	35	29	87	91	152	170	64	25	63	158
28	32	41	33	26	77	91	134	218	76	22	173	146
29	28	41	32	26	75	91	121	192	94	23	178	134
30	39	41	35	26	-	102	114	160	70	23	180	100
31	114	-	34	26	-	171	-	629	-	22	174	-

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	4 400	486	56	142	1.59	1.83
November	2 112	124	45	70.4	.788	.88
December	3 507	276	43	113	1.26	1.45
Calendar year 1934	45 376	1 230	10	124	1.39	18.94
January 1935	4 019	289	69	130	1.45	1.67
February	6 195	715	67	221	2.47	2.57
March	5 549	392	99	179	2.00	2.31
April	3 224	225	46	107	1.20	1.34
May	1 937	165	20	62.5	.700	.81
June	1 741	139	17	58.0	.649	.72
July	2 318	350	18	74.8	.837	.96
August	1 248	134	13	40.3	.451	.52
September	3 736	680	16	125	1.40	1.56
Water year 1934-35	39 986	715	13	110	1.23	16.62
October 1935	1 575	547	17	50.8	.568	.65
November	8 646	630	132	288	3.22	3.59
December	4 206	489	56	136	1.52	1.75
Calendar year 1935	44 394	715	13	122	1.36	18.45
January 1936	9 981	1 060	56	322	3.60	4.15
February	3 909	610	57	135	1.51	1.63
March	13 198	940	178	426	4.77	5.50
April	5 595	475	70	186	2.08	2.32
May	3 854	515	48	124	1.39	1.60
June	1 683	140	30	56.1	.628	.70
July	884	43	16	28.5	.319	.37
August	812	62	15	26.2	.293	.34
September	2 476	338	15	82.5	.923	1.03
Water year 1935-36	56 819	1 060	15	155	1.73	23.63

Assunpink Creek at Trenton--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	2 904	237	42	93.7	1.05	1.21
November	1 367	65	35	45.6	.510	.57
December	6 414	579	33	207	2.32	2.68
Calendar year 1936	53 077	1 060	15	145	1.62	22.10
January 1937	9 897	590	176	319	3.57	4.12
February	5 564	438	122	199	2.23	2.32
March	4 967	382	91	160	1.79	2.06
April	5 155	427	70	172	1.92	2.14
May	3 671	470	50	118	1.32	1.52
June	2 612	221	48	87.1	.974	1.09
July	1 193	63	20	38.5	.431	.50
August	2 261	174	20	72.9	.815	.94
September	1 274	106	26	42.5	.475	.53
Water year 1936-37	47 279	590	20	130	1.45	19.68
October 1937	2 686	203	26	86.6	.969	1.12
November	4 209	400	53	140	1.57	1.75
December	3 436	268	49	111	1.24	1.43
Calendar year 1937	46 925	590	20	129	1.44	19.52
January 1938	4 342	496	57	140	1.57	1.81
February	4 335	356	67	155	1.73	1.80
March	3 591	251	68	116	1.30	1.50
April	2 848	218	46	94.9	1.06	1.18
May	2 067	173	34	66.7	.746	.86
June	6 901	1 230	36	230	2.57	2.87
July	12 716	1 840	52	410	4.59	5.29
August	2 753	263	36	88.8	.993	1.14
September	9 810	2 830	31	327	3.66	4.08
Water year 1937-38	59 694	2 830	26	164	1.83	24.83
October 1938	2 928	146	66	94.5	1.06	1.22
November	3 584	330	61	119	1.33	1.48
December	5 737	567	82	185	2.07	2.39
Calendar year 1938	61 612	2 830	31	169	1.89	25.62
January 1939	4 923	988	67	159	1.78	2.05
February	11 058	1 530	114	395	4.42	4.60
March	8 913	702	154	288	3.22	3.71
April	8 376	992	136	279	3.12	3.48
May	2 712	160	43	87.5	.979	1.13
June	1 472	214	27	49.1	.549	.61
July	1 711	371	22	55.2	.617	.71
August	2 877	616	19	92.8	1.04	1.20
September	855	64	18	28.5	.319	.36
Water year 1938-39	55 146	1 530	18	151	1.69	22.94
October 1939	1 082	114	23	34.9	.390	.45
November	2 709	318	41	90.3	1.01	1.13
December	1 393	61	32	44.9	.502	.58
Calendar year 1939	48 081	1 530	18	132	1.48	20.01
January 1940	1 690	300	25	54.5	.610	.70
February	3 281	409	26	113	1.26	1.36
March	6 699	794	72	216	2.42	2.79
April	8 444	860	105	281	3.14	3.50
May	5 731	629	66	185	2.07	2.39
June	3 569	710	37	119	1.33	1.48
July	1 065	59	22	34.4	.385	.44
August	1 481	180	17	47.8	.535	.62
September	5 335	1 060	32	178	1.99	2.22
Water year 1939-40	42 479	1 060	17	116	1.30	17.66

North Branch of Rancocas Creek at Pemberton

Location.- Water-stage recorder, lat. 39°58'13", long. 74°41'15", 600 feet downstream from highway bridge at Pemberton, Burlington County, and 12 miles (revised) upstream from confluence with South Branch. Datum of gage is 24.65 feet (revised) above mean sea level (United States Coast and Geodetic Survey datum).

Drainage area.- 111 square miles.

Records available.- September 1921 to September 1940.

Average discharge.- 19 years, 160 second-feet.

Extremes.- 1921-40: Maximum discharge, 1,730 second-feet Aug. 21, 1939 (gage height, 10.77 feet, from floodmark in recorder shelter), from rating curve extended above 1,300 second-feet; minimum daily, 9 second-feet Sept. 29, 1932.

Peak gage height and discharge during period of this report.-
1935: Sept. 6 (4 p.m.) 6.10 ft., 623 sec.-ft.; Sept. 8 (6:30 a.m.) 6.15 ft., 637 sec.-ft.; Sept. 9 (9 a.m.) 6.00 ft., 609 sec.-ft.
1936: Jan. 3 (2 p.m.) 6.39 ft., 667 sec.-ft.
1937: Jan. 21 (2 p.m.) 5.98 ft., 609 sec.-ft.
1938: June 29 (2 to 5 p.m.) 8.78 ft., 1,300 sec.-ft.; July 24 (5 to 9 p.m.) 9.08 ft., 1,360 sec.-ft.; Sept. 22 (6 to 10 p.m.) 10.56 ft., 1,680 sec.-ft.
1939: Feb. 1 (1 to 2 a.m.) 6.28 ft., 694 sec.-ft.; Feb. 3 (8 p.m.) 7.20 ft., 921 sec.-ft.; Apr. 7 (3 a.m.) 6.08 ft., 653 sec.-ft.; Apr. 28 (11 p.m.) 6.25 ft., 673 sec.-ft.; Aug. 21 (about 5 a.m.) 10.77 ft. from floodmark, 1,730 sec.-ft.
1940: Apr. 22 (5 to 6 p.m.) 6.61 ft., 766 sec.-ft.; May 18 (3 p.m.) 6.26 ft., 686 sec.-ft.; May 24 (1:30 a.m.) 6.48 ft., 734 sec.-ft.; May 31 (10 a.m.) 7.19 ft., 918 sec.-ft.; June 2 (3 a.m.) 7.10 ft., 894 sec.-ft.; Sept. 1 (about 3 p.m.) 9.65 ft. from floodmark, 1,480 sec.-ft.

Remarks.- Diurnal fluctuation caused by grist mill just above station.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	117	84	105	192	162	228	a186	123	96	84	52	47
2	129	87	111	166	150	219	a177	120	96	81	56	52
3	108	73	105	174	166	219	a168	129	93	62	60	56
4	90	84	111	158	170	219	a160	140	90	62	61	67
5	90	178	117	132	158	201	a155	136	129	65	64	196
6	277	162	120	108	158	183	154	140	114	62	57	474
7	219	143	99	132	162	188	166	267	136	60	57	539
8	228	192	81	129	146	166	192	267	132	57	54	581
9	108	150	84	120	146	162	252	299	158	73	53	412
10	140	143	87	132	158	162	257	247	150	96	46	232
11	120	140	81	158	166	154	310	310	162	93	46	201
12	108	136	73	150	170	224	310	343	154	87	48	178
13	105	120	123	143	166	288	267	288	126	78	50	150
14	84	99	81	140	174	288	214	267	105	67	48	132
15	87	99	75	132	461	277	224	192	114	70	32	117
16	87	96	58	129	500	267	206	154	108	60	50	162
17	93	90	73	132	539	242	206	120	87	66	45	111
18	99	87	84	140	461	201	183	166	90	64	35	53
19	102	87	129	136	461	219	154	143	105	64	54	87
20	87	81	158	154	376	174	108	132	96	64	36	90
21	75	84	158	166	310	192	120	136	108	62	40	87
22	146	84	143	224	288	188	154	132	93	65	45	84
23	93	81	120	242	267	192	136	126	99	58	59	81
24	84	96	99	224	252	188	158	108	96	61	123	84
25	81	93	105	206	214	178	154	96	99	65	96	84
26	81	90	123	219	232	150	143	117	96	78	55	90
27	87	81	114	224	257	143	126	129	87	75	96	81
28	96	84	117	210	242	183	117	140	93	62	46	75
29	111	81	154	188	-	162	123	111	96	62	25	81
30	93	90	154	183	-	158	120	90	87	56	34	81
31	84	-	143	188	-	a174	-	93	-	53	48	-

a No gage-height record; discharge computed on basis of records for Toms River near Toms River and Great Egg River at Folsom.

North Branch of Rancocas Creek at Pemberton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75	472	282	122	a160	263	239	134	135	67	74	74
2	71	432	230	141	a160	219	228	131	82	79	53	72
3	68	373	206	480	187	238	227	131	62	76	61	67
4	70	310	219	581	223	243	221	144	80	71	49	60
5	61	288	197	526	200	244	225	166	79	71	48	59
6	80	256	183	492	212	223	285	186	77	77	49	55
7	94	208	163	424	206	220	286	183	69	69	83	56
8	96	151	145	368	201	214	328	169	72	69	95	60
9	88	183	155	408	205	201	285	162	73	65	82	56
10	85	202	150	473	197	200	300	158	70	63	68	48
11	70	193	155	451	199	256	328	162	69	53	56	52
12	98	151	149	419	a200	374	336	188	99	51	50	53
13	108	145	146	306	a220	466	353	172	110	71	47	43
14	105	143	195	296	a250	428	318	144	121	71	45	57
15	66	144	152	303	329	374	297	155	113	68	44	57
16	74	102	120	368	296	340	322	129	111	59	39	54
17	73	319	169	365	364	323	338	108	115	53	50	46
18	79	429	123	350	391	415	273	126	98	58	47	155
19	61	420	101	382	a360	386	228	150	109	46	48	244
20	82	396	137	385	a300	389	172	162	114	66	47	278
21	80	304	132	363	a245	364	125	136	114	66	44	296
22	83	224	127	325	a220	358	188	123	95	52	46	199
23	83	260	113	304	a220	340	236	117	84	48	47	119
24	62	226	129	a290	219	310	183	117	83	55	63	133
25	73	190	124	a265	272	276	117	126	86	51	53	96
26	85	178	105	a240	301	238	141	109	85	50	88	94
27	72	188	122	a215	355	251	150	104	80	56	89	88
28	61	182	120	a200	351	281	142	102	78	54	80	98
29	71	344	125	a180	291	280	137	97	98	64	76	87
30	199	274	113	a165	-	273	134	87	79	86	89	114
31	457	-	130	a160	-	252	-	90	-	85	90	-

a No gage-height record; discharge computed on basis of records for Great Egg River at Folsom.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	149	109	78	163	292	200	113	312	148	106	66	a140
2	162	100	89	164	294	196	100	276	124	99	71	a110
3	134	94	119	251	291	181	112	252	132	88	62	a100
4	117	92	121	317	263	179	134	225	129	85	63	a90
5	111	97	109	286	229	174	135	193	112	84	62	a110
6	155	95	115	269	234	162	190	177	108	88	55	a130
7	91	93	191	290	237	159	243	165	110	75	58	a120
8	98	96	185	248	228	158	276	183	114	75	76	a110
9	71	119	181	202	233	166	277	188	113	75	115	a100
10	103	118	164	259	232	180	213	198	110	58	74	95
11	111	120	206	256	225	172	157	195	134	68	73	90
12	132	103	221	235	218	167	169	208	145	86	61	80
13	104	101	209	215	197	168	178	257	139	111	94	87
14	87	97	183	201	220	172	185	347	121	78	123	93
15	107	89	171	241	224	206	167	480	128	71	135	91
16	95	96	158	232	223	357	147	508	131	160	107	87
17	219	87	200	267	222	335	149	364	125	213	50	82
18	215	86	197	303	218	343	136	224	164	176	81	76
19	216	86	214	269	213	314	143	247	160	122	82	76
20	183	88	392	341	201	280	137	226	117	92	67	79
21	167	86	378	481	216	261	190	190	117	95	70	77
22	144	80	424	460	307	242	289	215	169	88	95	79
23	106	81	321	468	302	231	319	244	135	80	148	106
24	137	80	200	407	301	208	255	230	149	59	135	88
25	121	86	214	442	272	222	202	162	128	28	a180	74
26	114	85	210	367	249	200	217	141	107	124	a240	68
27	116	83	201	345	228	190	357	143	96	146	a200	75
28	132	79	191	319	223	200	467	181	103	67	a180	71
29	120	71	183	247	-	177	474	176	107	84	a170	70
30	109	81	132	235	-	153	374	164	108	84	a210	70
31	116	-	157	292	-	175	-	176	-	74	a170	-

a No gage-height record; discharge computed on basis of records for Great Egg River at Folsom.

North Branch of Rancocas Creek at Pemberton--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	155	329	136	175	180	110	92	142	653	215	111
2	64	162	278	136	194	178	112	94	129	347	213	114
3	65	166	205	132	188	162	115	84	166	321	172	91
4	74	170	189	129	185	159	162	109	148	250	196	75
5	67	174	200	129	172	163	113	102	102	216	256	102
6	81	146	203	116	172	173	123	96	113	188	378	113
7	107	140	193	156	160	160	97	84	104	163	477	103
8	93	126	197	170	173	164	88	87	111	147	477	78
9	83	123	189	189	153	117	162	87	106	124	477	68
10	87	120	169	180	148	146	180	124	98	122	401	73
11	102	117	148	168	138	143	180	131	92	142	328	75
12	114	111	146	157	124	148	165	138	109	96	309	84
13	105	249	122	159	134	148	149	124	139	101	216	85
14	120	a400	111	160	140	166	119	122	191	122	205	100
15	102	a350	124	154	122	198	117	160	228	156	183	77
16	90	a270	135	150	122	187	111	176	215	142	154	83
17	92	205	135	143	119	189	113	161	167	148	166	93
18	112	160	147	137	116	174	130	130	159	189	150	86
19	103	163	152	131	139	178	182	147	134	235	143	149
20	226	170	145	125	257	176	204	150	122	359	146	363
21	194	169	146	122	238	159	198	134	95	776	143	1 050
22	209	142	128	130	242	141	167	129	108	921	129	1 640
23	188	148	128	139	252	114	169	126	167	1 020	123	1 580
24	144	140	123	150	269	132	100	115	120	1 280	117	1 260
25	141	133	134	271	258	126	78	112	120	1 300	108	a750
26	131	112	132	226	242	119	103	105	97	1 070	105	a500
27	132	156	125	252	236	122	102	130	478	653	108	a350
28	267	241	128	228	206	108	100	178	1 210	303	102	a300
29	280	404	131	197	-	110	98	212	1 280	337	99	a270
30	303	440	132	189	-	109	98	191	1 050	293	96	a230
31	242	-	130	182	-	114	-	157	-	262	99	-

a No gage-height record; discharge computed on basis of records for Assunpink Creek at Trenton.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a210	254	224	162	653	505	520	463	205	178	131	216
2	a200	232	213	170	598	535	491	298	96	168	121	267
3	a190	203	213	162	673	452	437	332	105	128	109	267
4	a180	199	262	158	840	335	388	296	91	116	108	224
5	a170	190	281	162	867	372	343	194	102	102	97	196
6	a190	180	345	306	653	404	384	174	97	96	89	183
7	a230	171	323	316	520	392	598	342	97	93	83	166
8	a300	173	288	343	445	338	565	303	90	95	83	158
9	a280	168	240	311	384	332	535	296	85	92	86	158
10	a260	178	219	300	414	303	463	406	93	91	82	154
11	a240	173	216	288	535	262	424	383	112	86	78	154
12	229	156	206	214	520	310	400	333	133	83	68	154
13	208	160	210	196	520	378	354	266	176	75	63	146
14	184	158	195	196	458	402	299	229	141	83	75	136
15	144	174	177	192	412	389	214	224	160	79	70	132
16	137	148	181	188	412	469	192	210	154	70	65	123
17	152	152	165	181	381	491	192	225	134	75	61	114
18	159	136	160	168	297	463	224	195	128	73	63	117
19	158	190	157	165	289	388	267	227	124	82	488	135
20	156	282	154	181	274	354	400	184	128	63	f1 370	84
21	173	263	157	171	288	321	400	214	136	73	f1 690	108
22	164	237	153	183	298	299	354	276	124	65	f1 340	98
23	159	221	146	183	283	242	310	257	102	62	694	105
24	183	230	143	178	268	219	288	171	94	70	400	105
25	179	211	140	189	256	232	267	130	92	65	354	108
26	190	235	140	a180	266	242	366	138	95	64	258	102
27	188	232	201	a170	267	237	437	171	90	74	224	105
28	247	208	206	a170	392	321	542	215	95	98	213	129
29	273	223	183	a180	-	332	616	184	92	100	215	102
30	301	230	178	348	-	437	535	121	134	100	299	105
31	263	-	170	526	-	520	-	118	-	122	288	-

a No gage-height record; discharge computed on basis of records for Assunpink Creek at Trenton.
f Fragmentary gage-height record; discharge computed from gage-height graph based on peak stage (from floodmark), hook-gage readings, and available recorder graph.

North Branch of Rancocas Creek at Pemberton--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	121	331	121	101	98	184	268	286	835	145	57	f968
2	308	231	137	98	100	181	182	263	744	137	68	760
3	238	254	121	b98	104	252	184	241	492	123	52	320
4	221	209	117	100	96	437	242	223	430	143	52	200
5	139	315	121	99	96	446	253	211	348	176	51	185
6	114	510	116	b98	106	523	230	206	291	172	58	141
7	102	465	114	98	112	458	227	175	267	207	127	131
8	93	304	113	97	106	398	297	185	222	135	137	118
9	105	259	112	96	107	255	497	192	154	121	102	102
10	113	241	111	96	117	215	480	192	156	109	72	100
11	108	223	107	94	170	166	474	209	174	98	67	113
12	146	210	106	107	132	198	299	221	243	126	a64	117
13	161	163	114	96	143	196	349	237	237	145	61	112
14	114	171	105	128	160	196	375	212	178	140	60	100
15	105	163	116	233	149	424	435	197	121	126	58	94
16	101	155	113	191	159	387	388	297	124	115	72	99
17	100	146	112	176	163	394	330	566	139	105	123	93
18	111	148	105	129	168	380	307	661	120	96	182	91
19	99	147	103	147	286	346	286	505	123	98	241	88
20	90	133	108	123	333	308	408	470	125	97	292	83
21	100	136	108	a110	424	292	588	370	115	85	170	82
22	149	133	109	108	329	268	746	388	115	88	141	69
23	a200	132	105	112	297	252	688	565	124	92	111	77
24	147	117	110	108	278	238	542	605	145	87	94	70
25	94	149	107	102	267	213	349	547	154	90	81	184
26	87	136	100	99	222	205	345	357	159	83	169	233
27	137	112	99	98	202	140	322	375	160	78	181	111
28	141	120	102	98	186	135	310	354	153	82	408	109
29	136	121	100	97	177	158	284	307	158	96	401	132
30	139	119	104	97	-	208	279	278	151	84	374	131
31	270	-	104	100	-	219	-	710	-	60	217	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for Assunpink Creek at Trenton.
b Stage-discharge relation affected by ice.
f Computed on basis of partly estimated gage-height record.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	3 509	277	75	113	1.02	1.18
November	3 195	192	73	106	.955	1.06
December	3 385	158	58	109	.982	1.13
Calendar year 1934	49 741	502	46	136	1.23	16.64
January 1935	5 131	242	108	166	1.50	1.73
February	7 112	539	146	254	2.29	2.38
March	6 189	288	143	200	1.80	2.08
April	5 400	310	108	180	1.62	1.81
May	5 261	343	90	170	1.53	1.76
June	3 295	162	87	110	.991	1.11
July	2 112	96	53	68.1	.614	.71
August	1 671	123	25	53.9	.486	.56
September	4 765	581	47	159	1.43	1.60
Water year 1934-35	51 025	581	25	140	1.26	17.11
October 1935	2 930	457	61	94.5	.851	.98
November	7 687	472	102	256	2.31	2.58
December	4 717	282	101	152	1.37	1.58
Calendar year 1935	56 270	581	25	154	1.39	18.88
January 1936	10 347	581	122	334	3.01	3.47
February	7 334	391	160	253	2.28	2.46
March	9 239	486	200	298	2.68	3.09
April	7 142	353	117	238	2.14	2.39
May	4 268	188	87	138	1.24	1.43
June	2 740	135	62	91.3	.823	.92
July	1 970	86	46	63.5	.572	.66
August	1 900	95	39	61.3	.552	.64
September	2 970	296	43	99.0	.892	.99
Water year 1935-36	63 244	581	39	173	1.56	21.19

North Branch of Rancocas Creek at Pemberton--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	4 042	219	71	130	1.17	1.35
November	2 778	120	71	92.6	.834	.93
December	6 114	424	78	197	1.77	2.04
Calendar year 1936	60 844	581	39	166	1.50	20.37
January 1937	9 072	481	163	293	2.64	3.04
February	6 792	307	197	243	2.19	2.28
March	6 528	357	153	211	1.90	2.19
April	6 505	474	100	217	1.95	2.18
May	7 247	508	141	234	2.11	2.43
June	3 783	169	96	126	1.14	1.27
July	2 939	213	28	94.8	.854	.98
August	3 373	240	50	109	.982	1.13
September	2 724	140	68	90.8	.818	.91
Water year 1936-37	61 897	508	28	170	1.53	20.73
October 1937	4 192	303	64	135	1.22	1.41
November	5 762	440	111	192	1.73	1.93
December	4 954	329	111	160	1.44	1.66
Calendar year 1937	63 871	508	28	175	1.58	21.41
January 1938	5 043	271	116	163	1.47	1.70
February	5 074	269	116	181	1.63	1.70
March	4 663	198	108	150	1.35	1.56
April	3 945	204	88	132	1.19	1.33
May	3 987	212	84	129	1.16	1.34
June	7 500	1 280	92	250	2.25	2.51
July	12 436	1 300	96	401	3.61	4.16
August	6 491	477	96	209	1.88	2.17
September	10 053	1 640	68	335	3.02	3.37
Water year 1937-38	74 100	1 640	64	203	1.83	24.84
October 1938	6 297	301	137	203	1.83	2.11
November	5 967	282	136	199	1.79	2.00
December	6 246	345	140	201	1.81	2.09
Calendar year 1938	77 702	1 640	68	213	1.92	26.04
January 1939	6 837	526	158	221	1.99	2.29
February	12 463	867	256	445	4.01	4.18
March	11 276	535	219	364	3.28	3.78
April	11 805	616	192	394	3.55	3.96
May	7 575	463	118	244	2.20	2.54
June	3 505	205	85	117	1.05	1.17
July	2 821	178	62	91.0	.820	.95
August	9 365	1 690	61	302	2.72	3.14
September	4 351	267	84	145	1.31	1.46
Water year 1938-39	88 508	1 690	61	242	2.18	29.67
October 1939	4 289	308	87	138	1.24	1.43
November	6 053	510	112	202	1.82	2.03
December	3 420	137	99	110	.991	1.14
Calendar year 1939	83 760	1 690	61	229	2.06	28.07
January 1940	3 532	233	94	114	1.03	1.19
February	5 287	424	96	182	1.64	1.77
March	8 672	523	135	280	2.52	2.90
April	10 964	746	182	365	3.29	3.67
May	10 605	710	175	342	3.08	3.55
June	6 957	835	115	232	2.09	2.33
July	3 539	207	60	114	1.03	1.19
August	4 343	408	51	140	1.26	1.45
September	5 213	968	69	174	1.57	1.75
Water year 1939-40	72 874	968	51	199	1.79	24.40

Mantua Creek at Pitman

Location.- Water-stage recorder above concrete dam, lat. 39°44'14", long. 75°06'53", 0.9 mile east of Pitman, Gloucester County, and 2 miles upstream from Porch Branch.

Drainage area.- 6.75 square miles.

Records available.- April to September 1940.

Extremes.- 1940: Maximum discharge, about 4,200 second-feet Sept. 1, 1940 (gage height, 6.64 feet), by computation of flow over concrete spillway and through break in earth dike; minimum, 7.3 second-feet Aug. 6, 1940 (gage height, 1.03 feet).

Daily discharge, in second-feet, 1940

Day	Apr.	May	June	July	Aug.	Day	Apr.	May	June	July	Aug.
1	-	13.5	24	11.0	8.6	16	13.5	23	12.6	10.2	9.4
2	-	13.5	30	11.0	7.9	17	11.0	38	12.6	11.8	14.8
3	-	12.6	18.3	11.0	7.9	18	10.2	24	13.5	11.8	13.5
4	-	12.6	16.3	11.0	7.9	19	11.0	15.3	13.5	11.0	10.2
5	11.0	12.6	15.3	11.0	7.9	20	37	16.5	12.6	10.2	9.4
6	11.0	12.6	14.4	11.0	9.0	21	31	41	11.8	10.2	9.4
7	10.2	11.8	14.4	11.0	16.3	22	15.3	32	11.8	9.4	9.4
8	13.0	11.8	13.5	10.2	11.8	23	12.6	20	11.8	11.0	9.4
9	33	12.6	14.4	10.2	10.2	24	11.8	17.3	12.6	9.4	9.4
10	23	12.6	18.3	10.2	9.4	25	11.8	15.3	15.3	9.4	8.9
11	10.2	12.6	16.3	10.2	8.6	26	12.6	14.4	13.5	9.4	21
12	14.6	11.8	14.4	10.2	8.6	27	13.5	15.3	12.6	9.4	14.4
13	20	11.8	15.3	11.0	9.4	28	11.8	19.4	11.8	9.4	38
14	17.3	11.8	16.3	11.0	10.2	29	11.8	15.3	11.8	8.6	22
15	14.4	12.6	13.5	10.2	9.4	30	12.6	14.4	11.8	8.6	13.5
						31	-	29	-	8.6	12.6

Note.- Dam partly destroyed by the flood of Sept. 1.

Monthly discharge, in second-feet, 1940

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
April 5-30	405.2	37	10.2	15.6	2.31	2.23
May	537.0	41	11.8	17.3	2.56	2.95
June	444.3	30	11.8	14.8	2.19	2.44
July	318.6	11.8	8.6	10.3	1.53	1.76
August	368.4	38	7.9	11.9	1.76	2.03

Oldmans Creek near Woodstown

Location.- Water-stage recorder and concrete control, lat. 39°41'27", long. 75°19'09", at Woodstown-Swedesboro highway bridge, 2 miles north of Woodstown, Salem County, and 16 miles (revised) upstream from mouth.

Drainage area.- 19.3 square miles.

Records available.- June 1931 to September 1940 (destroyed by flood of Sept. 1, 1940).

Average discharge.- 8 years (1931-39), 27.7 second-feet.

Extremes.- 1931-40: Maximum gage height, 20.3 feet Sept. 1, 1940, from floodmark indicated by observer; minimum discharge, 4.2 second-feet Jan. 6, 1940 (gage height, 1.25 feet).
A discharge of 8,100 second-feet, determined from floodmarks by contracted-opening method, occurred on Sept. 1, 1940, at railroad bridge 500 feet downstream from gage.

Peak gage height and discharge during period of this report.-
1935: Sept. 6 (11:30 a.m.) 7.57 ft., about 250 sec.-ft.
1936: Jan. 3 (noon) 6.67 ft., about 210 sec.-ft.
1937: Aug. 27 (10 p.m.) 5.46 ft., 362 sec.-ft.
1938: June 27 (4 p.m.) 9.08 ft., 1,190 sec.-ft.; July 24 (10 a.m.) 4.47 ft., 222 sec.-ft.; Sept. 20 (8 a.m.) 6.71 ft., 756 sec.-ft.
1939: Jan. 30 (5 p.m.) 5.49 ft., 542 sec.-ft.; Feb. 3 (7 to 8 p.m.) 4.93 ft., 442 sec.-ft.; Feb. 11 (10 to 11 a.m.) 3.47 ft., 228 sec.-ft.; Feb. 28 (10 p.m.) 3.49 ft., 235 sec.-ft.; Apr. 7-8, missing; Apr. 19 (10 p.m.) 3.53 ft., 242 sec.-ft.; Apr. 26 (2 to 3 p.m.) 3.53 ft., 242 sec.-ft.; Aug. 19 (5:45 p.m.) 4.32 ft., 348 sec.-ft.
1940: Mar. 4 (noon) 3.91 ft., 289 sec.-ft.; Mar. 15 (8 to 10 a.m.) 3.56 ft., 242 sec.-ft.; Apr. 9 (2 a.m.) 3.53 ft., 242 sec.-ft.; Apr. 20 (1:30 p.m.) 3.73 ft., 268 sec.-ft.; May 17 (2 a.m.) 3.63 ft., 254 sec.-ft.; June 2 (2 a.m.) 3.36 ft., 216 sec.-ft.; Sept. 1, 20.3 ft. from floodmark, discharge missing.

Daily discharge, in second-feet, 1934-40

1934-35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	19.8	41	a55	b28	40	32	22	14.1	12.5	16.1	9.9
2	28	18.5	34	a31	c28	44	32	24	12.5	11.4	38	9.9
3	24	17.2	25	a24	c27	42	30	24	12.5	10.9	15.9	12.0
4	22	26	39	a20	c26	38	29	23	14.1	10.9	12.5	33
5	21	25	31	a23	c24	38	29	24	15.3	10.9	10.4	89
6	87	54	25	a25	c22	37	38	25	41	10.9	9.4	179
7	57	38	22	28	c29	37	33	74	24	10.4	10.9	97
8	34	26	21	29	c21	37	46	45	25	9.4	12.0	52
9	28	22	18.5	27	c32	33	113	34	52	38	10.4	44
10	25	20	17.8	29	c41	34	76	34	34	23	8.9	54
11	24	20	17.2	24	c36	39	49	37	26	15.3	9.4	39
12	22	19.8	15.9	22	c32	61	46	30	20	12.5	9.4	34
13	20	19.2	16.5	22	c28	89	44	28	17.2	12.0	8.9	32
14	19.2	17.8	16.5	22	c46	56	40	27	14.7	11.4	12.8	28
15	19.2	17.2	16.5	20	116	45	39	24	14.1	10.9	52	28
16	19.2	16.5	17.8	19.8	87	41	38	21	13.0	12.5	73	24
17	19.2	16.5	18.5	29	83	39	36	19.8	13.0	12.0	27	22
18	18.5	16.5	17.8	31	80	37	33	18.5	17.1	10.9	14.7	19.8
19	18.5	16.5	52	24	64	37	32	17.2	41	9.9	13.0	19.2
20	17.8	16.5	55	41	56	37	32	17.2	58	14.6	12.5	18.5
21	17.8	16.5	33	64	52	40	31	26	28	22	12.5	17.2
22	18.5	16.5	28	56	46	44	30	23	22	15.3	12.0	15.9
23	17.8	17.4	24	b45	45	39	28	21	18.5	14.7	14.1	15.3
24	17.2	32	23	b36	44	37	27	19.8	15.9	12.5	12.0	14.7
25	17.2	22	22	b31	39	36	26	17.8	14.1	11.4	9.9	14.7
26	17.2	19.2	32	b29	45	34	24	16.5	13.0	12.5	9.4	14.7
27	17.8	18.5	28	b28	50	33	22	15.3	17.8	12.0	9.4	14.7
28	17.8	18.5	21	b27	41	36	22	14.7	18.5	9.9	9.4	14.7
29	16.5	20	53	b27	-	42	22	14.1	15.3	9.4	9.4	14.7
30	16.5	42	37	b27	-	34	27	15.3	13.6	8.9	9.9	13.6
31	16.5	-	a30	b27	-	33	-	15.3	-	8.9	10.9	-

a No gage-height record; discharge computed on basis of records for Maurice River at Norma and Manantico Creek near Millville.
b Stage-discharge relation affected by ice.
c Backwater caused by sand-bar below control; discharge computed by shifting-control method on basis of gage-height record and one discharge measurement.

Oldmans Creek near Woodstown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1935-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13.6	36	49	b22	b23	40	40	24	12.2	16.3	10.0	8.8
2	15.9	29	42	37	b23	36	44	23	11.3	14.9	9.6	8.4
3	14.7	24	40	159	24	42	49	31	12.2	14.0	a9.8	9.2
4	13.6	21	37	103	43	38	41	44	15.8	14.0	a10.0	9.2
5	13.0	20	36	76	43	41	38	34	13.1	19.1	10.0	8.8
6	18.2	19.2	34	58	31	37	70	27	11.7	a15.0	10.0	8.0
7	30	23	33	61	28	33	56	24	10.8	a12.0	12.2	7.6
8	18.5	29	38	54	b26	31	43	22	10.8	a11.0	10.8	7.6
9	15.9	20	41	81	b24	32	43	20	11.3	a10.0	10.0	7.6
10	15.3	18.5	37	96	b24	37	62	18.2	11.7	a10.0	9.2	7.6
11	15.3	22	61	62	b23	78	71	18.2	18.1	10.4	9.2	7.6
12	36	31	49	54	b23	96	52	17.7	83	22	9.6	7.6
13	22	27	40	49	23	71	49	18.2	38	14.5	9.2	7.6
14	17.8	23	37	44	113	50	43	18.2	54	12.6	8.4	7.6
15	15.9	19.2	38	57	118	44	41	16.3	19.6	11.3	8.4	7.6
16	14.7	18.5	41	78	81	42	40	15.8	16.3	10.4	10.0	7.6
17	14.1	102	36	55	76	46	37	15.8	14.0	10.0	10.0	7.2
18	14.1	102	33	49	107	92	36	15.4	99	10.0	8.8	23
19	14.7	55	33	85	49	64	34	18.2	75	10.0	8.0	45
20	14.1	45	32	76	41	52	34	16.7	36	11.7	8.0	14.0
21	14.1	40	24	50	32	80	32	14.9	23	13.5	8.0	12.2
22	14.1	37	23	46	28	62	31	14.5	16.7	11.7	11.3	11.3
23	14.7	36	30	b35	29	49	30	14.0	14.9	10.8	13.1	10.4
24	16.5	34	28	b30	36	44	29	13.5	19.6	12.6	9.6	9.6
25	14.7	33	26	b26	102	42	28	13.1	20	13.5	8.8	9.2
26	14.1	33	b25	b25	118	41	28	12.6	15.8	11.3	11.7	8.8
27	13.6	31	b23	b24	83	60	28	14.9	14.0	10.8	10.4	8.8
28	13.6	47	b22	b24	60	80	27	14.0	19.1	11.7	9.6	8.4
29	13.6	141	b21	b23	44	54	27	12.6	16.3	11.7	22	8.4
30	71	70	b21	b23	-	46	25	12.6	18.2	10.8	14.5	10.6
31	53	-	b21	b23	-	42	-	12.2	-	10.0	10.0	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.
b Stage-discharge relation affected by ice.

1936-37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	9.2	8.0	34	55	28	21	22	10.3	16.9	8.8	18.2
2	19.3	9.2	21	21	35	28	21	22	9.1	13.4	8.0	16.3
3	12.6	9.2	30	67	30	27	19.3	20	8.3	11.8	7.5	15.7
4	11.3	9.6	14.5	53	28	27	18.8	18.8	9.5	10.8	7.5	23
5	9.2	11.3	11.7	31	28	27	21	17.2	15.5	12.3	7.1	106
6	8.8	11.3	16.7	26	28	26	43	17.2	8.3	11.8	6.7	50
7	8.8	10.0	66	39	28	24	30	16.7	10.3	11.3	42	28
8	10.4	11.6	27	37	38	31	25	17.7	10.8	10.3	19.0	22
9	11.3	14.9	16.3	30	36	34	26	19.8	12.9	9.8	13.4	20
10	11.3	11.7	14.9	34	35	26	25	23	11.8	9.8	10.3	18.2
11	10.4	10.4	23	49	29	26	22	19.8	40	14.2	9.3	16.9
12	9.2	10.0	40	33	27	25	21	15.2	30	23	10.7	15.7
13	8.8	10.0	25	28	27	26	18.8	12.9	15.1	13.4	14.0	18.2
14	8.8	10.0	16.3	25	49	27	19.8	35	41	11.8	11.8	18.8
15	8.8	9.6	14.9	54	38	44	19.3	79	27	12.3	9.8	16.3
16	8.8	9.2	14.0	48	32	74	17.7	35	16.9	11.8	9.3	14.0
17	28	9.2	21	40	32	49	15.7	24	17.6	9.8	8.4	14.0
18	16.2	8.8	15.8	53	30	41	15.2	22	55	10.3	29	14.6
19	11.7	8.8	15.2	53	31	35	14.3	19.3	26	11.8	11.8	14.0
20	10.4	9.6	67	73	33	32	13.4	17.2	16.3	11.8	9.8	12.9
21	9.6	9.6	34	85	35	33	32	14.8	17.6	10.8	8.8	11.8
22	9.2	9.2	21	50	90	29	45	17.5	23	9.3	42	11.3
23	9.2	8.8	16.7	51	49	27	30	21	14.0	8.4	131	10.8
24	9.2	9.6	15.8	45	36	26	24	14.3	11.3	8.4	54	10.8
25	9.2	10.0	15.4	66	34	29	21	11.6	10.8	8.8	63	10.3
26	9.6	9.6	15.4	47	32	30	38	11.1	10.3	11.3	42	10.3
27	10.8	9.2	14.9	35	31	26	73	16.0	10.3	15.1	107	10.3
28	10.0	8.8	14.9	33	29	25	38	22	25	10.8	129	15.5
29	9.6	8.8	14.5	34	-	23	30	13.4	20	9.3	32	15.7
30	9.2	8.8	14.0	32	-	22	28	11.1	17.6	8.8	29	12.9
31	8.8	-	29	47	-	22	-	10.7	-	9.3	27	-

Oldmans Creek near Woodstown--Continued

Daily discharge, in second-feet, 1934-40--Continued

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11.3	32	34	22	29	27	21	17.6	14.0	40	21	25
2	11.3	30	30	26	23	26	21	16.3	13.4	42	25	18.2
3	10.8	28	28	23	23	26	21	15.1	12.9	28	23	14.6
4	10.3	26	26	21	24	24	18.8	14.6	13.4	26	43	26
5	19.7	25	26	19.5	22	33	17.6	14.6	13.4	23	40	17.3
6	55	24	42	18.8	21	33	16.9	13.4	12.3	21	33	15.1
7	26	23	36	47	23	28	17.6	12.3	11.3	18.8	26	14.0
8	16.9	23	28	36	21	25	25	12.3	16.1	17.6	71	11.8
9	15.1	22	26	26	20	23	62	12.3	14.6	16.3	51	11.3
10	19.5	21	23	21	20	23	37	14.6	12.3	15.7	35	11.3
11	18.2	21	21	21	18.8	26	26	13.4	11.3	15.1	28	11.8
12	16.3	24	20	21	19.5	30	23	16.3	12.0	34	23	12.3
13	14.6	144	19.5	23	20	29	21	14.6	14.6	24	20	12.3
14	15.1	93	18.8	23	20	34	21	16.2	12.3	16.3	18.8	12.3
15	14.6	48	18.8	21	18.8	42	19.5	35	11.3	18.8	17.6	14.6
16	14.0	36	22	18.8	16.9	37	18.2	22	10.3	17.6	16.9	14.0
17	13.4	33	25	18.8	16.3	41	17.6	16.3	10.8	15.7	16.9	15.1
18	13.4	30	33	18.2	17.6	36	24	14.6	10.8	16.9	31	19.5
19	23	28	28	16.3	26	a30	34	14.6	9.8	21	20	63
20	92	28	24	16.9	93	a25	23	14.0	8.8	25	20	482
21	54	26	23	18.2	53	a25	20	13.4	11.3	55	16.9	521
22	29	25	23	23	41	a25	19.5	16.9	11.3	36	15.1	254
23	53	24	22	23	62	a23	18.2	15.1	12.3	51	15.1	64
24	31	23	21	24	63	21	16.9	14.6	11.8	176	14.0	49
25	25	23	23	50	42	21	16.3	13.4	9.3	63	13.4	40
26	22	23	22	36	31	22	16.3	21	13.1	42	13.4	36
27	35	30	20	25	31	21	15.7	65	570	35	13.4	35
28	132	79	23	21	27	20	15.1	35	387	28	12.9	49
29	106	66	23	18.2	-	19.5	14.6	18.8	95	26	12.3	69
30	52	42	21	19.5	-	19.5	15.7	16.3	43	26	12.3	102
31	36	-	21	31	-	22	-	14.6	-	23	12.9	-

a No gage-height record; discharge computed on basis of records for Manantico Creek near Millville.

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	29	45	28	55	126	a80	45	17.6	16.3	12.3	21
2	39	28	39	28	78	59	a110	41	19.5	13.4	11.3	17.6
3	34	26	64	29	254	49	a80	40	18.2	12.3	10.8	16.3
4	32	26	100	28	218	48	a60	37	18.2	12.3	10.8	15.1
5	30	30	75	27	63	75	a50	35	18.2	12.3	10.8	18.2
6	39	30	112	33	56	73	a90	33	16.3	13.4	9.8	14.6
7	46	29	58	29	69	53	a220	31	15.7	13.4	9.3	12.9
8	34	28	46	26	53	43	a110	30	16.3	12.9	60	13.4
9	30	30	52	24	48	42	a80	30	17.6	13.4	22	12.3
10	28	28	62	27	65	40	a60	30	15.7	13.4	12.9	12.3
11	28	26	45	26	179	41	a55	28	15.7	11.3	10.8	11.8
12	27	25	41	24	74	82	a50	27	14.6	10.3	10.3	11.3
13	27	24	38	24	56	108	a40	31	15.0	10.3	9.8	13.4
14	26	24	35	26	52	56	a38	32	22	16	9.3	12.3
15	26	22	33	25	68	55	a36	28	16.9	12.3	9.3	11.3
16	26	22	30	24	75	133	a35	27	15.7	10.3	10.8	10.8
17	26	23	32	23	49	63	a40	27	14.6	9.8	12.9	10.8
18	25	24	33	24	48	51	a100	25	14.6	9.8	10.8	9.8
19	24	59	31	24	44	45	122	24	29	10.3	167	9.3
20	32	116	29	23	43	44	110	24	25	9.8	137	9.8
21	52	46	28	23	42	42	58	23	18.8	9.8	24	10.3
22	32	36	28	29	40	43	51	28	15.7	10.3	16.9	10.3
23	28	34	26	28	34	42	44	32	15.1	11.8	14.6	9.8
24	38	38	27	26	34	40	42	26	14.6	10.8	13.4	9.8
25	42	39	28	28	35	39	40	23	13.4	10.3	17.6	9.8
26	31	37	27	25	80	40	160	21	13.4	9.3	16.9	9.3
27	28	40	71	22	67	a38	108	21	13.4	10.3	15.1	9.8
28	40	40	37	19.5	121	a70	64	20	12.9	11.8	13.4	10.8
29	57	38	28	40	-	a60	55	20	16.9	19.2	21	10.8
30	40	41	28	317	-	a75	49	18.8	28	32	72	13.4
31	32	-	28	151	-	a100	-	17.6	-	15.1	37	-

a No gage-height record; discharge computed on basis of recorded range in stage and records for Assunpink Creek at Trenton.

Oldmans Creek near Woodstown--Continued

Daily discharge, in second-feet, 1934-40--Continued
1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19.5	48	12.9	10.3	9.3	22	27	27	81	13.4	-	
2	68	23	16.3	9.8	9.8	21	22	28	135	12.9	-	
3	52	18.8	18.8	9.8	10.8	74	22	28	46	12.9	-	
4	22	16.9	16.3	9.8	10.8	212	37	27	35	15.1	h9.3	
5	18.2	34	14.6	9.8	10.8	67	26	24	30	14.6	-	
6	16.3	42	14.0	9.3	12.9	42	21	23	27	12.9	-	
7	15.1	24	14.0	9.8	18.8	35	20	22	23	11.8	-	
8	14.0	19.5	12.3	9.8	15.1	31	81	21	23	11.3	-	
9	13.4	17.6	12.3	10.3	13.4	28	159	28	25	11.3	-	
10	12.9	16.9	12.3	9.8	14.6	25	50	24	24	11.3	-	
11	12.3	16.3	12.9	10.3	44	23	37	21	24	10.3	h11.3	
12	11.8	15.7	12.3	10.3	22	21	62	21	22	10.3	-	
13	11.8	15.1	13.4	12.3	18.2	21	89	20	20	12.9	-	
14	11.3	14.6	16.9	28	31	44	59	19.5	18.8	12.3	-	
15	11.3	14.6	14.0	77	28	174	44	18.2	17.6	10.8	-	
16	11.3	14.6	13.4	26	23	53	40	85	16.3	10.3	-	
17	11.3	14.6	13.4	16.9	20	41	38	153	15.7	37	-	
18	11.3	14.6	12.9	14.0	20	36	35	45	17.6	24	h46	
19	11.3	14.6	12.3	12.9	112	33	34	32	16.9	13.4	-	
20	11.3	14.0	15.7	12.3	67	28	192	28	14.6	11.8	-	
21	a13	13.4	16.9	12.3	44	27	97	64	13.4	10.3	-	
22	a14	13.4	13.4	11.8	30	28	62	77	14.0	9.8	-	
23	12.9	13.4	12.3	10.8	25	24	45	55	14.0	-	-	
24	12.3	13.4	11.8	11.3	23	22	40	40	16.1	-	-	
25	11.8	13.4	10.8	11.3	23	21	37	35	21	-	h12.3	
26	12.3	13.4	11.3	10.3	19.5	21	35	32	16.9	-	-	
27	12.3	13.4	10.8	9.8	18.2	21	33	34	15.1	-	-	
28	16.3	12.9	11.3	9.3	19.5	21	30	39	13.4	-	-	
29	15.7	12.9	11.3	9.8	21	21	28	28	19.5	-	-	
30	16.2	12.9	11.8	9.3	-	24	28	25	15.1	h14.6	-	
31	71	-	10.8	9.3	-	33	-	99	-	-	-	

a No gage-height record; discharge computed on basis of recorded range in stage and records for stations on nearby streams.
h Computed on basis of staff-gage reading; recorder graph for July 23 and thereafter lost during flood of Sept. 1.

Monthly and annual discharge, in second-feet, 1934-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1934	755.4	87	16.5	24.4	1.26	1.45
November	665.6	54	16.5	22.2	1.15	1.28
December	849.0	55	15.9	27.4	1.42	1.64
Calendar year 1934	9 143.9	149	6.9	25.0	1.30	17.63
January 1935	942.8	64	19.8	30.4	1.58	1.82
February	1 268	116	21	45.3	2.35	2.45
March	1 269	89	33	40.9	2.12	2.44
April	1 106	113	22	36.9	1.91	2.13
May	767.5	74	14.1	24.8	1.28	1.48
June	655.3	58	12.5	21.8	1.13	1.26
July	407.8	38	8.9	13.2	.684	.79
August	496.1	73	8.9	16.0	.829	.96
September	994.5	179	9.9	33.2	1.72	1.92
Water year 1934-35	10 177.0	179	8.9	27.9	1.45	19.62
October 1935	600.1	71	13.0	19.4	1.01	1.16
November	1 186.4	141	18.5	39.5	2.05	2.29
December	1 051	61	21	33.9	1.76	2.03
Calendar year 1935	10 744.5	179	8.9	29.4	1.52	20.73
January 1936	1 685	159	22	54.4	2.82	3.25
February	1 475	118	23	50.9	2.64	2.85
March	1 602	96	31	51.7	2.68	3.09
April	1 208	70	25	40.3	2.09	2.33
May	586.6	44	12.2	18.9	.979	1.13
June	751.5	99	10.8	25.0	1.30	1.45
July	387.6	22	10.0	12.5	.648	.75
August	320.2	22	8.0	10.3	.534	.62
September	315.3	45	7.2	10.5	.544	.61
Water year 1935-36	11 168.7	159	7.2	30.5	1.58	21.56

Oldmans Creek near Woodstown--Continued

Monthly and annual discharge, in second-feet, 1934-40--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October 1936	368.5	40	8.8	11.9	0.617	0.71
November	296.0	14.9	8.8	9.87	.511	.57
December	683.9	67	8.0	22.1	1.15	1.33
Calendar year 1936	9 679.6	159	7.2	26.4	1.37	18.69
January 1937	1 353	85	21	43.6	2.26	2.61
February	1 005	90	27	35.9	1.86	1.94
March	949	74	22	30.6	1.59	1.83
April	786.3	73	13.4	26.2	1.36	1.52
May	637.3	79	10.7	20.6	1.07	1.23
June	551.6	55	8.3	18.4	.953	1.06
July	358.7	23	8.4	11.6	.601	.69
August	919.0	131	6.7	29.6	1.53	1.76
September	592.5	106	10.3	19.8	1.03	1.15
Water year 1936-37	8 500.8	131	6.7	23.3	1.21	16.40
October 1937	1 005.5	132	10.3	32.4	1.68	1.94
November	1 100	144	21	36.7	1.90	2.12
December	771.1	42	18.8	24.9	1.29	1.49
Calendar year 1937	10 029.0	144	6.7	27.5	1.42	19.34
January 1938	747.2	50	16.3	24.1	1.25	1.44
February	842.9	93	16.3	30.1	1.56	1.62
March	837.0	42	19.5	27.0	1.40	1.61
April	653.5	62	14.6	21.8	1.13	1.26
May	564.2	65	12.3	18.2	.943	1.09
June	1 409.8	570	8.8	47.0	2.44	2.72
July	1 013.8	176	15.1	32.7	1.69	1.95
August	731.9	71	12.3	23.6	1.22	1.41
September	2 040.5	521	11.3	68.0	3.52	3.93
Water year 1937-38	11 717.4	570	8.8	32.1	1.66	22.58
October 1938	1 050	57	24	33.9	1.76	2.03
November	1 038	116	22	34.6	1.79	2.00
December	1 356	112	26	43.7	2.26	2.61
Calendar year 1938	12 284.8	570	8.8	33.7	1.75	23.67
January 1939	1 230.5	317	19.5	39.7	2.06	2.38
February	2 100	254	34	75.0	3.89	4.05
March	1 875	133	38	60.5	3.13	3.61
April	2 237	220	35	74.6	3.87	4.32
May	875.4	45	17.6	28.2	1.46	1.68
June	518.6	29	12.9	17.3	.896	1.00
July	394.0	32	9.3	12.7	.658	.76
August	819.9	167	9.3	26.4	1.37	1.58
September	368.4	21	9.3	12.3	.637	.71
Water year 1938-39	13 862.8	317	9.3	38.0	1.97	26.73
October 1939	574.2	71	11.3	18.5	.959	1.11
November	541.9	48	12.9	18.1	.938	1.05
December	413.5	18.8	10.8	13.3	.689	.79
Calendar year 1939	11 948.4	317	9.3	32.7	1.69	23.04
January 1940	433.8	77	9.3	14.0	.725	.84
February	734.7	112	9.3	25.3	1.31	1.41
March	1 294	212	21	41.7	2.16	2.49
April	1 530	192	20	51.0	2.64	2.94
May	1 222.7	153	18.2	39.4	2.04	2.35
June	791.0	135	13.4	26.4	1.37	1.53
July 1-22	300.7	37	9.8	13.7	.710	.58

Loper Run near Bridgeton

Location.- Water-stage recorder above siphon dam, lat. 39°28'20", long. 75°14'55", in Silver Lake, 0.4 mile upstream from mouth and 4 miles northwest of Bridgeton, Cumberland County.

Drainage area.- 2.34 square miles.

Records available.- August 1937 to September 1940.

Extremes.- 1937-40: Maximum daily discharge, 94 second-feet Sept. 1, 1940; no flow many days during 1938.

Remarks.- Slight regulation by Silver Lake.

Daily discharge, in second-feet, 1937-40

1937

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1	-	0.25	7	0.19	0.47	13	a0.11	0.13	19	0.13	0.13	25	1.73	0.13
2	-	.25	8	.19	.32	14	a.10	.19	20	.09	.13	26	4.30	.13
3	0.09	.19	9	a.13	.25	15	a.09	.19	21	.09	.13	27	.06	.09
4	.09	.13	10	a.10	.19	16	a.09	.19	22	.13	.13	28	.25	.19
5	.09	4.39	11	a.09	.19	17	a.09	.19	23	.83	.13	29	.25	.25
6	.09	.47	12	a.10	.19	18	.13	.19	24	1.36	.13	30	.25	.25
												31	.25	-

a No gage-height record; discharge computed on basis of records for Oldmans Creek near Woodstown.

1937-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.19	0.56	0.83	0.64	1.03	0.64	0.83	0.56	0.32	0.32	0.83	0.64
2	.19	.56	.73	.83	.73	.73	.83	.56	.32	.25	1.73	.56
3	.13	.47	.73	.73	.64	.83	.93	.47	.32	.19	1.14	.47
4	.13	.47	.64	.64	.64	.83	.83	.39	.32	.09	.83	1.25
5	.19	.47	.64	.64	.64	1.03	.73	.39	.32	.02	.73	.73
6	4.23	.39	1.03	.64	.64	1.14	.73	.39	.25	0	.64	.47
7	.13	.39	.93	4.25	.64	.93	.73	.39	.19	0	.64	.39
8	.13	.39	.83	1.03	.64	.83	1.03	.32	.19	0	1.14	.39
9	.13	.32	.83	.93	.64	.83	1.86	.32	.13	0	1.25	.39
10	.19	.32	.73	.73	.56	.93	1.25	.32	.05	0	1.25	.32
11	.19	.32	.64	.64	.56	1.03	1.03	.39	0	0	.73	.32
12	.19	.40	.56	.64	.56	1.03	.93	.56	0	0	.56	.32
13	.19	7.71	.56	.73	.56	1.03	.93	.56	.09	0	.47	.32
14	.25	.68	.56	.83	.56	1.14	.83	.53	.09	0	.47	.32
15	.19	.83	.47	.73	.47	1.25	.83	1.25	0	0	.47	.39
16	.19	.73	.56	.64	.47	1.14	.83	.83	0	0	.47	.39
17	.19	.64	.64	.64	.47	1.25	.73	.56	0	0	.47	.56
18	.19	.56	.83	.64	.47	1.14	.73	.47	0	0	.47	.73
19	.46	.56	.83	.47	.73	1.03	.73	.47	0	0	.47	4.36
20	4.60	.56	.73	.47	2.00	1.03	.73	.47	0	.02	.39	24
21	.56	.56	.64	.56	1.36	.93	.73	.47	0	15.6	.32	34
22	.56	.47	.64	.83	.93	.93	.73	.64	0	.80	.32	5.41
23	.93	.47	.64	.83	1.14	.93	.73	.56	0	24	.25	1.25
24	.73	.47	.64	.73	1.48	.83	.64	.47	0	39	.25	1.36
25	.56	.47	.73	1.36	1.03	.73	.64	.39	0	5.76	.25	1.25
26	.47	.47	.64	1.14	.93	.83	.64	.56	0	1.03	.25	1.25
27	.52	.56	.64	.73	.83	.83	.64	1.60	8.85	1.14	.25	1.14
28	6.24	4.57	.64	.64	.73	.83	.64	1.14	9.00	1.03	.25	1.03
29	4.33	1.60	.64	.56	-	.83	.56	.64	1.14	.93	.25	1.03
30	.56	1.14	.64	.56	-	.83	.56	.47	.56	1.14	a.25	1.14
31	.56	-	.64	.83	-	.83	-	.32	-	1.03	a.39	-

a No gage-height record; discharge interpolated.

Loper Run near Bridgeton--Continued

Daily discharge, in second-feet, 1937-40--Continued

1938-39

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.03	0.93	1.14	1.25	2.28	8.77	4.84	7.96	2.28	2.14	1.48	1.73
2	.93	.93	1.14	1.25	4.07	4.93	8.94	4.80	2.14	2.00	1.36	1.60
3	.93	.93	1.14	1.36	12.1	.95	4.27	4.80	2.14	1.73	1.36	1.48
4	.93	.83	1.48	1.36	7.31	4.59	5.23	4.80	2.14	1.73	1.36	1.48
5		1.14	1.60	1.36	1.73	5.24	1.62	4.84	2.14	1.73	1.25	1.86
6		1.03	4.09	4.29	5.88	8.02	7.52	4.70	2.14	1.73	1.25	1.60
7		1.03	1.03	.93	1.09	5.25	8.15	4.68	2.14	1.73	1.25	1.36
8		.93	1.14	1.25	2.28	.85	4.42	4.69	2.00	1.60	1.36	1.36
9		.93	1.25	1.25	2.28	4.22	4.43	4.85	2.14	1.60	1.36	1.36
10		.93	1.48	1.36	4.29	4.94	4.44	4.68	4.73	1.60	1.25	1.25
11		.93	1.36	1.36	12.6	4.48	4.56	5.13	.87	1.48	1.25	1.25
12	a.95	.83	1.25	1.25	4.63	4.47	4.49	.72	1.73	1.48	1.14	1.14
13		.83	1.25	1.36	1.65	8.36	4.75	4.61	5.89	1.48	1.14	1.25
14		.83	1.25	1.60	4.88	4.97	4.79	4.54	8.08	1.48	1.03	1.25
15		.83	1.25	1.48	4.76	4.95	4.97	5.11	1.44	1.48	1.03	1.25
16		.83	1.25	1.36	4.71	8.22	7.97	1.15	1.86	1.48	4.25	1.25
17		.83	1.25	1.36	1.73	4.79	4.51	4.35	2.00	1.36	3.98	1.14
18		.83	1.25	1.36	4.27	4.90	8.49	4.53	2.00	1.36	.73	1.03
19		1.14	1.25	1.48	5.80	1.67	4.63	4.89	5.01	1.48	66	.93
20		1.86	1.25	1.36	.79	4.12	4.85	.98	2.28	1.48	8.25	1.03
21	1.25	1.25	1.25	1.36	4.71	4.68	4.50	2.28	2.14	1.48	2.00	1.03
22	1.14	1.03	1.25	1.36	1.89	4.88	4.48	4.32	2.00	1.48	1.86	1.03
23	.93	1.03	1.25	1.48	2.42	4.69	4.73	4.94	2.14	1.48	1.60	1.03
24	1.25	1.25	1.25	1.36	6.19	4.77	4.76	4.38	2.00	1.48	1.48	1.03
25	1.60	1.48	1.25	1.48	1.16	4.75	4.48	1.73	1.86	1.36	4.19	1.03
26	1.14	1.25	1.29	1.25	8.39	4.80	12.3	4.70	1.86	1.36	1.38	1.03
27	.93	1.25	3.96	1.14	1.28	4.99	4.39	1.43	1.86	33	1.60	1.03
28	1.36	1.25	1.25	1.03	8.27	8.92	4.80	5.69	1.86	5.53	1.48	1.03
29	1.86	1.14	1.25	7.12	-	4.66	4.51	1.17	2.14	2.14	1.48	1.03
30	1.25	1.14	1.25	29	-	8.41	5.15	2.14	4.54	2.00	8.10	1.60
31	1.03	-	1.25	5.03	-	4.60	-	2.28	-	1.60	4.90	-

a No gage-height record; mean discharge for the period computed on basis of records for stations on nearby streams.

1939-40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a4.00	1.05	1.03	0.93	0.64	1.03	1.60	2.00	2.28	1.25	0.64	94
2	a8.00	1.36	1.03	.83	.64	1.14	1.48	2.14	2.28	1.14	.56	0
3	.45	1.25	1.14	.83	.73	5.16	2.00	2.14	2.14	1.14	.56	0
4	1.03	1.14	1.14	.73	.73	4.48	1.86	2.14	2.00	1.36	.56	.14
5	1.03	5.44	1.03	.73	.73	1.48	1.48	2.00	1.86	1.36	.56	1.14
6	1.03	.48	1.03	.64	.83	1.48	1.36	2.00	1.86	1.25	.64	1.36
7	1.03	1.03	1.03	.64	1.25	1.48	a1.40	2.00	1.73	1.14	.93	1.36
8	1.03	1.03	1.03	.73	1.25	1.36	a4.00	2.00	1.73	1.03	.93	1.48
9	1.03	1.03	.93	.73	.93	1.25	a4.00	2.00	1.73	1.03	.73	1.73
10	.93	1.03	.93	.73	.83	1.25	1.48	a1.86	2.00	1.03	.64	1.60
11	.93	1.03	.93	.73	4.45	1.25	1.60	a1.80	1.86	1.03	.64	1.60
12	.83	1.03	.93	.73	.83	1.14	4.75	a1.76	1.73	1.03	.56	1.60
13	.83	1.03	1.03	.93	.93	1.14	4.32	a1.74	1.73	1.25	.56	1.48
14	.83	1.03	1.14	1.14	4.18	a2.00	1.48	a1.73	1.60	1.25	.88	1.36
15	.83	1.03	1.03	1.86	.94	a2.50	1.73	1.73	1.48	1.03	1.36	1.25
16	.73	1.03	1.03	1.14	1.03	a2.30	1.86	12.5	1.48	.93	.93	1.25
17	.73	1.03	1.03	.83	.93	a1.90	2.00	7.98	1.36	8.32	38	1.25
18	.83	1.03	1.03	.73	.93	a1.65	1.86	1.73	1.36	2.00	1.34	1.14
19	.83	1.03	.93	.73	4.35	1.48	1.86	2.00	1.25	1.36	1.60	1.14
20	.83	1.03	1.03	.73	1.25	1.48	14.4	2.00	1.25	1.14	1.73	1.03
21	.86	1.03	1.03	.73	1.36	1.48	4.44	2.00	1.14	1.03	1.25	1.03
22	8.90	1.03	.93	.73	1.25	1.60	1.77	2.00	1.14	1.10	1.03	1.03
23	.04	1.03	.83	.73	a1.14	1.48	2.14	2.14	1.25	1.86	.93	.93
24	.47	1.03	.83	.73	a1.10	1.36	2.14	2.14	1.36	1.25	.93	.93
25	.73	1.03	.83	.64	a1.03	1.36	2.14	2.00	1.48	1.14	.86	1.36
26	.83	1.03	.83	.64	a1.01	1.36	2.14	2.00	1.36	1.03	2.00	1.86
27	.83	1.03	.93	.64	a1.00	1.36	2.14	5.35	1.25	.93	1.60	1.25
28	1.03	1.03	.93	.64	a1.00	1.36	2.14	1.04	1.25	.83	1.60	1.14
29	1.03	1.03	.93	.64	1.03	1.36	2.00	1.73	1.36	.73	1.48	1.03
30	1.03	1.03	.93	.64	-	1.48	2.00	4.99	1.36	.73	1.25	1.03
31	8.21	-	.93	.64	-	1.73	-	7.88	-	.64	1.03	-

a No gage-height record; discharge computed on basis of records for stations on nearby streams.

Loper Run near Bridgeton--Continued

Monthly and annual discharge, in second-feet, 1937-40

Month	Second-foot-days	Maximum	Minimum	Mean	Per square mile	Run-off in inches
August 3-31, 1937	11.49	4.30	0.06	0.396	0.169	0.18
September	10.19	4.39	.09	.340	.145	.16
Water year	-	-	-	-	-	-
October 1937	28.30	6.24	.13	.913	.390	.45
November	28.11	7.71	.32	.937	.400	.45
December	21.43	1.03	.47	.691	.295	.34
Calendar year	-	-	-	-	-	-
January 1938	26.26	4.25	.47	.847	.362	.42
February	22.08	2.00	.47	.789	.337	.35
March	29.12	1.25	.64	.939	.401	.46
April	24.56	1.86	.56	.819	.350	.39
May	17.46	1.60	.32	.563	.241	.28
June	22.14	9.00	0	.738	.315	.35
July	92.35	39	0	2.98	1.27	1.46
August	18.18	1.73	.25	.586	.250	.29
September	86.18	34	.32	2.87	1.23	1.37
Water year 1937-38	416.17	39	0	1.14	.487	6.61
October 1938	32.76	1.86	.93	1.06	.453	.52
November	31.42	1.86	.83	1.05	.449	.50
December	44.60	4.09	1.03	1.44	.615	.71
Calendar year 1938	446.72	39	0	1.22	.521	7.09
January 1939	81.24	29	.93	2.62	1.12	1.29
February	123.44	12.6	.79	4.41	1.88	1.96
March	158.84	8.92	.85	5.12	2.19	2.52
April	161.97	12.3	1.62	5.40	2.31	2.58
May	121.87	7.96	.72	3.93	1.68	1.94
June	77.55	8.08	.87	2.58	1.10	1.23
July	85.06	33	1.36	2.74	1.17	1.35
August	132.15	66	.73	4.26	1.82	2.10
September	37.47	1.86	.93	1.25	.534	.60
Water year 1938-39	1 088.37	66	.72	2.98	1.27	17.30
October 1939	51.72	8.90	.04	1.67	.714	.82
November	35.44	5.44	.48	1.18	.504	.56
December	30.36	1.14	.83	.979	.418	.48
Calendar year 1939	1 097.11	66	.04	3.01	1.29	17.43
January 1940	24.47	1.86	.64	.789	.337	.39
February	38.30	4.45	.64	1.32	.564	.61
March	52.88	5.16	1.03	1.71	.731	.84
April	79.57	14.40	1.36	2.65	1.13	1.26
May	88.52	12.5	1.04	2.86	1.22	1.41
June	47.66	2.28	1.14	1.59	.679	.76
July	42.34	8.32	.64	1.37	.585	.67
August	68.31	38	.56	2.20	.940	1.08
September	127.50	94	0	4.25	1.82	2.03
Water year 1939-40	687.07	94	0	1.89	.803	10.91

Miscellaneous discharge measurements

In addition to the records of stream flow obtained at gaging stations, measurements of flow were made at the points indicated in the following tables. All the miscellaneous discharge measurements made prior to October 1, 1940 are listed; some of these measurements are republished from Special Report 5.

Miscellaneous discharge measurements

Hudson River Basin

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1922				
Nov. 3	Wallkill River	Roundout Creek	Franklin	20.3
1923				
Mar. 9	do	do	do	108
Apr. 19	do	do	do	52
19	do	do	do	52

Hackensack River Basin

1932				
Sept. 2	Hackensack River	Newark Bay	Leslie Avenue, Rivervale	4.1
3	Pascack Brook	Hackensack River	Harrington Avenue Bridge, Westwood	6.0

Passaic River Basin

1902				
Sept.26	Passaic River	Newark Bay	Millington	92
26	do	do	Stanley Avenue, Chatham	195
Oct. 30	do	do	do	431
1935				
Sept.30	do	do	do	9.2
Nov. 6	do	do	do	105
18	do	do	do	515
1921				
Aug. 25	do	do	Above discharge pipe of sewage-disposal plant, Chatham	11.7
25	do	do	Below discharge pipe of sewage-disposal plant, Chatham	12.6
Oct. 4	do	do	do	18.3
Dec. 8	do	do	do	67.8
1902				
Sept.24	Rockaway River	Passaic River	First highway bridge upstream from Wharton	33
1936				
June 21	do	do	Bergen Street, Dover	161
July 28	do	do	do	21.5
Aug. 13	do	do	do	15.8
22	do	do	do	4.8
22	do	do	do	4.3
Sept. 3	do	do	do	39.6
1902				
Aug. 23	do	do	First highway bridge downstream from Boonton Reservoir Dam, Boonton	146
Sept.11	do	do	do	164
23	do	do	do	102
1936				
Mar. 12	Whippany River	Rockaway River	Pocahontas Dam above Spring Street, Morristown	a1,380
1902				
Aug. 28	do	do	Whippany	35
Sept.23	Pequannock River	Pompton River	Pompton	90
Oct. 30	Pompton River	Passaic River	Pompton Plains	1,066
Aug. 22	Wanaque River	Pompton River	Pompton	97
1936				
Mar. 12	Ramapo River	do	Ramapo Dam, Ramapo, N.Y.	b6,100
12	do	do	At dam of Orange and Rockland Power Co., Hillburn, N.Y.	c6,600
1902				
June 26	do	do	Near Mahwah	123
Oct. 29	do	do	do	678
1936				
Mar. 12	do	do	Chapman Dam, Darlington	d8,500
1923				
June 6	Airmount Brook	Mahwah River	Masonicus Road, Cragmere Park, 1 mile east of Mahwah	.15
16	do	do	do	.19
Nov. 8	do	do	do	.22
Dec. 26	do	do	do	.77

a Determined by computation of flow over dam (drainage area, 26 square miles).
b Determined by computation of flow over dam (drainage area, 85 square miles).
c Determined by computation of flow over dam (drainage area, 90 square miles).
d Determined by computation of flow over dam (drainage area, 132 square miles).

Miscellaneous discharge measurements--Continued

Passaic River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1924				
Feb. 8	Airmount Brook	Mahwah River	Masonicus Road, Cragmere Park, 1 mile east of Mahwah	0.80
May 28	do	do	do	1.65
June 23	do	do	do	.20
July 19	do	do	do	.05
Aug. 16	do	do	do	.04
Sept.20	do	do	do	.05
1938				
July 23	Second River	Passaic River	Brighton Avenue, East Orange	e1,800
23	do	do	Bloomfield Avenue, Bloomfield	f2,800
23	do	do	At Newark pipe-line crossing 400 feet downstream from Hendricks Brook, Belleville	g3,300

e Determined by computation of backwater curve based on 3 floodmarks by Essex County Engineer (drainage area, 5.03 square miles by Essex County Engineer).
f Determined by contracted-opening method by Essex County Engineer (drainage area, 10.1 square miles).
g Determined by critical-depth method by Essex County Engineer (drainage area, 14.5 square miles).

Elizabeth River Basin

1938				
July 23	Elizabeth River	Arthur Kill	Nye Avenue, Irvington	a1,945
23	do	do	Above Lyons Avenue, Irvington	b1,910
23	do	do	Yale Avenue, Irvington	c2,200
23	do	do	Chancellor Avenue, Irvington	d2,300

a Determined by slope-area method by Essex County Engineer (drainage area, 3.83 square miles).
b Determined by slope-area method by Essex County Engineer (drainage area, 3.87 square miles).
c Determined by slope-area method by Essex County Engineer (drainage area, 5.02 square miles).
d Determined by contracted-opening method by Essex County Engineer (drainage area, 5.14 square miles).

Rahway River Basin

1938				
July 23	West Branch of Rahway River	Rahway River	Diamond Mill Pond Dam, Millburn	a965

a Determined by computation of flow over dam (drainage area, 7.1 square miles).

Raritan River Basin

1902				
Sept.24	South Branch of Raritan River	Raritan River	Long Valley (formerly German Valley)	58
24	do	do	Califon	51
25	do	do	At bridge below grist mill, High Bridge	120
1936				
Mar. 12	do	do	At dam, Clinton	a4,770
1938				
Sept.21	do	do	do	a6,110
1936				
Mar. 12	do	do	At dam, Flemington Junction	b6,980
1902				
Sept.25	do	do	Neshanic	172
1921				
Oct. 28	Raritan River	Raritan Bay	100 feet downstream from Millstone River, Manville	c245
28	do	do	do	189
1902				
Sept.19	do	do	Bound Brook	323
20	do	do	do	427
Nov. 6	do	do	do	947
July 1	North Branch of Raritan River	Raritan River	Bridge on Pluckemin-Bedminster road near Pluckemin	35
Aug. 29	do	do	do	41
Sept.26	do	do	do	171
July 1	Black River	Lamington River	Potterville	545
Aug. 29	do	do	do	32
1933				
Feb. 7	Millstone River	Raritan River	At Princeton sewage-disposal plant, 1 mile north of Kingston	144
1921				
Oct. 28	do	do	500 feet upstream from mouth, Manville	112
28	do	do	do	c124
1934				
May 12	Matchaponix Brook	South River	At bridge, Texas, Middlesex County	41.5
18	do	do	do	39.6

a Determined by computation of flow over dam (drainage area, 110 square miles).
b Determined by computation of flow over dam (drainage area, 167 square miles).
c Made by W. H. Boardman, consulting engineer.

Miscellaneous discharge measurements--Continued

Raritan River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1934				
May 23	Matchaponix Brook	South River	At bridge, Texas, Middlesex County	169
26	do	do	do	104
Aug. 10	do	do	do	6.8
1923				
July 24	Deep Run	do	At bridge in Spring Valley, 0.4 mile upstream from Middlesex-Monmouth county line and 2 1/2 miles southeast of Browntown	2.4
Aug. 10	do	do	do	1.5
Sept.11	do	do	do	1.4
27	do	do	do	2.8
Nov. 19	do	do	do	3.3
1924				
Feb. 27	do	do	do	9.1
Mar. 3	do	do	do	16.8
June 27	do	do	do	11.6
Aug. 13	do	do	do	10.0
25	do	do	do	2.5
Oct. 3	do	do	do	5.9
30	do	do	do	3.1
Nov. 2	do	do	do	3.4
17	do	do	do	3.2
Dec. 19	do	do	do	5.4
1925				
Feb. 6	do	do	do	13.2
Mar. 4	do	do	do	13.9
18	do	do	do	14.8
18	do	do	do	14.4
19	do	do	do	19.2
Apr. 14	do	do	do	5.9
28	do	do	do	5.3
May 13	do	do	do	6.9
25	do	do	do	11.7
25	do	do	do	11.1
26	do	do	do	7.9
26	do	do	do	7.9
June 10	do	do	do	2.8
July 20	do	do	do	1.4
Aug. 10	do	do	do	2.2
27	do	do	do	1.1
Sept.17	do	do	do	2.4
Oct. 22	do	do	do	2.5
Dec. 1	do	do	do	4.9
1926				
Jan. 8	do	do	do	4.6
Feb. 18	do	do	do	12.6
Mar. 12	do	do	do	9.6
Apr. 21	do	do	do	5.2
May 25	do	do	do	4.9
June 14	do	do	do	3.2
July 13	do	do	do	1.8
Aug. 20	do	do	do	8.6
Oct. 4	do	do	do	2.6
Nov. 23	do	do	do	7.8
1927				
Feb. 11	do	do	do	8.0
Mar. 31	do	do	do	6.5
May 17	do	do	do	4.5
1923				
July 24	do	do	At bridge, 1 mile south of Browntown	2.5
Aug. 10	do	do	do	1.5
Sept.11	do	do	do	1.5
27	do	do	do	5.8
Nov. 19	do	do	do	5.5
1924				
Feb. 27	do	do	do	19.1
June 27	do	do	do	12.9
Aug. 13	do	do	do	19.7
25	do	do	do	2.8
Oct. 3	do	do	do	13.7
30	do	do	do	4.9
Nov. 17	do	do	do	5.0
Dec. 19	do	do	do	9.0
1925				
Feb. 6	do	do	do	16.2
1923				
July 24	do	do	At old dam site, about 1,000 feet upstream from Old Bridge-Browntown road and 1 mile east of Old Bridge	4.2
Aug. 10	do	do	do	2.0
Sept.11	do	do	do	1.9
27	do	do	do	6.5
Nov. 19	do	do	do	7.1
1924				
Feb. 27	do	do	do	24.8
June 27	do	do	do	14.0

Miscellaneous discharge measurements--Continued

Raritan River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1924				
Aug. 13	Deep Run	South River	At old dam site, about 1,000 feet upstream from Old Bridge-Browntown road and 1 mile east of Old Bridge	28.8
25	do	do	do	3.5
Oct. 3	do	do	do	19.0
30	do	do	do	6.6
Nov. 17	do	do	do	5.1
Dec. 20	do	do	do	10.8
1925				
Feb. 6	do	do	do	21.9
1923				
July 24	Tennent Brook	do	At Perrine's clay pit, 1 1/2 miles northwest of Browntown and 2 miles upstream from mouth d/	.05
Aug. 10	do	do	do	.03
Sept.11	do	do	do	.06
29	do	do	do	.14
Nov. 20	do	do	do	.34
Dec. 8	do	do	do	3.9
1924				
Jan. 17	do	do	do	26.2
18	do	do	do	8.3
Mar. 3	do	do	do	7.3
June 27	do	do	do	2.6
Aug. 13	do	do	do	8.2
25	do	do	do	.17
Oct. 3	do	do	do	2.4
Nov. 2	do	do	do	.59
17	do	do	do	.38
Dec. 19	do	do	do	1.4
1925				
Feb. 6	do	do	do	3.4
Mar. 4	do	do	do	6.9
18	do	do	do	7.4
18	do	do	do	6.5
19	do	do	do	14.6
Apr. 14	do	do	do	1.6
28	do	do	do	1.5
May 13	do	do	do	2.2
25	do	do	do	4.9
25	do	do	do	4.2
26	do	do	do	2.3
26	do	do	do	2.1
June 10	do	do	do	.19
July 20	do	do	do	.09
Aug. 10	do	do	do	.34
27	do	do	do	.03
Sept.17	do	do	do	.56
Oct. 22	do	do	do	.12
Dec. 1	do	do	do	1.3
1926				
Jan. 8	do	do	do	1.0
Feb. 18	do	do	do	5.7
Mar. 12	do	do	do	5.7
Apr. 21	do	do	do	1.4
May 25	do	do	do	1.2
June 14	do	do	do	.52
July 13	do	do	do	.10
Aug. 20	do	do	do	2.5
Oct. 4	do	do	do	.41
Nov. 23	do	do	do	4.0
1927				
Feb. 11	do	do	do	2.4
Mar. 31	do	do	do	2.3
May 17	do	do	do	1.0

d Published as "at Runyon" in Water-Supply Papers of United States Geological Survey.

Matawan Creek Basin

1925				
Mar. 4	Matawan Creek	Raritan Bay	Upstream from Thompsons Creek, 100 feet downstream from Browntown-Freneau road and 1 mile southwest of Matawan	8.7
18	do	do	do	7.8
18	do	do	do	7.0
19	do	do	do	16.3
1926				
Mar. 12	do	do	do	7.1
1925				
Apr. 14	do	do	Downstream from Thompsons Creek, about 600 feet downstream from Browntown-Freneau road and 1 mile southwest of Matawan	2.2
28	do	do	do	2.5
May 13	do	do	do	3.1

Miscellaneous discharge measurements--Continued

Matawan Creek Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1925				
May 25	Matawan Creek . .	Raritan Bay	Downstream from Thompsons Creek, about 600 feet downstream from Browntown-Freneau road and 1 mile southwest of Matawan	7.5
25	. . do	. . do	. . do	7.2
26	. . do	. . do	. . do	4.7
26	. . do	. . do	. . do	4.6
June 10	. . do	. . do	. . do	1.4
July 20	. . do	. . do	. . do	.85
Aug. 10	. . do	. . do	. . do	1.4
27	. . do	. . do	. . do	.84
Sept.17	. . do	. . do	. . do	2.0
Oct. 22	. . do	. . do	. . do	1.6
Dec. 1	. . do	. . do	. . do	2.8
1926				
Jan. 8	. . do	. . do	. . do	3.0
Apr. 21	. . do	. . do	. . do	2.6
May 25	. . do	. . do	. . do	2.4
June 14	. . do	. . do	. . do	1.7
July 13	. . do	. . do	. . do	.67
1925				
Mar. 4	Thompsons Creek	Matawan Creek . . .	600 feet upstream from mouth and 1 mile southwest of Matawan. (Thompsons Creek flows into Matawan Creek 400 feet northeast of bridge on Browntown-Freneau road)	1.5
18	. . do	. . do	. . do	1.7
18	. . do	. . do	. . do	1.6
19	. . do	. . do	. . do	2.9
Apr. 14	. . do	. . do	. . do	.40
28	. . do	. . do	. . do	.16
May 13	. . do	. . do	. . do	.33
25	. . do	. . do	. . do	.40
25	. . do	. . do	. . do	.29
26	. . do	. . do	. . do	.24
26	. . do	. . do	. . do	.24
June 10	. . do	. . do	. . do	.08
July 20	. . do	. . do	. . do	.08
Aug. 10	. . do	. . do	. . do	.08
27	. . do	. . do	. . do	.02
Sept.17	. . do	. . do	. . do	.13
Oct. 22	. . do	. . do	. . do	.09
Dec. 1	. . do	. . do	. . do	.40
1926				
Jan. 8	. . do	. . do	. . do	.21
Feb. 18	. . do	. . do	. . do	6.1
Mar. 12	. . do	. . do	. . do	1.1
Apr. 21	. . do	. . do	. . do	.36
May 25	. . do	. . do	. . do	.17
June 14	. . do	. . do	. . do	.07
July 13	. . do	. . do	. . do	.02
Aug. 20	. . do	. . do	. . do	1.3
Oct. 4	. . do	. . do	. . do	.20
Nov. 23	. . do	. . do	. . do	1.1
1927				
Feb. 11	. . do	. . do	. . do	.57

Absecon Creek Basin

1923				
Nov. 16	Absecon Creek . .	Absecon Bay	At Germania-Risleyville road, 2 1/2 miles south of Pomona	.89

Tuckahoe River Basin

1901				
July 23	Tuckahoe River . .	Great Egg Harbor .	Hunters Mill	14
Aug. 18	. . do	. . do	. . do	25
21	. . do	. . do	. . do	14

Maurice River Basin

1931				
May 14	Maurice River . .	Delaware Bay . . .	Almond Road Bridge, Norma	132
Aug. 10	. . do	. . do	. . do	20.6
Sept. 1	. . do	. . do	. . do	96
23	. . do	. . do	. . do	35.4
Oct. 20	. . do	. . do	. . do	39.6
Nov. 9	. . do	. . do	. . do	87.1
Dec. 14	. . do	. . do	. . do	91
1932				
June 20	. . do	. . do	. . do	241
1940				
Sept. 2	. . do	. . do	At dam, Millville	a6,500
1901				
July 26	Manaway Branch . .	Maurice River . . .	Above Malaga Road (State Highway 47), 3 miles north of Vineland	4

a Determined by computation of flow over dam (drainage area, 218 square miles).

Miscellaneous discharge measurements--Continued

Maurice River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1901				
Aug. 14	Manaway Branch	Maurice River	Above Malaga Road (State Highway 47), 3 miles north of Vineland	22
19	do	do	do	54
July 26	Blackwater Branch	do	West Boulevard (probably West Avenue), 1 mile north of Vineland	4
Aug. 14	do	do	do	12
19	do	do	do	71
July 27	Parvins Branch	Tarkiln Branch	East Avenue, 1 mile south of Vineland	.3
Aug. 6	do	do	do	7
19	do	do	do	32
July 25	do	do	Malaga Road (State Highway 47), 1 mile southwest of Vineland	2
Aug. 19	do	do	do	14
July 20	Manantico Creek	Maurice River	At Hances Bridge, 5 miles northeast of Millville	23
Aug. 7	do	do	do	36
July 20	do	do	At Leaming's mills, 3 miles east of Millville	36
Aug. 7	do	do	do	56
21	do	do	do	105

Delaware River Basin

1891				
Latter half of June	Delaware River	Atlantic Ocean	Delaware Water Gap, Pa. (A number of measurements were made)	a2,000 to 2,200
1899				
June 4	do	do	Martins Creek, Pa.	2,724
1895				
During drought	do	do	Above bridge and above intake to Delaware & Raritan Canal feeder, Point Pleasant, Pa.	b1,657
During drought	do	do	Below bridge and below intake to Delaware & Raritan Canal feeder, Point Pleasant, Pa.	b1,328
1902				
July 1	Paulins Kill	Delaware River	Warrington	1,390
Aug. 31	do	do	Columbia	98
1940				
Apr. 22	Pequest River	do	Long Bridge	325
May 1	do	do	do	131
14	do	do	do	68.8
June 1	do	do	do	172
July 2	do	do	do	52.3
31	do	do	do	41.0
Sept.27	do	do	do	53.7
Apr. 22	do	do	Great Meadows	543
May 1	do	do	do	195
14	do	do	do	103
June 1	do	do	do	279
July 1	do	do	do	86.2
Sept.26	do	do	do	119
Apr. 22	Bear Creek	Pequest River	1 1/2 miles south of Johnsonburg	89.5
May 2	do	do	do	30.1
14	do	do	do	15.0
June 1	do	do	do	32.9
July 2	do	do	do	11.4
31	do	do	do	9.3
Sept.27	do	do	do	8.3
1907				
Oct. 19	Delaware Division Canal	Lehigh River	Riegelsville, Pa.	246
1908				
Sept. 1	do	do	do	294
15	do	do	do	290
1909				
Apr. 22	do	do	do	222
July 9	do	do	do	257
Sept. 4	do	do	do	261
1913				
Sept.10	do	do	do	224
1914				
Nov. 16	do	do	do	214
1916				
Sept. 1	do	do	do	233
1917				
Sept.14	do	do	do	230
1920				
June 8	do	do	do	235
1921				
Sept.21	do	do	do	230
Nov. 17	do	do	do	228

a Made by Prof. Dwight Porter and students.
b Made by Prof. L. M. Haupt.

Miscellaneous discharge measurements--Continued

Delaware River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1922				
July 11	Delaware Division Canal	Lehigh River	Riegelsville, Pa.	231
Oct. 17	do	do	do	229
1923				
July 9	do	do	do	222
Aug. 25	do	do	do	224
1924				
Aug. 15	do	do	do	232
1925				
Sept.21	do	do	do	220
1926				
Apr. 1	do	do	do	198
10	do	do	do	213
May 26	do	do	do	253
26	do	do	do	236
June 22	do	do	do	236
July 10	do	do	do	234
Aug. 4	do	do	do	237
26	do	do	do	239
27	do	do	do	250
Oct. 12	do	do	do	234
12	do	do	do	244
12	do	do	do	224
1927				
Apr. 21	do	do	do	241
July 25	do	do	do	238
Oct. 4	do	do	do	217
Dec. 6	do	do	do	4.8
1928				
July 19	do	do	do	222
1929				
Apr. 8	do	do	do	226
July 8	do	do	do	226
1930				
May 8	do	do	do	253
Aug. 5	do	do	do	238
Oct. 22	do	do	do	213
1931				
Aug. 12	do	do	do	227
Nov. 12	do	do	do	99
Dec. 16	do	do	do	105
1932				
Mar. 4	do	do	do	0
Apr. 22	do	do	do	9.5
May 27	do	do	do	173
Aug. 1	do	do	do	110
Sept.20	do	do	do	112
1933				
May 24	do	do	do	78
Oct. 20	do	do	do	48.4
1934				
Apr. 16	do	do	do	0
Aug. 24	do	do	do	56
Nov. 22	do	do	do	0
1935				
May 3	do	do	do	96
July 15	do	do	do	40.2
Oct. 14	do	do	do	66.6
1937				
July 28	do	do	do	69.4
Aug. 16	do	do	do	56.7
1939				
July 6	do	do	do	71.0
1940				
May 8	do	do	do	0
Aug. 12	do	do	do	0
1933				
Aug. 7	do	do	Durham Furnace Bridge, near Kintersville, Pa.	90.9
1922				
Aug. 17	do	do	Maple Avenue Bridge, Morrisville, Pa.	51.0
Oct. 18	do	do	do	52.7
Nov. 21	do	do	do	49.5
1923				
Jan. 23	do	do	do	1.3
Mar. 2	do	do	do	0
Apr. 4	do	do	Trenton Avenue Bridge, Morrisville, Pa.	60.9
30	do	do	do	54.3
June 9	do	do	do	77.4
July 2	do	do	do	49.1
Aug. 1	do	do	do	54.5
Sept.24	do	do	do	51.2
1924				
June 25	do	do	do	69.1
Aug. 14	do	do	do	58.8

Miscellaneous discharge measurements--Continued

Delaware River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1924				
Sept.15	Delaware Division Canal	Lehigh River	Trenton Avenue Bridge, Morrisville, Pa.	68.6
Oct. 28	do	do	do	71.0
1925				
Apr. 28	do	do	do	63.2
July 23	do	do	do	36.1
Oct. 29	do	do	do	51.6
Dec. 15	do	do	do	10.2
1926				
Jan. 5	do	do	do	10
Mar. 11	do	do	do	0
Apr. 19	do	do	do	53.7
June 8	do	do	do	42.9
July 26	do	do	do	46.2
Aug. 30	do	do	do	46.8
Oct. 15	do	do	do	42.0
Dec. 1	do	do	do	14.8
1927				
Feb. 9	do	do	do	0
Apr. 6	do	do	do	51.4
June 29	do	do	do	64.2
Sept.29	do	do	do	23.5
Dec. 1	do	do	do	15.9
1928				
Apr. 5	do	do	do	46.0
May 7	do	do	do	22.1
June 28	do	do	do	19.8
Aug. 7	do	do	do	21.1
Nov. 24	do	do	do	27.0
1929				
Apr. 2	do	do	do	24.2
June 3	do	do	do	58.4
July 2	do	do	do	24.8
Aug. 8	do	do	do	34.2
Sept.14	do	do	do	27.2
Oct. 25	do	do	do	33.6
1930				
Apr. 25	do	do	do	48.0
June 9	do	do	do	36.1
July 22	do	do	do	39.1
Oct. 20	do	do	do	33.4
Nov. 25	do	do	do	17.9
1931				
Mar. 19	do	do	do	18.9
July 23	do	do	do	16.4
Aug. 28	do	do	do	30.5
Oct. 2	do	do	do	26.1
23	do	do	do	25.7
Dec. 3	do	do	do	16.8
1932				
Jan. 26	do	do	do	14.0
Apr. 16	do	do	do	11.5
May 17	do	do	do	5.9
July 16	do	do	do	2.5
Sept. 7	do	do	do	3.5
Nov. 22	do	do	do	11.3
1933				
Feb. 28	do	do	do	24.6
May 4	do	do	do	11.8
June 19	do	do	do	11.3
July 21	do	do	do	5.4
Aug. 28	do	do	do	3.3
Sept.25	do	do	do	5.8
Oct. 25	do	do	do	12.5
Nov. 25	do	do	do	0
1934				
Jan. 22	do	do	do	0
Mar. 31	do	do	do	5
Apr. 30	do	do	do	0
June 26	do	do	do	4.8
July 30	do	do	do	0
Aug. 25	do	do	do	2
Sept.29	do	do	do	6
Oct. 29	do	do	do	2
Nov. 23	do	do	do	2
Dec. 27	do	do	do	0
1935				
Feb. 20	do	do	do	5
Mar. 23	do	do	do	2.8
1933				
Aug. 7	Delaware Division Canal feeder	Unnamed stream	New Hope, Pa.	9.0
1932				
Sept.30	Pohatcong Creek	Delaware River	Downstream from quarry near New Village	8.4
Aug. 23	do	do	Upstream from dam, Carpentersville	4.4

Miscellaneous discharge measurements--Continued

Delaware River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1932				
Sept.30	Pohatcong Creek	Delaware River	Upstream from dam, Carpentersville	7.3
Aug. 11	do	do	Downstream from dam, Carpentersville	4.7
Aug. 23	do	do	do	5.4
1938				
June 14	Delaware & Raritan Canal feeder	Delaware River	Coryell Street Bridge, Lambertville	c180
14	do	do	do	c183
30	do	do	do	c231
30	do	do	do	c233
1897				
Sept.14	do	do	Bridge Street Bridge, Lambertville	466
1898				
Feb. 24	do	do	do	356
Sept.21	do	do	do	506
1899				
Mar. 31	do	do	do	451
June 2	do	do	do	399
Sept.19	do	do	do	400
1900				
May 22	do	do	do	455
1901				
Aug. 21	do	do	do	495
Oct. 30	do	do	do	535
1902				
Apr. 15	do	do	do	513
Sept.23	do	do	do	517
1904				
July 22	do	do	do	480
1905				
June 17	do	do	do	458
1906				
Dec. 5	do	do	do	443
1937				
July 22	do	do	do	129
1922				
Aug. 17	do	do	Calhoun Street Bridge, Trenton	159
Oct. 18	do	do	do	166
Nov. 21	do	do	do	175
1923				
Jan. 23	do	do	do	0
Mar. 2	do	do	do	4
Apr. 4	do	do	do	158
30	do	do	do	132
June 9	do	do	do	167
July 2	do	do	do	153
Aug. 1	do	do	do	143
Sept.24	do	do	do	147
1924				
June 25	do	do	do	171
Aug. 14	do	do	do	133
Sept.13	do	do	do	143
Oct. 28	do	do	do	140
1925				
Apr. 28	do	do	do	147
July 23	do	do	do	109
Oct. 29	do	do	do	130
Dec. 15	do	do	do	119
1926				
Jan. 12	do	do	do	37.3
Mar. 11	do	do	do	133
Apr. 19	do	do	do	158
June 8	do	do	do	171
July 14	do	do	do	100
26	do	do	do	90.4
Aug. 30	do	do	do	103
Oct. 15	do	do	do	133
Dec. 1	do	do	do	69.6
1927				
Feb. 9	do	do	do	0
Apr. 6	do	do	do	86.9
June 29	do	do	do	133
Sept.29	do	do	do	117
Dec. 1	do	do	do	50.7
1928				
Apr. 5	do	do	do	134
May 7	do	do	do	125
June 28	do	do	do	127
Aug. 7	do	do	do	127
Nov. 24	do	do	do	68.4
1929				
Apr. 2	do	do	do	103
May 24	do	do	do	98.0
July 2	do	do	do	104
Aug. 8	do	do	do	90.4

c Discharge exceptionally high to test losses between various points on the Canal. See measurements made at other points on this date.

Miscellaneous discharge measurements--Continued

Delaware River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1929				
Sept.14	Delaware & Raritan Canal feeder	Delaware River	Calhoun Street Bridge, Trenton	85.7
Oct. 25	do	do	do	104
Dec. 12	do	do	do	108
1930				
Apr. 25	do	do	do	128
June 7	do	do	do	141
July 22	do	do	do	96.6
Oct. 20	do	do	do	114
Nov. 25	do	do	do	102
1931				
Mar. 19	do	do	do	110
May 6	do	do	do	118
July 23	do	do	do	73.3
Aug. 28	do	do	do	80.0
Oct. 2	do	do	do	100
23	do	do	do	109
Dec. 3	do	do	do	87.2
1932				
Jan. 26	do	do	do	46.4
Apr. 16	do	do	do	81.4
May 17	do	do	do	117
July 18	do	do	do	76.2
Sept. 7	do	do	do	75.0
Nov. 22	do	do	do	57.6
1933				
Feb. 28	do	do	do	3.4
May 4	do	do	do	5.8
June 19	do	do	do	39.9
July 21	do	do	do	17.6
Aug. 28	do	do	do	26.2
Sept.25	do	do	do	35.3
Oct. 25	do	do	do	48.1
Nov. 25	do	do	do	48.8
1934				
Jan. 22	do	do	do	0
Mar. 31	do	do	do	32.2
Apr. 30	do	do	do	32.6
May 28	do	do	do	30.1
June 26	do	do	do	85.7
July 30	do	do	do	95.8
Aug. 25	do	do	do	82.5
Sept.29	do	do	do	76.3
Oct. 26	do	do	do	80.2
Nov. 23	do	do	do	77.6
Dec. 28	do	do	do	0
1935				
Feb. 20	do	do	do	0
Mar. 23	do	do	do	52.8
Apr. 25	do	do	do	86.0
May 27	do	do	do	80.6
June 20	do	do	do	103
July 26	do	do	do	73.5
Aug. 27	do	do	do	62.2
Sept.25	do	do	do	91.3
Oct. 25	do	do	do	99.6
Dec. 2	do	do	do	47.2
21	do	do	do	13.2
1936				
Jan. 17	do	do	do	.2
May 28	do	do	do	92.8
June 22	do	do	do	75.9
July 31	do	do	do	87.6
Sept. 4	do	do	do	60.8
29	do	do	do	73.2
Oct. 23	do	do	do	66.1
Dec. 3	do	do	do	95.2
29	do	do	do	0
1937				
Feb. 5	do	do	do	0
16	do	do	do	0
Mar. 19	do	do	do	1
Apr. 20	do	do	do	1
May 24	do	do	do	0
June 28	do	do	do	90.6
July 30	do	do	do	66.7
Aug. 31	do	do	do	72.7
Sept.30	do	do	do	85.0
Oct. 26	do	do	do	89.8
Nov. 22	do	do	do	94.8
Dec. 28	do	do	do	40.8
1938				
Jan. 19	do	do	do	52.8
Feb. 25	do	do	do	51.0
Mar. 31	do	do	do	58.9
Apr. 30	do	do	do	108
May 31	do	do	do	104

Miscellaneous discharge measurements--Continued

Delaware River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1938				
June 14	Delaware & Raritan Canal feeder	Delaware River	Calhoun Street Bridge, Trenton	c124
14	do	do	do	c124
14	do	do	do	c121
30	do	do	do	c113
30	do	do	do	c119
30	do	do	do	c119
Aug. 19	do	do	do	95.3
Oct. 12	do	do	do	63.5
Nov. 18	do	do	do	59.9
Dec. 20	do	do	do	54.8
1939				
Jan. 27	do	do	do	31.7
Feb. 21	do	do	do	86.3
Apr. 1	do	do	do	75.0
25	do	do	do	103
May 25	do	do	do	90.1
June 28	do	do	do	100
July 14	do	do	do	82.2
Sept. 7	do	do	do	10.7
Oct. 26	do	do	do	101
Nov. 18	do	do	do	104
Dec. 21	do	do	do	0
1940				
Jan. 13	do	do	do	0
Feb. 28	do	do	do	66.5
Mar. 21	do	do	do	91
May 3	do	do	do	113
24	do	do	do	102
June 22	do	do	do	117
Aug. 10	do	do	do	64.5
31	do	do	do	46.8
Sept.30	do	do	do	62.8
1923				
May 9	Delaware & Raritan Canal	do	At bridge, Port Mercer	93.6
June 21	do	do	do	88.0
22	do	do	do	126
1936				
Dec. 3	do	do	do	77.3
30	do	do	do	0
1937				
Feb. 5	do	do	do	5
15	do	do	do	0
Mar. 19	do	do	do	5
Apr. 20	do	do	do	0
May 22	do	do	do	21.4
June 26	do	do	do	37.2
July 30	do	do	do	52.0
Sept. 1	do	do	do	65.9
30	do	do	do	84.2
Oct. 26	do	do	do	99.0
Nov. 22	do	do	do	92.9
1938				
June 14	do	do	do	c145
14	do	do	do	c152
30	do	do	do	c140
30	do	do	do	c132
Aug. 19	do	do	do	92.8
1936				
Dec. 30	do	do	At bridge below lock, Kingston	19
1937				
Feb. 5	do	do	do	9.7
15	do	do	do	9.9
Mar. 19	do	do	do	5
Apr. 20	do	do	do	3
May 22	do	do	do	37.5
June 28	do	do	do	56.0
July 26	do	do	do	64.2
Aug. 31	do	do	do	36.4
Sept.29	do	do	do	45.4
Oct. 26	do	do	do	36.6
Nov. 22	do	do	do	27.5
1938				
June 14	do	do	At bridge, Griggstown	c285
14	do	do	do	c185
14	do	do	do	c170
30	do	do	do	c217
30	do	do	do	c213
30	do	do	do	c201
1923				
July 14	do	do	At bridge, Blackwells Mills	40.7
1936				
Dec. 3	do	do	do	0

c Discharge exceptionally high to test losses between various points on the Canal. See measurements made at other points on this date.

Miscellaneous discharge measurements--Continued

Delaware River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1936				
Dec. 19	Delaware & Raritan Canal	Delaware River	At bridge, Blackwells Mills	0
1937				
Feb. 5	do	do	do	0
15	do	do	do	0
Mar. 19	do	do	do	2
Apr. 20	do	do	do	0
June 28	do	do	do	47.5
July 26	do	do	do	34.0
Aug. 31	do	do	do	35.0
Sept.29	do	do	do	32.2
Oct. 26	do	do	do	28.7
Nov. 22	do	do	do	18.4
1935				
Oct. 26	Waste flume to Trenton power race	Delaware & Raritan Canal feeder	Near Perdicaris Place, Trenton	21.4
1927				
Apr. 6	Trenton power race	Delaware River	Perdicaris Place Bridge, above waste weir, Trenton	477
13	do	do	do	424
19	do	do	do	423
May 9	do	do	do	434
20	do	do	do	481
20	do	do	do	498
24	do	do	do	496
24	do	do	do	494
1931				
Dec. 3	do	do	do	153
1935				
Oct. 26	do	do	do	150
1922				
Aug. 17	do	do	Calhoun Street Bridge, Trenton	212
Oct. 18	do	do	do	189
Nov. 21	do	do	do	89.4
1923				
Jan. 23	do	do	do	190
Mar. 2	do	do	do	209
Apr. 4	do	do	do	324
7	do	do	do	280
30	do	do	do	318
June 9	do	do	do	219
July 2	do	do	do	214
Aug. 1	do	do	do	225
Sept.24	do	do	do	171
1924				
June 25	do	do	do	284
Aug. 14	do	do	do	169
Sept.13	do	do	do	162
Oct. 28	do	do	do	210
1925				
Apr. 28	do	do	do	235
July 23	do	do	do	192
Oct. 29	do	do	do	204
Dec. 15	do	do	do	247
1926				
Jan. 12	do	do	do	264
Mar. 11	do	do	do	262
Apr. 19	do	do	do	242
June 8	do	do	do	283
July 26	do	do	do	173
Aug. 30	do	do	do	260
Oct. 15	do	do	do	175
Dec. 1	do	do	do	245
1927				
Feb. 9	do	do	do	246
Apr. 6	do	do	do	213
13	do	do	do	160
19	do	do	do	207
June 29	do	do	do	263
Sept.29	do	do	do	316
Dec. 1	do	do	do	192
1928				
Apr. 5	do	do	do	450
May 7	do	do	do	308
June 28	do	do	do	280
Aug. 7	do	do	do	200
Nov. 24	do	do	do	182
1929				
Apr. 2	do	do	do	180
May 24	do	do	do	186
July 2	do	do	do	280
Aug. 8	do	do	do	69.8
Sept.14	do	do	do	130
Oct. 25	do	do	do	139
1930				
Mar. 5	do	do	do	134

Miscellaneous discharge measurements--Continued

Delaware River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1930				
Apr. 25	Trenton power race	Delaware River	Calhoun Street Bridge, Trenton	107
June 7	do	do	do	219
July 22	do	do	do	138
Oct. 20	do	do	do	58.0
Nov. 25	do	do	do	65.4
1931				
Feb. 7	do	do	do	51.8
Mar. 19	do	do	do	97.7
May 6	do	do	do	245
July 23	do	do	do	124
Aug. 28	do	do	do	113
Oct. 2	do	do	do	104
23	do	do	do	81.1
Dec. 3	do	do	do	90.2
1932				
Jan. 26	do	do	do	165
Apr. 16	do	do	do	156
May 17	do	do	do	147
July 18	do	do	do	118
Sept. 7	do	do	do	70.8
Nov. 22	do	do	do	131
1933				
Feb. 28	do	do	do	98.4
May 4	do	do	do	117
June 19	do	do	do	107
July 21	do	do	do	93.4
Aug. 28	do	do	do	0
Sept.25	do	do	do	25.4
Oct. 25	do	do	do	20.0
Nov. 25	do	do	do	157
1934				
Jan. 22	do	do	do	186
Mar. 31	do	do	do	175
Apr. 30	do	do	do	157
May 28	do	do	do	144
June 26	do	do	do	122
July 30	do	do	do	172
Aug. 25	do	do	do	95.8
Sept.29	do	do	do	134
Oct. 29	do	do	do	106
Nov. 23	do	do	do	124
Dec. 28	do	do	do	67.2
1935				
Feb. 20	do	do	do	54.5
Mar. 26	do	do	do	60.1
Apr. 25	do	do	do	46.4
May 27	do	do	do	124
June 20	do	do	do	145
July 26	do	do	do	160
Aug. 27	do	do	do	120
Sept.25	do	do	do	103
Oct. 25	do	do	do	84.2
26	do	do	do	74.1
Dec. 2	do	do	do	0
1936				
Jan. 22	do	do	do	0
July 31	do	do	In covered flume just above Calhoun Street, Trenton	2.5
1931				
Aug. 10	Crosswicks Creek	do	At bridge, Ellisdale	19.0
Sept. 1	do	do	do	39.9
23	do	do	do	27.2
Oct. 20	do	do	do	32.0
Nov. 10	do	do	do	29.1
Dec. 14	do	do	do	55.4
1940				
Sept. 1	Haynes Creek	South Branch of Rancocas Creek	At Medford Lakes	d223
1925				
Jan. 8	do	do	At bridge, Eayrestown	57.0
24	do	do	do	111
24	do	do	do	146
24	do	do	do	138
24	do	do	do	131
Mar. 10	do	do	do	94.5
1931				
Aug. 10	do	do	do	11.2
Sept. 1	do	do	do	46.2
23	do	do	do	13.4
Oct. 20	do	do	do	34.3
Nov. 10	do	do	do	21.6
Dec. 14	do	do	do	67.6
1940				
Sept. 1	Kettle Run	Haynes Creek	Taunton	e500

d Determined by computation of flow through orifice (drainage area, 3.3 square miles).
e Determined by computation of flow through orifice (drainage area, 7.3 square miles).

Miscellaneous discharge measurements--Continued

Delaware River Basin--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1940				
Sept. 1	Sharps Run	Haynes Creek	Pennsylvania R.R. culvert, Medford	f700
1933				
June 1	Budds Run	North Branch of Rancocas Creek	100 feet upstream from mouth, Pemberton	10.8
1940				
Sept. 1	Big Timber Creek (North Branch)	Delaware River	Clementon Park Dam, Clementon	g800
1930				
July 19	East Branch of Woodbury Creek	Woodbury Creek	Above Cooper Avenue Bridge, east of Woodbury	1.2
Aug. 21	West Branch of Woodbury Creek	Woodbury Creek	Cooper Avenue Bridge, Woodbury	.27
Oct. 2	do	do	do	.66
1940				
Sept. 1	Raccoon Creek	Delaware River	State Highway 45, Mullica Hill	h2,900
1931				
May 4	Mantua Creek	do	Bridge on Salina-Sewell road, Salina	10.9
Aug. 10	do	do	do	9.3
Sept. 1	do	do	do	9.7
23	do	do	do	7.4
Oct. 20	do	do	do	8.9
Nov. 10	do	do	do	9.4
Dec. 14	do	do	do	13.4
1940				
Sept. 1	Oldmans Creek	do	Jessups Mills	j2,950
1	Salem Creek	do	Woods Mill	k7,090
1	do	do	At railroad bridge, Woodstown	m12,200
Apr. 9	do	do	Memorial Lake Dam, Woodstown	88.5
9	do	do	do	51.7
10	do	do	do	73.7
10	do	do	do	33.9
12	do	do	do	70.0
13	do	do	do	84.5
13	do	do	do	45.6
20	do	do	do	195
21	do	do	do	126
21	do	do	do	25.3
May 17	do	do	do	108
17	do	do	do	213
June 18	do	do	do	14.0
Sept.23	do	do	do	12.5
1931				
May 4	do	do	State Highway 45, Woodstown	5.6
1940				
Sept. 1	do	do	Half a mile downstream from Woodstown	n26,100
1	Branch of Salem Creek	Salem Creek	3 miles east of Woodstown	p3,880
1	Unnamed branch	Alloway Creek	Above Alloway-Daretown road, 1 1/2 miles northeast of Alloway	q10,800
1	Unnamed branch	do	Alloway-Daretown road just east of Alloway	r3,300
1	Cohansey Creek	Delaware River	Bostwick Dam at Beals Mill	s2,100
1	Barrett Run	Cohansey Creek	Mary Elmer Dam, 1 mile northwest of Bridgeton	t1,850

f Determined by computation of flow through orifice (drainage area, 4.9 square miles).
g Determined by critical-depth method (drainage area, 2.8 square miles).
h Determined by critical-depth method (drainage area, 14.0 square miles).
j Determined by contracted-opening method (drainage area, 4.15 square miles).
k Determined by computation of flow over dam (drainage area, 4.3 square miles).
m Determined by contracted-opening method (drainage area, 14.1 square miles).
n Determined by slope-area method (drainage area, 17.5 square miles).
p Determined by slope-area method (drainage area, 3.2 square miles).
q Determined by slope-area method (drainage area, 8.7 square miles).
r Determined by contracted-opening method (drainage area, 5.5 square miles).
s Determined by computation of flow over dam (drainage area, 8.3 square miles).
t Determined by computation of flow over dam (drainage area, 7.5 square miles).

Morris Canal

1923				
Apr. 20	Morris Canal	Musconetcong River	At Plane 4 East, Wharton	3.6
May 21	do	do	do	4.0
June 16	do	do	do	7.4
July 25	do	do	do	7.0
Aug. 20	do	do	do	1.7
Sept.22	do	do	do	2.2
Oct. 27	do	do	do	1.2
Apr. 16	do	Musconetcong and Rockaway Rivers	At Plane 10 East, Towaco	5.4
16	do	Pompton River	At Mary Street, Paterson	5.8
May 26	do	do	do	0
June 16	do	do	do	0
July 21	do	do	do	3.4
Aug. 18	do	do	do	4.2

Miscellaneous discharge measurements--Continued

Morris Canal--Continued

Date	Stream	Tributary to or diverting from-	Locality	Discharge (sec.-ft.)
1923				
Sept.22	Morris Canal	Pompton River	Mary Street, Paterson	6.6
Oct. 27	do	do	do	7.8
May 26	do	do	At Plane 11 East, Bloomfield	1.8
1921				
July 15	do	Musconetcong River	At bridge below Saxton Falls Dam, 3 miles northwest of Hackettstown	54.0
Sept.24	do	do	do	35.0
Oct. 8	do	do	do	34.2
Nov. 8	do	do	do	14.2
Dec. 6	do	do	do	29.2
31	do	do	do	14.0
1922				
Jan. 12	do	do	do	13.4
Feb. 1	do	do	do	19.4
Mar. 10	do	do	do	15.5
Apr. 8	do	do	do	0
Aug. 9	do	do	do	29.6
1923				
Feb. 1	do	do	do	11.2
May 3	do	do	do	0
22	do	do	do	0
July 26	do	do	do	13.0
Aug. 21	do	do	do	9.6
Oct. 1	do	do	do	0

PERIOD OF RECORDS OF GAGING STATIONS

Note.- Dash after date indicates that station was being maintained September 30, 1940. Period after date indicates discontinuance. Tributaries are indicated by indention.

Hackensack River Basin

Hackensack River at New Milford, 1921-

Pascack Brook at Westwood, 1934-

Passaic River Basin

Passaic River at and near Millington, 1903-6; 1921-

Passaic River near Chatham, 1903-11; 1937-

Passaic River at Paterson, 1898-

Canoe Brook near Summit, 1929-

Rockaway River above reservoir, at Boonton, 1937-

Rockaway River below reservoir, at Boonton, 1906-

Beaver Brook at outlet of Splitrock Pond, 1925-

Whippany River at Morristown, 1921-

Pequannock River (head of Pompton River) at Macopin intake dam, 1892-

Pompton River at Pompton Plains, 1903; 1940-

Greenwood Lake at Awosting, 1898-1903; 1907-

Wanaque River at Awosting, 1919-

Wanaque River at Monks, 1935-

Wanaque River at Wanaque, 1912-15; 1919-

Ringwood Creek near Wanaque, 1934-

Cupsaw Brook near Wanaque, 1934-

Erskine Brook near Wanaque, 1934-38.

West Brook near Wanaque, 1935-

Blue Mine Brook near Wanaque, 1934-

Ramapo River near Mahwah, 1903-6; 1922-

Ramapo River at Pompton Lakes, 1921-

Saddle River at Lodi, 1923-

Weasel Brook at Clifton, 1937-

Second River at Belleville, 1937-

Elizabeth River Basin

Elizabeth River at Irvington, 1930-38.

Elizabeth River at Elizabeth, 1921-

Rahway River Basin

Rahway River near Springfield, 1938-

Rahway River at Rahway, 1908-15; 1921-

West Branch of Rahway River at Millburn, 1939-

Robinsons Branch of Rahway River at Goodmans, 1921-24.

Robinsons Branch of Rahway River at Rahway, 1939-

Raritan River Basin

Raritan River, South Branch (head of Raritan River), near High Bridge, 1919-

Raritan River, South Branch, at Stanton, 1903-6; 1919-

Raritan River at Manville, 1903-15; 1921-
Neshanic River at Reaville, 1930-
Walnut Brook near Flemington, 1936-
North Branch of Raritan River near Far Hills, 1922-
North Branch of Raritan River at Milltown, 1923-
Black River near Pottersville, 1921-
Lake Carnegie at Princeton, 1924-
Millstone River near Kingston, 1933-
Millstone River at Blackwells Mills, 1921-
Green Brook at Plainfield, 1938-
Green Brook at Bound Brook, 1923-31.
Lawrence Brook at Patricks Corner, 1922-26.
Lawrence Brook at Farrington Dam, 1927-
South River at Old Bridge, 1939-
Deep Run near Browntown, 1932-40.
Tennent Brook near Browntown, 1932-

Matawan Creek Basin

Matawan Creek at Matawan, 1932-

Navesink River Basin

Navesink River:
Swimming River near Red Bank, 1922-

Manasquan River Basin

Manasquan River at Squankum, 1931-

Toms River Basin

Toms River near Toms River, 1928-

Cedar Creek Basin

Cedar Creek at Lanoka Harbor, 1932-

Mullica River Basin

Mullica River:
Batsto River at Batsto, 1927-
Wading River:
East Branch of Wading River at Harrisville, 1931-38; 1939-

Absecon Creek Basin

Absecon Creek at Absecon, 1923-29; 1933-38.

Great Egg River Basin

Great Egg River at Folsom, 1925-

Maurice River Basin

Maurice River at Norma, 1932-
Manantico Creek near Millville, 1931-

Delaware River Basin

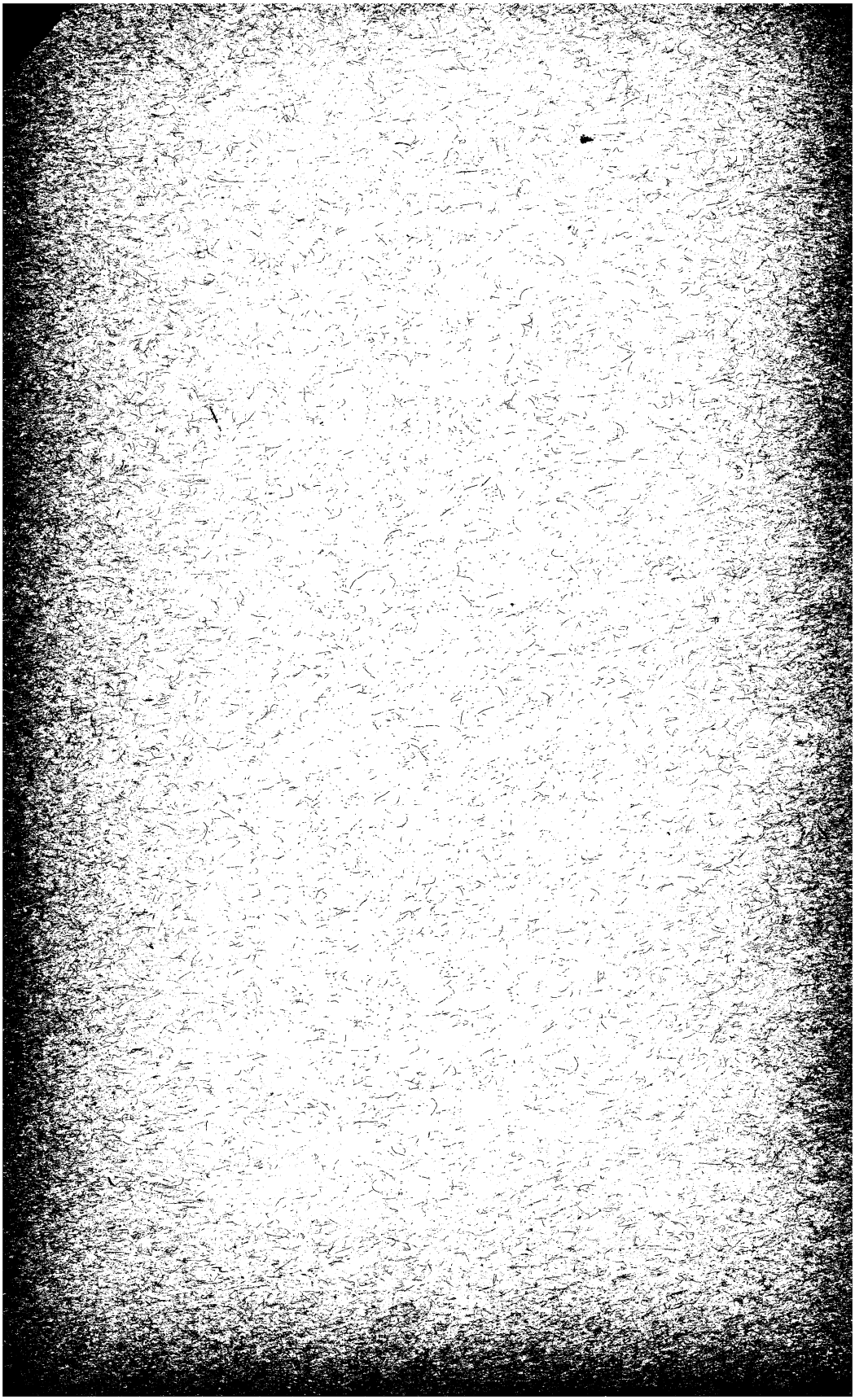
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Delaware River at Montague, 1936-
Delaware River at Dingmans Ferry, Pa., 1936-

Delaware River at Portland, Pa., 1936-
Delaware River at Delaware, 1936-
Delaware River at Belvidere, 1922-
Delaware River at Easton, Pa., 1936-
Delaware River at Riegelsville, 1906-
Delaware River at Milford, 1936-
Delaware River at Frenchtown, 1936-
Delaware River at Point Pleasant, Pa., 1936-
Delaware River at Lumberville, Pa., 1936-
Delaware River at Stockton, 1936-
Delaware River at Lambertville, 1897-1908; 1936-
Delaware River at Washington Crossing, 1936-
Delaware River at Yardley, Pa., 1936-
Delaware River at Trenton, 1913-
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  Paulins Kill at Blairstown, 1921-
  Pequest River at Huntsville, 1939-
  Pequest River at Pequest, 1921-
    Beaver Brook near Belvidere, 1922-
  Lake Hopatcong at Landing, 1887-
  Musconetcong River at outlet of Lake Hopatcong, 1928-
  Musconetcong River near Hackettstown, 1921-
  Musconetcong River near Bloomsbury, 1903-7; 1921-
  Assunpink Creek at Trenton, 1923-
  Rancocas Creek:
    North Branch of Rancocas Creek at Pemberton, 1921-
  Mantua Creek at Pitman, 1940-
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