STATE OF NEW JERSEY

STATE WATER POLICY COMMISSION

HOWARD T. CRITCHLOW, Engineer in Charge

In cooperation with the United States Geological Survey

N. C. GROVER, Chief Hydraulic Engineer

SPECIAL REPORT 5

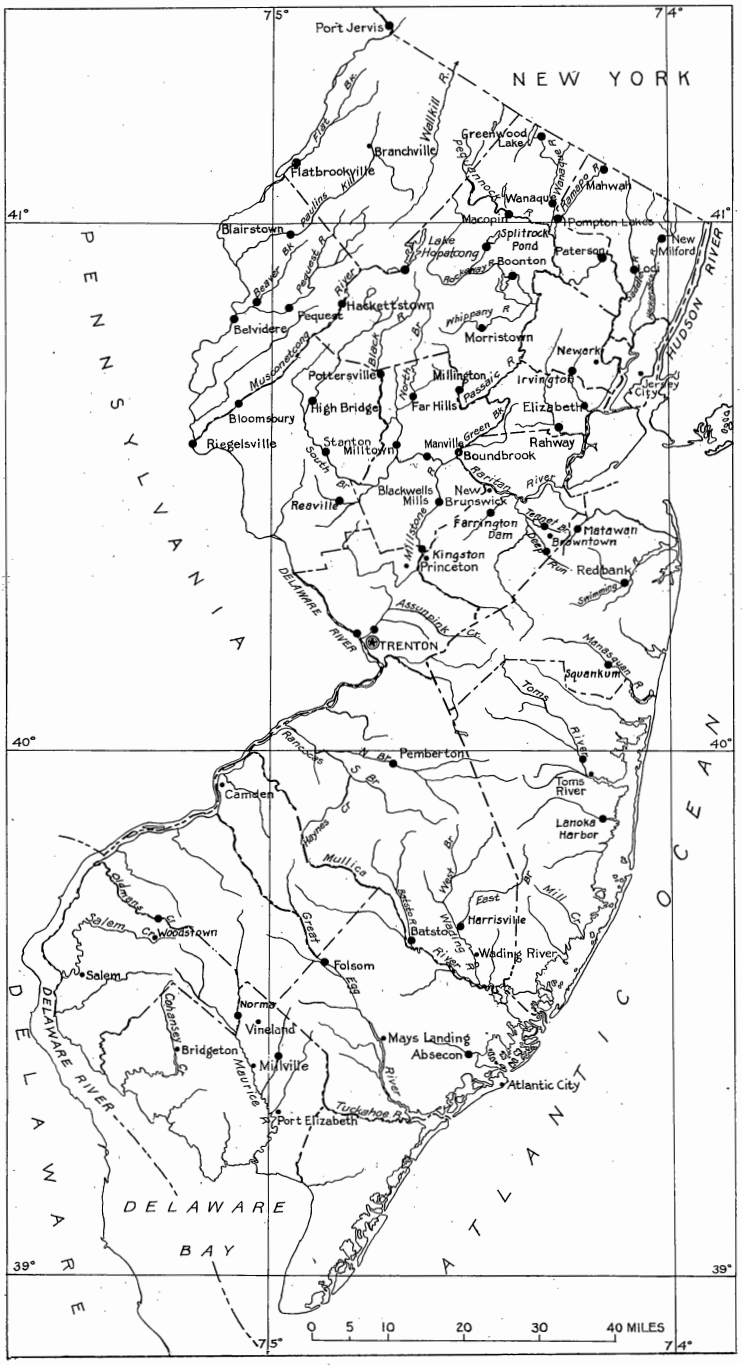
SURFACE WATER SUPPLY
of NEW JERSEY
STREAM FLOW RECORDS
October 1, 1928 to September 30, 1934

BY

O. W. HARTWELL

1936

28 WEST STATE STREET
TRENTON, N. J.



Map showing location of gaging stations

(a) Showing equipment

(b) Making measurement

Engineer making flow measurement by wading

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LETTER OF TRANSMITTAL

January 21, 1936

Mr. Max Grossman, Chairman,
State Water Policy Commission.
Dear Sir:

I am transmitting herewith a report on surface water supply of New Jersey prepared by Mr. O. W. Hartwell, district engineer, United States Geological Survey. The report contains stream flow records and represents investigational work for the six-year period ending September 30, 1934. Similar records prior to October 1, 1928, are available in 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 in cooperation with the United States Geological Survey under agreements made from year to year. These agreements provide that the Survey and the Commission contribute funds for the work and that each party may publish the results. This report includes records collected at fifty-three stations in New Jersey. Under the agreement, the Survey publishes some of the records annually in their Water Supply Papers together with the records of other streams in the North Atlantic Slope Basins.

This report assembles the records of New Jersey streams for a six-year period and makes a convenient reference for many people of the State who are in need of accurate information on the flow of streams in studying problems dealing with the development of our surface water resources. Engineers especially need such information in designing 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 a special report 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.

Approved for publication
Max Grossman, Chairman.

SURFACE WATER SUPPLY OF NEW JERSEY

OCT. 1, 1928 TO SEPT. 30, 1934

By C. 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. Numerous other Federal and State departments, 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 results of stream-flow measurements which have been made from October 1, 1928, to September 30, 1934. Earlier records have been so presented in Bulletin 33 of the State Department of Conservation and Development. This report also contains a few records for periods prior to October, 1928, which were not available at the time of publication of Bulletin 33. A few earlier records are also included which have been revised and which supersede records published in Bulletin 33.

STREAM GAGING

Thirty-seven stream-flow measuring stations were in operation at the beginning of the period of this report. During the period one station, Green Brook at Bound Brook, was discontinued and 17 new stations were established. On September 30, 1934, there were fifty-three stations. Of these all but one were equipped with water-stage recorders.

Records of stations on Canoe Brook near Summit and Pascack Brook at Westwood are not published and these stations were not included in the enumeration above. The station on Canoe Brook was established November 20, 1929; the record of discharge is fragmentary since backwater from the Passaic River prevents determination of discharge for periods of high water. The station on Pascack Brook was established September 30, 1934, the final date of this report. Both of these stations are equipped with water-stage recorders and were continued in operation after September 30, 1934. The records may be obtained from the office of the State Water Policy Commission or of the United States Geological Survey, 228 Federal Building, Trenton, N. J.

DEFINITION OF TERMS

The volume of water flowing in a stream - the "run-off" or "discharge" - is expressed in various terms, each of which has become associated with a certain class of work. These terms may be divided into two groups - (1) those that represent a rate of flow, as second-feet, gallons per minute, and discharge in second-feet per square mile, and (2) those that represent the actual volume of water, as run-off in inches, acre-feet, and millions of cubic feet. The principal terms used in this report are second-feet, second-feet per square mile, and run-off in inches. They may be defined as follows:

"Second-feet" is an abbreviation for "cubic feet per second". A second-foot is the rate of discharge of water flowing in a channel of rectangular cross section 1 foot wide and 1 foot deep at

an average velocity of 1 foot per second. It is generally used as a fundamental unit from which others are computed.

"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 flowing from it in a given period were uniformly distributed on the surface. It is used for comparing run-off with rainfall, which is usually expressed in inches.

The following terms not in common use are here defined:

"Stage-discharge relation" - an abbreviation for the term "relation of gage height to discharge."

"Control" - a term used to designate the natural section or stretch of the channel or artificial structure below the gage, which determines the stage-discharge relation at the gage.

EXPLANATION OF DATA

At the beginning of January much of the precipitation in the preceding three months has been stored in the watershed in the form of snow or ice, or in ponds, lakes, and swamps, or as underground water. 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 later 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. For this reason run-off data are given in many reports by water years ending September 30. 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 gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either from direct readings on a staff gage or from a water-stage recorder that gives a continuous graphic record of the fluctuations.

Measurements of discharge are made with a current meter by the general methods outlined in standard textbooks on the measurement of river discharge. Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the mean daily gage height to these rating tables gives the mean daily discharge from which the monthly and yearly mean discharge is computed.

At stations on streams subject to sudden or rapid diurnal fluctuation, the discharge obtained from the rating table and the mean daily gage height will not be the true mean discharge for the day. Such stations are equipped with water-stage recorders and the mean daily discharge is obtained by averaging discharge for several intervals during the day or by using the discharge integrator. The discharge integrator is an instrument for obtaining mean daily discharge from a continuous gage-height graph, operating in the same manner as a planimeter, and containing as an essential element the rating curve of the station.

The data presented for each gaging station comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off.

The description of the station gives information in regard to the location and type of gage, diversions that decrease the flow at the gage, and artificial regulation from pondage or storage. The size of the drainage area is given, together with the length of record available. Information under "Extremes" gives the maximum recorded discharge and the minimum recorded or minimum daily discharge. The maximum usually represents the crest discharge as indicated by an automatic recorder. In some cases where a non-recording gage was in use, the maximum stage is estimated by plotting a

graph based on observations on the gage and high-water marks where available. The minimum discharge is omitted for some stations where regulation of the flow at points upstream causes rates of flow which are much less than the natural run-off. The average discharge is the average of the mean annual discharges for the years indicated.

The table of daily discharge gives the average discharge in second-feet for each day. The daily discharge is estimated for days when the gage height record is lost for any reason. These estimated figures are indicated by a suitable reference mark.

In the table of monthly and annual discharge the column headed "Maximum" gives the maximum daily discharge and not the maximum instantaneous discharge. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" is 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 "Corrected" give the discharge adjusted for diversion and the effect of storage above the station.

The monthly mean for any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing 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 or by inability to interpret the effect of artificial regulation of the flow of the river above the station. "Second-feet per square mile" and "run-off in inches" are not computed if such errors appear probable.

ACKNOWLEDGEMENTS

Valuable assistance was rendered or records furnished by the United States Geological Survey, Albany, N. Y.; United States Weather Bureau; United States Army Engineers; North Jersey District Water Supply Commission; Morris Canal & Banking Co.; Newark Water Department; Jersey City Water Department; Trenton Water Department; Atlantic City Water Department; City of New Brunswick; towns of Morristown and Irvington; boroughs of Pompton Lakes and Princeton; Hackensack Water Co.; The Society for Establishing Useful Manufactures; Jersey Central Power & Light Co.; Taylor-Wharton Iron and Steel Co.; and Warren Manufacturing Co.

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.

Special acknowledgement is due Mr. Otto Lauterhahn, associate engineer, who had charge of the detail work in assembling material for this report. The following persons have also assisted in collecting and computing the records during the period of the report, R. E. Marsh, W. L. Heckler, E. G. Barron, J. T. Tucker, Mrs. A. B. Savidge, and Mrs. A. L. Wilson.

GAGING-STATION RECORDS

Hackensack River at New Milford

LOCATION.- Water-stage recorder at pumping plant of Hackensack Water Co., New Milford, Bergen County, 3½ miles below mouth of Dwars Kill. Zero of gage was 6.20 feet above mean sea level to Sept. 25, 1934 and 6.25 feet thereafter.

DRAINAGE AREA.- 113 square miles.

RECORDS AVAILABLE.- October 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years, 170 second-feet, corrected for storage and diversions.

EXTREMES.- 1921-34: Maximum discharge, about 2 500 second-feet (revised) Sept. 2, 1927 and July 6, 1928; maximum gage height, 4.58 feet Sept. 2, 1927.

REMARKS.- Part of monthly and annual discharge table corrected for storage and diversions. Flow regulated by storage in Oradell Reservoir, 1 mile above gage. Water diverted at New Milford. Record of diversions and part of equipment furnished by Hackensack Water Co.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	581	101	136	19	25	397	81	354	63	19	2.8	2
2	819	89	143	38	18	464	75	293	54	21	2	2
3	536	72	10	84	18	707	72	278	42	13	2	2
4	29	74	9	61	12	391	109	278	21	2	2	2
5	3	41	88	30	14	687	218	200	2	15	2	2
6	2	2	91	378	16	857	214	154	23	15	2	3.7
7	2	12	45	246	986	750	204	563	31	10	2	2
8	2	22	32	71	1 150	454	102	470	47	2	2	2.2
9	2	13	16	3	490	289	49	175	58	3.2	2.5	2.8
10	2	21	2	† 5	382	266	159	109	45	7.1	2	2
11	13	23	2	† 100	243	190	235	109	28	2.3	2	2
12	2	21	10	† 120	128	167	345	116	20	2	2	2
13	2	21	30	56	112	124	557	355	12	2	2	4.1
14	3	21	30	45	75	445	251	472	9.9	2	2	2
15	2	25	29	45	72	725	128	203	4.3	2	2	2
16	2	23	22	42	75	358	642	54	6.2	2	2	2
17	60	25	46	57	75	181	879	54	2.2	2	2	2
18	154	27	66	93	72	181	290	52	12	2	2	2
19	158	19	29	78	75	176	93	201	21	2	2	3.6
20	118	19	27	56	78	162	166	384	24	2	2	2
21	30	14	23	54	54	120	273	305	16	2	2	2
22	4	14	21	54	40	116	424	399	10	2	2	2
23	84	23	21	63	40	250	431	214	8.6	3	2	2
24	31	68	25	78	38	298	196	110	2	2	2	2
25	7	154	27	56	38	97	188	69	7.2	2	2	2
26	2	145	18	56	450	97	952	75	3.3	2	2	2
27	15	120	5	56	857	87	712	69	2	2	2	2
28	81	52	11	45	744	87	412	61	14	2	3	2.2
29	58	32	5	27		84	694	81	39	2	2	2
30	16	16	11	25		146	552	87	26	2	2	2
31	136		12	25		172		78		2	2	

† Estimated

Hackensack River at New Milford
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2	40	3	136	34	132	38	72	45	14	2	2
2	2	40	4.5	141	38	154	36	75	32	14	† 2	2
3	2	42	10	145	40	141	34	75	21	9	† 2	2
4	2	56	7	154	61	112	32	57	12	11	† 2	2
5	2	81	5.5	112	295	90	45	14	3.7	6.2	† 2	2
6	14	84	4.5	90	180	84	145	2	8.5	18	† 2	2
7	243	84	6.5	87	72	81	447	2	23	21	† 2	2
8	490	84	8.5	81	87	531	570	2	12	18	† 2	2
9	277	78	11	81	75	503	322	2	18	14	† 2.4	2
10	4	45	14	87	63	107	207	11	21	14	2	2
11	2	25	14	78	56	105	145	3.8	81	12	2	2
12	2	29	12	69	54	228	145	2.9	72	12	2	2
13	2	29	14	112	112	204	145	2.3	56	14	2	2
14	2	29	64	188	157	172	141	10	40	16	2.7	2
15	2	29	136	472	145	141	136	5	23	12	2	2
16	2	30	48	397	112	120	177	6.3	7.5	12	2	2.6
17	2	36	101	137	93	109	306	45	6.8	13	2	2
18	2	83	105	140	84	105	361	78	12	2.7	2.2	2
19	2	159	486	218	78	105	214	97	18	2	3.8	2
20	2	97	492	154	128	97	164	105	21	8.3	2.2	2
21	2	101	276	141	158	97	93	81	11	2	2.4	2
22	2	79	214	128	185	87	130	66	2	2	2	2
23	3	61	214	93	190	78	144	52	8.7	4.2	2	2
24	2	63	177	72	200	50	94	42	2	2.7	2	2
25	2	43	109	69	214	65	64	91	2	2	2	2
26	2	7	90	58	238	463	45	63	8.2	2	2	2.4
27	2	4.8	72	54	274	546	40	58	14	2	2	2
28	2	6.5	72	52	213	231	48	56	22	2	2	2.4
29	2	3.5	75	52		78	72	90	21	2	2	2
30	20	4	75	45		42	69	84	11	2	2	2
31	40		101	34		38		61		2	2	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2	2	93	101	29	90	388	176	254	5	0	0
2	2.6	2	81	75	27	87	447	185	109	0	0	0
3	2	2	10	72	21	87	391	158	52	0	0	2
4	2	2	2	37	25	87	† 320	120	58	0	0	0
5	2	2	2	16	14	77	† 280	112	58	0	0	0
6	2.8	2	2	89	16	97	† 260	109	52	1	0	0
7	2	2	2	253	12	101	† 280	112	56	2	0	0
8	2	2	2	137	16	316	† 360	326	423	30	0	0
9	2	2	2	128	24	568	† 320	364	323	24	0	0
10	2	2	39	124	120	319	† 280	281	306	26	0	0
11	2	2	54	81	116	243	† 220	450	359	80	0	0
12	2	2	32	75	90	228	176	294	253	48	0	0
13	2	2	27	118	90	141	141	310	209	32	0	0
14	2	2	18	116	315	101	128	411	81	24	0	0
15	2	2	10	71	202	120	116	243	101	18	0	0
16	2	2	11	27	32	116	105	238	133	11	0	0
17	2	2	7.5	† 23	60	116	97	218	704	0	0	0
18	2	2	4.7	† 19	726	90	97	185	369	0	0	0
19	2	2	3.8	16	495	90	81	95	186	0	1	46
20	2	2	2	147	376	124	75	87	150	0	0	91
21	2	4.8	2	122	266	163	72	242	125	0	0	124
22	2	192	2	21	150	154	63	238	31	8	0	154
23	2	176	13	30	128	141	533	400	48	4	0	92
24	2	167	3.6	38	124	116	562	364	53	2	0	66
25	2	30	2	29	120	124	118	156	40	0	0	23
26	2	33	8.2	27	112	145	510	167	28	0	0	5
27	2	35	299	30	90	116	614	167	26	0	0	0
28	2	2	403	38	75	120	392	128	18	0	0	0
29	2	2	243	45		467	137	105	9	0	0	0
30	2	5.4	183	45		380	94	90	1	0	0	0
31	2		150	40		310		68		0	0	

† Estimated.

Hackensack River at New Milford
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	56	43	486	224	0	0	0	0
2	0	0	0	0	58	72	326	204	1	9	0	0
3	0	0	0	0	56	75	40	167	0	32	0	0
4	0	0	0	0	58	75	90	101	0	34	0	0
5	0	0	0	0	281	69	158	109	0	34	0	0
6	0	0	0	0	208	121	176	102	0	22	0	0
7	0	0	0	0	63	317	172	91	0	9	0	0
8	0	0	0	0	110	173	136	128	0	6	0	0
9	0	0	0	0	128	64	128	236	0	0	0	0
10	0	0	0	0	128	43	174	180	0	0	0	0
11	0	0	0	0	436	66	292	124	0	0	0	0
12	0	0	0	0	471	69	542	117	0	1	0	0
13	0	0	0	0	332	72	534	105	0	0	0	0
14	1	0	0	2	319	52	345	59	0	0	0	0
15	0	0	0	9	213	38	300	48	0	0	0	0
16	0	0	0	0	176	30	300	48	0	0	0	0
17	0	0	0	0	122	11	267	46	0	0	0	0
18	0	0	0	78	94	50	131	43	0	1	0	0
19	0	0	0	278	98	74	75	30	0	1	0	0
20	0	0	0	130	102	53	44	9	0	1	0	0
21	0	0	0	33	75	46	46	1	0	0	0	0
22	0	0	0	26	58	112	56	17	0	0	0	0
23	0	0	0	12	56	185	50	3	0	0	0	0
24	0	0	0	6	58	176	63	1	8	0	0	0
25	0	0	0	15	56	95	66	0	3	0	0	0
26	0	0	0	75	56	69	78	0	4	0	0	0
27	0	0	0	85	52	75	91	0	2	0	0	0
28	0	0	0	88	38	782	88	0	17	0	0	0
29	0	0	0	85	34	1 110	78	0	6	0	0	0
30	0	0	0	115		760	75	0	1	0	0	0
31	0		0	92		520		0		0	0	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	78	167	60	50	185	158	116	25	2	63
2	0	0	78	111	63	48	218	117	88	460	0	53
3	0	0	78	91	69	97	218	224	66	214	0	184
4	0	0	78	94	75	131	281	355	85	92	0	548
5	0	0	72	88	75	141	343	190	88	38	0	460
6	0	0	69	75	32	105	369	214	303	26	0	46
7	0	0	66	69	44	100	464	289	218	16	0	0
8	0	0	60	72	216	398	412	184	91	10	0	0
9	0	0	36	185	218	594	146	167	70	0	0	26
10	0	0	30	236	195	591	127	248	69	0	0	72
11	0	0	36	85	140	285	243	172	42	0	0	63
12	0	0	60	88	94	85	470	141	15	0	0	53
13	0	0	85	98	69	20	1 030	150	138	0	0	48
14	0	0	98	94	118	288	564	154	73	0	0	268
15	0	0	64	88	233	567	516	124	48	0	0	1 250
16	0	0	48	72	169	376	453	113	42	0	0	1 610
17	0	0	48	69	104	236	533	121	58	0	0	867
18	0	0	46	75	88	176	922	98	63	0	0	0
19	0	490	46	94	98	272	866	75	56	0	0	2
20	0	1 180	40	94	424	472	568	78	48	0	0	331
21	0	673	22	94	542	760	447	105	35	0	0	261
22	0	542	22	118	402	757	348	72	25	0	31	197
23	0	441	46	154	289	518	243	58	10	0	700	145
24	0	227	60	145	221	487	258	40	3	0	1 430	116
25	0	75	125	141	266	311	248	53	0	0	1 050	128
26	0	145	223	136	365	332	253	48	0	0	214	52
27	0	185	193	128	273	306	243	39	0	0	249	95
28	0	112	281	136	155	273	182	60	0	0	406	98
29	0	78	268	121		268	181	54	0	0	478	91
30	0	78	228	80		206	181	72	0	0	113	88
31	0		177	60		172		144		0	8	

Hackensack River at New Milford
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	58	36	51	50	11	834	128	78	1	0	0
2	187	53	21	98	50	14	632	124	53	0	0	0
3	418	48	16	98	48	169	436	519	53	0	0	0
4	807	36	63	82	66	443	491	928	50	1	0	0
5	2	35	66	200	66	1 370	313	490	48	0	0	0
6	0	65	87	337	60	1 380	238	423	43	0	0	0
7	0	47	80	365	58	1 100	365	388	46	0	0	0
8	0	43	53	657	50	961	326	197	13	0	0	1
9	0	43	63	616	50	451	243	722	2	0	0	195
10	0	43	42	447	27	144	218	166	8	0	0	254
11	0	36	16	326	18	17	272	236	0	0	0	187
12	0	36	3	284	20	19	555	185	8	0	0	50
13	0	38	3	248	20	24	278	132	48	0	0	34
14	0	78	14	294	22	22	337	185	40	0	0	41
15	0	74	17	238	22	25	412	209	34	0	0	285
16	0	5	47	195	26	28	384	278	24	0	0	434
17	1	8	63	150	20	28	491	190	16	0	0	428
18	15	28	109	56	11	73	343	176	4	0	0	336
19	98	27	124	41	10	204	321	154	813	0	0	119
20	88	30	174	82	12	200	321	124	702	0	0	233
21	75	34	258	34	22	154	268	121	59	0	0	199
22	46	38	188	85	56	99	218	111	118	0	0	133
23	42	43	130	308	91	82	204	300	190	0	0	221
24	71	36	132	382	43	109	176	72	91	0	0	153
25	178	33	124	200	36	136	315	180	75	0	0	43
26	103	32	167	172	28	90	178	310	53	0	0	112
27	27	98	221	190	28	132	232	214	32	0	0	41
28	81	55	69	154	19	402	182	125	25	0	0	21
29	60	9	66	204		339	109	132	11	0	0	57
30	60	15	53	145		158	124	158	5	0	0	1 080
31	58		30	78		375		113		0	0	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	819	2	95.4	134	1.19	1.37
November	154	2	43.6	104	.920	1.03
December	143	2	33.6	86	.761	.88
Calendar year, 1928	1 420	2	196	246	2.18	29.67
January, 1929	378	3	69.9	127	1.12	1.29
February	1 150	12	228	275	2.43	2.53
March	857	84	307	371	3.28	3.78
April	952	49	323	373	3.30	3.68
May	553	52	207	282	2.50	2.88
June	63	2	21.8	81.6	.722	.81
July	21	2	4.86	44.1	.390	.45
August	3	2	2.07	39.7	.351	.40
September	4.1	2	2.22	82.7	.732	.82
Year ending Sept. 30, 1929	1 150	2	111	166	1.47	19.92
October	490	2	36.7	115	1.02	1.18
November	159	3.5	51.8	108	.956	1.07
December	492	3	97.5	174	1.54	1.78
Calendar year, 1929	1 150	2	111	172	1.52	20.67
January, 1930	472	34	125	180	1.59	1.83
February	295	34	130	189	1.67	1.74
March	546	38	164	210	1.86	2.14
April	570	32	154	208	1.84	2.05
May	105	2	45.5	111	.982	1.13
June	81	2	21.2	76.9	.681	.76
July	21	2	8.64	52.7	.466	.54
August	3.8	2	2.12	59.4	.526	.61
September	2.6	2	2.05	43.3	.383	.43
Year ending Sept. 30, 1930	570	2	69.5	127	1.12	15.26

Hackensack River at New Milford
(Continued)

Monthly and annual discharge in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	2.8	2	2.05	33.5	0.296	0.34
November	192	2	22.9	140	1.24	1.38
December	403	2	55.3	107	.947	1.09
Calendar year, 1930	570	2	60.6	117	1.04	14.04
January, 1931	253	16	70.6	128	1.13	1.30
February	726	12	138	191	1.69	1.76
March	568	77	175	227	2.01	2.32
April	614	63	255	309	2.73	3.05
May	450	68	213	265	2.35	2.71
June	704	1	154	207	1.83	2.04
July	80	0	10.2	65.0	.575	.66
August	1	0	.03	49.4	.437	.50
September	154	0	20.1	48.9	.433	.48
Year ending Sept. 30, 1931	726	0	92.5	147	1.30	17.63
October	1	0	.03	36.0	.319	.37
November	0	0	0	38.8	.343	.38
December	0	0	0	74.1	.656	.76
Calendar year, 1931	726	0	85.7	136	1.20	16.33
January, 1932	278	0	36.4	140	1.24	1.43
February	471	34	138	190	1.68	1.81
March	1 110	11	177	213	1.88	2.17
April	542	40	180	249	2.20	2.46
May	236	0	70.7	122	1.08	1.24
June	17	0	1.4	57.6	.510	.57
July	34	0	4.8	34.6	.306	.35
August	0	0	0	21.3	.188	.22
September	0	0	0	12.9	.114	.13
Year ending Sept. 30, 1932	1 110	0	50.3	98.6	.873	11.89
October	0	0	0	55.8	.494	.57
November	1 180	0	141	288	2.55	2.84
December	281	22	92.3	144	1.27	1.46
Calendar year, 1932	1 180	0	69.7	127	1.12	15.25
January, 1933	236	60	108	154	1.36	1.57
February	542	32	182	215	1.90	1.98
March	760	20	304	354	3.13	3.61
April	1 030	127	384	442	3.91	4.36
May	355	39	133	182	1.61	1.86
June	303	0	61.7	110	.973	1.09
July	460	0	28.4	68.8	.609	.70
August	1 430	0	151	218	1.93	2.22
September	1 610	0	241	291	2.58	2.88
Year ending Sept. 30, 1933	1 610	0	151	209	1.85	25.14
October	807	0	80.6	134	1.19	1.37
November	98	5	40.8	91.3	.808	.90
December	258	3	81.8	125	1.11	1.28
Calendar year, 1933	1 610	0	149	198	1.75	23.82
January, 1934	657	41	222	274	2.42	2.79
February	91	10	36.8	93.9	.831	.87
March	1 380	11	283	338	2.99	3.45
April	834	109	327	378	3.35	3.74
May	928	72	251	301	2.66	3.07
June	813	0	91.4	149	1.32	1.47
July	1	0	0.1	48.9	.433	.50
August	0	0	0	35.8	.317	.37
September	1 080	0	155	231	2.04	2.28
Year ending Sept. 30, 1934	1 380	0	131	184	1.63	22.09

Passaic River near Millington

LOCATION.- Water-stage recorder at Davis Bridge, 1 mile upstream from Millington, Somerset County, and 1½ miles below mouth of Black Brook.

DRAINAGE AREA.- 55 square miles.

RECORDS AVAILABLE.- November 1921 to September 1934. At Millington three-fourths of a mile downstream, November 1903 to July 1906.

AVERAGE DISCHARGE.- 13 years (1921-34), 81.4 second-feet.

EXTREMES.- 1903-06, 1921-34: Maximum discharge, about 2,000 second-feet Mar. 8, 1904 (gage height, 7.50 feet old datum); minimum, 0.9 second-foot on several days in August 1932.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	63	21	120	38	‡ 15	565	71	256	71	18	7.5	5.7
2	59	25	130	121	16	400	67	208	56	18	8.7	5.7
3	54	25	106	113	15	345	59	174	48	16	7.1	3.1
4	52	30	96	70	15	319	54	154	44	14	8.7	3.1
5	49	40	80	† 65	15	345	63	138	40	14	9.5	6.1
6	52	36	67	† 130	16	490	144	128	42	14	7.1	8.7
7	52	29	50	† 550	267	430	154	231	37	14	7.5	12
8	42	28	41	† 150	400	293	128	208	43	13	7.9	39
9	38	25	38	† 65	345	256	102	164	49	12	6.8	37
10	44	25	36	† 38	243	185	86	136	38	12	4.4	27
11	40	26	34	† 270	164	144	93	106	33	12	7.1	17
12	38	24	30	† 200	103	114	206	91	30	11	7.5	12
13	40	25	31	‡ 130	48	108	332	120	27	10	6.8	12
14	28	23	37	‡ 90	33	164	256	126	25	9.9	7.1	11
15	23	23	39	64	31	256	185	126	25	9.9	18	15
16	27	20	34	47	30	256	260	113	25	9.9	14	11
17	26	22	38	39	29	231	460	93	25	9.9	7.9	13
18	25	23	55	46	33	174	400	80	31	9.5	8.3	29
19	42	22	60	96	36	140	293	110	23	14	18	18
20	51	27	47	105	‡ 22	120	196	268	20	15	16	11
21	44	26	36	‡ 83	‡ 16	106	164	243	20	12	12	12
22	38	24	27	56	27	100	196	256	20	11	8.3	7.5
23	40	27	23	54	‡ 22	121	208	185	† 20	11	7.9	9.5
24	48	28	17	64	‡ 19	185	164	150	† 19	11	10	7.9
25	41	25	19	47	27	154	156	174	† 20	10	† 10	5.7
26	27	22	18	‡ 38	204	134	630	140	† 30	9.9	† 10	7.9
27	25	23	19	‡ 28	665	113	630	108	† 28	9.5	† 10	8.3
28	22	21	29	‡ 22	735	98	460	90	† 30	9.1	† 12	4.4
29	23	22	36	‡ 19		83	460	80	29	8.7	† 10	7.1
30	25	33	29	‡ 17		73	345	88	20	8.3	† 9	7.1
31	23		26	‡ 16		71		86		7.9	7.5	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice

Passaic River near Millington
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.4	26	† 26	98	21	174	38	33	15	20	7.4	6.4
2	33	25	† 22	91	21	126	40	42	16	80	8.6	9.6
3	102	75	† 18	105	25	‡ 120	35	37	11	50	8.6	6.0
4	83	164	† 15	110	36	‡ 100	35	30	12	27	8.6	6.9
5	49	138	† 15	85	116	‡ 95	35	25	12	20	7.8	6.4
6	35	108	† 16	‡ 54	110	73	34	23	11	16	6.9	6.4
7	17	80	18	† 55	† 75	432	114	22	9.1	16	6.0	6.0
8	22	58	28	† 60	† 55	525	140	24	12	15	5.6	6.4
9	16	47	38	† 75	† 44	† 400	108	36	17	14	5.6	6.0
10	15	36	31	† 55	37	† 200	78	30	154	31	5.6	5.6
11	14	32	25	50	34	† 120	60	23	293	24	4.8	6.9
12	13	29	† 19	† 48	31	† 170	54	20	219	18	4.8	3.3
13	14	30	† 19	† 46	59	† 154	55	18	174	15	3.9	5.2
14	10	30	56	† 46	152	† 120	64	17	138	14	5.2	108
15	12	35	84	† 46	118	† 110	58	36	91	17	5.6	150
16	14	38	80	† 54	67	† 100	71	37	59	14	11	110
17	9.1	36	58	67	† 50	91	103	27	42	9.1	6.9	75
18	12	102	164	130	† 50	81	105	24	39	12	8.6	47
19	7.4	174	460	‡ 150	† 55	83	103	27	36	6.9	4.3	30
20	11	134	430	‡ 120	† 85	83	90	30	28	11	6.4	21
21	11	108	‡ 340	93	† 120	71	67	27	23	11	6.9	19
22	27	81	‡ 240	75	134	60	64	22	20	11	6.9	16
23	100	60	‡ 110	59	134	51	60	22	20	41	19	15
24	93	50	‡ 80	52	140	49	51	18	16	43	29	12
25	64	46	73	42	154	55	47	24	15	43	15	12
26	48	46	55	‡ 30	243	75	43	25	14	33	12	14
27	36	† 42	50	25	319	66	39	20	29	26	6.9	9.6
28	25	† 38	54	25	268	55	36	21	21	21	9.6	9.1
29	23	† 34	77	27		49	35	23	14	15	5.6	9.1
30	17	29	93	26		46	32	21	14	14	6.4	8.6
31	25		98	22		42		18		11	6.4	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	16	48	† 44	18	58	290	55	59	14	30	24
2	7.8	15	‡ 42	† 30	14	61	309	50	54	14	26	18
3	9.6	7.8	24	† 26	‡ 11	56	263	50	42	16	23	56
4	5.2	7.8	20	26	‡ 10	54	208	46	35	12	29	83
5	5.2	17	18	44	‡ 9	54	154	38	27	16	25	71
6	6.9	26	21	196	‡ 9	52	120	36	25	25	20	61
7	7.8	† 16	25	172	‡ 9	48	110	36	36	37	21	46
8	7.8	† 10	26	123	9.1	160	123	59	144	32	18	27
9	7.8	† 9	23	81	19	394	114	91	156	24	12	20
10	8.6	† 9	22	59	51	358	96	87	154	62	16	15
11	10	† 9	20	44	55	273	85	103	187	185	19	16
12	10	† 9	20	36	55	178	75	98	172	205	46	14
13	6.0	† 9	† 19	‡ 32	66	123	63	96	136	113	44	12
14	6.0	† 10	† 17	‡ 26	191	102	55	100	108	64	36	12
15	7.4	† 50	† 16	‡ 18	173	87	47	100	71	84	29	18
16	8.6	84	† 14	16	103	80	44	81	73	94	32	17
17	6.9	123	† 13	15	92	71	40	64	154	87	24	15
18	7.4	194	† 12	16	286	61	37	50	160	80	18	16
19	8.2	201	† 11	28	316	58	34	42	134	64	16	11
20	7.8	152	† 11	51	232	67	32	37	120	48	14	11
21	6.4	123	11	51	142	81	31	67	91	51	15	12
22	5.6	98	10	37	98	73	28	106	50	90	14	14
23	4.8	75	10	25	83	61	61	128	40	90	12	11
24	5.6	56	11	20	73	54	69	134	37	84	12	10
25	6.0	50	† 11	18	67	69	54	100	34	83	15	8.6
26	7.8	44	† 15	18	63	87	72	77	27	69	10	10
27	7.4	37	† 110	25	61	77	154	59	25	49	11	12
28	6.0	† 32	201	34	55	69	120	46	22	37	37	10
29	7.4	† 18	192	32		350	100	38	17	35	39	11
30	9.1	20	146	27		430	75	35	17	36	43	6.0
31	15		† 100	23		348		31		32	36	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Passaic River near Millington
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	20	20	18	‡ 55	41	358	60	13	7.6	1.2	1.9
2	5.6	15	16	94	42	36	290	125	13	19	1.4	16
3	10	14	14	158	47	32	212	91	13	16	1.9	12
4	4.8	11	18	130	105	29	158	67	10	10	6.4	5.8
5	7.8	11	58	111	181	29	121	52	11	13	5.1	9.4
6	8.2	12	46	146	170	48	105	41	9.8	11	1.5	21
7	5.2	7.4	30	354	138	176	87	49	12	11	1.2	14
8	9.6	11 ‡	24	364	134 ‡	160	78	50	9.8	7.8	1.7	5.6
9	11	7.8	18	358	114 ‡	130	75	52	6.9	7.4	1.9	7.4
10	15	11	55	348	94 ‡	100	96	44	7.8	5.6	1.7	1.7
11	6.0	10	67	280	123 ‡	70	144	38	9.1	4.8	2.1	1.2
12	7.8	11	63	212	126	60	242	40	10	3.0	2.7	1.0
13	6.4	9.6	54	164	116	51	253	52	22	3.0	1.7	1.2
14	8.2	10	52	130	100	38	205	44	19	4.3	1.2	1.5
15	10	6.4	46	106	83	† 36	164	37	15	2.1	1.0	1.7
16	17	10	36	91	66	† 40	126	32	13	4.8	.9	3.6
17	20	7.4	30	75	59	† 48	103	27	16	1.7	.9	4.8
18	9.6	11	27	66	71	† 55	87	24	14	5.5	1.4	3.9
19	10	11	27	58	60	56	75	21	10	4.3	7.8	2.7
20	9.6	12	25	48	48	56	63	20	10	1.7	2.7	3.0
21	6.0	12	26	43	37	48	58	20	11	1.7	2.4	2.7
22	9.1	11	26	47	36	74	54	17	10	1.9	2.1	2.7
23	5.2	11	46	51	38	142	49	17	13	5.9	1.7	3.0
24	8.6	11	52	71	26	113	42	16	8.2	6.7	1.4	2.4
25	8.2	7.4	44	66	23	98	41	15	8.7	1.5	1.2	1.9
26	6.4	11	36	54	27	84	43	14	7.7	3.4	1.2	1.7
27	7.4	7.4	21	67	30	83	47	14	7.8	3.5	1.0	1.9
28	3.9	14	21	75	34	395	40	23	19	1.4	1.0	6.0
29	13	7.8	18	61	41	630	36	21	17	1.2	1.2	10
30	22	16	14	73		508	35	16	9.7	1.2	1.0	4.8
31	23		16	‡ 75		394		13		1.2	1.0	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	144	† 75	† 95	† 40	104	111	64	102	28	6.1	75
2	3.0	374	† 70	† 70	† 36	91	127	59	74	33	5.7	56
3	2.7	290	67	† 50	† 38	84	129	65	55	42	5.0	62
4	2.7	240	65	† 46	† 36	75	160	86	48	40	12.8	172
5	3.6	196	63	† 44	† 34	67	169	64	61	36	14.8	244
6	27	147	58	† 42	† 32	58	† 140	80	96	30	8.9	210
7	55	303	51	† 40	† 34	68	† 180	161	86	22	8.4	167
8	41	458	50	† 42	† 200	246	† 200	143	72	19.5	4.3	153
9	20	398	46	† 50	† 100	252	† 250	125	56	14.3	4.6	99
10	13	736	† 44	† 65	† 50	194	† 220	149	47	15.4	5.0	75
11	10	806	† 40	† 75	† 90	151	† 210	143	34	11.2	23	55
12	7.8	702	† 50	† 95	† 60	115	† 250	120	31	13.8	25	40
13	5.6	504	† 60	† 75	† 40	108	† 340	101	37	12.6	16.5	33
14	5.2	328	† 55	† 60	† 40	183	319	89	33	11.6	31	93
15	5.2	229	† 50	† 55	† 85	212	240	81	28	10.3	27	650
16	5.6	169	† 42	† 46	† 95	191	185	74	23	25	18.9	934
17	13.4	145	† 38	† 40	† 55	160	240	86	25	38	13.2	916
18	246	129	† 46	† 38	† 60	131	377	83	25	31	19.5	770
19	353	368	† 40	† 50	† 100	134	300	64	21	23	20	568
20	238	788	† 34	† 65	† 300	237	234	56	18.9	17.6	25	398
21	194	736	† 26	† 60	† 260	458	181	67	17.0	14.8	26	275
22	154	568	28	† 60	† 160	504	152	59	16.0	9.8	102	204
23	102	368	30	† 75	† 200	398	134	50	14.8	11.2	198	156
24	65	250	39	† 90	† 220	282	118	46	15.4	9.8	429	125
25	46	189	† 180	† 75	† 180	210	109	44	12.1	6.8	489	106
26	38	169	† 140	† 85	† 170	183	99	40	15.4	6.4	443	91
27	65	† 150	† 120	† 80	† 130	183	89	38	17.4	8.9	368	77
28	91	† 120	† 240	† 75	156	169	81	42	20	6.8	278	70
29	78	† 100	† 180	† 65		149	75	42	22	6.8	212	61
30	61	85	† 140	† 55		124	71	75	22	6.4	154	55
31	48		† 130	† 46		109		89		6.4	108	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Passaic River near Millington
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	32	23	† 30	† 37	21	500	59	52	18.9	11.6	6.8
2	83	31	21	† 65	† 42	21	458	54	43	16.5	9.8	6.8
3	108	30	21	† 57	† 39	44	362	126	38	15.4	14.8	6.8
4	72	30	25	52	† 34	252	282	242	34	18.9	14.8	10.8
5	60	28	31	85	† 29	824	242	234	33	17.6	10.3	13.8
6	52	32	32	196	† 27	897	198	191	30	15.4	9.8	10.7
7	49	36	32	292	† 25	618	196	134	28	14.8	8.4	10.7
8	47	38	34	504	† 23	389	206	92	25	23	7.5	71
9	42	38	29	458	† 22	225	174	74	23	23	8.0	179
10	38	38	‡ 24	347	† 22	153	145	67	26	16.5	12.5	178
11	34	36	17.6	244	† 21	‡ 91	132	89	32	14.8	13.8	142
12	33	36	14.8	187	† 22	‡ 104	244	78	29	14.3	15.7	113
13	33	35	12.6	151	† 30	81	234	63	† 45	14.3	42	72
14	32	36	14.3	163	† 25	115	206	56	† 40	13.2	30	49
15	30	36	13.2	152	† 22	124	176	65	† 26	14.3	16.5	78
16	28	29	17.0	131	† 21	115	174	94	21	15.4	17.9	136
17	40	26	25	‡‡ 101	† 20	115	246	78	20	13.2	34	230
18	70	28	52	‡‡ 84	† 20	127	210	60	19.5	11.6	26	250
19	65	‡‡ 28	55	71	† 20	127	174	48	† 300	9.8	18.2	204
20	52	‡‡ 26	70	58	† 20	116	160	43	† 270	9.3	14.8	161
21	44	‡‡ 25	125	49	† 21	104	143	52	† 200	9.8	12.1	120
22	39	‡‡ 30	131	43	† 25	97	120	52	† 150	9.8	9.8	88
23	36	26	113	98	† 36	71	99	91	72	9.3	9.8	72
24	36	22	106	156	† 33	‡ 62	89	74	51	8.4	10.3	63
25	55	24	88	134	† 28	58	111	88	36	17.5	11.6	60
26	51	23	49	104	† 24	61	101	202	28	18.1	11.2	50
27	46	25	48	81	† 21	74	86	192	25	13.2	9.3	42
28	43	24	‡‡ 31	80	† 21	238	81	152	25	13.4	8.9	37
29	38	24	‡‡ 25	‡‡ 50		267	70	99	28	23	8.9	36
30	36	23	† 23	‡‡ 32		212	63	80	21	16	8.4	249
31	35		† 24	‡‡ 33		216		65		13.2	7.5	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	63	22	38.7	0.704	0.81
November	40	20	25.7	.467	.52
December	130	17	46.7	.849	.98
Calendar year, 1928	665	17	110	2.00	27.14
January, 1929	550	16	92.6	1.68	1.94
February	735	15	128	2.33	2.43
March	565	71	212	3.85	4.44
April	630	54	234	4.25	4.74
May	268	80	149	2.71	3.12
June	71	19	32.3	.587	.65
July	18	7.9	11.8	.215	.25
August	18	4.4	9.44	.172	.20
September	39	3.1	12.5	.227	.25
Year ending Sept. 30, 1929	735	3.1	82.5	1.50	20.33
October	102	6.4	31.4	.571	.66
November	174	25	64.4	1.17	1.30
December	460	15	93.3	1.70	1.96
Calendar year, 1929	735	3.1	89.0	1.62	21.94
January, 1930	150	22	65.2	1.19	1.37
February	319	21	98.3	1.79	1.86
March	525	42	128	2.33	2.69
April	140	32	63.1	1.15	1.28
May	42	17	25.9	.471	.54
June	293	9.1	52.5	.955	1.07
July	80	6.9	22.5	.409	.47
August	29	3.9	8.25	.150	.17
September	150	3.3	24.9	.453	.51
Year ending Sept. 30, 1930	525	3.3	56.2	1.02	13.88

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice or debris.

Passaic River near Millington
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	15	4.8	7.56	0.137	0.16
November	201	7.8	50.9	.925	1.03
December	201	10	40.0	.727	.84
Calendar year, 1930	525	3.3	48.6	.88	11.99
January, 1931	196	15	44.9	.816	.94
February	316	9	84.6	1.54	1.60
March	430	48	132	2.40	2.77
April	309	28	102	1.85	2.06
May	134	31	69.0	1.25	1.44
June	187	17	80.2	1.46	1.63
July	205	12	62.3	1.13	1.30
August	46	10	23.9	.435	.50
September	83	6.0	22.3	.405	.45
Year ending Sept. 30, 1931	430	4.8	59.8	1.09	14.72
October	23	3.9	9.78	.178	.21
November	20	6.4	10.9	.198	.22
December	67	14	33.7	.613	.71
Calendar year, 1931	430	3.9	56.1	1.02	13.83
January, 1932	364	18	129	2.35	2.71
February	181	23	76.7	1.39	1.50
March	630	29	125	2.27	2.62
April	358	35	116	2.11	2.35
May	125	13	37.2	.676	.78
June	22	6.9	11.9	.216	.24
July	19	1.2	5.59	.102	.12
August	7.8	.9	1.99	.036	.04
September	21	1.0	5.22	.095	.11
Year ending Sept. 30, 1932	630	.9	46.8	.851	11.61
October	353	2.7	64.6	1.17	1.35
November	806	85	340	6.18	6.90
December	240	26	74.1	1.35	1.56
Calendar year, 1932	806	.9	81.8	1.49	20.28
January, 1933	95	38	61.6	1.12	1.29
February	300	32	107	1.95	2.03
March	504	58	182	3.31	3.82
April	377	71	183	3.33	3.72
May	161	38	80.2	1.46	1.68
June	102	12.1	38.2	.695	.78
July	42	6.4	18.3	.333	.38
August	489	4.3	100	1.82	2.10
September	934	33	232	4.22	4.71
Year ending Sept. 30, 1933	934	2.7	123	2.24	30.32
October	108	28	47.6	.865	1.00
November	38	22	29.8	.542	.60
December	131	12.6	42.8	.778	.90
Calendar year, 1934	934	2.7	93.1	1.69	23.01
January, 1934	504	30	138	2.51	2.89
February	42	20	26.1	.475	.49
March	897	21	194	3.53	4.07
April	500	63	189	3.44	3.84
May	242	43	99.8	1.81	2.09
June	300	19.5	59.0	1.07	1.19
July	23	8.4	14.9	.271	.31
August	42	7.5	14.3	.260	.30
September	250	6.8	91.5	1.66	1.85
Year ending Sept. 30, 1934	897	6.8	79.3	1.44	19.53

Passaic River at Paterson

LOCATION.- At hydroelectric plant of The Society for Establishing Useful Manufactures in Paterson, Passaic County. Zero of gage is at mean sea level.

DRAINAGE AREA.- 785 square miles.

RECORDS AVAILABLE.- January 1898 to September 1934.

AVERAGE DISCHARGE.- 36 years, 1 453 second-feet, corrected for storage and diversions.

EXTREMES.- 1898-34: Maximum daily discharge, 28 000 second-feet Oct. 10, 1903; no flow on July 3-5, 1904, July 16, and 23, 1905.

REMARKS.- Daily discharge represents total flow just above Great Falls. Part of monthly and annual discharge table corrected for storage and diversions. Flow regulated by storage in Wanaque, Newark, and Jersey City reservoirs and Greenwood Lake. Diversions for municipal uses above station. Base data furnished by John H. Cook, deputy governor, The Society for Establishing Useful Manufactures; North Jersey District Water Supply Commission; Passaic Valley Water Commission; Newark waterworks; Jersey City waterworks; Commonwealth Water Co.; and East Orange waterworks.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	405	237	683	411	288	2 643	1 439	3 727	888	362	38	130
2	393	67	796	685	257	3 067	1 011	3 441	806	319	39	37
3	389	163	743	729	232	3 208	848	3 183	594	299	53	33
4	388	315	671	652	234	3 214	730	2 830	383	123	95	32
5	300	393	646	768	229	3 830	911	2 608	448	147	77	31
6	383	460	500	2 044	363	5 036	1 270	2 433	399	245	76	31
7	267	388	456	2 649	2 134	5 116	1 381	2 800	391	139	42	173
8	401	301	414	1 708	2 226	4 325	1 345	2 569	437	128	41	427
9	228	255	302	1 599	1 833	3 610	1 317	2 264	465	140	40	434
10	308	223	310	1 903	1 670	2 892	1 271	2 138	452	78	90	417
11	293	267	209	2 032	1 509	2 629	1 293	1 955	402	49	117	335
12	264	271	262	1 899	1 397	2 442	1 834	1 815	287	40	42	234
13	237	250	198	1 631	1 339	2 465	2 510	1 914	343	158	42	77
14	183	268	261	1 359	1 203	2 936	2 382	1 795	210	97	58	95
15	199	162	234	1 352	800	3 347	2 270	1 821	227	55	280	148
16	224	243	262	1 225	613	3 305	3 623	1 764	197	48	74	53
17	203	174	296	920	489	3 105	4 310	1 597	144	51	118	166
18	260	141	432	735	450	2 829	4 090	1 305	173	53	92	313
19	351	238	560	986	518	2 710	3 848	1 310	229	79	120	343
20	213	282	464	1 098	497	2 574	3 504	1 859	273	146	206	215
21	210	249	391	938	422	2 416	3 306	2 087	294	117	95	133
22	225	263	303	747	401	2 279	3 347	2 234	200	45	43	149
23	284	194	232	686	457	2 208	3 091	2 020	165	131	96	39
24	251	253	215	564	406	2 148	2 749	1 868	107	116	134	89
25	229	231	238	519	419	2 089	2 861	1 847	220	34	54	87
26	272	247	183	492	1 194	2 043	3 851	1 691	389	30	44	51
27	219	149	147	474	2 303	2 018	3 744	1 473	353	100	42	53
28	211	180	228	430	2 652	1 901	3 812	1 292	278	104	38	111
29	135	166	325	241		1 744	4 439	1 278	456	32	43	81
30	256	319	292	251		1 676	4 114	1 210	504	29	39	30
31	114		303	318		1 592		1 035		29	56	

Passaic River at Paterson
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	233	251	1 331	427	1 704	619	733	343	376	45	67
2	692	299	245	1 316	481	1 733	702	757	297	564	90	170
3	1 286	523	258	1 334	423	1 632	689	854	252	822	98	117
4	925	726	220	1 349	572	1 468	573	757	162	726	48	79
5	681	754	210	1 158	1 265	1 329	531	717	238	419	51	31
6	622	757	193	875	1 195	1 174	717	499	129	459	47	134
7	553	764	210	849	1 027	1 151	1 985	287	179	525	49	94
8	343	669	252	809	998	2 698	2 426	279	147	420	32	36
9	277	620	316	845	841	3 614	2 088	356	197	270	28	99
10	240	545	374	855	704	3 266	1 799	398	1 136	245	52	31
11	101	338	326	845	523	3 099	1 690	220	1 661	252	34	31
12	192	209	291	686	443	3 140	1 563	225	1 449	216	33	31
13	133	295	302	1 021	685	2 964	1 443	242	1 322	244	30	30
14	87	256	544	1 410	1 099	2 677	1 389	219	1 249	240	30	28
15	113	312	769	2 149	1 174	2 378	1 335	361	1 108	229	28	187
16	68	398	885	2 006	935	2 117	1 361	656	1 030	139	27	290
17	115	344	756	1 657	763	1 891	1 502	392	785	142	85	459
18	103	807	1 455	1 861	901	1 692	1 691	406	797	125	54	244
19	63	1 275	2 757	1 604	753	1 561	1 629	465	721	139	79	242
20	100	966	2 913	1 552	861	1 399	1 590	423	604	68	151	201
21	53	988	2 441	1 519	1 178	1 335	1 359	410	409	78	66	103
22	325	869	2 116	1 418	1 367	1 203	1 351	363	319	61	107	206
23	1 372	843	1 798	1 334	1 426	1 020	1 303	368	215	43	398	42
24	1 407	589	1 659	1 081	1 500	730	1 100	347	280	142	485	90
25	1 061	555	1 589	937	1 584	1 017	1 000	495	130	215	449	172
26	712	539	1 478	717	1 790	1 263	774	501	291	290	179	54
27	491	385	1 348	628	1 784	1 330	708	456	350	282	201	112
28	427	531	1 317	641	1 746	1 122	716	339	763	193	68	167
29	355	320	1 400	536		1 006	664	438	397	91	183	86
30	309	298	1 440	538		803	700	480	419	156	68	80
31	321		1 392	371		931		423		48	128	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	105	320	813	197	646	2 532	1 763	1 510	345	213	289
2	56	40	294	716	230	722	3 003	1 579	1 783	119	69	370
3	32	74	301	721	190	574	2 965	1 481	1 485	269	211	379
4	153	143	301	547	173	681	2 789	1 317	1 271	249	224	382
5	28	163	228	698	89	621	2 647	1 092	955	127	215	436
6	31	201	231	1 317	149	620	2 410	937	772	279	184	407
7	32	229	236	1 391	177	629	2 357	826	734	372	133	339
8	31	244	226	1 039	153	1 782	2 519	1 772	1 730	398	102	283
9	32	182	178	1 105	342	2 707	2 311	3 026	2 393	380	89	279
10	31	87	214	1 002	460	2 457	2 024	2 850	2 588	724	88	259
11	30	147	187	839	480	1 987	1 890	2 652	2 812	1 498	172	97
12	28	28	167	757	481	1 796	1 707	2 425	2 585	1 554	228	133
13	30	142	222	546	592	1 666	1 462	2 368	2 265	1 435	231	34
14	31	53	253	442	983	1 656	1 312	2 310	1 974	1 412	234	55
15	30	497	107	307	785	1 454	1 041	2 243	1 723	1 393	306	51
16	31	743	104	258	824	1 323	856	2 013	2 051	1 231	239	100
17	31	1 365	51	318	1 049	1 131	751	1 763	3 897	1 178	175	118
18	29	1 660	130	233	2 156	917	732	1 544	3 953	999	229	103
19	28	1 572	130	402	1 947	793	609	1 350	3 062	994	235	180
20	31	1 305	118	526	1 670	902	507	1 239	2 604	966	104	88
21	32	1 104	127	530	1 566	899	513	1 261	2 254	878	138	28
22	32	1 065	56	463	1 427	965	507	1 756	1 870	742	158	60
23	32	930	68	304	1 358	758	1 164	2 118	1 607	664	146	93
24	87	685	192	317	1 315	706	2 409	2 083	1 463	674	130	88
25	57	703	222	239	1 154	748	1 963	1 868	1 293	629	166	60
26	42	518	181	220	947	886	2 262	1 737	928	596	111	104
27	32	396	879	234	845	984	2 820	1 586	759	431	91	78
28	31	347	1 264	243	735	1 016	2 638	1 209	652	411	636	95
29	46	219	1 079	300		2 081	2 361	1 255	511	356	550	61
30	100	221	909	301		2 376	2 021	1 024	427	235	403	66
31	130		783	306		2 313		853		190	388	

Passaic River at Paterson
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	170	188	160	685	566	4 400	754	72	131	53	5
2	39	198	217	310	567	566	4 650	1 200	142	172	63	5
3	58	72	194	880	508	537	4 220	1 210	107	283	41	41
4	60	131	214	887	573	478	3 520	1 100	154	259	96	36
5	23	9	223	831	1 040	415	2 960	971	101	345	66	2
6	32	68	321	972	1 120	506	2 600	875	52	256	68	167
7	30	14	299	1 530	1 040	1 180	2 200	685	125	284	154	69
8	28	82	141	1 670	1 180	1 290	1 840	713	91	230	87	103
9	39	4	204	1 650	1 180	1 080	1 670	1 150	88	179	21	6
10	105	58	301	1 660	1 160	1 010	1 670	1 090	95	166	135	47
11	128	70	466	1 590	2 150	991	1 880	1 050	83	79	72	89
12	21	36	480	1 520	2 560	874	2 570	988	16	142	11	20
13	43	31	456	1 460	2 100	767	2 920	853	50	109	32	19
14	42	23	435	1 470	1 640	530	2 580	836	245	173	43	6
15	39	28	464	1 340	1 410	437	2 340	638	192	62	22	6
16	163	4	360	1 190	1 260	416	2 200	479	100	99	32	6
17	237	24	333	1 050	1 120	310	2 010	463	266	127	17	54
18	96	54	279	892	1 110	498	1 760	321	370	158	39	59
19	101	5	168	719	973	620	1 500	331	345	185	67	11
20	16	48	146	564	926	611	1 330	311	282	89	11	6
21	71	40	206	406	744	590	1 230	306	170	34	7	6
22	17	168	227	448	691	732	1 050	229	284	44	88	27
23	7	24	298	517	598	1 040	932	196	256	145	48	6
24	5	55	181	684	562	1 100	800	250	219	79	5	4
25	2	61	390	680	477	1 040	708	191	229	67	53	30
26	100	198	352	581	458	1 060	618	127	126	59	5	17
27	53	152	304	677	482	1 010	705	145	134	64	68	6
28	84	117	220	767	451	2 620	789	220	236	43	23	75
29	36	232	163	714	530	3 810	693	122	149	109	21	6
30	50	201	152	742		3 260	647	273	202	51	5	37
31	166		166	806		3 400		232		89	33	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	864	1 880	1 780	906	1 900	2 290	1 440	927	328	66	2 270
2	19	2 490	1 740	1 600	878	1 740	2 620	1 240	882	1 420	69	2 030
3	137	2 140	1 560	1 560	863	1 620	2 770	1 270	795	1 040	49	1 960
4	14	1 630	1 450	1 380	826	1 480	2 940	1 860	755	731	207	2 510
5	69	1 390	1 310	1 310	740	1 390	3 080	1 700	712	564	120	3 010
6	311	1 290	1 230	1 250	538	1 240	2 920	1 580	1 250	413	165	2 660
7	399	1 830	1 160	1 130	656	1 090	3 480	2 000	1 320	358	160	2 270
8	539	2 220	1 040	1 050	1 110	2 080	3 470	1 860	1 100	220	56	1 920
9	408	2 020	950	1 030	1 460	2 600	3 390	1 940	951	259	114	1 760
10	369	4 280	865	1 090	1 020	2 340	3 090	1 830	868	186	47	1 710
11	330	4 960	779	1 150	1 010	2 030	2 840	1 840	756	205	153	1 520
12	87	4 990	859	1 220	1 080	1 970	3 110	1 730	640	205	161	1 270
13	107	4 560	933	1 260	1 150	1 890	4 290	1 660	628	134	165	1 130
14	94	3 920	948	1 190	1 190	2 350	4 290	1 620	660	115	264	1 120
15	33	3 350	890	1 110	1 240	2 710	4 300	1 530	472	144	314	4 830
16	139	2 890	665	952	1 090	2 710	4 070	1 370	412	177	210	6 330
17	58	2 630	661	964	1 140	2 460	4 510	1 340	384	251	208	7 400
18	951	2 380	404	889	1 120	2 230	6 400	1 280	408	160	205	7 950
19	1 470	3 880	628	879	1 180	2 160	7 170	1 130	355	185	224	7 130
20	1 330	7 680	673	991	1 790	2 540	6 390	1 050	363	155	277	5 800
21	1 240	8 200	575	1 040	2 780	3 750	5 400	1 070	337	157	343	4 850
22	1 120	7 370	599	987	2 700	4 820	4 270	1 000	220	121	961	4 180
23	958	6 060	596	1 220	2 710	5 050	3 660	829	303	141	1 650	3 560
24	939	5 060	661	1 260	2 810	4 830	3 160	738	156	167	2 200	3 110
25	841	4 400	1 030	1 190	2 800	4 170	2 730	695	157	66	6 620	2 700
26	767	3 950	1 380	1 270	2 730	3 950	2 480	625	205	148	5 590	2 360
27	748	3 450	1 320	1 310	2 380	3 750	2 210	607	166	110	4 210	2 080
28	786	2 800	1 710	1 260	2 070	3 350	1 860	543	218	141	3 380	1 780
29	660	2 460	1 740	1 280		3 060	1 700	565	105	112	3 000	1 570
30	558	2 290	1 780	1 220		2 630	1 630	709	171	132	2 750	1 400
31	522		1 810	1 060		2 300		828		76	2 500	

Passaic River at Paterson
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 220	434	259	648	767	282	4 860	1 280	1 310	334	157	87
2	1 330	385	302	826	707	283	5 520	1 140	1 150	301	108	116
3	1 260	370	286	844	564	487	5 260	1 480	937	185	92	142
4	1 150	402	335	858	470	1 140	4 740	2 500	767	336	111	251
5	1 040	376	298	1 040	469	2 690	4 250	2 530	657	331	190	93
6	1 010	384	362	1 570	458	3 460	3 710	2 330	542	162	43	127
7	899	393	411	2 190	453	4 420	3 580	2 140	516	261	95	185
8	842	412	391	3 340	396	4 430	3 360	1 950	427	323	51	569
9	717	461	387	3 160	241	3 960	2 910	1 720	404	282	54	1 700
10	647	434	351	3 010	303	3 580	2 590	1 620	363	232	72	1 580
11	570	414	231	2 940	307	2 840	2 370	1 720	353	168	96	1 210
12	533	376	158	2 660	307	2 200	3 210	1 680	297	175	149	928
13	476	404	269	2 470	233	2 200	3 330	1 480	616	244	167	768
14	455	383	251	2 520	226	2 120	3 100	1 310	492	188	212	772
15	381	408	252	2 260	283	1 930	3 150	1 350	376	254	201	979
16	388	356	268	2 100	276	1 730	3 100	1 720	364	143	229	1 200
17	522	297	384	1 720	329	1 610	3 470	1 610	282	138	208	2 040
18	523	321	598	1 400	381	1 620	3 200	1 460	329	152	196	2 440
19	570	365	702	1 360	459	1 610	2 880	1 320	1 060	93	279	1 900
20	591	325	809	1 240	297	1 500	2 760	1 090	2 440	111	145	1 600
21	716	317	1 130	1 100	215	1 350	2 650	947	1 710	113	116	1 500
22	596	285	1 100	933	340	1 250	2 420	833	1 440	138	149	1 480
23	511	305	1 070	1 240	318	1 100	2 150	1 290	1 340	146	92	1 420
24	553	328	1 050	1 650	319	981	1 930	1 220	1 270	41	65	1 340
25	691	318	978	1 470	305	941	1 960	1 290	1 110	92	114	1 160
26	447	308	890	1 410	242	880	1 890	1 820	867	78	136	998
27	645	326	705	1 340	273	966	1 710	1 810	755	104	128	897
28	620	314	654	1 280	264	1 830	1 650	1 700	578	304	86	788
29	533	303	582	1 220		2 470	1 500	1 600	504	222	112	893
30	652	322	494	600		2 260	1 370	1 550	400	156	136	3 280
31	500		523	765		2 580		1 460		166	81	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	405	114	268	476	0.606	0.70
November	460	67	245	474	.604	.67
December	796	147	373	657	.837	.96
Calendar year, 1928	4 396	31	1 298	1 668	2.12	28.92
January, 1929	2 649	241	1 034	1 623	2.07	2.39
February	2 652	229	948	1 434	1.83	1.91
March	5 116	1 592	2 819	3 012	3.84	4.43
April	4 439	730	2 550	3 129	3,99	4.45
May	3 727	1 035	2 038	2 309	2.94	3.39
June	888	107	357	653	.832	.93
July	362	29	114	264	.336	.39
August	280	38	78.2	156	.199	.23
September	434	30	152	302	.385	.43
Year ending Sept. 30, 1929	5 116	29	915	1 206	1.54	20.87
October	1 407	31	437	822	1.05	1.21
November	1 275	209	567	974	1.24	1.38
December	2 913	193	1 020	1 450	1.85	2.13
Calendar year, 1929	5 116	29	1 011	1 344	1.71	23.27
January, 1930	2 149	371	1 140	1 540	1.96	2.26
February	1 790	423	1 020	1 360	1.73	1.80
March	3 614	730	1 760	2 080	2.65	3.06
April	2 426	531	1 230	1 590	2.03	2.26
May	854	219	447	686	.874	1.01
June	1 661	129	579	885	1.13	1.26
July	822	43	265	401	.511	.59
August	485	27	110	199	.254	.29
September	459	28	124	154	.196	.22
Year ending Sept. 30, 1930	3 614	27	723	1 010	1.29	17.47

Passaic River at Paterson
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	153	28	44.5	120	0.153	0.18
November	1 660	28	506	798	1.02	1.14
December	1 264	51	315	555	.707	.82
Calendar year, 1930	3 614	27	625	860	1.10	14.89
January, 1931	1 391	220	562	945	1.20	1.38
February	2 156	89	803	1 240	1.58	1.64
March	2 707	574	1 250	2 050	2.61	3.01
April	3 003	507	1 840	2 210	2.82	3.15
May	3 026	826	1 720	1 980	2.52	2.90
June	3 953	427	1 800	2 070	2.64	2.94
July	1 554	119	701	958	1.22	1.41
August	636	69	213	388	.494	.57
September	436	28	170	297	.378	.42
Year ending Sept. 30, 1931	3 953	28	824	1 130	1.44	19.56
October	237	2	62.4	152	.194	.22
November	232	4	79.2	156	.199	.22
December	480	141	276	455	.580	.67
Calendar year, 1931	3 953	2	787	1 075	1.36	18.52
January, 1932	1 670	160	947	1 400	1.78	2.05
February	2 560	451	1 010	1 570	2.00	2.16
March	3 810	310	1 080	1 540	1.96	2.26
April	4 650	618	1 970	2 280	2.90	3.24
May	1 210	122	591	820	1.04	1.20
June	370	16	166	388	.494	.55
July	345	34	139	192	.245	.28
August	154	5	47.9	104	.132	.15
September	167	2	32.4	91.4	.116	.13
Year ending Sept. 30, 1932	4 650	2	530	758	.966	13.13
October	1 470	14	518	917	1.17	1.35
November	8 200	864	3 580	4 620	5.89	6.57
December	1 880	404	1 090	1 380	1.76	2.03
Calendar year, 1932	8 200	2	924	1 267	1.61	21.97
January, 1933	1 780	879	1 190	1 460	1.86	2.14
February	2 810	538	1 500	1 790	2.28	2.37
March	5 050	1 090	2 650	2 940	3.75	4.32
April	7 170	1 630	3 550	3 820	4.87	5.43
May	2 000	543	1 270	1 530	1.95	2.25
June	1 320	105	556	749	.954	1.06
July	1 420	66	278	412	.525	.61
August	6 620	47	1 180	1 710	2.18	2.51
September	7 950	1 120	3 140	3 390	4.32	4.82
Year ending Sept. 30, 1933	8 200	14	1 700	2 050	2.61	35.46
October	1 330	381	696	865	1.10	1.27
November	461	285	361	501	.638	.71
December	1 130	158	532	757	.964	1.11
Calendar year, 1933	7 950	47	1 402	1 655	2.11	28.59
January, 1934	3 340	600	1 650	2 113	2.69	3.10
February	767	215	364	559	.712	.74
March	4 430	282	1 958	2 468	3.14	3.62
April	5 520	1 370	3 019	3 261	4.15	4.63
May	2 530	833	1 579	1 855	2.36	2.72
June	2 440	282	789	1 031	1.31	1.46
July	336	41	193	293	.373	.43
August	279	43	131	210	.268	.31
September	3 280	87	1 081	1 673	2.13	2.38
Year ending Sept.30, 1934	5 520	41	1 032	1 301	1.66	22.48

Rockaway River at Boonton

LOCATION.- Water-stage recorder below dam of the Jersey City waterworks at Boonton, Morris County.

DRAINAGE AREA.- 119 square miles.

RECORDS AVAILABLE.- January 1906 to September 1934. March 1903 to February 1904 at a site 2 miles below present site.

AVERAGE DISCHARGE.- 26 years (1906-11, 1913-34), 215 second-feet, corrected for storage and diversions.

REMARKS.- Daily-discharge table indicates flow over dam, through waste gates, and effluent from sewage disposal plant. Part of monthly and annual discharge table corrected for storage and diversions. Water for Jersey City water supply diverted from Boonton Reservoir one-fourth of a mile above gage. Flow is regulated by storage in reservoir. Water-stage recorder owned and operated by Jersey City Water Department.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	† 3	3.5	‡ 2	10	385	38	385	114	42	0.8	0.6
2	19	† 3	2.8	‡ 2	10	316	94	316	94	32	.8	.6
3	15	2.8	2.3	2.1	8.3	288	87	302	63	19	.7	.6
4	13	2.8	2.5	1.9	7.4	329	76	249	44	24	.7	.6
5	13	2.5	2.5	1.9	6.5	413	85	224	44	3.5	.6	.6
6	9.2	3.9	2.8	9.7	6.5	595	200	249	30	1.9	.6	.8
7	11	3.5	3.2	135	17	627	236	357	30	3.2	.6	.9
8	8.3	3.2	3.2	288	352	413	188	371	30	1.4	.6	1.0
9	11	3.2	3.2	262	275	413	128	288	42	.9	.6	1.0
10	6.2	3.0	3.2	316	177	275	110	224	44	.9	.7	1.0
11	8.3	† 3	3.2	329	134	262	134	188	32	.8	.8	.9
12	4.2	† 3	3.2	329	90	236	210	155	25	.9	.8	.9
13	4.2	† 2	3.2	203	54	200	472	188	18	.9	.8	1.0
14	4.5	† 2	2.3	‡ 28	45	236	420	236	14	.9	.9	1.0
15	4.8	2.1	0.9	‡ 28	34	371	329	249	11	.9	1.0	1.0
16	3.0	1.7	1.0	‡ 30	25	371	357	236	10	.8	.9	1.0
17	2.1	1.7	1.0	‡ 46	19	371	595	166	7.4	.8	.7	1.7
18	3.2	† 1	2.3	70	15	316	533	126	5.5	.8	.6	1.0
19	3.2	† 1	1.9	118	18	262	385	† 110	4.5	.9	.8	.9
20	2.8	† 1	1.7	144	16	224	357	† 200	3.5	.7	.7	.9
21	3.0	.6	1.4	89	18	200	329	† 220	2.1	.6	.7	.8
22	3.5	.7	1.4	65	12	188	343	† 240	.9	.6	.6	.6
23	3.9	.9	† 2	60	16	188	371	200	.7	.6	.6	.6
24	3.2	1.0	† 2	41	17	177	316	177	.6	.6	.6	.6
25	4.8	† 1	† 2	‡ 40	12	177	316	177	.8	.6	.6	.6
26	4.2	† 2	† 2	‡ 36	60	166	595	144	.8	.6	.6	.6
27	3.5	† 2	† 2	‡ 30	357	155	659	124	1.4	.7	.6	.6
28	† 4	† 3	† 2	‡ 22	502	124	502	98	59	.7	.6	.6
29	† 3	† 3	1.4	‡ 17		85	564	90	83	.8	.6	.6
30	† 3	3.5	1.7	‡ 13		78	472	104	53	.7	.6	.6
31	† 3		1.9	‡ 11		74		124		.8	.6	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Rockaway River at Boonton
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	4.2	3.5	1.0	23	155	89	281	0.9			
2	2.1	4.2	3.9	1.0	18	144	85	200	.8			
3	1.0	5.5	4.2	1.7	24	116	73	184	.8			
4	.8	4.8	4.2	1.4	45	90	70	179	.8			
5	.9	4.5	3.9	1.2	130	90	65	107	.8			
6	.9	4.5	3.5	1.2	162	96	49	.9	.8			
7	.9	4.2	3.2	1.4	102	80	166	.7	1.2			
8	.9	4.2	3.0	1.2	66	275	368	.9	1.2			
9	.9	3.9	3.0	1.2	44	627	297	1.0	2.5			
10	.9	3.9	3.0	1.4	44	487	234	1.0	6.5			
11	.9	3.9	2.8	.9	35	399	191	1.0	11			
12	.8	3.9	2.8	.9	38	399	157	1.0	302			
13	.8	3.9	3.0	1.4	46	377	151	1.0	262			
14	.8	3.9	3.9	3.2	114	316	162	1.2	175			
15	.8	4.5	4.2	5.5	98	262	153	1.2	114			
16	1.0	4.8	3.9	9.7	60	222	155	.9	73			
17	1.9	4.8	3.5	142	44	200	188	.9	38			
18	2.1	7.8	8.4	235	52	173	229	.9	56			
19	2.5	5.8	4.8	195	54	179	224	1.2	62			
20	3.0	4.8	2.1	173	68	170	200	.9	49			
21	3.2	4.2	.9	159	110	144	168	.9	35			
22	4.8	3.9	.8	130	126	126	162	1.0	19			
23	2.8	3.2	.7	94	122	90	151	1.2	13			
24	2.3	3.0	.6	47	138	80	128	1.4	11			
25	2.1	3.0	.6	65	159	98	108	1.2	6.5			
26	2.3	3.2	.6	45	179	170	94	1.0	9.7			
27	2.8	3.2	.9	35	217	155	83	.9	20			
28	4.8	3.2	1.4	49	186	† 120	119	1.2	14			
29	5.5	3.2	2.3	49		87	212	1.0	† 9			
30	5.5	3.2	1.4	42		92	259	1.0	† 4			
31	4.5		1.0	29		85		.9				

† 0.8 | † 0.8 | † 0.8

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			† 2.7	† 3.2	3.0	2.9	56	144	184	13	4.3	3.1
2			† 2.9	† 2.8	2.7	2.8	349	122	217	6.0	4.1	4.4
3			† 2.9	2.9	2.7	3.0	357	132	143	3.3	5.3	4.6
4			† 2.8	2.7	3.5	3.1	294	136	99	3.3	3.8	4.1
5			† 2.8	5.6	† 3.5	3.3	255	116	65	3.0	3.4	4.1
6			2.8	7.8	† 3.4	3.3	214	89	42	3.4	3.3	4.1
7			2.6	5.0	† 3.8	3.3	208	80	32	21	3.2	3.7
8			2.6	4.2	3.8	† 2.9	242	202	193	40	3.2	3.7
9			2.7	4.3	5.4	† 3.5	269	416	302	37	3.4	3.5
10			2.7	4.1	4.7	† 3.6	244	† 383	286	279	3.9	4.2
11			3.1	4.0	7.4	† 3.4	96	† 342	308	828	4.8	† 4.0
12			3.4	3.9	6.3	† 3.3	92	† 303	297	887	4.8	3.6
13			3.1	4.1	5.3	† 3.2	128	264	229	647	4.2	3.5
14			2.9	3.3	4.8	3.4	104	272	180	432	3.9	4.2
15			2.8	3.3	† 3.0	3.5	89	255	140	403	3.2	3.9
16	† 2.5	† 2.7	† 2.7	3.3	† 2.8	3.7	76	214	201	388	3.3	3.5
17			† 2.7	3.3	† 3.0	3.8	68	157	584	305	3.2	3.3
18			† 2.7	3.2	† 3.2	4.0	54	140	599	229	3.3	3.3
19			† 2.7	4.9	† 3.4	4.0	55	114	403	215	3.2	3.1
20			2.6	4.8	† 3.2	4.3	58	108	297	191	3.2	3.2
21			2.7	4.4	2.7	4.6	54	144	235	167	3.1	3.1
22			2.6	4.0	† 3.1	4.2	43	283	178	143	3.0	3.3
23			2.7	4.0	† 3.0	4.0	118	346	143	119	3.0	3.7
24			2.8	3.7	† 3.1	3.8	234	368	125	111	3.0	3.7
25			2.7	3.4	† 3.1	4.5	177	291	97	83	3.1	† 3.2
26			3.8	3.6	† 3.0	4.4	212	225	79	66	3.1	† 3.1
27			11	3.9	† 3.0	4.2	301	182	63	54	5.5	† 3.2
28			5.6	3.5	2.8	4.9	281	139	47	43	3.6	† 3.0
29			4.4	3.0		13	204	107	28	32	3.2	† 3.2
30			4.0	2.8		5.5	170	84	26	11	3.1	† 3.1
31			3.7	3.0		5.0		75		5.9	3.0	

† Estimated.

Rockaway River at Boonton
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				† 2.8	6.3	83	696	107	3.5	4.7	3.1	
2				† 2.8	6.6	73	663	200	3.4	4.3	2.8	
3				† 3.1	6.6	64	537	186	4.5	3.9	3.2	
4				† 3.0	9.1	70	445	138	3.9	4.0	2.8	
5				9.5	10	70	374	100	4.0	3.7	2.7	
6				19	8.0	83	332	82	3.8	3.6	2.7	
7				12	6.7	209	278	91	4.2	3.9	3.0	
8				8.3	6.9	184	247	132	4.1	3.9	2.7	
9				8.3	6.7	112	222	172	3.9	4.1	2.9	
10				7.4	12	112	260	211	3.6	4.0	3.0	
11				6.9	8.0	54	319	226	3.4	3.7	3.5	
12				7.2	6.8	46	416	221	4.4	3.8	3.2	
13				7.1	6.7	54	431	122	4.0	4.0	3.2	
14				6.5	5.9	41	338	4.8	3.8	12	2.7	
15	† 2.9	† 2.8	† 2.8	6.1	9.7	38	283	4.8	3.7	95	2.6	† 2.9
16				6.1	114	25	245	7.5	4.1	178	2.8	
17				6.4	168	27	215	4.8	4.3	2.7	2.7	
18				6.5	159	62	169	4.8	3.9	3.0	3.2	
19				6.1	142	100	152	11	3.7	2.8	3.0	
20				5.9	102	54	139	20	3.5	2.7	2.8	
21				6.2	78	49	121	24	3.7	2.7	2.8	
22				6.2	80	126	115	4.5	5.5	3.2	2.7	
23				7.5	75	144	100	5.3	4.3	3.5	2.8	
24				8.3	55	120	84	6.4	4.2	3.3	3.0	
25				7.5	46	108	73	8.3	4.1	3.2	3.2	
26				7.3	48	121	83	9.7	4.2	3.6	3.2	
27				9.0	51	96	106	6.1	4.9	† 3.6	2.8	
28				6.9	51	436	114	5.1	4.4	† 3.5	2.8	
29				6.6	72	850	92	3.7	4.0	† 3.2	2.7	
30				8.5		662	92	3.7	3.6	† 4.2	2.9	
31				6.6		583		5.6		† 3.4	2.8	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			269	191	105	185	313	195	149	6	6	199
2			243	162	117	162	397	183	103	7	5	103
3			225	147	101	155	423	224	79	7	5	4
4		† 4	189	138	92	151	408	390	75	5	4	4
5			187	149	102	136	408	337	74	6	4	4
6			153	130	72	124	390	265	124	7	4	5
7		18	149	141	70	133	524	331	153	6	4	76
8		38	136	115	228	321	560	344	122	6	4	90
9		71	119	134	330	460	461	270	81	5	4	66
10		324	105	155	166	297	394	270	55	4	4	27
11		1 170	105	158	166	194	347	281	45	5	5	12
12		1 040	130	178	153	198	423	241	36	4	4	11
13		746	149	175	149	187	985	214	23	4	4	4
14		533	143	153	147	280	835	181	11	4	6	14
15	† 3	416	117	134	164	442	615	187	8	4	6	754
16		346	53	119	169	434	516	192	24	5	4	1 980
17		343	57	124	151	352	646	182	7	5	4	1 620
18		327	60	117	155	310	1 200	149	9	5	5	1 170
19		750	62	136	160	306	1 230	124	8	4	5	835
20		1 980	65	151	276	379	865	124	7	4	4	576
21		1 530	58	138	565	804	657	160	6	4	4	436
22		1 020	60	147	442	1 050	402	147	5	4	8	323
23		774	69	194	331	805	388	117	5	4	19	249
24		625	80	191	290	631	377	03	4	4	22	214
25		524	159	160	283	538	325	89	4	5	898	180
26		486	245	162	286	502	316	82	4	4	1 350	150
27		473	235	185	250	372	287	75	4	4	864	127
28		362	264	180	198	412	251	55	4	4	556	105
29		300	278	164		404	231	55	4	4	502	99
30		286	230	141		347	211	113	4	4	497	96
31			225	113		298		173		5	399	

† Estimated.

Rockaway River at Boonton
(Continued)

Daily discharge, in second-feet, 1933-4

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	123	22	4	29	54	4	924	133	114	23	5	4
2	190	16	4	86	52	4	925	122	107	13	4	4
3	155	12	4	99	35	7	641	190	71	19	4	3
4	96	7	5	77	29	32	515	388	61	14	4	4
5	75	7	6	94	31	518	469	353	59	16	4	4
6	57	4	6	204	30	1 040	416	279	51	17	4	4
7	45	9	6	371	31	640	408	191	20	14	4	5
8	36	12	6	551	26	432	404	153	11	13	4	11
9	35	18	5	538	10	296	345	133	8	31	4	8
10	36	31	4	432	5	223	276	138	4	35	4	5
11	19	24	4	342	5	171	246	197	4	64	4	5
12	30	4	4	278	5	142	473	208	5	66	5	4
13	22	7	4	252	5	127	600	176	4	27	4	4
14	11	15	4	271	15	137	477	152	4	9	4	4
15	17	8	4	255	91	142	416	173	4	7	4	6
16	26	6	4	226	123	137	404	249	4	5	4	6
17	59	6	6	176	109	130	474	240	4	4	4	85
18	135	4	6	118	92	137	458	184	4	4	4	528
19	125	4	6	121	64	147	369	147	26	5	4	444
20	94	3	9	94	30	130	334	130	668	4	4	323
21	64	4	8	86	9	111	330	142	546	4	4	236
22	34	4	19	79	4	99	297	140	297	4	4	182
23	35	4	18	169	4	86	253	148	208	4	4	157
24	49	4	55	265	4	79	230	152	155	4	4	127
25	86	3	67	216	4	77	253	167	107	4	4	105
26	64	4	60	149	4	73	269	361	75	4	4	140
27	62	4	45	123	4	75	224	412	59	4	4	115
28	45	4	61	116	4	279	191	283	51	4	4	4
29	33	4	31	127		498	172	182	49	4	4	37
30	26	4	13	61		388	149	158	35	4	4	924
31	25		14	52		414		142		4	4	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	21	2.1	6.65	93.2	0.783	0.90
November	3.9	.6	2.24	88.1	.740	.83
December	3.5	.9	2.25	103	.866	1.00
Calendar year, 1928	1 060	.6	163	262	2.20	29.86
January, 1929	329	1.9	89.3	226	1.90	2.19
February	502	6.5	82.6	208	1.75	1.82
March	627	74	275	376	3.16	3.64
April	659	68	318	427	3.59	4.00
May	385	90	210	306	2.57	2.96
June	114	.6	28.9	134	1.13	1.26
July	42	.6	4.66	60.0	.504	.58
August	1.0	.6	.69	28.0	.235	.27
September	1.7	.6	.81	46.5	.391	.44
Year ending Sept. 30, 1929	659	.6	85.1	174	1.46	19.89
October	5.5	.7	2.10	92.8	.780	.90
November	7.8	3.0	4.18	118	.992	1.11
December	8.4	.6	2.77	173	1.45	1.67
Calendar year, 1929	659	.6	84.9	183	1.54	20.84
January, 1930	235	.9	49.1	205	1.72	1.98
February	217	18	89.4	185	1.55	1.61
March	627	80	197	281	2.36	2.72
April	368	49	160	236	1.98	2.21
May	281	.7	31.5	105	.882	1.02
June	302	.8	43.3	149	1.25	1.40
July	.....	.....	† .8	58.3	.490	.56
August	.....	.....	† .8	37.3	.313	.36
September	.....	.....	† .8	27.5	.231	.26
Year ending Sept. 30, 1930	627	.....	48.1	139	1.17	15.80

† Estimated.

Rockaway River at Boonton
(Continued)

Monthly and annual discharge, in second-feet, 1928-34.
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	.....	.....	† 2.50	24.5	0.206	0.24
November	.....	.....	† 2.70	81.5	.685	.76
December	11	2.6	3.30	67.9	.571	.66
Calendar year, 1930	627	.....	48.0	121	1.02	13.78
January, 1931	7.8	2.7	3.87	109	.916	1.06
February	7.4	2.7	3.67	132	1.11	1.16
March	13	2.8	4.08	239	2.01	2.32
April	357	43	170	274	2.30	2.57
May	416	75	201	283	2.38	2.74
June	599	26	194	281	2.36	2.63
July	887	3.0	186	277	2.33	2.69
August	5.5	3.0	3.60	82.0	.689	.79
September	4.6	3.0	3.59	58.2	.489	.55
Year ending Sept. 30, 1931	887	.....	65.1	159	1.34	18.17
October	.....	.....	† 2.90	43.0	.361	.42
November	.....	.....	† 2.80	32.6	.274	.31
December	.....	.....	† 2.80	68.9	.579	.67
Calendar year, 1931	887	.....	65.1	157	1.32	17.91
January, 1932	19	2.8	7.15	186	1.56	1.80
February	168	5.9	46.8	217	1.82	1.96
March	850	25	157	250	2.10	2.42
April	696	73	258	333	2.80	3.12
May	226	3.7	68.6	144	1.21	1.40
June	5.5	3.4	4.02	78.1	.656	.73
July	178	2.7	12.4	39.5	.332	.38
August	3.5	2.6	2.91	24.3	.204	.24
September	.....	.....	† 2.90	24.6	.207	.23
Year ending Sept. 30, 1932	850	.....	47.1	120	1.01	13.68
October	.....	.....	† 3.0	133	1.12	1.29
November	1 980	.....	484	724	6.08	6.78
December	278	53	149	230	1.93	2.22
Calendar year, 1932	1 980	.....	98.9	198	1.66	22.57
January, 1933	194	113	151	230	1.93	2.22
February	565	70	204	283	2.38	2.48
March	1 050	124	367	446	3.75	4.32
April	1 230	211	513	586	4.92	5.49
May	390	55	188	266	2.24	2.58
June	153	4	41.2	106	.891	.99
July	7	4	4.8	64.2	.539	.62
August	1 350	4	168	262	2.20	2.54
September	1 980	4	318	436	3.66	4.08
Year ending Sept. 30, 1933	1 980	.....	215	313	2.63	35.61
October	190	11	61.6	145	1.22	1.41
November	31	3	8.6	80.6	.677	.76
December	67	4	15.9	114	.958	1.10
Calendar year, 1933	1 980	3	169	251	2.11	28.59
January, 1934	551	29	195	280	2.35	2.71
February	123	4	31.4	105	.882	.92
March	1 040	4	219	314	2.64	3.04
April	925	149	398	474	3.98	4.44
May	412	122	201	281	2.36	2.72
June	668	4	93.8	199	1.67	1.86
July	66	4	14.0	67.5	.567	.65
August	5	4	4.1	49.6	.417	.48
September	924	3	116	266	2.24	2.50
Year ending Sept. 30, 1934	1 040	3	113	198	1.66	22.59

† Estimated.

Beaver Brook at outlet of Splitrock Pond

LOCATION.- Water-stage recorder 50 feet below Splitrock Pond, 2 miles northeast of Hibernia, Morris County, and 3⅜ miles above mouth of Hibernia Brook.

DRAINAGE AREA.- 5.5 square miles.

RECORDS AVAILABLE.- October 1925 to September 1934.

AVERAGE DISCHARGE.- 8 years (1925-32, 1933-34), 9.25 second-feet.

REMARKS.- Entire flow is regulated by operation of sluice gate in Splitrock Pond Dam. Water-stage recorder operated by Jersey City Water Department.

Daily discharge, in second-feet, 1925-26

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	1.81	6.4	6.9	6.5	22	16.4	3.0	2.6	2.7	3.1	3.9
2	2.6	1.72	6.2	6.6	6.5	27	21	2.9	2.6	2.5	3.1	3.3
3	2.7	1.72	13.3	6.5	6.6	30	21	2.8	2.6	2.7	3.0	3.2
4	† 2.7	1.72	32	6.5	6.8	30	21	2.9	2.7	2.5	3.0	3.3
5	2.8	1.81	45	6.5	6.8	30	21	2.9	2.6	2.4	3.2	3.5
6	† 2.4	1.72	52	6.5	6.6	30	21	2.6	2.5	2.6	3.3	10.0
7	1.89	1.81	52	6.4	6.6	30	21	2.6	2.6	2.7	3.1	23
8	1.81	6.6	51	6.2	6.8	30	21	2.6	2.6	2.9	2.9	35
9	† 1.72	16.4	31	6.1	13.7	30	24	2.5	2.6	3.0	3.0	39
10	1.64	16.0	19.4	6.1	25	24	25	2.4	2.7	3.1	3.0	39
11	1.48	16.0	19.4	6.2	25	20	26	2.3	2.8	3.3	3.1	13.3
12	1.48	16.0	19.4	6.4	25	20	26	2.3	3.0	3.3	3.1	8.0
13	1.48	23	19.4	6.4	25	19.9	26	2.2	3.3	3.2	3.0	7.5
14	1.56	39	10.6	6.4	25	13.3	13.7	2.2	3.4	3.1	2.9	7.5
15	1.48	41	8.2	6.2	25	9.1	9.3	2.2	3.5	2.8	3.1	4.6
16	1.48	41	8.1	6.2	24	8.7	9.1	2.3	3.2	2.5	3.3	3.3
17	1.64	49	8.1	6.1	24	8.5	9.0	2.2	3.0	2.6	4.1	3.1
18	1.64	53	8.1	6.1	10.6	8.5	9.0	2.2	3.0	2.7	32	2.9
19	1.64	52	8.0	6.1	6.9	8.5	9.0	2.3	3.0	2.8	43	2.7
20	1.64	36	7.8	6.1	6.9	8.5	9.0	2.3	3.0	2.8	31	2.8
21	1.72	22	7.8	6.1	6.9	8.5	9.0	2.4	3.0	3.0	12.4	2.6
22	1.72	9.3	7.7	6.2	7.0	8.7	8.8	2.4	3.3	3.1	8.4	2.5
23	1.64	6.6	7.5	6.2	7.1	8.8	8.7	2.7	2.7	3.2	8.1	2.6
24	1.64	6.6	7.5	6.5	7.1	9.1	8.8	2.9	2.4	3.3	8.1	2.7
25	1.64	6.5	7.5	6.5	7.3	21	8.2	2.9	2.3	3.4	8.2	2.9
26	1.64	6.5	7.5	6.5	13.7	31	4.3	2.9	2.2	3.1	8.4	3.0
27	1.72	6.5	7.4	6.5	22	31	3.2	2.9	2.3	3.0	6.8	3.0
28	1.81	6.5	7.3	6.5	22	31	3.0	2.8	2.3	2.9	5.8	2.8
29	1.81	6.5	7.1	6.5		16.8	3.0	2.7	2.5	2.9	6.0	2.8
30	1.81	6.5	7.1	6.5		9.8	3.1	2.6	2.5	2.9	5.7	2.7
31	1.81		7.1	6.5		9.8		2.6		2.9	5.6	

†- Estimated.

Beaver Brook at outlet of Splitrock Pond
(Continued)

Daily discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	14	34	7.4	17	22	6.1	16	7.8	2.6	4.0	25
2	2.5	16	26	7.5	9.0	22	5.5	16	7.4	2.2	14.0	8.1
3	2.7	16	11	7.5	9.0	22	5.5	10	5.4	2.2	18	5.1
4	2.7	16	7.4	7.5	9.0	22	5.5	7.1	4.8	2.2	17	3.4
5	2.7	11	7.3	7.4	9.0	13	15	7.1	5.6	1.8	17	2.7
6	2.8	7.4	7.1	7.5	9.0	7.1	20	7.1	5.6	1.8	12	2.9
7	2.7	7.4	7.3	7.5	9.0	7.1	20	13	5.5	1.8	8.8	3.6
8	2.7	7.4	7.4	7.7	7.1	6.9	13	17	5.6	1.8	8.1	4.3
9	2.6	7.1	7.4	7.7	7.1	6.9	6.2	16	3.6	1.8	7.8	4.6
10	2.6	7.1	7.4	7.5	7.1	6.9	6.2	16	2.7	1.8	7.5	4.9
11	2.6	17	7.5	7.5	7.1	19	6.2	16	2.7	1.8	5.8	6.1
12	2.5	23	7.5	7.5	7.1	35	6.1	16	2.6	1.8	4.6	6.2
13	2.5	23	7.5	7.5	7.1	41	6.1	14	2.6	1.8	4.6	6.9
14	2.5	14	7.5	7.7	7.1	40	4.8	12	2.6	1.8	4.9	7.8
15	2.5	7.7	7.5	7.8	7.1	39	4.0	12	2.6	1.8	5.2	8.4
16	2.4	16	7.5	7.5	7.1	39	4.0	12	2.4	2.1	5.2	7.4
17	2.4	46	7.5	7.5	7.1	39	4.0	12	2.4	2.3	5.3	7.4
18	2.4	63	7.4	7.5	7.1	37	4.1	12	2.4	2.3	16	5.0
19	2.3	63	7.4	7.5	15	34	4.1	8.8	2.1	2.3	21	3.7
20	2.3	45	7.4	7.7	20	34	4.2	7.0	12	2.3	9.7	3.7
21	2.2	35	7.4	7.7	20	34	4.4	7.0	18	2.3	3.7	3.6
22	2.2	26	7.4	7.8	20	32	4.5	7.0	18	2.5	3.7	3.5
23	2.2	14	7.4	8.0	22	16	4.4	7.0	9.7	2.8	3.9	3.4
24	2.2	9.1	7.4	8.1	22	6.2	4.5	15	6.4	2.8	4.0	3.4
25	24	9.0	7.4	8.4	22	6.2	4.5	25	6.4	3.3	4.2	3.4
26	38	9.0	7.4	8.5	22	6.4	4.5	28	6.2	3.4	4.9	3.3
27	46	8.4	7.4	8.5	22	6.4	4.6	28	6.2	3.4	15	3.2
28	22	7.7	7.4	24	22	6.4	4.6	30	5.8	3.4	21	2.7
29	8.2	7.7	7.4	33		6.4	12	31	3.9	3.4	31	3.0
30	8.2	25	7.4	33		8.2	16	23	2.8	3.9	46	3.0
31	8.2		7.5	33		6.1		12		4.0	50	

Daily discharge, in second-feet, 1927-28

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	20	8.2	8.7	8.5	23	29	13.3	4.5	28	10.2	14.4
2	3.0	15.5	15.4	8.7	8.5	17.9	21	8.5	4.3	26	10.0	11.1
3	2.9	19.4	21	8.7	8.5	14.4	21	8.5	4.1	25	9.8	10.9
4	3.0	28	23	8.7	8.5	14.4	13.4	8.5	4.1	17.3	10.0	10.9
5	2.8	39	24	8.7	8.5	14.4	8.7	18.2	4.2	10.1	10.2	10.9
6	2.8	44	24	8.7	8.5	14.4	8.7	23	4.2	26	9.8	10.4
7	2.7	43	24	8.7	8.5	14.4	8.5	23	4.3	36	9.5	9.8
8	2.7	43	33	8.7	9.0	16.2	8.4	23	4.3	28	9.5	9.7
9	2.7	42	42	8.7	9.3	16.0	8.2	14.9	17.9	14.9	9.7	9.7
10	2.7	22	43	8.7	9.3	14.4	8.1	9.1	37	10.0	9.3	9.5
11	2.7	15.2	42	8.7	9.3	14.4	8.0	9.0	11.2	9.8	8.5	9.5
12	2.6	10.6	42	8.7	9.3	14.4	7.7	8.8	25	9.8	6.9	9.7
13	2.9	5.1	42	8.7	9.1	14.4	7.5	8.7	21	19.0	6.5	9.8
14	3.1	5.0	42	8.7	9.1	14.4	16.0	8.5	17.0	40	6.4	9.4
15	3.1	4.8	41	8.7	31	14.4	23	8.4	13.0	43	6.5	9.1
16	3.7	4.5	41	8.7	47	14.4	14.0	7.6	12.7	18.9	6.6	9.3
17	3.5	12.7	40	8.5	50	11.0	9.0	7.1	12.7	11.1	7.3	9.3
18	33	35	33	8.5	50	8.5	8.8	7.1	12.4	10.9	8.5	9.0
19	48	51	31	8.5	49	8.5	8.7	7.0	12.0	10.9	17.8	6.3
20	78	56	33	8.5	31	8.5	8.5	7.0	21	10.6	22	3.5
21	89	55	32	8.5	21	8.5	8.5	6.9	30	9.7	22	3.4
22	48	33	32	8.5	15.8	8.5	8.5	6.9	34	9.7	31	3.4
23	26	18.6	24	8.5	12.7	8.5	8.5	6.8	29	10.0	35	3.5
24	11.9	18.6	9.1	8.2	13.0	8.5	30	6.8	26	9.8	35	3.6
25	5.8	18.6	9.0	8.5	19.2	8.5	41	6.8	28	9.8	35	4.1
26	5.8	19.0	8.8	8.5	23	8.5	41	6.8	32	9.5	34	4.2
27	10.7	19.0	8.8	8.5	23	8.5	40	6.8	33	9.4	58	4.3
28	13.7	19.0	8.7	8.5	23	8.5	46	6.9	29	9.8	70	4.3
29	13.2	18.1	8.7	8.5	23	8.5	50	5.9	28	10.0	68	4.3
30	21	8.4	8.7	8.5		28	32	5.0	28	10.0	44	4.2
31	20		8.7	8.5		40		4.6		10.0	24	

Beaver Brook at outlet of Splitrock Pond
(Continued(

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.9	4.6	0.83	0.32	6.0	30	2.4	3.7	5.5	3.5	2.2	0.64
2	4.0	4.6	.70	.41	6.0	30	2.2	3.9	3.1	3.5	2.2	.64
3	4.1	4.6	.64	.41	5.8	30	2.2	4.0	3.0	3.5	2.2	.76
4	4.2	4.6	.64	.41	5.8	11.8	2.2	12.5	3.1	3.4	2.2	.83
5	4.3	4.6	.52	.41	5.8	3.0	2.2	18.6	3.1	3.5	2.2	.89
6	4.3	4.6	.36	.70	5.8	33	19.2	19.4	3.2	3.5	2.2	.76
7	4.3	4.6	.32	1.10	6.0	44	35	38	3.2	3.6	2.2	.70
8	4.4	4.6	.29	1.40	6.1	43	23	38	3.1	3.6	1.98	.76
9	4.5	4.6	.29	12	16.6	43	14	21.0	2.5	3.7	1.98	.83
10	4.8	4.4	.29	23	24	42	21	8.2	2.1	3.9	2.1	.83
11	5.0	4.2	.29	25	24	23	12.5	8.2	1.98	3.7	2.2	.76
12	5.1	3.9	.29	25	24	2.8	22	8.2	2.3	3.4	2.2	.76
13	5.2	3.9	.29	24	23	2.9	35	8.5	2.4	3.2	1.72	.76
14	5.0	3.9	.29	24	12.5	3.2	35	19.8	2.4	3.3	1.56	.83
15	5.0	3.9	.29	13.8	7.1	22	35	28	2.4	2.7	1.56	.89
16	5.1	13.5	.29	6.5	7.0	43	34	28	2.5	2.5	1.56	.96
17	5.2	32	.29	6.5	7.0	43	35	14.0	2.5	2.5	1.48	1.03
18	5.3	32	.32	6.5	3.6	42	35	4.5	2.5	2.6	1.56	1.10
19	5.5	26	.36	6.6	1.56	15.3	35	4.5	2.6	2.7	1.32	1.03
20	5.1	26	.36	6.2	1.56	6.5	34	4.4	2.5	2.5	1.10	1.03
21	5.1	23	.36	6.2	1.64	6.4	19.0	3.7	2.5	2.2	1.18	1.03
22	5.1	6.2	.36	6.4	1.64	6.2	10.0	11.4	2.5	2.2	1.25	.89
23	5.1	† .3	.32	6.4	1.64	33	10.4	24	2.5	2.3	1.40	.76
24	5.1	† .3	.32	6.4	1.64	25	10.4	24	2.5	2.5	1.10	.64
25	5.1	† .3	.32	6.4	1.64	25	10.4	16.4	2.8	2.5	.89	.47
26	5.1	† .3	.36	6.4	1.64	24	35	8.7	3.2	2.5	.89	.41
27	5.1	† .3	.32	6.4	1.81	11.6	61	8.7	3.4	2.6	.96	.36
28	5.1	† .3	.32	6.4	19.5	2.6	55	8.7	3.4	2.7	.96	.29
29	5.1	† .3	.32	6.2		2.3	51	8.7	3.5	2.7	.96	.29
30	5.0	† .3	.32	6.2		2.2	17.6	8.7	3.5	2.7	.76	.27
31	5.0		.29	6.1		2.2		8.7		2.3	.64	

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.18	0.52	3.7	7.4	3.7	16.4	14.8	1.40	1.56	2.7	2.3	0
2	.18	.52	3.7	7.4	3.7	16.0	14.4	1.40	1.72	2.9	2.3	.33
3	.11	.64	3.7	7.5	3.7	15.6	14.4	1.40	1.89	2.9	2.4	.76
4	.11	.76	3.7	7.5	3.7	15.6	14.4	1.40	1.98	3.1	2.4	.47
5	.15	.83	3.7	7.7	3.9	15.2	6.9	1.40	1.98	3.3	2.5	.32
6	.15	.89	3.7	7.7	4.0	15.2	.89	1.40	2.1	3.6	2.6	.32
7	.18	10.6	3.7	7.5	4.0	15.2	1.18	1.48	2.2	3.7	10.2	.27
8	.18	17.2	3.7	7.5	4.1	25	17.8	1.48	2.2	3.9	13.7	.18
9	.18	16.8	3.7	7.4	4.2	36	27	1.48	2.2	3.9	15.9	.11
10	.18	9.9	3.7	7.4	4.2	36	27	1.40	16.8	3.4	17.6	.11
11	.15	4.1	3.7	12.2	4.2	36	26	1.32	27	2.7	17.2	.11
12	.15	4.0	3.7	15.2	4.2	36	19.2	1.32	27	2.6	16.8	.11
13	.15	4.0	3.7	15.2	4.2	35	14.0	1.32	27	2.7	17.6	.15
14	.18	4.0	3.9	15.6	4.3	35	14.0	1.25	16.3	2.9	18.6	.18
15	.15	4.0	4.0	29	11.9	22	14.0	.83	8.0	2.9	19.0	.18
16	.15	4.0	4.1	36	16.8	13.3	14.0	.89	8.0	2.9	19.4	.23
17	.11	4.0	4.1	35	16.8	7.6	14.0	5.9	8.0	3.0	17.6	.27
18	.11	3.7	4.3	35	16.4	3.7	14.0	9.0	7.4	3.0	12.7	.27
19	.11	11.4	28	20	8.3	3.7	21	18.8	7.3	3.1	8.4	.27
20	.11	16.4	36	13.0	4.4	3.7	27	15.7	7.3	3.1	10.4	.27
21	.15	16.4	35	13.0	4.5	3.6	19.0	8.8	5.2	3.1	14.4	.27
22	.23	16.0	35	6.2	4.6	3.2	14.4	8.3	3.5	3.2	8.6	.27
23	.41	8.8	34	3.5	11.2	3.1	14.4	8.0	3.3	3.0	0	.27
24	.47	3.7	19.3	3.5	16.8	2.5	14.4	4.2	3.2	2.8	0	.27
25	.52	3.7	6.9	3.6	16.8	2.6	14.0	1.25	3.0	2.8	0	.27
26	.52	3.7	6.9	3.7	17.2	2.6	6.9	1.25	2.8	2.6	0	.27
27	.52	3.7	6.9	3.7	17.2	2.7	1.40	1.32	2.7	2.8	0	.27
28	.52	3.7	7.0	3.7	16.4	2.7	1.40	1.48	2.7	2.6	0	.23
29	.52	3.7	7.1	3.7		9.8	1.40	1.56	2.5	2.6	0	.23
30	.47	3.7	7.3	3.7		14.8	1.40	1.64	2.5	2.4	0	.23
31	.47		7.3	3.7		14.8		1.56		2.3	0	

†- Estimated.

Beaver Brook at outlet of Splitrock Pond
(Continued)

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.23	5.0	3.5	5.1	2.7	11.1	28	5.2	15.2	0.05	2.2	1.32
2	.18	3.3	4.6	4.5	2.2	11.1	29	5.6	15.6	.05	1.81	1.18
3	.18	1.08	5.0	3.4	1.89	10.9	28	5.7	15.2	.05	1.56	1.56
4	.15	.89	4.4	2.8	1.81	10.4	26	7.0	14.0	.05	1.56	1.40
5	.11	4.6	3.6	3.4	1.72	12.0	24	7.8	13.0	.05	1.40	1.25
6	.11	6.6	3.1	8.4	1.72	12.3	13.0	7.7	11.1	.08	1.25	1.10
7	.11	3.0	3.1	11.1	1.56	9.1	.41	7.8	10.4	.05	1.03	.89
8	.11	1.95	3.4	11.4	1.25	10.7	.36	14.5	14.4	.08	.83	.76
9	.11	1.48	3.5	10.4	1.64	19.9	.32	24	40	.09	.70	.64
10	.11	1.18	3.4	9.1	2.3	23	.32	26	51	5.5	.70	.58
11	.11	.89	3.1	8.0	2.6	23	.23	25	47	12.7	.89	.52
12	.11	.83	3.0	5.1	2.3	21	.15	25	43	14.4	1.48	.52
13	.11	.96	2.8	.20	2.9	19.4	.15	20	40	14.0	1.48	.41
14	.11	.54	2.2	.03	5.9	18.1	.15	19.0	36	13.3	1.40	.41
15	.08	3.7	1.48	.03	5.7	17.2	.11	19.9	30	14.4	1.40	43
16	.08	4.9	.70	.01	4.2	16.4	.05	19.0	27	14.4	1.32	60
17	.11	6.2	.36	0	4.7	16.0	.05	18.6	11.8	13.3	1.18	53
18	.08	8.8	.41	.01	14.3	13.0	.03	17.6	4.3	11.7	1.03	45
19	.08	10.6	.52	.03	19.4	13.0	.03	16.8	24	11.1	.89	35
20	.06	10.6	.58	.01	18.1	12.7	.03	16.0	40	10.4	.83	27
21	.08	9.4	.70	.01	15.6	13.3	.03	16.0	34	10.0	.70	21
22	3.9	8.4	.76	0	14.4	13.7	.03	16.4	28	9.3	.64	15.2
23	20	7.5	.83	12.2	12.7	13.3	.05	18.1	8.5	8.2	.52	11.4
24	25	6.8	.76	16.4	11.7	13.0	.05	19.0	.08	7.4	.41	8.8
25	19.4	6.0	.89	11.1	11.1	13.3	.05	18.6	.05	6.5	.32	6.9
26	14.4	5.7	.98	8.2	11.1	14.0	.11	18.1	.03	5.5	.27	5.4
27	10.2	5.2	3.2	6.8	11.1	14.0	.34	17.6	.03	4.9	.57	5.5
28	13.2	4.0	4.3	6.4	11.1	13.3	1.48	16.4	.03	4.3	1.56	5.1
29	18.1	2.1	4.8	6.0		19.9	3.3	16.0	.05	3.9	1.72	4.2
30	16.0	1.39	5.1	5.3		27	4.5	14.8	.05	3.3	1.64	2.9
31	10.0		5.2	4.3		27		13.7		2.6	1.48	

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.48	1.25	1.32	1.08	6.5	0.94	42	7.1	1.44	1.25	0	0
2	.70	.83	1.18	3.5	7.5	11.8	41	9.1	.89	1.03	0	0
3	.52	.52	.83	5.0	6.9	25	37	9.3	.96	.70	0	0
4	.41	.36	1.43	5.8	6.8	19.9	32	8.5	.89	.64	0	0
5	.24	.23	2.9	6.1	8.2	16.4	28	7.8	.76	1.03	0	0
6	0	.18	2.7	7.9	8.8	15.6	25	7.1	.64	.89	0	0
7	0	.09	2.2	14.8	9.1	14.8	21	6.9	.52	.64	0	0
8	0	.10	1.40	18.6	9.7	13.7	19.0	8.0	.41	.41	0	0
9	0	.15	1.20	18.6	10.2	12.7	17.2	9.1	.23	.23	0	0
10	0	.11	2.4	18.1	10.4	11.1	17.2	9.3	.18	.11	0	0
11	0	.11	3.3	16.8	19.5	9.5	17.6	8.5	.15	.23	0	0
12	0	.11	4.0	15.2	27	8.5	20	8.0	.15	.06	0	0
13	0	.11	4.5	13.7	27	7.8	22	7.4	1.03	0	0	0
14	0	.08	2.4	12.0	25	7.1	22	6.8	1.48	0	0	0
15	.03	.08	0	10.6	22	6.2	20	6.2	1.56	0	0	0
16	.03	.08	0	9.5	19.4	5.5	18.6	5.6	1.56	0	0	0
17	.03	.11	0	7.7	17.6	5.3	16.8	5.0	2.5	0	0	0
18	.03	.18	0	6.5	15.6	6.1	15.2	4.4	2.8	0	0	0
19	.03	.23	0	6.1	9.8	6.5	13.7	4.1	2.5	0	0	0
20	.03	.27	0	5.6	1.25	7.1	12.4	3.9	2.2	0	0	0
21	.03	.32	0	5.3	1.25	7.4	11.1	3.9	1.98	0	0	0
22	.03	.32	0	5.6	1.18	8.2	9.8	4.8	2.8	0	0	0
23	.03	.27	.43	5.8	1.09	10.2	8.7	4.5	2.9	0	0	0
24	.03	.27	6.8	6.5	1.15	11.1	7.7	4.0	2.7	0	0	0
25	.03	.23	5.2	6.5	1.25	10.9	7.0	3.2	2.4	0	0	0
26	.01	.15	4.4	6.4	1.25	10.4	6.8	2.4	2.2	0	0	0
27	.01	.11	4.6	6.1	1.25	10.9	7.0	1.72	1.81	0	0	0
28	1.70	.08	4.2	6.9	1.18	22	7.3	2.8	1.98	0	0	0
29	2.8	.15	3.7	6.9	1.18	8.5	7.1	3.1	1.81	0	0	0
30	2.2	.67	2.6	7.7		41	6.5	2.8	1.56	0	0	0
31	1.89		1.40	6.6		39		2.2		0	0	

Beaver Brook at outlet of Splitrock Pond
(Continued)

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			39	14.8	9.3	15.6	19.4	12.0	7.4	0.01	0	16.4
2			32	13.3	8.8	14.4	21	11.1	6.8	.01	0	15.2
3			27	11.7	8.5	13.3	22	11.1	6.2	.01	0	14.0
4			23	10.9	8.2	12.7	23	13.0	6.0	.01	.01	16.4
5		9.5	19.9	10.6	8.0	11.4	24	13.3	5.7	.03	.01	19.4
6		10.2	17.2	10.2	7.4	10.9	23	13.7	7.1	.05	.01	19.4
7		13.7	15.2	9.7	7.0	10.6	26	15.6	7.5	.05	.01	17.6
8		16.0	13.3	9.3	10.6	15.6	27	15.6	7.5	.03	.01	16.4
9		9.9	11.7	9.3	13.3	17.6	26	14.8	6.8	.03	.01	15.2
10		16.0	10.9	9.4	13.0	16.7	24	15.2	6.6	.03	.01	13.3
11		32	9.8	9.5	12.7	13.1	22	15.2	6.2	.01	0	11.7
12		24	9.8	10.6	11.7	16.4	25	14.4	5.6	0	0	10.4
13		20	9.8	10.9	10.6	15.6	32	13.3	5.2	0	0	9.1
14		17.6	9.7	10.6	10.2	18.6	33	12.7	4.6	0	0	10.7
15		15.6	9.1	10.0	10.2	22	32	12.0	4.2	0	0	25
16		14.0	8.2	9.4	10.4	24	30	11.4	3.6	0	0	36
17		13.0	7.4	9.1	10.4	23	32	11.1	3.1	.03	0	43
18		11.7	7.1	9.0	10.2	21	40	10.2	2.6	.03	0	42
19		44	6.6	9.3	10.2	21	47	9.3	2.2	.03	0	36
20		104	6.2	9.4	13.5	22	44	8.4	1.98	.03	0	32
21		91	5.8	9.5	19.4	27	39	8.8	.60	.03	0	27
22		82	5.7	10.0	21	33	34	8.5	0	.03	0	24
23		76	5.8	11.4	21	34	30	7.8	0	.03	.03	21
24		74	6.5	11.7	21	32	25	7.1	0	.01	15.8	19.0
25		70	8.4	11.7	21	30	23	6.8	0	.01	35	17.2
26		66	11.4	11.4	20	27	20	6.1	0	.01	36	15.6
27		60	12.7	11.1	18.6	26	18.1	5.5	.01	.01	34	14.4
28		31	14.4	11.1	16.8	26	16.4	5.2	.01	.01	29	13.3
29		49	15.6	7.5		24	14.4	4.9	.01	0	25	12.0
30		44	15.6	10.6		22	13.3	6.1	.01	0	21	10.9
31			15.6	9.7		20		7.1		0	18.6	

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10.0	3.3	1.89	6.1	8.7	2.1	28	14.4	14.4	10.2	0.70	0.15
2	9.7	3.2	1.81	6.8	8.1	2.1	35	13.7	13.7	9.7	.70	.15
3	8.7	3.1	1.89	6.8	7.4	2.7	35	14.0	12.7	8.7	.70	.18
4	7.7	2.9	2.2	6.9	7.0	3.8	34	16.0	11.4	8.2	.59	.18
5	7.3	2.7	2.2	8.8	6.4	13.8	32	16.4	10.4	7.5	.20	.15
6	6.6	2.8	2.4	10.2	6.0	23	29	16.0	9.4	6.9	.21	.15
7	5.8	2.8	2.6	14.0	5.5	25	28	15.6	8.1	6.1	.23	.18
8	5.2	2.7	2.7	19.9	5.1	24	26	14.8	6.5	6.1	.18	.16
9	4.9	2.8	2.6	23.0	4.9	23	24	14.0	5.8	5.3	.15	.21
10	4.3	2.7	2.5	23.0	4.4	21	22	13.7	5.6	4.8	.15	.76
11	3.9	2.6	2.4	22.0	4.2	19.4	21	14.4	5.1	4.2	.18	.89
12	3.5	2.6	1.98	21.0	4.1	18.1	26	14.8	5.6	3.6	.15	.76
13	3.3	2.6	2.1	19.9	3.5	17.2	28	14.4	7.5	3.2	.11	.64
14	2.9	2.5	2.1	19.9	3.0	16.0	28	13.7	7.4	3.0	.11	.64
15	2.6	2.4	2.1	19.4	2.9	15.2	28	14.4	6.9	2.9	.15	.89
16	2.4	2.1	2.4	18.6	2.8	14.8	27	15.2	6.2	2.5	.15	1.18
17	2.9	2.2	2.9	17.2	2.7	14.4	27	14.8	5.6	2.1	.11	23
18	3.9	2.2	3.7	16.4	2.6	14.8	26	14.4	5.0	1.89	.11	52
19	4.0	2.1	4.3	14.8	2.5	15.2	24	14.0	11.8	1.89	.18	47
20	3.9	2.1	5.0	13.3	2.4	14.4	23	13.7	23	1.56	.18	39
21	3.9	2.1	6.2	12.4	2.2	14.0	21	13.3	22	1.25	.15	32
22	3.7	2.2	7.0	11.1	2.1	13.3	21	12.7	19.0	.96	.15	28
23	3.5	2.2	7.5	12.4	1.72	12.7	19.9	13.3	16.8	.83	.18	25
24	3.6	2.1	7.7	13.0	1.64	12.0	18.6	13.3	15.6	.76	.23	22
25	3.9	2.1	7.7	13.0	2.1	11.4	18.6	14.0	14.8	.76	.23	18.6
26	4.0	2.2	8.1	12.7	2.1	10.4	18.1	17.6	13.7	.76	.23	16.8
27	4.0	1.98	8.1	12.4	2.1	10.2	17.2	18.6	12.7	.76	.23	15.6
28	4.0	2.2	7.5	12.0	2.1	16.8	16.8	17.6	12.0	.76	.23	14.4
29	3.7	2.2	7.1	11.7		21	16.0	16.8	11.4	.76	.23	14.0
30	3.6	1.89	6.8	10.9		21	15.2	16.0	10.6	.70	.18	19.9
31	3.5		6.1	9.7		20		15.2		.70	.15	

Beaver Brook at outlet of Splitrock Pond
(Continued)

Monthly and annual discharge, in second-feet, 1925-34

Month	Maximum	Minimum	Mean
October, 1925	2.8	1.48	1.85
November	53	1.72	16.7
December	52	6.2	16.4
Calendar year, 1925			
January, 1926	6.9	6.1	6.35
February	25	6.5	13.7
March	31	8.5	19.1
April	26	3.0	14.0
May	3.0	2.2	2.56
June	3.5	2.2	2.76
July	3.4	2.4	2.90
August	43	2.9	7.83
September	39	2.5	8.22
Year ending Sept. 30, 1926	53	1.48	9.31
October	46	2.2	6.92
November	63	7.1	19.3
December	34	7.1	8.98
Calendar year, 1926	63	2.2	9.32
January, 1927	33	7.4	10.7
February	22	7.1	12.7
March	41	6.1	20.2
April	20	4.0	7.15
May	31	7.0	14.8
June	18	2.1	5.73
July	4.0	1.8	2.44
August	50	3.7	12.4
September	25	2.7	5.32
Year ending Sept. 30, 1927	63	1.8	10.5
October	89	2.6	15.3
November	56	4.5	24.6
December	43	8.2	25.9
Calendar year, 1927	89	1.8	13.13
January, 1928	8.7	8.2	8.59
February	50	8.5	19.2
March	40	8.5	13.8
April	50	7.5	18.4
May	23	4.6	9.66
June	37	4.1	18.1
July	43	9.4	16.5
August	70	6.4	21.0
September	14.4	3.4	7.72
Year ending Sept. 30, 1928	89	2.6	16.5
October	5.5	3.9	4.85
November	32	.3	7.56
December	.83	.29	.373
Calendar year, 1928	70	.29	12.1
January, 1929	25	.32	8.19
February	24	1.56	8.23
March	44	2.2	21.1
April	61	2.2	23.9
May	38	3.7	13.8
June	5.5	1.98	2.86
July	3.9	2.2	2.97
August	2.2	.64	1.57
September	1.10	.27	.74
Year ending Sept. 30, 1929	61	.27	7.99

Beaver Brook at outlet of Splitrock Pond
(Continued)

Monthly and annual discharge, in second-feet, 1925-34
(Continued)

Month	Maximum	Minimum	Mean
October, 1929	0.52	0.11	0.251
November	17.2	.52	6.18
December	36	3.7	9.85
Calendar year, 1929	61	.11	8.30
January, 1930	36	3.5	11.4
February	17.2	3.7	8.41
March	36	2.5	15.0
April	27	.89	13.5
May	18.8	.83	3.55
June	27	1.56	6.98
July	3.9	2.3	2.98
August	19.4	0	8.15
September	.76	0	.250
Year ending Sept. 30, 1930	36	0	7.20
October	25	.08	4.92
November	10.6	.54	4.45
December	5.2	.36	2.59
Calendar year, 1930	36	0	6.84
January, 1931	16.4	0	5.15
February	19.4	1.25	7.06
March	27	9.1	15.6
April	29	.03	5.34
May	26	5.2	15.9
June	51	.03	19.1
July	14.4	.05	6.50
August	2.2	.27	1.12
September	60	.41	12.1
Year ending Sept. 30, 1931	60	0	8.31
October	2.8	0	.396
November	1.25	.08	.258
December	6.8	0	2.10
Calendar year, 1931	60	0	7.53
January, 1932	18.6	1.08	8.82
February	27	1.09	9.62
March	41	.94	12.6
April	42	6.5	17.9
May	9.3	1.72	5.73
June	2.9	.15	1.50
July	1.25	0	.233
August	0	0	0
September	0	0	0
Year ending Sept. 30, 1932	42	0	4.90
October			
November 5-30	104	9.5	39.1
December	39	5.7	13.2
Calendar year, 1932	104	0	
January, 1933	14.8	7.5	10.4
February	21	7.0	13.0
March	34	10.6	20.5
April	47	13.3	26.9
May	15.6	4.9	10.6
June	7.5	0	3.58
July	.05	0	.017
August	36	0	6.92
September	43	9.1	19.8
Year ending Sept. 30, 1933	104	0	

Beaver Brook at outlet of Splitrock Pond
(Continued)

Monthly and annual discharge, in second-feet, 1925-34
(continued)

Month	Maximum	Minimum	Mean
October, 1933	10	2.4	4.67
November	3.3	1.89	2.45
December	8.1	1.81	4.24
Calendar year, 1933	47	0	10.2
January, 1934	23	6.1	14.2
February	8.7	1.72	3.94
March	25	2.1	14.9
April	35	15.2	24.4
May	18.6	12.7	14.9
June	23	5.0	11.0
July	10.2	.70	3.53
August	.70	.11	.24
September	52	.15	12.5
Year ending Sep. 30, 1934	52	.11	9.26

Whippany River at Morristown

LOCATION.- Water-stage recorder at Morristown sewage disposal plant, three-quarters of a mile below Morristown, Morris County, and 8 miles above mouth of river. Staff gage at same site used prior to July 16, 1930.

DRAINAGE AREA.- 29 square miles.

RECORDS AVAILABLE.- August 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years, 47.2 second-feet.

EXTREMES.- 1921-34: Maximum discharge, about 1 100 second-feet Aug. 26, 1928 (gage height, 7.30 feet); minimum, 2.8 second-feet Aug. 27, 1932 (gage height, 0.73 foot).

REMARKS.- Water-stage recorder operated by Department of Public Works of Morristown.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	33	185	29	‡ 22	81	50	110	41	24	12	10
2	41	33	76	33	‡ 22	98	41	104	40	23	12	10
3	50	33	41	30	‡ 24	86	41	104	38	18	12	8
4	41	43	30	33	‡ 26	76	40	92	40	18	12	8
5	40	50	34	40	‡ 28	163	50	86	41	18	12	8
6	41	33	30	261	34	277	136	86	47	18	12	17
7	41	33	30	86	411	122	60	200	45	18	12	12
8	33	41	28	60	104	81	49	92	51	17	11	43
9	33	33	27	40	55	76	45	81	42	18	11	52
10	33	33	26	136	42	81	55	76	38	18	11	28
11	33	33	25	70	25	65	53	70	36	17	11	17
12	33	33	25	52	‡ 18	65	178	65	35	17	11	12
13	33	34	26	‡ 36	‡ 18	65	122	104	30	16	11	12
14	33	33	27	‡ 22	‡ 18	129	76	81	30	17	11	32
15	33	25	25	‡ 22	‡ 18	129	70	81	35	17	25	20
16	33	25	24	‡ 30	‡ 22	92	156	70	32	16	14	12
17	33	25	25	‡ 36	27	81	200	58	32	16	11	22
18	33	30	57	54	32	65	104	54	39	16	11	59
19	56	31	40	54	32	60	86	122	30	25	31	20
20	41	37	30	39	‡ 20	60	81	110	30	18	16	15
21	35	28	‡ 22	31	‡ 18	58	86	116	30	14	12	12
22	31	31	‡ 18	32	‡ 46	58	136	86	27	14	11	12
23	33	35	‡ 20	38	‡ 26	70	98	65	26	14	11	12
24	41	33	‡ 24	35	‡ 18	65	76	60	25	13	11	11
25	31	31	28	33	‡ 22	56	92	86	25	13	11	11
26	32	28	21	‡ 26	178	56	377	60	48	12	10	11
27	33	28	22	‡ 22	293	52	170	54	28	12	10	11
28	35	28	40	‡ 20	156	50	122	50	29	12	13	11
29	33	27	25	‡ 20		49	200	48	30	12	11	11
30	33	30	21	‡ 22		46	116	48	24	12	10	11
31	33		20	‡ 22		50		47		12	11	

‡ Estimated, stage-discharge relation affected by ice.

Whippany River at Morristown
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	18	20	40	36	42	35	35	22	14	12	10
2	104	18	21	40	36	46	34	47	18	52	11	11
3	200	65	21	55	35	45	35	40	16	24	10	11
4	39	54	28	42	36	43	34	35	12	21	10	9
5	19	30	29	41	122	36	33	33	12	18	9	9
6	17	24	24	30	58	36	33	33	12	22	8	9
7	16	20	21	30	41	40	122	37	13	18	8	11
8	14	20	21	31	40	261	76	36	12	16	9	11
9	14	18	21	34	40	129	43	33	25	16	9	10
10	13	17	21	30	36	81	42	31	245	24	9	9
11	13	17	21	25	35	70	41	32	116	18	10	9
12	12	16	20	25	33	104	40	32	40	16	8	8
13	12	16	21	41	60	70	48	33	33	13	8	9
14	12	20	39	65	76	59	50	33	30	20	9	78
15	12	18	40	92	34	52	43	54	28	15	20	22
16	11	18	30	52	31	54	60	38	22	14	15	17
17	14	20	26	40	31	56	60	38	20	14	12	19
18	12	185	58	60	30	52	60	35	33	13	11	14
19	12	76	230	52	33	65	56	47	24	13	10	12
20	11	39	86	46	40	50	48	47	22	11	16	12
21	11	30	56	41	48	49	43	38	20	12	11	† 12
22	13	25	40	39	48	43	50	33	18	14	10	† 11
23	104	22	35	38	50	41	45	30	17	16	57	† 11
24	31	18	33	38	53	47	41	28	16	20	25	† 11
25	22	18	32	39	52	60	41	38	† 16	20	15	† 10
26	18	18	30	37	98	59	38	27	† 16	14	12	† 10
27	18	18	30	38	65	48	36	22	53	12	12	† 10
28	15	20	32	38	52	41	35	29	17	12	11	† 9
29	15	19	40	40		40	33	28	16	13	10	9
30	16	20	42	38		40	33	24	14	14	10	9
31	18		38	38		39		22		12	10	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.3	11.4	40	‡ 17.2	‡ 14	24	100	41	78	18.8	23	18.8
2	7.3	9.0	22	‡ 17	15.2	26	126	41	44	18.0	22	47
3	7.3	8.4	17.2	‡ 15	13.3	23	71	43	35	18.8	27	116
4	7.3	10.7	13.3	14.6	12.0	23	64	38	30	20	31	40
5	7.3	34	14.0	36	11.4	25	57	37	30	19.5	23	28
6	6.8	23	14.0	145	11.4	23	54	36	28	50	23	22
7	6.8	11.4	14.6	44	12.6	20	69	37	32	41	19.5	18.8
8	6.8	10.7	14.6	28	18.8	135	74	90	117	30	17.2	17.2
9	7.3	10.7	14.0	24	30	158	56	62	47	30	19.5	17.2
10	7.3	10.2	13.3	19.5	55	59	50	63	64	209	23	16.6
11	7.3	10.2	13.3	18.0	28	42	51	85	82	306	34	15.2
12	6.8	10.2	14.0	18.8	22	38	46	55	44	102	59	14.0
13	7.3	10.7	14.0	20	35	35	43	62	35	62	34	14.6
14	7.3	12.6	12.0	17.2	190	34	41	59	31	113	25	17.2
15	9.6	55	‡ 11	‡ 13.3	38	32	39	53	30	224	26	18.8
16	9.0	45	‡ 10	‡ 12.6	26	33	38	44	72	89	28	17.2
17	9.6	63	‡ 10	‡ 12.6	31	32	37	40	160	62	21	18.8
18	10.2	181	‡ 10	14.6	205	28	37	38	52	56	18	19.5
19	10.2	49	10.7	33	57	30	35	36	38	58	21	15.2
20	9.6	28	12.6	37	39	37	34	35	32	53	18.8	14.6
21	9.0	22	11.4	26	32	40	34	61	28	75	17.2	16.6
22	7.3	19.5	12.0	18	30	33	34	55	27	63	16.6	15.9
23	6.8	17.2	12.0	‡ 15	29	30	94	113	32	44	18.8	14.6
24	7.3	15.9	12.6	14.6	27	29	51	58	33	47	19.5	13.3
25	9.6	17.2	12.0	‡ 14	25	49	40	47	27	39	32	12.0
26	7.8	15.9	17.2	16.6	24	43	94	43	26	33	26	18.8
27	9.6	14.0	117	25	23	34	96	37	24	30	65	17.2
28	11.4	‡ 13	71	27	22	33	53	35	21	29	84	14.0
29	12.6	‡ 13	31	20		241	47	32	19.5	30	33	13.3
30	12.6	14	24	18		102	43	31	20	29	27	12.6
31	18.0		23	‡ 15		63		33		26	22	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Whippany River at Morristown
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.6	24	21	17.2	26	28	141	80	15.9	13.3	5.3	8.4
2	12.0	15.9	13.3	82	24	23	82	67	15.9	62	5.8	24
3	12.0	11.4	12.0	74	27	23	72	43	16.6	22	10.8	9.0
4	11.4	10.7	35	37	34	22	62	38	15.2	20	12.0	7.3
5	11.4	11.4	46	28	77	23	60	35	14.0	24	7.3	7.3
6	11.4	10.2	19.5	108	43	43	58	35	15.8	17.2	6.8	12.7
7	11.4	11.4	15.2	239	39	99	54	40	20	15.2	6.8	7.3
8	14.0	12.6	14.6	78	41	‡ 32	52	44	12.6	13.3	7.3	6.3
9	20	12.6	19.0	82	37	‡ 28	52	43	12.0	11.4	5.8	4.6
10	14.0	14.0	47	57	32	‡ 22	88	35	11.4	10.2	7.6	4.2
11	12.0	14.0	30	43	71	23	96	33	10.2	9.0	16.6	5.0
12	10.7	13.3	22	38	52	25	148	36	18.0	8.4	7.8	5.3
13	10.2	13.3	18.8	39	40	23	83	37	27	8.4	6.3	4.6
14	11.4	13.3	20	33	34	22	68	31	18.8	8.4	5.8	4.2
15	16.7	12.6	16.6	30	30	23	61	29	16.6	7.8	5.3	5.0
16	28	† 13	13.3	28	31	20	57	28	19.6	7.8	9.0	9.1
17	15.9	† 14	12.0	26	31	29	50	25	47	9.0	† 8	6.3
18	12.6	14.0	13.3	27	35	36	48	23	25	10.7	† 11	4.2
19	13.3	13.3	14.0	23	29	28	47	22	18.0	8.4	† 22	5.3
20	13.3	18.8	14.6	23	27	28	45	22	16.6	8.4	† 13	5.3
21	13.3	15.9	14.6	24	28	25	43	20	15.2	10.7	† 10	5.0
22	12.0	14.6	19.5	30	27	89	42	18.0	52	11.7	† 7	5.3
23	12.6	13.3	38	33	27	65	40	17.2	23	14.0	6.3	10.0
24	13.3	12.6	25	42	23	43	39	17.2	14.6	8.4	6.3	5.3
25	12.6	12.0	20	30	‡ 20	39	39	16.6	12.6	7.8	6.3	4.6
26	10.7	10.2	15.9	26	23	37	48	15.9	13.3	7.3	5.0	4.6
27	10.7	11.4 ‡	14	45	24	39	49	22	24	7.3	5.0	5.3
28	11.4	12.6 ‡	14	32	29	337	40	33	44	6.8	6.3	15.7
29	29	13.3	14.6	28	30	158	38	19.5	18.8	6.3	5.3	9.0
30	27	20	12.6	47		88	36	18.0	13.3	5.8	5.0	6.8
31	24		12.0	34		96		16.6		5.3	5.3	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.3	182	55	46	40	56	101	61	52	40	10.7	21
2	5.3	181	54	41	40	50	122	60	39	61	10.7	19.5
3	5.0	47	52	41	41	47	102	95	39	48	10.7	44
4	5.3	34	51	42	‡ 34	47	129	101	49	31	42	147
5	10.7	29	49	44	‡ 32	44	99	62	41	24	15.9	82
6	111	26	47	41	‡ 32	41	92	96	96	21	12.0	39
7	50	153	45	40	35	65	182	128	43	18.8	11.4	30
8	14.6	81	45	39	145	222	111	70	37	17.2	12.6	27
9	9.6	70	42	44	59	82	91	62	31	16.6	15.2	27
10	8.4	528	41	61	‡ 40	61	86	99	32	15.9	12.0	23
11	7.8	149	41	52	‡ 46	52	81	68	30	15.9	48	22
12	7.8	84	51	62	‡ 46	50	255	61	28	16.6	18.0	21
13	7.3	64	57	46	‡ 42	64	250	60	33	15.9	15.2	19.5
14	7.8	55	49	38	‡ 42	146	125	58	27	14.6	41	82
15	9.0	49	45	37	49	100	112	57	26	15.2	21	716
16	10.2	47	‡ 40	38	50	72	105	68	26	35	15.2	378
17	23	67	‡ 38	39	40	65	253	70	32	35	14.6	164
18	318	49	‡ 36	40	46	63	252	52	26	21	19.5	110
19	92	446	‡ 34	43	49	84	146	47	23	16.6	20	89
20	34	421	‡ 34	47	216	165	125	58	21	15.2	18.0	77
21	23	149	‡ 32	40	157	314	114	86	21	15.9	22	70
22	18.0	115	‡ 34	50	81	201	108	48	20	15.2	114	64
23	15.9	94	‡ 34	63	76	126	94	43	18.8	14.6	148	58
24	14.6	88	45	44	77	111	90	41	18.0	14.0	476	63
25	14.6	80	85	36	70	99	86	43	18.8	13.3	118	53
26	14.6	94	77	57	77	116	83	38	23	14.0	47	50
27	46	71	51	58	61	116	74	35	23	13.3	35	48
28	28	62	104	48	58	103	70	44	23	12.6	28	45
29	19.5	60	69	46		89	67	41	20	12.0	28	47
30	15.9	57	56	42		80	63	87	23	11.4	27	42
31	14.6		56	40		76		58		10.7	23	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Whippany River at Morristown
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	102	31	24	‡ 40	‡ 29	22	321	48	36	22	17.9	8.9
2	248	30	22	63	‡ 34	30	125	46	33	20	18.2	8.9
3	70	30	24	38	28	‡ 60	95	133	31	22	28	9.4
4	54	29	31	27	‡ 25	245	110	176	34	29	17.3	26
5	52	28	29	57	‡ 23	485	93	86	34	20	14.2	16.7
6	49	34	28	90	‡ 23	144	82	66	31	20	13.0	14.8
7	44	35	31	79	‡ 22	70	115	59	28	23	13.0	29
8	42	32	26	167	‡ 22	54	89	51	26	59	12.4	222
9	39	31	‡ 26	77	‡ 22	47	73	49	26	27	16.2	215
10	38	31	‡ 22	65	‡ 22	44	67	56	34	21	20	45
11	35	29	‡ 17.3	68	‡ 22	43	82	70	31	19.8	22	30
12	34	28	‡ 16.7	64	‡ 23	‡ 42	215	50	34	18.5	31	23
13	38	28	‡ 16.7	79	‡ 26	46	96	45	54	18.5	56	22
14	35	31	‡ 18.5	98	‡ 23	56	88	44	30	19.8	24	23
15	34	28	‡ 17.3	73	‡ 28	47	81	67	26	22	17.9	90
16	33	24	‡ 24	67	‡ 23	44	112	65	23	19.8	51	76
17	72	25	39	‡ 56	‡ 22	44	136	45	22	16.7	33	187
18	66	30	56	‡ 49	‡ 22	50	83	41	22	15.4	21	74
19	40	28	35	‡ 43	‡ 21	45	76	36	209	14.8	17.3	34
20	37	27	47	38	‡ 21	40	92	38	122	14.2	16.1	33
21	34	26	74	34	‡ 23	38	77	43	42	15.4	13.6	30
22	33	28	42	34	‡ 32	38	69	51	31	13.6	13.6	34
23	32	26	34	115	‡ 30	31	66	72	34	16.7	13.0	32
24	39	25	31	64	‡ 24	‡ 30	66	40	29	13.6	17.5	33
25	60	24	28	45	‡ 22	‡ 29	88	142	26	27	23	28
26	38	25	‡ 25	43	‡ 21	34	67	189	24	17.3	12.4	26
27	34	27	‡ 28	39	‡ 21	44	60	70	25	14.8	11.8	25
28	34	24	‡ 26	43	‡ 21	212	56	53	48	41	15.6	24
29	32	24	‡ 25	‡ 30		86	51	49	29	25	14.2	63
30	33	24	‡ 24	‡ 23		61	49	47	24	21	12.4	464
31	32		‡ 25	‡ 25		129		40		18.5	11.2	

‡ Estimated, stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	56	31	36.3	1.25	1.44
November	50	25	32.3	1.11	1.24
December	185	18	34.6	1.19	1.37
Calendar year, 1928	760	18	71.5	2.47	33.52
January, 1929	261	20	47.2	1.63	1.88
February	411	18	62.7	2.16	2.25
March	277	46	82.6	2.85	3.29
April	377	40	106	3.66	4.08
May	200	47	82.8	2.86	3.30
June	51	24	34.8	1.20	1.34
July	25	12	16.3	.562	.65
August	31	10	12.6	.434	.50
September	59	8	17.7	.610	.68
Year ending Sept. 30, 1929	411	8	47.0	1.62	22.02
October	200	11	27.4	.945	1.09
November	185	16	30.6	1.06	1.18
December	230	20	38.9	1.34	1.54
Calendar year, 1929	411	8	46.5	1.60	21.78
January, 1930	92	25	41.8	1.44	1.66
February	122	30	48.2	1.66	1.73
March	261	36	61.2	2.11	2.43
April	122	33	46.3	1.60	1.78
May	54	22	34.5	1.19	1.37
June	245	12	31.9	1.10	1.23
July	52	11	17.1	.590	.68
August	57	8	12.8	.441	.51
September	78	8	13.4	.462	.52
Year ending Sept. 30, 1930	261	8	33.6	1.16	15.72

Whippany River at Morristown
(Continued)

Monthly and annual discharge, in second-feet, 1928-34.
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	18	6.8	8.72	0.301	0.35
November	181	8.4	25.5	.879	.98
December	117	10	20.6	.710	.82
Calendar year, 1930	261	6.8	30.0	1.03	14.06
January, 1931	145	12.6	24.7	.852	.98
February	205	11.4	38.5	1.33	1.38
March	241	20	50.1	1.73	1.99
April	126	34	56.9	1.96	2.19
May	113	31	49.7	1.71	1.97
June	160	19.5	44.6	1.54	1.72
July	306	18.0	65.3	2.25	2.59
August	84	16.6	28.2	.972	1.12
September	116	12.0	21.8	.752	.84
Year ending Sept. 30, 1931	306	6.8	36.2	1.25	16.93
October	29	10.2	14.5	.500	.58
November	24	10.2	13.7	.472	.53
December	47	12.0	19.9	.686	.79
Calendar year, 1931	306	10.2	35.7	1.23	16.68
January, 1932	239	17.2	47.8	1.65	1.90
February	77	20	34.2	1.18	1.27
March	337	20	52.1	1.80	2.08
April	148	36	61.3	2.11	2.35
May	80	15.9	31.0	1.07	1.23
June	52	10.2	19.9	.686	.77
July	62	5.3	12.5	.431	.50
August	22	5.0	8.00	.276	.32
September	24	4.2	7.23	.249	.28
Year ending Sept. 30, 1932	337	4.2	26.8	.924	12.60
October	318	5.0	31.2	1.08	1.24
November	528	26	121	4.17	4.65
December	104	32	50.0	1.72	1.98
Calendar year, 1932	528	4.2	39.6	1.37	18.57
January, 1933	63	36	45.3	1.56	1.80
February	216	32	63.6	2.19	2.28
March	314	41	97.0	3.34	3.85
April	255	63	122	4.21	4.70
May	128	35	64.4	2.22	2.56
June	96	18.0	31.3	1.08	1.20
July	61	10.7	20.7	.714	.82
August	476	10.7	46.8	1.61	1.86
September	716	19.5	89.3	3.08	3.44
Year ending Sept. 30, 1933	716	5.0	65.0	2.24	30.38
October	248	32	50.4	1.74	2.01
November	35	24	28.1	.969	1.08
December	74	16.7	29.4	1.01	1.16
Calendar year, 1933	716	10.7	57.2	1.97	26.76
January, 1934	167	23	59.1	2.04	2.35
February	34	21	24.1	.831	.87
March	485	22	77.1	2.66	3.07
April	321	49	96.0	3.31	3.69
May	189	36	66.7	2.30	2.65
June	209	22	39.9	1.38	1.54
July	59	13.6	21.5	.741	.85
August	58	11.2	20.0	.690	.80
September	464	8.9	64.9	2.24	2.50
Year ending Sept. 30, 1934	485	8.9	48.2	1.66	22.57

Ramapo River near Mahwah

LOCATION.- Water-stage recorder at highway bridge three-fourths of a mile below mouth of Mahwah River and 1 mile west of Mahwah, Bergen County.

DRAINAGE AREA.- 118 square miles.

RECORDS AVAILABLE.- February 1903 to December 1906, September 1922 to September 1934.

AVERAGE DISCHARGE.- 12 years (1922-34), 203 second-feet.

EXTREMES.- 1903-06, 1922-34: Maximum discharge, about 5 380 second-feet Oct. 9, 1903 (gage height, 9.8 feet); minimum daily discharge, 8 second-feet Aug. 25, 1929, Sept. 5, 12, 1932.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	80	49	136	76	95	413	204	413	127	110	42	15
2	69	49	118	174	89	385	215	385	110	92	34	16
3	68	48	100	136	79	472	184	385	96	89	29	18
4	62	58	89	127	82	442	174	332	89	73	31	17
5	64	96	90	94	75	747	216	307	73	57	37	18
6	73	75	90	910	75	1 490	260	332	110	58	33	26
7	56	80	86	1 060	662	1 070	260	472	101	49	32	43
8	58	79	69	534	760	630	215	358	100	41	31	110
9	62	72	58	358	442	503	204	307	95	36	29	110
10	56	71	78	358	358	385	215	272	89	59	24	75
11	58	52	51	385	283	358	260	237	83	44	19	59
12	58	67	72	307	237	332	433	237	64	42	30	51
13	58	62	72	237	194	442	728	385	76	37	28	52
14	47	59	46	194	174	823	565	332	71	34	29	56
15	52	55	63	174	164	1 170	442	307	71	35	37	63
16	52	46	57	155	146	960	† 550	272	66	35	33	59
17	50	44	78	146	155	728	† 950	237	60	23	28	72
18	49	48	110	155	146	534	† 850	204	64	32	22	88
19	57	60	127	237	164	442	† 550	267	60	63	29	56
20	55	62	101	226	146	385	† 440	385	† 80	71	24	43
21	44	56	89	174	136	358	† 440	385	† 85	51	16	33
22	52	67	76	164	136	332	† 600	413	† 80	57	15	28
23	51	57	64	155	136	332	† 650	332	71	45	14	22
24	56	55	79	146	118	307	503	283	98	30	12	18
25	62	41	62	136	127	283	466	272	118	32	8	17
26	63	39	64	146	248	283	795	226	164	26	12	19
27	52	44	76	118	472	272	597	204	136	26	12	18
28	41	43	79	118	630	237	518	194	110	21	20	19
29	66	52	76	110		204	630	184	155	35	25	12
30	48	59	69	101		204	503	164	110	37	23	16
31	47		78	89		204		146		36	21	

† Estimated.

Ramapo River near Mahwah
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	79	78	242	111	256	157	129	100	98	32	27
2	83	78	82	239	111	259	160	135	88	259	36	33
3	194	100	84	269	117	241	155	137	82	212	27	40
4	136	161	79	266	131	209	142	123	74	155	25	31
5	90	131	84	205	229	184	133	111	67	120	20	30
6	60	116	77	183	180	176	130	103	66	148	20	29
7	67	104	74	176	144	175	686	113	55	161	21	34
8	62	98	84	188	128	733	691	117	46	120	22	25
9	39	88	101	195	118	1 300	485	111	76	96	26	23
10	36	80	95	182	116	747	373	92	219	68	15	21
11	34	75	90	153	105	545	360	82	250	73	16	17
12	34	86	77	168	99	560	292	85	162	70	18	19
13	30	79	85	226	128	470	288	† 85	123	60	18	15
14	30	73	166	323	231	373	310	† 90	103	75	17	18
15	28	83	210	581	181	310	267	†220	88	76	21	41
16	28	68	185	457	146	283	266	†340	78	68	22	40
17	28	78	163	320	124	273	278	†170	74	61	20	42
18	31	219	276	321	127	264	316	†120	115	39	29	33
19	35	300	870	297	132	263	293	142	118	38	25	28
20	26	237	778	246	202	229	266	171	92	42	26	18
21	32	194	503	223	282	207	227	141	75	35	29	24
22	54	159	358	210	303	178	225	115	60	33	29	30
23	528	134	294	201	284	165	210	113	65	35	66	27
24	396	122	266	172	312	155	189	106	61	44	144	25
25	207	123	228	163	311	221	175	151	39	94	98	23
26	146	125	206	151	328	334	165	163	39	68	75	46
27	120	115	184	139	323	254	158	127	276	45	61	32
28	106	113	215	144	290	214	148	119	228	57	51	31
29	89	104	313	139		194	138	167	139	40	34	31
30	79	88	295	130		188	130	143	100	32	29	29
31	82		255	119		169		118		33	32	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	26	103	91	75	246	565	370	739	74	37	81
2	21	38	103	77	86	246	712	329	597	76	37	73
3	21	35	81	77	75	231	614	316	384	72	32	65
4	20	24	75	79	57	222	518	273	302	55	36	89
5	18	53	78	92	69	221	442	244	245	63	59	69
6	19	77	70	372	64	211	384	221	200	82	46	60
7	15	74	62	364	59	192	428	207	185	96	36	52
8	16	44	78	260	67	572	565	521	581	90	35	65
9	19	42	69	211	90	985	488	812	518	82	36	43
10	17	37	77	177	100	744	413	630	630	339	32	31
11	17	32	67	156	84	550	356	646	728	503	36	32
12	17	39	70	155	77	442	316	597	565	312	49	27
13	19	28	73	153	91	370	285	534	428	165	62	30
14	17	30	59	134	142	317	253	534	342	113	52	26
15	19	132	67	112	138	309	228	503	278	100	44	52
16	13	218	47	100	118	300	205	413	325	86	49	22
17	17	326	46	101	128	274	193	356	760	76	65	40
18	15	556	61	100	597	256	185	301	581	74	61	29
19	19	481	44	120	518	258	170	268	384	76	56	27
20	22	297	41	150	356	280	153	246	293	74	60	19
21	17	209	52	129	280	298	146	303	236	66	49	37
22	14	166	45	108	249	282	137	370	194	63	44	32
23	18	132	46	96	249	271	541	472	178	59	40	28
24	21	127	51	94	244	268	760	442	179	80	51	32
25	11	117	49	84	240	316	518	342	153	70	40	23
26	16	116	56	98	246	398	581	302	130	62	27	37
27	17	99	171	87	253	398	812	257	118	65	153	33
28	17	90	187	93	233	342	630	219	102	59	437	30
29	15	76	131	109		744	518	194	92	59	192	52
30	12	69	113	99		850	428	174	80	39	124	29
31	17		97	88		630		198		37	95	

†- Estimated.

Ramapo River near Mahwah
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	33	33	38	169	146	1 120	171	61	47	17	15
2	23	48	36	93	168	140	850	248	64	106	16	13
3	30	42	25	147	158	131	630	175	57	92	31	15
4	24	32	37	127	172	122	488	144	63	77	20	9
5	28	24	66	108	252	119	413	134	47	86	23	8
6	23	22	48	143	210	126	356	118	55	75	24	25
7	24	23	40	430	192	255	303	131	51	65	29	21
8	32	29	35	384	218	183	271	256	51	56	20	15
9	27	21	44	328	271	149	254	352	47	37	18	14
10	31	29	61	273	241	130	278	251	24	41	23	15
11	28	29	63	223	877	114	370	206	32	50	21	9
12	22	31	70	180	910	106	774	185	38	42	41	8
13	21	20	78	177	630	109	812	174	66	24	29	14
14	22	35	107	180	472	103	581	153	64	41	22	17
15	23	28	93	161	377	95	457	140	52	18	35	13
16	45	19	71	147	310	84	370	136	67	27	13	12
17	35	27	74	135	281	94	303	132	207	24	21	16
18	38	31	59	131	278	113	276	110	206	19	15	10
19	27	29	42	120	240	112	252	104	121	28	21	13
20	24	31	47	108	214	122	222	96	90	23	26	19
21	26	30	62	109	178	124	207	86	78	14	21	18
22	28	33	34	147	174	159	192	83	113	18	14	14
23	28	25	78	166	174	212	175	80	109	26	20	13
24	24	27	63	202	150	186	151	75	83	21	20	13
25	25	28	45	179	136	172	149	64	65	30	11	9
26	24	24	51	157	131	166	157	72	56	14	11	16
27	27	25	46	193	136	187	173	67	57	24	24	17
28	24	28	40	200	142	894	150	82	58	20	23	14
29	32	32	39	170	145	1 230	135	94	48	35	11	18
30	44	36	38	204		830	125	72	55	19	12	14
31	37		30	213		728		73		22	18	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	602	227	† 220	149	† 260	359	† 220	119	43	15	144
2	10	1 340	216	† 180	164	† 260	593	† 220	97	57	27	126
3	14	704	204	† 170	167	† 240	556	† 300	67	49	17	121
4	17	442	197	181	149	† 240	593	420	72	47	28	406
5	11	329	192	189	† 140	218	630	274	90	54	31	437
6	76	273	179	177	† 130	† 200	502	244	184	31	12	252
7	183	516	162	160	132	† 190	† 600	286	124	29	21	178
8	99	678	169	155	294	† 500	† 600	239	95	23	24	138
9	63	488	140	162	307	† 600	† 500	216	72	22	36	122
10	59	1 320	128	191	† 180	† 360	† 400	248	65	26	13	117
11	38	1 530	130	179	† 170	† 300	† 360	250	57	17	21	98
12	22	872	158	229	† 180	† 280	† 550	228	116	21	16	93
13	18	581	172	213	† 170	† 260	†1 000	208	200	23	18	76
14	16	442	153	176	† 160	† 420	† 900	198	108	16	83	90
15	28	356	142	165	† 170	† 480	† 750	177	84	20	52	793
16	23	316	130	169	214	† 440	† 650	168	75	17	41	1 260
17	22	370	116	149	200	† 400	† 900	170	60	46	23	1 330
18	401	342	109	158	191	† 360	†2 000	152	75	15	32	827
19	646	1 160	134	177	215	† 340	†1 200	136	64	12	40	502
20	442	2 370	113	206	455	† 380	† 950	122	64	14	30	358
21	289	1 630	114	173	688	† 460	† 700	133	54	25	37	294
22	198	972	108	204	502	1 200	† 550	124	49	20	336	249
23	155	688	117	260	451	888	† 460	117	33	10	565	204
24	134	538	150	222	420	688	† 400	97	41	18	2 890	186
25	116	468	244	203	359	556	359	84	38	13	2 370	179
26	101	436	292	211	† 340	519	345	92	26	30	1 220	168
27	160	359	245	216	† 300	519	299	83	34	20	574	159
28	186	300	365	200	† 280	451	269	83	40	11	353	139
29	146	258	356	186		406	† 260	79	24	14	271	138
30	126	242	296	169		359	† 230	116	30	10	205	114
31	112		283	158		312		125		16	162	

†- Estimated.

Ramapo River near Mahwah
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	52	† 56	‡ 136	† 128	‡ 70	1 670	218	154	50	43	22
2	162	63	† 56	214	† 130	‡ 95	1 220	203	153	59	27	17
3	113	76	† 60	235	† 114	164	766	369	119	53	45	12
4	97	61	† 67	165	† 95	295	630	786	112	41	42	29
5	† 90	53	† 80	206	† 82	1 350	556	612	102	38	14	30
6	† 100	64	† 75	341	† 75	1 580	484	436	93	55	31	15
7	† 90	49	† 84	642	† 70	806	519	374	88	37	14	30
8	† 75	67	† 74	1 250	† 68	484	451	299	79	44	35	148
9	† 70	80	† 64	909	† 66	‡ 340	389	267	59	82	12	786
10	† 60	77	† 56	612	† 66	‡ 270	345	262	66	59	31	406
11	70	62	† 50	468	† 68	‡ 235	309	406	76	62	12	180
12	52	65	† 50	374	† 73	‡ 210	704	307	108	35	21	115
13	66	68	† 50	333	† 83	225	630	248	111	52	46	88
14	62	† 72	† 50	389	† 86	260	502	230	83	32	21	82
15	50	† 66	† 54	332	† 84	296	502	377	71	33	41	199
16	64	† 60	† 71	276	‡ 74	273	468	436	63	51	16	312
17	67	† 57	† 88	242	70	284	630	331	54	31	40	914
18	122	† 64	† 112	211	‡ 64	324	484	277	64	43	21	868
19	101	† 59	† 140	183	‡ 64	336	406	237	378	26	29	464
20	82	† 62	† 120	170	‡ 85	284	436	237	564	35	38	284
21	64	† 59	† 160	163	‡ 140	246	406	223	237	16	14	218
22	60	† 58	198	148	130	225	331	207	154	12	32	176
23	61	† 58	173	304	113	193	302	246	127	30	15	178
24	74	† 57	159	374	‡ 80	176	289	209	108	13	29	170
25	117	† 56	156	272	‡ 67	174	468	244	92	43	18	135
26	110	† 57	145	240	‡ 64	177	389	389	82	28	20	109
27	92	† 62	‡ 120	210	‡ 63	209	320	302	56	43	27	107
28	78	† 66	‡ 95	210	‡ 64	675	279	232	75	32	16	88
29	65	† 60	‡ 86	207		739	246	192	65	67	26	124
30	71	† 58	‡ 86	‡ 115		468	234	194	50	66	15	728
31	62		‡ 90	‡ 120		495		176		43	28	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	80	41	57.0	0.483	0.56
November	96	39	58.2	.493	.55
December	136	46	80.7	.684	.79
Calendar year, 1928	1 220	39	239	2.03	27.58
January, 1929	1 060	76	242	2.05	2.36
February	760	75	233	1.97	2.05
March	1 490	204	507	4.30	4.96
April	950	174	454	3.85	4.30
May	472	146	298	2.53	2.92
June	164	60	93.7	.794	.89
July	110	21	47.6	.403	.46
August	42	8	25.1	.213	.25
September	110	12	41.6	.353	.39
Year ending Sept. 30, 1929	1 490	8	178	1.51	20.48
October	528	19	94.5	.801	.92
November	300	68	120	1.02	1.14
December	870	74	221	1.87	2.16
Calendar year, 1929	1 490	8	198	1.68	22.80
January, 1930	581	119	227	1.92	2.21
February	328	99	189	1.60	1.67
March	1 300	155	327	2.77	3.19
April	691	130	260	2.20	2.46
May	340	82	134	1.14	1.31
June	276	39	105	.890	.99
July	259	32	82.4	.698	.80
August	144	15	35.6	.302	.35
September	46	15	28.7	.243	.27
Year ending Sept. 30, 1930	1 300	15	152	1.29	17.47

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Ramapo River near Mahwah
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	30	11	17.6	0.149	0.17
November	556	24	126	1.07	1.19
December	187	41	76.4	.647	.75
Calendar year, 1930	1 300	11	134	1.14	15.36
January, 1931	372	77	134	1.14	1.31
February	597	57	178	1.51	1.57
March	985	192	388	3.29	3.79
April	760	137	418	3.54	3.95
May	812	174	374	3.17	3.66
June	760	80	351	2.97	3.31
July	503	37	105	.890	1.03
August	437	27	70.1	.594	.68
September	89	19	42.2	.358	.40
Year ending Sept. 30, 1931	985	11	190	1.61	21.81
October	45	21	28.5	.242	.28
November	48	19	29.0	.246	.27
December	107	25	53.4	.453	.52
Calendar year, 1931	985	19	181	1.53	20.77
January, 1932	430	38	180	1.53	1.76
February	910	131	276	2.34	2.52
March	1 230	84	240	2.03	2.34
April	1 120	125	366	3.10	3.46
May	352	64	138	1.17	1.35
June	207	24	72.8	.617	.69
July	106	14	39.4	.334	.39
August	41	11	21.0	.178	.21
September	25	8	14.2	.120	.13
Year ending Sept. 30, 1932	1 230	8	121	1.03	13.92
October	646	10	127	1.08	1.24
November	2 370	242	697	5.91	6.59
December	365	108	185	1.57	1.81
Calendar year, 1932	2 370	8	195	1.65	22.49
January, 1933	260	149	187	1.58	1.82
February	688	130	260	2.20	2.29
March	1 200	190	422	3.58	4.13
April	2 000	230	616	5.22	5.82
May	420	79	181	1.53	1.76
June	200	24	75.2	.637	.71
July	57	10	24.8	.210	.24
August	2 890	12	308	2.61	3.01
September	1 330	76	310	2.63	2.93
Year ending Sept. 30, 1933	2 890	10	281	2.38	32.35
October	162	50	82.4	.698	.80
November	80	52	62.5	.530	.59
December	195	50	94.3	.799	.92
Calendar year, 1933	2 890	10	218	1.85	25.02
January, 1934	1 250	115	324	2.75	3.17
February	140	63	84.5	.716	.75
March	1 580	70	386	3.27	3.77
April	1 670	234	512	4.34	4.84
May	786	176	307	2.60	3.00
June	564	50	121	1.03	1.15
July	82	12	42.3	.358	.41
August	46	12	26.4	.224	.26
September	914	12	234	1.98	2.21
Year ending Sept. 30, 1934	1 670	12	190	1.61	21.87

Ramapo River at Pompton Lakes

LOCATION.- Water-stage recorder at hydroelectric plant in Pompton Lakes, Passaic County, 1⅛ miles above mouth of river.

DRAINAGE AREA.- 160 square miles.

RECORDS AVAILABLE.- October 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years, 272 second-feet.

EXTREMES.- 1921-34: Maximum discharge, about 7 220 second-feet, flow through waste gate and turbines not included, Sept. 2, 1927 (gage height, 2.68 feet); no flow on numerous days, owing to regulation.

REMARKS.- Daily discharge includes flow over spillway, through turbines, and waste gate. Slight regulation of flow by storage in lake. Water-stage recorder operated and record of operation of turbines furnished by Jersey Central Power and Light Co.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	140	27	169	62	154	679	251	619	219	98	109	10
2	144	19	194	125	147	537	282	525	190	104	10	10
3	131	19	170	117	147	694	258	525	60	106	38	10
4	127	58	89	133	147	667	244	481	115	10	10	10
5	114	63	81	141	129	957	272	411	168	113	89	10
6	140	71	57	874	41	1 940	332	427	76	111	10	10
7	53	60	127	1 470	690	1 600	339	610	128	10	10	111
8	92	49	120	749	1 080	950	299	539	168	104	10	109
9	48	52	39	514	643	697	270	433	161	60	10	123
10	40	† 57	48	489	489	518	271	375	161	10	109	121
11	29	† 52	45	561	394	470	322	331	73	10	10	48
12	48	† 52	41	431	325	437	541	312	104	104	10	104
13	118	110	51	340	270	507	1 070	459	111	98	10	10
14	36	34	86	263	251	920	829	453	104	10	56	111
15	59	59	29	261	228	1 470	661	412	111	10	10	10
16	56	34	58	229	217	1 280	846	360	10	96	109	111
17	51	35	57	222	200	1 000	1 660	310	98	10	10	10
18	57	51	90	222	210	742	1 430	277	98	10	10	117
19	26	94	128	288	189	618	1 030	307	104	10	63	148
20	69	66	100	315	205	538	779	530	98	100	56	10
21	3	62	88	253	197	481	719	525	104	10	10	110
22	60	41	129	221	197	444	844	579	117	102	10	10
23	59	50	86	213	197	436	829	449	10	102	102	10
24	75	97	81	203	197	415	689	378	104	10	10	94
25	61	36	88	212	197	371	605	372	98	11	10	10
26	55	69	53	206	229	356	1 250	316	141	126	10	10
27	52	36	74	171	687	346	974	279	155	96	10	94
28	3	26	93	150	879	312	764	259	104	10	109	10
29	45	42	101	120		287	964	262	139	10	10	10
30	41	65	79	154		265	749	230	148	10	10	10
31	31		98	154		268		219		12	118	

†- Estimated.

Ramapo River at Pompton Lakes
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	104	231	340	175	† 320	240	† 190	120	† 140	57	44
2	134	116	231	334	158	315	237	† 190	145	† 320	44	57
3	354	154	130	355	162	280	230	194	85	† 290	18	57
4	281	190	128	370	181	245	201	160	96	† 240	70	50
5	170	229	115	315	318	223	183	139	70	169	5	37
6	148	160	90	282	298	212	162	153	111	186	63	57
7	98	160	125	273	230	212	704	109	82	247	5	5
8	104	160	† 160	278	205	850	905	153	† 70	183	5	57
9	104	160	† 200	282	160	1 650	630	147	† 120	119	102	5
10	10	117	† 170	282	176	1 120	470	119	† 250	135	5	16
11	105	104	† 150	256	178	750	430	98	† 300	117	5	48
12	98	104	† 140	247	133	750	377	113	† 240	99	76	16
13	10	122	† 180	309	170	645	† 380	78	† 210	82	5	18
14	98	148	251	387	286	520	† 380	97	169	97	5	16
15	10	122	334	725	274	433	† 340	185	119	82	63	39
16	72	160	315	622	214	390	† 360	287	114	87	37	73
17	72	54	282	444	† 190	370	† 400	218	107	87	5	77
18	10	248	† 400	422	† 180	360	† 500	† 170	166	81	63	44
19	98	403	†1 200	† 380	† 200	360	460	† 190	166	82	57	44
20	10	340	† 900	† 340	242	324	411	† 220	152	31	24	50
21	10	298	700	† 280	304	292	370	167	117	84	82	57
22	122	260	514	† 240	340	258	339	176	† 100	37	5	5
23	569	237	411	† 220	† 340	239	340	162	97	37	105	5
24	568	† 220	377	† 200	† 360	228	309	152	82	37	172	89
25	340	† 200	334	† 200	† 360	286	293	175	98	109	160	5
26	247	† 220	309	† 190	† 420	420	269	232	84	70	97	5
27	176	196	293	† 200	† 400	370	† 240	181	263	103	78	98
28	167	164	298	132	† 360	315	† 220	152	334	24	68	5
29	162	208	386	164		287	† 240	220	† 280	71	63	91
30	160	180	420	220		269	† 200	189	† 140	70	82	5
31	141		362	146		256		183		18	5	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	4.0	† 68	144	† 145	286	704	454	683	70	36	74
2	51	44	† 169	129	† 140	291	924	398	742	73	67	‡ 83
3	41	44	† 115	124	† 140	282	764	390	473	164	16.5	‡ 94
4	41	37	† 111	127	† 135	277	620	351	364	77	70	‡ 91
5	4.0	47	† 76	127	† 130	273	518	313	312	‡ 23	57	‡ 80
6	28	110	122	369	† 130	261	444	289	273	‡ 164	† 70	67
7	28	98	97	443	† 130	250	465	273	245	‡ 164	† 50	70
8	28	71	61	303	† 125	421	634	678	610	‡ 164	†‡ 50	50
9	28	44	170	278	† 125	1 290	581	†1 200	686	‡ 77	†‡ 50	84
10	4.0	51	71	258	† 130	1 100	474	† 984	706	‡ 149	†‡ 50	36
11	47	51	91	240	† 135	676	407	† 934	964	516	†‡ 55	40
12	4.0	51	94	234	† 140	415	359	† 834	752	401	†‡ 55	23
13	33	51	110	167	† 150	434	321	† 754	538	239	†‡ 55	42
14	33	51	99	† 152	† 160	374	308	† 654	416	177	†‡ 55	50
15	28	115	66	† 150	† 170	366	282	† 554	341	164	55	46
16	33	273	† 90	† 150	† 190	351	264	495	372	164	54	46
17	4.0	368	† 76	† 150	† 220	332	250	416	1 090	131	54	46
18	20	502	† 76	† 150	† 670	308	† 241	362	871	3	80	50
19	4.0	512	† 79	† 150	† 720	297	† 234	332	543	143	54	50
20	16.5	357	101	† 165	† 450	328	† 234	† 309	389	70	90	40
21	16.5	286	4	† 210	354	351	234	† 304	302	99	57	16
22	37	174	71	† 210	310	332	139	† 404	251	134	57	57
23	37	194	71	† 190	† 250	319	582	586	238	29	43	40
24	4.0	179	71	† 165	† 180	313	1 160	583	238	140	50	32
25	47	179	71	† 145	† 225	344	707	434	214	36	67	36
26	4.0	170	71	138	308	407	752	381	186	110	40	23
27	4.0	41	157	144	308	407	1 200	332	176	93	62	43
28	44	† 98	305	149	286	374	876	291	164	67	434	29
29	41	† 90	238	161		846	662	264	164	70	267	56
30	4.0	† 97	211	154		1 250	542	246	164	97	185	50
31	41		149	† 150		854		240		29	134	

†- Discharge over spillway estimated.
‡- Discharge through turbines estimated.

Ramapo River at Pompton Lakes
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	50	† 50	3	256	187	1 180	126	55	60	† 27	27
2	46	46	† 54	67	211	175	949	313	76	99	† 33	27
3	30	46	† 43	158	205	174	663	231	86	103	† 30	3
4	26	46	† 43	193	207	165	473	209	80	84	† 33	3
5	40	43	50	168	312	152	399	188	5	70	† 30	3
6	36	23	70	170	286	93	338	174	101	67	30	36
7	30	43	54	481	214	319	300	171	59	64	33	36
8	30	3	50	515	293	251	266	224	58	64	33	33
9	54	50	50	427	305	140	259	439	59	64	33	3
10	36	36	80	368	298	128	203	318	82	43	30	30
11	20	36	103	310	953	121	309	299	50	33	27	3
12	30	36	64	268	1 300	113	763	240	3	56	23	27
13	36	36	103	242	865	114	902	218	79	44	40	3
14	36	50	124	244	628	112	† 650	213	84	30	30	23
15	30	3	154	194	514	103	† 500	149	74	52	33	3
16	36	46	77	241	387	88	† 400	214	82	27	30	30
17	43	36	97	187	346	106	† 320	167	158	30	27	23
18	36	32	84	164	369	123	† 280	158	245	27	30	3
19	50	32	74	164	305	123	† 250	145	154	27	3	3
20	36	40	46	164	281	121	† 230	122	107	27	30	27
21	36	40	54	103	212	125	† 210	103	103	30	3	3
22	30	3	110	170	233	155	† 200	35	99	27	36	30
23	23	46	54	222	215	267	† 180	143	126	27	27	3
24	54	36	38	254	198	230	† 170	125	107	27	23	36
25	30	36	132	247	191	214	† 160	66	93	27	23	3
26	40	36	67	213	178	205	† 170	72	84	30	3	30
27	30	36	50	228	176	183	† 180	104	46	27	43	30
28	32	† 46	50	262	118	1 060	† 170	79	67	27	3	3
29	40	† 3	50	245	218	1 670	† 160	63	65	30	30	30
30	46	† 64	50	251		914	156	168	52	† 40	30	3
31	50		46	† 390		713		55		† 3	3	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	468	290	283	191	325	454	283	165	66	32	† 190
2	3	1 540	271	† 250	199	316	652	276	142	311	31	† 170
3	3	1 000	260	† 240	204	315	715	367	127	162	34	164
4	27	508	250	257	194	296	734	605	121	140	38	382
5	33	436	239	240	190	268	803	404	153	114	43	498
6	54	† 400	230	226	164	251	667	346	357	89	47	321
7	170	† 600	208	210	175	244	791	432	226	35	23	235
8	142	† 750	217	199	322	693	794	354	173	89	30	186
9	109	† 600	194	211	360	811	614	310	138	29	50	176
10	50	†1 500	175	246	215	566	553	340	126	39	39	177
11	55	†1 900	174	234	223	406	480	352	116	50	51	151
12	53	†1 100	200	278	219	374	706	319	108	49	28	139
13	46	696	223	277	† 210	354	1 390	290	189	25	46	128
14	43	515	205	232	† 200	564	1 200	268	157	51	68	161
15	3	493	187	216	† 200	646	1 040	245	131	63	82	1 410
16	30	429	157	210	† 260	632	839	225	120	85	67	1 770
17	53	452	† 140	201	† 240	514	1 110	243	112	4	59	1 700
18	385	458	† 140	198	† 240	456	2 790	209	114	31	50	1 070
19	722	1 650	† 180	221	265	436	2 120	185	109	35	51	627
20	507	4 940	† 150	255	493	595	1 330	183	107	33	105	449
21	337	2 680	† 150	226	889	1 220	982	186	106	31	32	368
22	242	1 340	† 140	241	687	1 500	789	169	75	37	294	317
23	191	834	† 160	318	565	1 160	642	164	77	37	584	262
24	170	704	† 220	281	549	844	555	153	38	31	4 310	246
25	148	585	† 300	253	474	662	485	161	63	38	3 990	177
26	137	581	† 350	263	466	670	455	148	67	27	1 620	159
27	178	466	† 300	277	392	676	396	133	72	51	† 800	170
28	230	378	† 480	258	340	599	350	124	31	29	† 480	174
29	191	329	† 440	238		535	325	118	69	36	† 350	160
30	166	299	† 380	217		465	287	143	43	27	† 280	† 140
31	148		369	203		413		171		29	† 220	

†- Discharge over spillway estimated.

Ramapo River at Pompton Lakes
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	199	113	92	† 180	175	† 90	2 140	337	213	87	51	28
2	195	116	79	262	172	† 120	1 920	324	189	73	53	37
3	254	126	87	252	156	164	1 080	490	164	86	22	34
4	254	115	99	222	† 125	303	816	1 060	156	102	77	34
5		99	100	275	† 113	1 730	705	910	145	50	31	41
6		108	118	464	† 102	2 250	589	661	141	72	19	45
7		109	111	810	† 96	1 180	651	546	131	107	31	44
8		110	110	1 660	† 92	683	583	453	118	50	26	85
9		116	99	1 320	† 90	486	477	395	113	88	43	693
10		123	88	880	† 91	387	414	382	110	93	31	631
11		107	85	660	† 95	328	385	540	109	64	35	304
12	† 90	107	81	525	† 102	289	855	442	107	87	35	174
13		113	85	454	† 110	276	827	278	190	35	44	139
14		119	83	530	† 117	308	636	262	140	96	58	123
15		111	81	470	† 112	346	638	362	120	27	32	221
16		105	93	372	† 100	333	588	545	94	53	53	451
17		96	113	320	† 92	331	834	409	109	58	19	922
18		102	163	243	† 90	353	640	325	38	30	76	1 040
19		94	183	249	† 90	382	508	264	489	72	26	593
20	0	98	177	220	† 125	330	529	253	766	9	27	350
21	148	91	230	210	† 190	289	505	251	359	73	32	278
22	148	86	261	200	† 180	257	† 441	247	225	65	31	245
23	140	89	239	404	† 150	220	362	287	192	19	28	233
24	164	88	219	530	† 110	221	346	272	173	22	32	212
25	241	86	204	380	† 90	221	517	309	148	30	43	197
26	235	88	198	321	† 87	227	468	605	120	62	28	165
27	190	103	176	283	† 86	256	380	483	126	48	30	151
28	138	99	161	268	† 87	703	355	386	82	79	43	141
29	125	95	† 140	278		931	363	347	126	40	34	156
30	123	81	† 130	157		590	351	348	136	88	32	956
31	122		† 130	173		559		239		76	25	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	144	3	66.5	0.416	0.48
November	110	19	52.9	.331	.37
December	194	29	88.7	.554	.64
Calendar year, 1928	1 960	3	337	2.11	28.71
January, 1929	1 470	62	318	1.99	2.29
February	1 080	41	319	1.99	2.07
March	1 940	265	684	4.28	4.93
April	1 660	244	679	4.24	4.73
May	619	219	405	2.53	2.92
June	219	10	116	.725	.81
July	126	10	54.3	.339	.39
August	109	10	37.4	.234	.27
September	148	10	52.4	.328	.37
Year ending Sept. 30, 1929	1 940	3	239	1.49	20.27
October	569	10	150	.938	1.08
November	403	54	185	1.16	1.29
December	1 200	90	327	2.04	2.35
Calendar year, 1929	1 940	10	277	1.73	23.50
January, 1930	725	146	308	1.92	2.21
February	420	133	250	1.56	1.62
March	1 650	212	437	2.73	3.15
April	905	162	361	2.26	2.52
May	287	78	168	1.05	1.21
June	334	70	150	.938	1.05
July	320	18	114	.712	.82
August	172	5	52.6	.329	.38
September	98	5	39.2	.245	.27
Year ending Sept. 30, 1930	1 650	5	212	1.32	17.95

†- Discharge over spillway estimated.

Ramapo River at Pompton Lakes
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	51	4.0	26.0	0.162	0.19
November	512	4.0	146	.912	1.02
December	305	4.0	108	.675	.78
Calendar year, 1930	1 650	4.0	179	1.12	15.22
January, 1931	443	124	188	1.18	1.36
February	720	125	234	1.46	1.52
March	1 290	250	465	2.91	3.36
April	1 200	139	529	3.31	3.69
May	1 200	240	485	3.03	3.49
June	1 090	164	449	2.81	3.14
July	516	3.0	130	.812	.94
August	434	16.5	81.3	.508	.59
September	94	16	51.5	.322	.36
Year ending Sept. 30, 1931	1 290	3.0	241	1.51	20.44
October	54	20	36.2	.226	.26
November	64	3	36.0	.225	.25
December	154	38	70.0	.438	.51
Calendar year, 1931	1 290	3.0	229	1.43	19.47
January, 1932	515	3	236	1.48	1.71
February	1 300	118	354	2.21	2.38
March	1 670	88	279	1.74	2.01
April	1 180	156	380	2.38	2.66
May	439	35	172	1.08	1.24
June	245	3	84.6	.529	.59
July	103	3	44.1	.276	.32
August	43	3	26.1	.163	.19
September	36	3	17.2	.108	.12
Year ending Sept. 30, 1932	1 670	3	144	.900	12.24
October	722	3	150	.938	1.08
November	4 940	299	954	5.96	6.65
December	480	140	238	1.49	1.72
Calendar year, 1932	4 940	3	243	1.52	20.67
January, 1933	318	198	241	1.51	1.74
February	889	164	326	2.04	2.12
March	1 500	244	574	3.59	4.14
April	2 790	287	835	5.22	5.82
May	605	118	255	1.59	1.83
June	357	31	121	.756	.84
July	311	4	60.4	.378	.44
August	4 310	23	449	2.81	3.24
September	1 770	128	409	2.56	2.86
Year ending Sept. 30, 1933	4 940	3	383	2.39	32.48
October	254	0	130	.812	.94
November	126	81	103	.644	.72
December	261	79	136	.850	.98
Calendar year, 1933	4 310	0	302	1.89	25.67
January, 1934	1 660	157	438	2.74	3.16
February	190	86	115	.719	.75
March	2 250	90	488	3.05	3.52
April	2 140	346	663	4.14	4.62
May	1 060	239	420	2.62	3.02
June	766	38	178	1.11	1.24
July	107	9	62.6	.391	.45
August	77	19	37.0	.231	.27
September	1 040	28	291	1.82	2.03
Year ending Sept. 30, 1934	2 250	0	256	1.60	21.70

Greenwood Lake at The Glens

LOCATION.- Water-stage recorder in gate house above dam at The Glens, Passaic County. The zero of the gage is 608.86 feet above mean sea level. Prior to Oct. 1, 1931 staff gage on railroad bridge 100 feet upstream was used. Zero of staff gage was 519.11 feet above mean sea level.

DRAINAGE AREA.- 27 square miles.

RECORDS AVAILABLE.- June 1898 to November 1903, June 1907 to September 1934.

EXTREMES.- 1898-1903, 1907-34: Maximum stage about 104.0 feet (14.25 feet present datum) Oct. 9-14, 1903; minimum, 93.25 feet (3.50 feet present datum) several days in November 1900.

REMARKS.- For discharge record see Wanaque River at Greenwood Lake. Records furnished by Morris Canal and Banking Co.

Daily gage height,in feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	99.85	99.85	99.95	99.95	100.01	100.3	100.2	100.3	100.0	100.0	99.7	99.7
2	99.85	99.82	99.95	100.05	100.0	100.3	100.2	100.25	100.0	100.0	99.7	99.7
3	99.85	99.85	99.95	100.05	100.0	100.3	100.25	100.2	99.95	99.95	99.7	99.7
4	99.85	99.85	99.95	100.0	99.7	100.25	100.25	100.2	99.9	99.9	99.65	99.7
5	99.85	99.9	99.95	100.0	99.7	100.3	100.2	100.2	99.9	99.9	99.65	99.7
6	99.85	99.9	99.95	100.35	99.75	100.5	100.2	100.15	99.95	99.9	99.65	99.7
7	99.82	99.9	99.92	100.4	100.0	100.6	100.2	100.1	99.9	99.9	99.65	99.7
8	99.82	99.9	99.9	100.5	100.2	100.6	100.1	100.1	99.9	99.9	99.65	99.7
9	99.82	99.9	99.9	100.6	100.2	100.5	100.1	100.15	99.9	99.9	99.65	99.7
10	99.82	99.9	99.9	100.6	100.15	100.3	100.05	100.15	99.85	99.85	99.6	99.7
11	99.82	99.9	99.9	100.6	100.2	100.3	100.1	100.1	99.85	99.85	99.6	99.7
12	99.82	99.9	99.9	100.1	100.1	100.2	100.1	100.1	99.9	99.85	99.6	99.6
13	99.82	99.85	99.9	100.6	100.1	100.3	100.05	100.15	99.9	99.8	99.55	99.6
14	99.82	99.85	99.9	100.6	100.0	100.3	100.05	100.15	99.9	99.8	99.55	99.7
15	99.82	99.85	99.9	100.6	100.05	100.3	100.1	100.15	99.9	99.8	99.6	99.7
16	99.82	99.82	99.9	100.6	100.0	100.3	100.2	100.1	99.9	99.75	99.6	99.7
17	99.82	99.82	99.9	100.6	100.0	100.2	100.3	100.15	99.9	99.75	99.55	99.7
18	99.8	99.82	99.92	100.6	100.0	100.2	100.35	100.2	99.9	99.75	99.6	99.6
19	99.8	99.82	99.95	100.6	100.0	100.2	100.35	100.2	99.9	99.7	99.6	99.6
20	99.8	99.85	100.0	100.6	100.0	100.25	100.4	100.15	99.9	99.7	99.6	99.6
21	99.82	99.85	100.0	100.6	100.05	100.25	100.4	100.15	99.85	99.7	99.6	99.6
22	99.82	99.88	99.98	100.6	100.05	100.2	100.5	100.1	99.9	99.75	99.65	99.6
23	99.82	99.88	99.95	100.6	100.05	100.2	100.5	100.1	99.9	99.8	99.65	99.6
24	99.9	99.9	99.95	100.6	100.0	100.25	100.4	100.15	99.9	99.75	99.65	99.6
25	99.9	99.9	99.95	100.6	100.1	100.25	100.4	100.15	100.0	99.75	99.6	99.7
26	99.88	99.9	99.95	100.6	100.1	100.2	100.4	100.1	100.0	99.7	99.6	99.7
27	99.88	99.9	99.95	100.55	100.3	100.2	100.35	100.1	99.95	99.7	99.6	99.7
28	99.85	99.9	99.95	100.5	100.3	100.2	100.3	100.1	99.95	99.7	99.6	99.6
29	99.85	99.9	99.95	100.4		100.25	100.3	100.05	100.0	99.7	99.6	99.6
30	99.85	99.9	99.95	100.3		100.25	100.3	100.05	100.0	99.7	99.6	99.6
31	99.85		99.95	100.2		100.2		100.0		99.65	99.6	

Greenwood Lake at The Glens
(continued)

Daily gage height, in feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	99.7	100.1	100.0	100.05	100.1	100.2	99.9	100.0	100.0	100.1	99.8	99.85
2	99.7	100.1	100.0	100.05	100.1	100.2	99.9	100.0	100.0	100.1	99.7	99.85
3	99.7	100.1	100.0	100.05	100.1	100.2	99.95	99.95	100.05	100.1	99.7	99.9
4	99.9	100.0	100.1	100.05	100.1	100.2	99.95	99.95	100.05	100.1	99.7	99.9
5	100.0	100.0	100.1	100.04	100.05	100.2	99.95	99.95	100.1	100.1	99.7	99.9
6	100.0	100.0	100.1	100.04	100.05	100.25	99.95	99.95	100.1	100.05	99.7	99.9
7	100.0	100.0	100.1	100.04	100.1	100.25	99.95	99.95	100.2	100.05	99.7	99.85
8	99.95	100.0	100.0	100.05	100.1	100.25	100.0	99.95	100.25	100.05	99.7	99.85
9	99.95	100.0	100.0	100.1	100.15	100.25	100.0	99.9	100.2	100.0	99.6	99.85
10	99.95	100.0	100.0	100.1	100.15	100.3	100.0	99.9	100.2	100.0	99.6	99.8
11	99.9	100.0	100.0	100.1	100.15	100.3	100.05	99.9	100.2	100.0	99.6	99.8
12	99.9	99.9	100.0	100.1	100.15	100.3	100.05	99.9	100.2	100.0	99.6	99.8
13	99.9	99.9	100.0	100.1	100.1	100.3	100.0	99.9	100.2	100.0	99.6	99.8
14	99.9	100.0	100.0	100.2	100.1	100.3	100.0	99.95	100.2	99.95	99.6	99.85
15	99.9	100.0	100.0	100.2	100.1	100.25	100.05	99.95	100.2	99.95	99.6	99.85
16	99.9	100.0	100.05	100.2	100.1	100.2	100.05	99.95	100.2	99.95	99.65	99.8
17	99.9	100.0	100.05	100.2	100.1	100.2	100.05	99.95	100.2	99.95	99.65	99.8
18	99.8	100.1	100.05	100.1	100.1	100.15	100.1	99.9	100.25	99.95	99.65	99.7
19	99.8	100.1	100.05	100.1	100.1	100.1	100.1	99.9	100.2	99.95	99.65	99.7
20	99.8	100.1	100.0	100.1	100.1	100.1	100.1	99.9	100.2	99.9	99.65	99.7
21	99.8	100.1	100.0	100.1	100.1	100.1	100.05	99.95	100.2	99.9	99.7	99.7
22	99.8	100.1	100.0	100.1	100.1	100.05	100.05	99.95	100.2	99.9	99.7	99.7
23	100.3	100.0	100.05	100.1	100.1	100.05	100.05	99.95	100.15	99.9	99.7	99.7
24	100.4	100.0	100.05	100.1	100.15	100.05	100.05	100.0	100.15	99.9	99.7	99.85
25	100.3	100.0	100.05	100.1	100.15	100.0	100.05	100.0	100.15	99.9	99.7	99.85
26	100.3	100.1	100.05	100.15	100.15	100.0	100.0	100.0	100.1	99.85	99.8	99.85
27	100.2	100.1	100.0	100.15	100.15	99.95	100.0	100.0	100.1	99.85	99.8	99.7
28	100.2	100.0	100.0	100.15	100.2	99.95	100.0	99.95	100.1	99.85	99.8	99.7
29	100.1	100.0	100.0	100.1		99.95	100.0	99.95	100.1	99.85	99.8	99.7
30	100.1	100.0	100.05	100.1		99.95	100.0	99.95	100.1	99.8	99.85	99.7
31	100.1		100.05	100.1		99.9		100.0		99.8	99.85	

Daily gage height, in feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	99.65	99.75	100.0	99.9	99.95	100.1	100.2	100.15	100.05	100.1	99.9	99.9
2	99.65	99.8	100.0	99.9	99.95	100.1	100.2	100.15	100.05	100.1	99.9	99.9
3	99.65	99.8	100.0	99.9	99.95	100.1	100.2	100.1	100.05	100.05	99.9	99.9
4	99.65	99.8	99.95	99.85	99.95	100.1	100.2	100.1	100.05	100.05	99.9	99.9
5	99.65	99.8	99.95	99.85	99.95	100.1	100.2	100.05	100.05	100.05	99.9	99.9
6	99.65	99.8	99.95	99.85	100.0	100.1	100.2	100.05	100.05	100.05	99.9	99.9
7	99.65	99.8	99.95	99.85	100.0	100.1	100.2	100.05	100.1	100.1	99.9	99.85
8	99.65	99.85	99.95	99.9	100.0	100.15	100.25	100.1	100.1	100.1	99.95	99.85
9	99.6	99.85	99.9	99.9	100.0	100.15	100.25	100.1	100.1	100.1	99.95	99.85
10	99.6	99.85	99.9	99.9	100.0	100.15	100.25	100.1	100.1	100.1	99.95	99.85
11	99.6	99.85	99.9	99.9	100.0	100.15	100.25	100.15	100.1	100.05	99.9	99.8
12	99.6	99.85	99.9	99.9	100.05	100.2	100.2	100.15	100.1	100.05	99.9	99.8
13	99.6	99.9	99.9	99.9	100.05	100.2	100.2	100.15	100.15	100.05	99.9	99.8
14	99.6	99.9	99.9	99.9	100.05	100.2	100.2	100.15	100.15	100.05	99.9	99.8
15	99.6	99.9	99.9	99.9	100.05	100.2	100.2	100.2	100.15	100.0	99.85	99.8
16	99.65	99.9	99.85	99.9	100.1	100.2	100.2	100.2	100.1	100.0	99.85	99.8
17	99.65	99.9	99.85	99.85	100.1	100.2	100.2	100.2	100.1	100.0	99.85	99.7
18	99.65	99.95	99.85	99.85	100.1	100.15	100.25	100.15	100.1	100.0	99.85	99.7
19	99.7	99.95	99.85	99.85	100.1	100.15	100.25	100.1	100.1	100.0	99.85	99.7
20	99.7	99.95	99.85	99.85	100.1	100.15	100.25	100.1	100.05	100.0	99.9	99.7
21	99.7	99.9	99.85	99.9	100.05	100.15	100.25	100.1	100.05	99.95	99.9	99.7
22	99.7	99.95	99.9	99.9	100.05	100.2	100.25	100.1	100.05	99.95	99.9	99.7
23	99.7	99.95	99.9	99.9	100.05	100.2	100.25	100.05	100.05	99.95	99.9	99.7
24	99.75	100.0	99.9	99.9	100.05	100.2	100.2	100.05	100.05	99.95	99.9	99.7
25	99.75	100.0	99.9	99.9	100.1	100.15	100.2	100.05	100.1	99.95	99.9	99.7
26	99.75	100.0	99.9	99.9	100.1	100.15	100.2	100.05	100.1	99.9	99.85	99.7
27	99.75	100.0	99.9	99.9	100.1	100.15	100.2	100.05	100.1	99.9	99.85	99.7
28	99.7	100.0	99.85	99.9	100.1	100.15	100.2	100.1	100.1	99.9	99.85	99.7
29	99.7	100.0	99.85	99.95		100.2	100.2	100.1	100.1	99.9	99.85	99.65
30	99.75	100.0	99.85	99.95		100.2	100.2	100.1	100.1	99.9	99.85	99.7
31	99.75		99.85	99.95		100.2		100.1		99.9	99.85	

Greenwood Lake at The Glens
(Continued)

Daily gage height, in feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.95	9.90	9.95	10.35	10.30	10.18	10.86	10.18	10.06	10.07	9.61	9.17
2	9.95	9.90	9.95	10.35	10.35	10.17	10.78	10.21	10.06	10.21	9.58	9.17
3	9.95	9.85	9.95	10.35	10.35	10.16	10.74	10.20	10.05	10.19	9.56	9.15
4	9.90	9.85	9.95	10.35	10.35	10.15	10.64	10.17	9.99	10.18	9.57	9.13
5	9.90	9.85	10.00	10.35	10.45	10.14	10.55	10.17	9.98	10.18	9.55	9.12
6	9.90	9.85	10.00	10.35	10.45	10.18	10.50	10.16	9.96	10.16	9.52	9.14
7	9.90	9.85	10.00	10.35	10.55	10.23	10.44	10.17	9.93	10.13	9.54	9.11
8	9.90	9.85	10.05	10.35	10.55	10.20	10.39	10.22	9.94	10.11	9.53	9.10
9	9.85	9.85	10.05	10.30	10.60	10.17	10.38	10.25	9.93	10.09	9.51	9.03
10	9.85	9.85	10.05	10.30	10.60	10.15	10.37	10.25	9.94	10.07	9.50	8.99
11	9.85	9.85	10.05	10.30	10.65	10.16	10.38	10.24	9.97	10.03	9.58	8.97
12	9.85	9.85	10.10	10.30	10.65	10.14	10.47	10.22	9.98	10.02	9.57	8.94
13	9.85	9.85	10.10	10.35	10.65	10.13	10.51	10.20	10.05	9.98	9.53	8.92
14	9.85	9.85	10.10	10.35	10.65	10.12	10.50	10.20	10.05	9.97	9.51	8.90
15	9.85	9.85	10.15	10.35	10.60	10.13	10.46	10.18	10.05	9.95	9.49	8.88
16	9.85	9.85	10.15	10.35	10.60	10.10	10.41	10.17	10.09	9.92	9.46	8.90
17	9.85	9.85	10.15	10.35	10.55	10.10	10.36	10.17	10.25	9.90	9.43	8.86
18	9.85	9.85	10.15	10.35	10.55	10.10	10.31	10.14	10.25	9.87	9.41	8.84
19	9.85	9.85	10.15	10.30	10.55	10.11	10.28	10.12	10.22	9.85	9.44	8.82
20	9.85	9.85	10.20	10.30	10.45	10.13	10.25	10.10	10.20	9.82	9.42	8.80
21	9.85	9.85	10.20	10.30	10.45	10.14	10.24	10.11	10.18	9.80	9.39	8.79
22	9.85	9.90	10.25	10.30	10.45	10.16	10.22	10.11	10.23	9.77	9.37	8.78
23	9.85	9.90	10.25	10.30	10.40	10.20	10.22	10.09	10.21	9.77	9.35	8.77
24	9.85	9.90	10.25	10.35	10.40	10.21	10.19	10.07	10.15	9.75	9.32	8.76
25	9.85	9.90	10.30	10.35	10.35	10.20	10.17	10.06	10.12	9.72	9.29	8.76
26	9.85	9.90	10.30	10.35	10.35	10.20	10.18	10.06	10.12	9.68	9.27	8.76
27	9.90	9.90	10.30	10.35	10.30	10.23	10.19	10.07	10.10	9.68	9.25	8.75
28	9.90	9.90	10.30	10.35	10.25	10.56	10.17	10.12	10.11	9.72	9.23	8.75
29	9.90	9.90	10.35	10.35	10.25	10.76	10.15	10.11	10.09	9.71	9.21	8.73
30	9.90	9.95	10.35	10.30		10.73	10.14	10.09	10.06	9.67	9.18	8.70
31	9.90		10.35	10.30		10.73		10.06		9.63	9.17	

Daily gage height, in feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.69	10.40	10.26		10.18	10.32	10.35	10.24	10.15	9.93	9.64	10.32
2	8.67	10.75	10.24		10.17	†10.33	†10.40	10.23	10.12	10.02	9.64	10.26
3	8.65	10.71	10.24		10.18	†10.30	†10.40	10.26	10.11	10.07	9.62	10.23
4	8.64	10.62	10.23		10.17	10.28	†10.40	10.32	10.12	10.05	9.63	10.36
5	8.67	10.52	10.21		10.18	10.27	†10.40	10.30	10.15	10.03	9.60	10.43
6	8.98	10.48	10.22		10.17	10.24	†10.50	10.27	10.26	10.03	9.57	10.39
7	9.28	10.56	10.22		†10.20	10.24	†10.50	10.26	10.27	10.02	9.53	10.34
8	9.31	10.61	10.23		10.20	10.41	10.50	10.23	10.27	10.01	9.52	10.31
9	9.32	10.57	10.20		10.20	10.47	10.47	10.21	10.24	10.00	9.53	10.27
10	9.32	10.87	10.19		10.20	10.45	10.44	10.22	10.24	9.98	9.51	10.26
11	9.33	10.95	10.18		10.20	10.40	10.42	10.21	10.23	9.96	9.54	10.22
12	9.32	10.84	10.21		10.20	10.37	10.50	10.20	10.23	9.95	9.52	10.18
13	9.30	10.69	10.21		10.20	10.35	10.62	10.20	10.22	9.92	9.52	10.15
14	9.30	10.60	10.21		10.20	10.40	10.62	10.21	10.17	9.88	9.62	10.18
15	9.29	10.52	10.19		10.20	10.48	10.58	10.20	10.13	9.87	9.62	10.51
16	9.26	10.47	10.18		10.22	10.49	10.54	10.19	10.11	9.87	9.61	10.86
17	9.29	10.49	10.17		10.22	10.45	10.63	10.19	10.11	9.88	9.60	10.92
18	9.64	10.43			10.26	10.44	10.94	10.17	10.10	9.86	9.61	10.81
19	9.97	10.68			10.26	10.43	10.92	10.15	10.07	9.83	9.64	10.67
20	10.09	11.10			10.30	10.48	10.78	10.15	10.04	9.81	9.70	10.56
21	10.16	10.98		10.20	10.46	10.61	10.67	10.17	10.03	9.80	9.70	10.48
22	10.18	10.83		10.22	10.42	10.70	10.59	10.16	10.03	9.77	9.91	10.42
23	10.18	10.68		10.25	10.40	10.66	10.50	10.13	10.01	9.75	10.12	10.37
24	10.19	10.58		10.26	†10.40	10.60	10.43	10.14	9.98	9.75	11.44	10.33
25	10.19	10.52		10.25	10.40	10.55	10.40	10.14	9.96	9.74	11.61	10.30
26	10.17	10.49		10.28	10.48	10.54	10.37	10.13	9.96	9.73	11.24	10.26
27	10.25	10.42		10.26	10.45	10.50	10.33	10.12	9.96	9.72	10.95	10.23
28	10.25	10.36		10.25	10.40	10.46	10.29	10.13	9.95	9.68	10.73	10.22
29	10.23	10.32		10.25		10.43	10.26	10.11	9.94	9.67	10.60	10.19
30	10.21	10.29		10.22		10.37	10.25	10.14	9.93	9.65	10.47	10.17
31	10.20			10.19		10.35		10.15		9.64	10.39	

† Estimated.

Greenwood Lake at The Glens
(Continued)

Daily gage height, in feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10.16	10.04	10.05	10.20	10.20	10.16	10.73	10.27		10.03		9.43
2	10.16	10.03	10.02	10.20	10.19	10.16	10.72	10.26		10.02		9.41
3	10.15	10.03	10.03	10.20	10.19	10.16	10.65	10.32	10.16	10.01		9.39
4	10.13	10.03	10.03	10.24	10.16	10.16	10.62	10.37	10.15	10.03		9.51
5	10.11	10.02	10.04	10.26	10.16	10.28	10.57	10.37	10.13	10.00		9.52
6	10.10	10.02	10.05	10.28	10.14	10.40	10.52		10.11	9.99	9.62	9.51
7	10.08	10.02	10.07	10.42	10.14	10.48	10.51		10.12	9.99	9.60	9.56
8	10.06	10.02	10.06	10.50	10.14	10.50	10.48		10.08	10.05	9.57	9.82
9	10.05	10.01	10.08	10.60	10.12	10.50	10.44		10.05	10.03	9.55	10.21
10	10.04	10.01	10.07	10.54	10.12	10.42	10.40			10.01	9.54	10.28
11	10.02	10.00	10.05	10.50	10.12	10.38	10.38			9.98	9.64	10.27
12	10.02	10.02	10.05	10.46	10.14	10.36	10.52			9.95	9.66	10.24
13	10.02	10.02	10.04	10.46	10.16	10.34	10.52	10.25		9.94	9.67	10.20
14	10.00	10.04	10.04	10.46	10.14	10.32	10.51	10.26		9.92	9.65	10.19
15	9.96	10.07	10.06	10.43	10.14	10.41	10.49	10.30			9.65	10.28
16	9.95	10.06	10.08	10.39	10.14	10.39	10.47	10.35			9.65	10.38
17	10.01	10.05	10.08	10.35	10.14	10.39	10.50	10.32	10.01	9.90	9.65	10.68
18	10.06	10.06	10.10	10.31	10.14	10.38	10.47	10.30	9.99	9.88	9.65	10.78
19	10.05	10.05	10.12	10.28	10.14	10.38	10.43	10.27	10.15	9.84		10.69
20	10.04	10.06	10.14	10.28	10.14	10.36	10.43		10.28	9.82		10.60
21	10.03	10.04	10.16	10.77	10.14	10.34	10.41		10.26	9.82		10.50
22	10.04	10.05	10.18	10.27	10.14	10.32	10.38		10.24	9.79		10.43
23	10.05	10.06	10.18	10.27	10.14	10.30	10.35		10.21	9.75		10.37
24	10.06	10.04	10.20	10.26	10.16	10.28	10.34		10.17	9.73		10.35
25	10.11	10.05	10.20	10.26	10.16	10.27	10.39		10.15	9.72		10.31
26	10.06	10.06	10.24	10.25	10.16	10.26	10.36		10.12	9.72	9.53	10.27
27	10.04	10.08	10.22	10.25	10.16	10.28	10.35		10.10	9.72	9.51	10.23
28	10.05	10.04	10.22	10.26		10.48	10.33		10.10	9.77	9.52	10.20
29	10.04	10.04	10.20	10.27		10.57	10.30		10.08		9.50	10.19
30	10.03	10.03	10.20	10.24		10.63	10.27		10.07		9.48	10.25
31	10.04		10.20	10.22		10.68					9.46	

Wanaque River at Greenwood Lake

LOCATION.- Water-stage recorder 600 feet downstream from dam at outlet of Greenwood Lake at The Glens, Passaic County. Zero of gage is 601.32 feet above mean sea level.

DRAINAGE AREA.- 27 square miles.

RECORDS AVAILABLE.- May 1919 to September 1934.

AVERAGE DISCHARGE.- 15 years, 49.3 second-feet.

EXTREMES.- 1919-34: Maximum discharge, 851 second-feet Aug. 24, 1933 (gage height, 4.45 feet); minimum stage occurs at times gates at Greenwood Lake are closed and no water is passing over spillway.

REMARKS.- Flow is regulated by storage in lake; see record of Greenwood Lake at The Glens. Water-stage recorder operated by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.3	1.9	18	24	24	103	40	97	47	38	0	0
2	2.9	1.7	20	41	23	110	44	91	36	34	0	0
3	2.1	1.7	24	42	20	116	38	80	26	24	0	0
4	2.6	5.3	28	39	18	116	37	75	20	13	.2	0
5	2.9	9.8	29	36	16	150	44	75	15	13	0	0
6	2.9	9.3	26	196	15	261	50	80	22	16	0	0
7	7.0	10	20	261	54	261	50	97	20	14	0	0
8	6.8	10	17	224	97	215	50	86	19	13	0	0
9	2.6	14	14	173	97	166	50	75	18	12	0	0
10	2.1	9.5	12	150	91	136	54	66	16	11	0	0
11	1.4	9.5	11	136	80	110	50	54	13	7.7	0	.4
12	.5	8.4	12	116	70	97	70	54	11	5.3	0	0
13	.6	9.8	12	91	58	103	116	70	11	3.3	0	0
14	.8	6.6	12	75	50	150	116	66	9.8	4.5	0	0
15	0	14	12	66	44	206	110	70	11	1.9	0	0
16	0	7.3	12	58	40	215	150	70	11	.8	0	0
17	0	3.9	11	50	34	189	198	58	9.5	.2	0	0
18	.4	6.4	28	47	33	158	206	50	8.2	1.1	0	.8
19	2.3	12	28	54	34	129	181	62	8.4	8.2	0	.1
20	2.0	† 8	28	58	35	116	150	80	10	5.3	0	.2
21	.2	† 7	26	54	41	91	150	86	9.3	2.3	0	.2
22	0	† 7	24	47	41	86	150	86	7.4	1.4	0	0
23	0	† 7	24	47	38	80	143	75	5.9	1.2	0	0
24	6.6	6.8	22	43	35	75	122	66	12	1.2	0	0
25	9.3	9.0	20	47	31	62	116	66	40	.5	0	0
26	10	6.6	18	50	41	62	143	58	50	.3	0	0
27	7.4	6.2	16	44	66	58	143	54	41	0	0	0
28	6.4	2.6	22	39	103	54	129	50	41	0	0	0
29	6.8	2.9	22	35		46	129	54	58	0	0	0
30	4.5	5.9	22	29		39	116	58	45	0	0	0
31	2.1		20	26		40		50		0	0	

† Estimated.

Wanaque River at Greenwood Lake
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	43	† 24	65	26	73	30	24	16	65	0.5	12
2	14	41	† 22	63	24	71	35	26	14	93	0	13
3	50	54	† 24	63	24	65	29	32	13	81	0	15
4	50	58	24	61	24	58	30	28	12	64	0	10
5	41	55	21	54	35	51	24	20	10	51	0	5.6
6	33	47	20	48	† 36	56	24	24	9.0	54	0	4.2
7	29	44	20	44	† 34	60	92	23	8.4	51	0	3.9
8	24	43	21	44	† 30	129	129	25	8.2	41	0	5.0
9	17	41	22	44	28	189	130	22	14	33	0	1.9
10	13	37	22	39	26	167	110	17	82	38	0	1.3
11	10	33	23	33	24	158	97	12	152	30	0	.3
12	7.7	30	20	41	21	162	87	8.7	136	26	0	.2
13	7.2	28	25	46	24	148	80	8.7	111	17	0	.5
14	6.8	28	34	53	36	135	82	9.0	91	22	0	2.4
15	7.2	29	39	80	38	111	73	17	73	18	0	2.4
16	6.2	26	41	87	39	96	69	16	58	14	0	3.9
17	7.8	24	39	79	35	84	70	14	53	11	0	7.2
18	4.2	48	49	86	32	74	74	13	61	8.7	0	6.4
19	.8	63	106	86	30	74	75	16	54	7.4	0	3.3
20	.6	64	136	74	37	60	67	21	45	7.7	0	1.9
21	1.0	60	129	64	54	55	56	18	36	5.9	0	1.4
22	23	53	116	59	67	45	56	16	31	5.6	0	1.3
23	173	50	104	54	73	36	50	16	24	5.3	10	1.1
24	184	46	91	48	80	28	44	14	18	8.6	28	.1
25	146	44	78	44	80	35	39	32	17	15	36	3.2
26	111	39	67	39	89	40	35	28	31	11	35	10
27	87	36	59	36	90	37	30	23	103	9.5	30	9.0
28	74	36	60	36	81	35	29	22	93	5.9	24	5.3
29	57	31	71	34		34	25	26	70	4.2	19	3.1
30	46	26	73	32		34	24	24	56	3.3	18	2.1
31	43		70	29		34		22		1.2	13	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	0	30	35	24	60	168	93	62	16	3.3	33
2	.4	0	28	30	21	60	181	80	55	12	1.9	29
3	.4	0	23	27	19	59	170	75	47	9.8	2.1	39
4	.9	.1	22	25	17	56	146	64	38	9.3	2.4	34
5	.1	2.2	19	28	16	60	122	55	34	8.2	.9	27
6	0	.9	18	61	15	55	108	48	27	16	.6	22
7	0	.1	18	80	17	52	107	45	30	22	.6	18
8	0	0	18	75	24	84	113	82	98	21	.8	13
9	0	0	15	68	30	167	108	139	117	22	.2	7.9
10	0	0	16	62	36	173	98	143	132	75	.8	7.0
11	0	0	15	56	33	154	97	142	139	99	1.8	6.4
12	0	0	20	56	29	133	80	128	125	86	6.1	4.5
13	0	0	19	55	26	115	65	121	106	65	3.1	2.6
14	0	0	18	50	32	98	61	111	88	53	3.3	3.2
15	2.7	11	14	46	32	88	53	106	73	46	4.2	4.2
16	0	32	1.9	40	31	80	46	97	89	39	4.7	3.7
17	.6	57	6.6	35	30	74	39	89	220	31	2.4	2.6
18	0	122	9.5	33	68	68	37	71	224	29	1.4	3.3
19	0	136	16	39	95	64	31	62	178	29	5.5	1.7
20	0	116	22	44	99	69	28	55	143	24	10	.6
21	0	93	21	42	93	66	26	64	113	22	7.4	1.0
22	0	79	19	38	87	62	24	70	82	26	4.6	1.0
23	0	65	20	34	78	60	88	80	68	24	2.8	1.4
24	0	54	21	32	72	56	125	80	64	24	4.8	2.3
25	1.4	49	18	28	68	61	108	70	52	22	.4	.4
26	0	42	19	26	64	73	122	67	44	16	4.0	.1
27	0	37	47	24	64	68	158	58	36	14	24	1.0
28	0	30	50	24	60	65	144	50	30	12	69	1.9
29	0	22	47	26		137	132	44	26	10	66	.2
30	0	18	44	26		186	112	39	20	11	56	0
31	0		38	26		175		40		7.4	44	

†- Estimated.

Wanaque River at Greenwood Lake
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.2	0.2	5.8	44	29	280	30	5.0	17	11	10
2	.1	.1	.5	22	48	27	242	38	5.3	41	11	10
3	.1	.1	.2	37	44	26	213	35	3.7	36	11	10
4	.1	.1	.2	37	63	23	172	28	5.0	34	11	10
5	.1	.1	1.2	35	56	20	136	27	5.0	35	11	10
6	.1	.1	.2	42	50	30	116	24	5.9	28	11	10
7	.1	.2	1.9	72	47	42	95	27	6.8	24	11	10
8	.2	.2	1.1	82	50	30	79	30	2.3	21	11	8.7
9	.6	.2	.2	89	52	28	73	48	.8	18	11	7.4
10	.1	.1	.4	79	56	22	73	48	.9	15	11	7.7
11	.3	.1	.5	68	136	18	77	44	.4	14	11	7.9
12	1.4	.1	1.0	60	164	17	107	40	1.3	13	11	8.2
13	.1	.2	2.9	56	158	16	119	37	6.6	11	11	8.2
14	.1	.2	15	62	146	14	113	33	6.4	11	11	8.4
15	.1	.2	25	64	128	13	101	29	7.0	11	11	8.4
16	.1	.2	21	64	107	10	89	27	14	11	11	8.7
17	.1	.2	21	53	97	13	78	27	48	11	11	8.4
18	.3	.2	21	47	95	15	64	22	46	11	11	8.4
19	.1	.2	20	41	78	14	57	17	38	11	11	8.7
20	.1	.2	22	34	78	17	50	13	32	11	11	8.7
21	.1	.2	18	34	55	16	46	13	33	11	11	8.7
22	.2	.2	17	45	48	24	43	14	48	11	11	8.7
23	.1	.2	18	50	45	28	40	9.0	43	11	11	8.7
24	.1	.2	16	60	38	29	32	6.4	30	11	11	8.7
25	.2	.2	19.5	58	34	29	27	5.0	22	11	11	8.7
26	.3	.3	24	53	31	30	29	5.9	20	11	11	8.7
27	.2	.2	7.7	56	29	39	29	6.6	19	11	11	8.7
28	.1	.2	7.0	53	30	152	28	14	20	11	11	8.7
29	.2	.2	6.2	47	30	229	24	11	18	11	11	8.7
30	.2	.3	4.5	53		217	22	7.7	14	11	10	8.7
31	.2		4.5	50		215		5.3		11	11	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.7	112	51	† 64	35	65	83	47	26	8.7	8.2	69
2	8.7	242	46	† 56	36	65	104	47	18	9.8	8.2	53
3	8.7	220	46	51	37	62	110	55	17	14	8.2	45
4	8.7	175	44	50	35	57	126	72	19	12	8.2	88
5	9.0	144	40	49	35	54	130	56	27	11	8.2	108
6	9.3	121	41	45	32	47	120	53	50	11	7.9	91
7	8.7	161	40	37	32	48	136	53	53	9.1	7.9	76
8	8.7	176	44	35	48	98	137	46	50	9.5	7.9	64
9	8.7	161	36	45	56	120	124	40	43	9.8	8.2	58
10	8.7	280	35	48	52	115	111	44	44	9.3	8.2	55
11	8.4	320	34	42	62	98	102	42	† 34	9.3	8.2	41
12	8.4	270	38	46	61	86	135	40	† 35	9.0	8.2	34
13	8.7	215	39	47	54	81	183	39	39	9.0	8.2	26
14	8.7	164	39	44	51	99	179	40	27	9.0	8.2	34
15	8.7	135	35	40	53	124	166	39	20	9.0	8.2	137
16	8.7	113	32	39	51	130	146	37	15	9.0	8.2	287
17	8.7	126	30	37	48	120	194	37	16	9.0	8.2	324
18	9.0	106	31	38	47	110	330	33	16	9.0	8.2	264
19	9.8	197	28	39	47	107	310	28	12	8.7	8.2	204
20	13	388	26	43	69	125	252	29	† 9.5	8.7	8.2	159
21	27	330	24	40	107	173	198	33	† 9.5	8.7	8.2	124
22	33	261	24	46	111	210	164	29	10	8.7	8.4	101
23	33	198	24	53	110	199	128	25	9.0	8.4	51	80
24	36	160	28	54	106	178	102	26	8.7	8.4	711	69
25	35	129	37	50	101	150	91	24	8.4	8.4	695	60
26	34	122	45	60	99	142	84	23	8.4	8.4	474	51
27	48	96	49	53	93	125	70	20	8.4	8.4	324	45
28	53	76	62	54	77	116	62	18	8.4	8.2	223	41
29	46	65	67	53		107	54	16	8.2	8.2	162	35
30	44	56	66	44		89	50	21	8.2	8.2	116	29
31	39		70	37		80		24		8.2	90	

†- Estimated.

Wanaque River at Greenwood Lake
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	9.5	14	28	† 38	† 20	203	56	35	12	7.7	† 8.2
2	31	9.3	8.7	35	† 40	† 18	216	53	31	9.5	7.7	† 8.2
3	26	9.5	8.7	43	† 36	† 20	191	68	29	9.5	7.9	† 8.2
4	22	9.5	11	42	† 33	26	172	87	24	11	7.9	† 8.2
5	20	9.8	10	51	† 30	97	152	85	22	8.7	8.2	† 8.2
6	17	9.3	12	63	28	174	134	80	19	8.2	8.2	† 8.2
7	16	9.0	13	99	26	174	132	78	20	8.4	7.9	† 8.2
8	13	9.5	12	165	24	152	121	63	14	12	7.9	† 8.7
9	12	8.7	16	177	22	129	105	53	10	9.5	7.9	† 42
10	11	9.8	11	161	20	109	93	50	12	8.2	7.9	63
11	9.8	8.7	11	141	18	99	87	67	12	8.2	7.9	60
12	9.8	9.3	12	117	17	84	130	61	12	7.9	7.9	49
13	9.5	8.7	10	105	18	72	136	53	14	7.9	7.9	40
14	9.5	9.0	9.5	110	16	70	130	51	13	7.7	7.9	38
15	9.5	10	9.0	99	15	68	123	65	11	8.2	7.3	68
16	9.5	9.5	8.7	87	14	63	118	74	10	8.2	7.9	92
17	10	9.3	8.7	77	13	61	126	66	9.5	7.9	8.2	214
18	12	9.0	16	65	12	65	115	62	8.7	7.9	8.2	249
19	12	9.3	24	56	13	65	105	53	32	7.9	7.9	201
20	11	9.3	28	50	28	62	108	51	57	7.9	7.9	152
21	10	9.3	36	45	23	58	99	49	52	7.9	7.9	118
22	10	9.5	38	40	21	53	87	46	46	7.9	8.2	96
23	12	9.5	38	46	20	49	77	50	38	7.7	8.2	85
24	12	9.3	38	59	18	45	73	41	30	7.7	8.2	72
25	21	9.0	38	53	17	44	93	47	26	7.9	8.2	61
26	14	9.0	44	51	23	42	82	61	20	7.7	8.2	51
27	12	16	49	47	26	46	79	57	16	7.7	8.2	41
28	14	11	43	49	22	108	73	52	16	7.7	8.2	35
29	11	11	37	52		132	61	45	15	7.7	8.2	40
30	10	11	32	† 44		126	57	43	13	7.7	8.2	92
31	9.8		28	† 38		125		38		7.7	8.2	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean
October, 1928	10	0	3.18
November	14	1.7	7.34
December	29	11	19.7
Calendar year, 1928	300	0	47.1
January, 1929	261	24	77.4
February	103	15	47.5
March	261	39	123
April	206	37	105
May	97	50	69.6
June	58	5.9	21.7
July	38	0	7.52
August	.2	0	.01
September	.8	0	.06
Year ending Sept. 30, 1929	261	0	40.1
October	184	0	41.1
November	64	24	41.9
December	136	20	53.2
Calendar year, 1929	261	0	49.0
January, 1930	87	29	53.7
February	90	21	43.5
March	189	28	78.5
April	130	24	59.8
May	32	8.7	19.9
June	152	8.2	50.0
July	93	1.2	26.1
August	36	0	6.89
September	15	.1	4.57
Year ending Sept. 30, 1930	189	0	39.9

† Estimated.

Wanaque River at Greenwood Lake
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean
October, 1930	2.7	0	0.25
November	136	0	32.2
December	50	1.9	22.4
Calendar year, 1930	189	0	33.0
January, 1931	80	24	41.0
February	99	15	45.7
March	186	52	89.6
April	181	24	96.6
May	143	39	79.6
June	224	20	85.3
July	99	7.4	29.1
August	69	.2	10.9
September	39	0	9.07
Year ending Sept. 30, 1931	224	0	45.0
October	1.4	.1	.20
November	.3	.1	.18
December	25	.2	9.61
Calendar year, 1931	224	0	41.3
January, 1932	89	5.8	51.9
February	164	29	70.2
March	229	10	46.2
April	280	22	88.5
May	48	5.0	23.3
June	48	.4	16.9
July	41	11	16.3
August	11	10	11.0
September	10	7.4	8.83
Year ending Sept. 30, 1932	280	.1	28.4
October	53	8.4	19.6
November	388	56	177
December	70	24	40.4
Calendar year, 1932	388	.4	47.1
January, 1933	64	35	46.4
February	111	32	62.3
March	210	47	109
April	330	50	139
May	72	16	36.6
June	53	8.2	21.9
July	14	8.2	9.23
August	711	7.9	97.6
September	324	26	95.1
Year ending Sept. 30, 1933	711	7.9	70.9
October	31	9.5	14.0
November	16	8.7	9.69
December	49	8.7	21.8
Calendar year, 1933	711	7.9	55.1
January, 1934	177	28	74.0
February	40	12	22.5
March	174	18	79.2
April	216	57	116
May	87	38	58.2
June	57	8.7	22.2
July	12	7.7	8.45
August	8.2	7.3	8.00
September	249	8.2	67.5
Year ending Sept. 30, 1934	249	7.3	41.8

Wanaque River at Wanaque

LOCATION.- Water-stage recorder above weir which is 50 feet above highway bridge in Wanaque, Passaic County. Zero of gage is 210.00 feet above mean sea level. Prior to Mar. 14, 1931, recorder was 400 feet below highway bridge.

DRAINAGE AREA.- 94 square miles, (increased from 91 square miles Oct. 1, 1928, by diverting Post Brook into Wanaque Reservoir).

RECORDS AVAILABLE.- December 1903 to December 1905, May 1912 to May 1915, May 1919 to September 1934.

AVERAGE DISCHARGE.- 15 years (1919-34), 158 second-feet, corrected for storage and diversions.

EXTREMES.- 1903-5, 1912-15, 1919-34: Maximum gage height, 8.35 feet, from highwater marks, June 22 or 23, 1919 (discharge, not determined); minimum discharge, 6.4 second-feet (regulated) Mar. 19, 1931.

REMARKS.- Part of monthly and annual discharge table corrected for storage and diversions. Water diverted at Wanaque Reservoir. Flow regulated by storage in Wanaque Reservoir, just above station, and in Greenwood Lake, 11 miles upstream. Water-stage recorder owned and operated by North Jersey District Water Supply Commission.

Daily discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	162	266	149	173	329	† 170	131	210	63	124	849
2	36	141	238	128	170	305	167	121	178	58	159	2 720
3	35	128	189	134	184	252	167	114	149	54	114	1 340
4	32	114	173	128	224	224	162	111	138	54	91	945
5	31	104	118	144	178	224	146	111	151	48	80	730
6	39	100	159	136	170	210	164	109	141	46	78	580
7	44	98	164	116	164	224	154	102	124	46	68	478
8	35	93	170	116	157	305	136	95	111	45	108	510
9	30	141	159	102	141	382	118	126	104	40	252	478
10	28	444	154	93	151	354	114	252	91	39	114	444
11	28	305	144	78	181	329	107	365	86	39	84	412
12	28	252	136	80	141	329	93	305	80	38	70	412
13	28	224	131	78	131	354	91	279	63	37	63	382
14	29	195	144	88	128	382	88	252	68	35	108	382
15	29	181	146	95	136	354	84	367	80	36	596	354
16	25	305	118	91	144	329	80	329	72	36	292	354
17	52	730	111	98	189	305	82	279	64	48	224	354
18	66	478	95	124	266	292	82	252	61	63	224	329
19	63	545	93	136	292	† 300	80	238	74	44	266	354
20	59	444	93	173	252	† 300	78	224	107	38	195	354
21	109	382	100	210	279	† 320	76	195	88	35	170	329
22	68	650	102	252	252	† 360	114	181	76	35	149	305
23	58	292	91	305	238	† 340	167	170	70	204	154	305
24	52	266	80	279	266	† 300	131	279	72	219	305	292
25	690	238	88	238	305	† 280	114	354	68	121	279	292
26	292	224	107	210	545	† 260	107	382	86	98	279	279
27	195	305	107	192	444	† 260	116	329	84	100	479	227
28	149	266	126	187	354	† 260	195	279	68	88	615	63
29	134	224	238	184		† 220	151	252	63	68	1 200	54
30	121	252	181	187		† 200	138	238	63	63	861	48
31	126		149	184		† 180		224		91	510	

Note.- Records for Oct. 1, 1926 to Sept. 30, 1928 supersede those published in Bulletin 33, Dept. of Conservation & Development, New Jersey, 1929.
† Estimated.

Wanaque River at Wanaque
(Continued)

Daily discharge, in second-feet, 1927-28

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	173	305	219	224	266	50	72	39	‡ 32	‡ 26	‡ 26
2	42	195	305	101	210	238	50	72	38	‡ 30	‡ 26	‡ 26
3	42	455	444	‡ 80	195	224	51	72	‡ 37	‡ 29	‡ 26	‡ 27
4	248	1 440	354	‡ 75	170	178	46	72	‡ 37	‡ 29	‡ 27	‡ 27
5	112	1 040	354	‡ 75	181	144	31	72	‡ 37	‡ 29	‡ 27	‡ 27
6	78	690	329	‡ 80	178	128	26	72	‡ 37	‡ 30	‡ 27	‡ 27
7	63	545	305	84	154	111	30	68	‡ 37	‡ 29	‡ 27	‡ 27
8	58	478	841	91	224	98	30	52	‡ 37	‡ 29	‡ 27	‡ 27
9	56	412	810	104	329	88	28	42	‡ 38	‡ 29	‡ 27	‡ 27
10	68	382	556	86	329	124	30	42	‡ 38	‡ 28	‡ 27	‡ 27
11	59	354	478	74	292	238	28	42	‡ 38	‡ 26	‡ 27	‡ 27
12	51	354	478	32	252	189	31	42	‡ 37	‡ 25	‡ 26	‡ 27
13	269	329	444	14	238	224	31	42	‡ 37	‡ 25	‡ 26	‡ 27
14	224	305	545	44	252	238	31	42	‡ 35	‡ 29	‡ 26	‡ 27
15	134	292	545	58	478	224	32	42	‡ 32	‡ 29	‡ 26	‡ 27
16	104	279	510	72	545	195	33	40	‡ 31	‡ 29	‡ 27	‡ 27
17	102	329	444	84	510	276	33	40	‡ 31	‡ 29	‡ 27	‡ 27
18	423	770	329	80	510	279	32	44	‡ 31	‡ 28	‡ 26	‡ 27
19	1 170	650	305	76	478	224	32	44	‡ 32	‡ 28	‡ 26	‡ 27
20	1 100	478	329	100	444	195	32	44	‡ 32	‡ 28	‡ 26	‡ 27
21	650	412	292	93	412	189	33	44	‡ 32	‡ 27	‡ 26	‡ 27
22	444	382	279	104	444	175	33	42	‡ 32	‡ 27	‡ 26	‡ 28
23	382	354	266	100	478	115	33	38	‡ 32	‡ 28	‡ 26	‡ 28
24	329	354	210	102	478	37	39	38	‡ 32	‡ 27	‡ 26	‡ 28
25	305	354	195	285	478	39	60	38	‡ 32	‡ 25	‡ 27	‡ 28
26	292	329	195	305	444	40	64	38	‡ 32	‡ 25	‡ 28	‡ 28
27	266	329	184	266	412	42	64	38	‡ 32	‡ 26	‡ 27	‡ 28
28	238	329	159	238	382	44	68	38	‡ 32	‡ 26	‡ 27	‡ 28
29	149	329	138	210	354	45	72	38	‡ 32	‡ 25	‡ 27	‡ 28
30	121	305	157	224		46	72	38	‡ 32	‡ 28	‡ 27	‡ 28
31	109		159	224		48		38		‡ 25	‡ 27	

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	29	28	30	25	29	† 120	329	121	76	91	95
2	28	29	28	30	25	29	† 90	305	78	46	91	95
3	28	29	28	30	25	29	36	292	78	39	88	93
4	28	30	28	30	25	44	36	266	72	39	93	93
5	28	30	28	30	25	354	36	252	58	38	95	93
6	28	30	28	31	25	945	36	266	66	33	93	93
7	28	30	28	31	29	855	36	329	72	35	91	98
8	28	30	28	31	27	580	36	292	76	36	93	104
9	29	30	28	31	27	478	35	252	78	36	93	63
10	29	29	28	31	27	† 378	35	224	70	36	80	31
11	29	29	28	31	27	305	35	210	59	40	80	31
12	29	29	28	31	26	510	36	210	52	40	80	30
13	29	29	28	31	26	650	36	252	51	39	88	38
14	29	29	28	31	26	690	37	238	50	40	91	44
15	29	29	28	31	26	730	37	252	51	48	91	45
16	29	29	28	31	26	730	37	266	50	54	91	54
17	30	29	28	31	26	730	37	181	48	88	91	74
18	30	29	28	31	26	† 730	36	167	50	74	93	74
19	30	29	28	31	26	770	36	210	58	63	93	74
20	30	28	28	31	26	770	35	279	52	59	95	74
21	30	28	28	31	† 26	770	35	292	50	58	95	74
22	30	28	28	31	† 28	770	35	292	38	58	95	72
23	30	28	28	28	28	770	35	266	36	56	82	72
24	30	28	28	25	28	770	35	238	36	56	72	72
25	30	28	28	25	28	770	37	238	37	56	72	72
26	29	28	28	25	29	730	42	210	54	56	74	72
27	29	28	29	25	29	730	72	187	46	56	76	72
28	29	28	29	25	29	730	252	173	58	72	82	72
29	29	28	29	25		† 730	412	173	78	74	84	72
30	29	28	29	25		† 730	354	173	70	82	86	70
31	29		29	25		† 730		167		88	93	

‡ Estimated, stage-discharge relation affected by ice or grass in channel.
† Estimated.

Wanaque River at Wanaque
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72	35	31	210	88	224	102	80	48	91	31	80
2	74	35	31	210	91	238	138	86	37	93	31	61
3	74	33	33	224	91	192	88	84	35	102	33	44
4	74	33	35	227	102	164	144	66	35	107	33	42
5	72	33	33	159	164	154	58	45	33	114	42	42
6	72	31	33	154	157	151	68	45	32	114	59	42
7	72	28	33	149	144	154	349	46	31	100	59	42
8	50	27	36	146	128	526	444	50	32	63	59	42
9	23	26	35	151	111	770	354	74	33	48	50	40
10	27	27	32	195	104	510	305	70	207	61	35	40
11	27	28	51	104	91	412	279	54	412	33	32	40
12	28	28	39	124	91	444	252	35	329	38	33	40
13	† 28	29	31	167	100	382	252	39	279	35	50	58
14	27	29	50	257	134	329	252	37	224	31	51	70
15	27	30	93	444	144	266	224	63	178	31	51	74
16	27	30	116	382	141	238	238	70	136	31	52	78
17	22	30	114	306	109	224	238	58	136	31	52	80
18	24	30	222	329	107	224	252	51	167	31	52	80
19	27	30	545	305	109	238	266	70	159	31	61	80
20	27	31	545	252	121	181	238	78	118	31	80	80
21	28	31	444	238	175	224	195	64	84	31	80	80
22	31	31	354	224	210	151	210	56	61	31	80	80
23	36	31	329	210	210	80	178	50	46	31	84	80
24	36	31	292	178	238	61	154	56	39	31	84	80
25	36	30	238	151	252	98	116	104	48	31	51	80
26	36	30	210	144	266	175	102	149	51	31	32	80
27	36	29	195	131	266	164	100	93	121	31	33	80
28	35	32	195	138	238	151	100	42	164	31	33	80
29	35	31	266	136		118	86	86	136	31	66	80
30	35	31	266	114		102	80	86	104	31	80	63
31	35		254	95		107		63		31	80	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	46	18	17	17	17	417	275	346	21	20	18.9
2	50	46	18	17	17	17	502	239	313	18.9	20	20
3	39	48	17	16	17	17	475	243	223	20	20	20
4	51	48	16	16	17	17	424	172	157	20	20	18.9
5	51	46	16	17	17	17	371	153	129	18.9	18.9	18.9
6	51	46	16	17	17	16	327	139	91	18.9	20	18.9
7	51	46	16	17	17	17	330	129	85	18.9	20	18.9
8	38	46	16	17	17	17	374	307	355	21	18.9	18.9
9	46	48	16	17	17	17	330	545	411	20	18.9	18.9
10	48	48	16	17	17	17	287	488	411	140	18.9	20
11	50	48	16	17	17	16	255	450	437	231	18.9	20
12	51	48	16	17	17	16	202	383	383	183	18.9	20
13	48	48	16	18	17	16	168	377	305	119	18.9	20
14	48	50	16	17	17	17.7	164	346	239	97	20	20
15	48	50	16	17	17	17.7	122	346	187	61	20	18.9
16	37	51	16	17	17	18.3	112	287	270	49	20	18.9
17	43	45	16	17	17	28	103	255	1 080	33	20	18.9
18	44	50	16	18	18	50	109	202	766	27	20	18.9
19	46	48	16	18	17	6.4	77	168	504	25	18.9	20
20	46	48	16	17	17	18.3	64	143	383	24	20	20
21	46	48	16	17	17	18.3	51	179	305	22	20	18.9
22	46	27	16	16	17	18.9	43	227	198	27	18.9	18.9
23	46	16	16	16	18	20	328	279	168	22	18.9	18.9
24	46	16	16	16	18	20	488	271	168	22	18.9	20
25	46	16	17	16	17	20	377	210	129	22	18.9	20
26	46	16	17	15	16	22	419	187	100	22	18.9	18.9
27	46	16	17	15	17	20	594	157	88	21	21	18.9
28	46	17	17	16	17	24	475	129	66	21	18.9	20
29	46	17	16	17		26	409	103	47	20	18.9	20
30	46	17	16	17		178	333	88	24	18.9	18.9	20
31	46		17	17		369		110		22	18.9	

† Estimated.

Wanaque River at Wanaque
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19.6	19.2	27	19.4	19.6	20	779	78	20	21	19.0	19.5
2	19.6	19.2	19.4	19.3	19.6	19.2	660	125	20	20	19.5	19.8
3	19.0	19.2	19.3	19.1	19.7	19.0	559	94	19.9	20	21	19.1
4	19.0	25	19.0	19.0	19.7	19.0	430	58	21	19.9	20	19.0
5	19.0	24	19.2	19.0	19.4	19.0	349	65	19.7	19.4	19.7	19.4
6	19.8	19.3	19.8	18.9	19.4	19.6	328	39	21	19.5	20	19.6
7	22	19.1	21	19.5	19.4	20	258	43	23	19.5	20	19.1
8	21	18.9	19.3	19.3	19.4	19.6	224	89	22	19.4	20	19.2
9	19.7	19.4	19.5	19.0	19.4	19.5	214	124	23	19.5	21	19.7
10	19.7	19.2	19.1	19.1	21	19.7	232	113	20	19.4	19.3	19.7
11	19.7	19.2	19.2	18.9	20	19.8	256	96	21	19.9	21	20
12	25	19.2	19.0	19.0	19.1	19.8	381	85	20	20	21	20
13	19.7	19.7	19.5	18.9	19.5	19.8	397	76	22	19.9	19.3	19.8
14	20	20	19.5	18.8	19.5	19.9	353	64	19.5	19.7	19.3	22
15	19.8	19.6	19.1	19.2	19.7	20	305	54	21	19.7	19.4	24
16	19.3	19.3	19.3	19.5	19.7	19.4	278	47	20	19.7	19.5	23
17	19.3	19.3	19.9	19.3	19.7	19.0	264	54	19.6	19.7	22	22
18	19.3	19.4	19.9	19.0	19.4	18.9	144	41	19.4	19.5	19.5	21
19	19.1	19.8	19.7	19.2	19.2	18.8	142	21	19.7	19.4	19.7	19.7
20	19.2	19.7	19.7	19.4	19.1	19.0	124	19.5	19.7	19.4	19.7	19.7
21	20	19.7	19.8	19.5	19.0	18.9	120	22	19.7	21	19.7	20
22	19.0	19.7	19.9	19.4	19.0	19.6	115	44	20	19.4	19.7	19.4
23	19.3	19.7	19.9	19.2	19.0	19.7	133	30	21	23	20	19.2
24	18.8	19.7	21	19.2	19.0	19.6	73	21	20	19.7	19.3	19.2
25	19.3	19.7	19.4	19.4	19.0	19.5	58	20	19.5	19.5	19.3	19.2
26	19.2	19.8	23	19.5	19.0	19.1	77	19.7	19.3	19.0	19.3	19.5
27	19.9	19.2	19.5	19.5	18.9	19.2	104	20	19.4	18.8	19.3	19.7
28	19.0	19.1	19.6	19.2	18.8	36	58	25	19.2	19.2	19.2	19.5
29	19.2	19.0	19.8	19.2	19.1	60	43	23	19.1	19.2	19.1	19.4
30	20	19.0	19.7	19.3		131	42	21	19.7	19.2	19.5	19.5
31	19.2		19.6	19.3		439		21		19.8	20	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19.9	21	83	54	19.7	136	214	54	37	18.2	16.4	69
2	20	19.3	69	23	22	125	340	54	30	17.0	17.0	64
3	19.2	18.7	64	29	46	134	346	59	28	17.0	16.4	58
4	19.4	18.8	54	29	24	126	383	127	27	17.0	16.4	124
5	17.4	18.6	52	52	70	136	374	71	28	17.0	16.4	283
6	17.5	18.5	38	26	33	48	327	91	33	17.0	16.4	371
7	16.1	19.7	28	45	20	47	411	136	31	17.7	17.0	294
8	16.1	18.7	62	38	36	244	411	122	33	17.7	17.0	210
9	16.0	18.6	18.4	24	51	322	353	103	31	15.8	17.0	164
10	17.5	19.5	29	41	21	280	302	112	35	16.4	17.0	150
11	19.5	18.8	33	20	20	180	267	97	30	16.4	17.0	109
12	19.9	18.8	26	68	34	154	371	85	30	17.0	17.0	85
13	18.7	18.8	24	32	51	161	575	80	37	15.8	17.0	64
14	18.7	18.8	21	41	54	269	515	91	33	15.8	16.4	56
15	18.9	18.9	24	23	55	366	462	85	30	15.8	15.8	414
16	19.1	19.0	30	26	42	350	411	61	27	15.8	15.8	1 080
17	19.6	19.0	23	26	40	162	672	66	27	15.8	15.8	1 080
18	19.8	19.0	23	42	41	46	1 710	54	28	15.8	15.8	775
19	18.7	26	21	23	44	61	1 210	54	25	17.0	15.8	575
20	18.7	13.2	21	64	148	172	755	54	23	16.4	15.8	450
21	19.6	30	21	20	331	548	545	58	22	15.8	15.8	362
22	19.8	228	21	33	321	767	462	49	21	15.8	17.7	290
23	19.7	360	20	73	295	620	356	47	18.9	15.8	18.9	214
24	19.7	369	21	77	283	502	287	45	17.7	15.8	20.0	179
25	19.0	321	21	61	258	404	243	45	15.8	15.8	15.8	143
26	18.6	346	24	110	265	398	239	41	16.4	15.8	17.0	109
27	20	225	21	54	197	365	135	41	17.0	15.8	21	62
28	20	159	21	112	150	335	58	39	17.0	15.8	30	23
29	20	130	21	139		310	51	37	17.0	15.8	61	21
30	20	110	21	74		218	51	35	17.0	15.8	69	18.9
31	19.1		76	31		184		37		16.4	69	

Wanaque River at Wanaque
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17.1	15.8	17.0	15.8	15.8	17.0	497	69	69	16.4	15.8	16.4
2	20	15.8	17.0	15.8	15.8	17.0	610	64	56	17.0	15.8	17.0
3	20	15.8	17.0	15.8	15.8	17.0	530	100	49	17.0	15.8	17.0
4	18.3	15.8	17.0	15.8	15.8	17.0	475	206	45	17.0	15.8	17.7
5	17.7	16.4	17.0	16.4	16.4	20	424	227	35	17.0	15.8	17.0
6	15.8	17.0	17.0	15.8	16.4	17.0	377	210	30	17.0	15.8	17.0
7	15.8	17.0	17.0	17.0	15.8	17.0	374	210	30	16.4	15.8	17.0
8	15.8	17.7	17.0	17.0	15.8	17.0	346	139	25	16.4	15.8	18.9
9	15.8	18.3	17.0	17.0	15.8	17.0	305	106	23	16.4	15.8	17.0
10	15.8	18.3	17.0	16.4	15.8	17.0	255	97	22	16.4	15.8	17.0
11	15.8	18.3	17.0	16.4	15.8	17.0	218	146	22	17.0	15.8	16.4
12	15.8	18.3	17.0	16.4	15.8	17.0	356	126	22	17.0	15.8	16.4
13	15.8	21	17.0	16.4	16.4	17.0	383	103	20	17.0	15.8	16.4
14	15.8	20	17.0	16.4	16.4	17.0	362	91	20	17.0	15.8	17.0
15	15.8	17.0	17.0	16.4	16.4	16.4	346	112	17.0	17.0	15.2	18.3
16	15.8	17.0	17.0	16.4	15.8	16.4	323	157	17.0	16.4	15.2	18.3
17	16.4	17.0	17.0	16.4	15.8	16.4	359	132	17.0	15.8	15.2	20
18	16.4	17.0	17.0	16.4	16.4	16.4	330	122	17.0	17.0	15.2	18.9
19	16.4	17.0	17.0	16.4	16.4	17.0	283	88	22	16.4	15.2	18.3
20	15.8	17.0	17.0	16.4	16.4	17.0	279	80	24	15.8	15.2	18.3
21	15.8	17.0	17.0	16.4	16.4	17.0	251	46	24	15.8	15.2	18.3
22	15.8	17.0	17.0	16.4	16.4	17.0	214	31	24	15.8	15.8	18.3
23	15.8	17.0	17.0	17.0	16.4	17.0	164	33	24	16.4	15.8	17.7
24	16.4	17.0	17.0	16.4	16.4	17.0	75	30	22	16.4	17.0	17.7
25	23	17.0	16.4	16.4	16.4	17.0	58	41	22	17.0	17.0	17.7
26	20	17.0	16.4	16.4	16.4	17.0	54	85	21	16.4	17.0	17.7
27	17.0	17.0	16.4	16.4	17.0	17.0	84	91	18.9	15.8	17.0	17.7
28	17.0	17.0	15.8	15.8	17.0	17.0	94	85	17.0	15.8	17.0	17.7
29	16.4	17.0	15.8	15.8		32	77	77	17.0	15.8	16.4	20
30	16.4	17.0	15.8	15.8		94	74	77	16.4	15.8	16.4	20
31	16.4		15.8	15.8		172		82		15.8	16.4	

Monthly and annual discharge, in second-feet, 1926-34

Month	Maximum	Minimum	Mean
October, 1926	690	25	88.6
November	730	93	276
December	266	80	141
Calendar year, 1926	820	19	135
January, 1927	305	78	152
February	545	128	223
March	382	180	292
April	195	76	122
May	382	95	227
June	210	61	96.3
July	219	35	65.5
August	1 200	63	268
September	2 720	48	498
Year ending Sept. 30, 1927	2 720	25	204
October	1 170	42	249
November	1 440	173	448
December	841	138	363
Calendar year, 1927	2 720	35	250
January, 1928	305	14	122
February	545	153	347
March	276	37	152
April	72	26	40.8
May	72	38	47.9
June	39	31	34.4
July	32	25	27.7
August	28	26	26.6
September	28	26	27.2
Year ending Sept. 30, 1928	1 440	14	156

Wanaque River at Wanaque
(Continued)

Monthly and annual discharge, in second-feet, 1926-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	30	28	29.0			
November	30	28	28.8			
December	29	28	28.2			
Calendar year, 1928	545	14	75.0			
January, 1929	31	25	29.2			
February	29	25	26.6			
March	945	29	599			
April	412	35	72.2			
May	329	167	241			
June	121	36	59.8			
July	88	33	53.9			
August	95	72	87.5			
September	104	30	70.5			
Year ending Sept. 30, 1929	945	25	112			
October	74	22	40.4	123	1.31	1.51
November	35	26	30.3	112	1.19	1.33
December	545	31	167	196	2.09	2.41
Calendar year, 1929	945	22	125			
January, 1930	444	95	202	198	2.11	2.43
February	266	88	149	158	1.68	1.75
March	770	61	240	233	2.48	2.86
April	444	58	195	219	2.33	2.60
May	149	35	66.1	83.7	.890	1.03
June	412	31	117	148	1.57	1.75
July	114	31	50.2	40.5	.431	.50
August	84	31	53.2	32.2	.343	.40
September	80	40	64.6	4.83	.051	.06
Year ending Sept. 30, 1930	770	22	115	129	1.37	18.63
October	51	37	46.5	-1.57	-.017	-.02
November	51	16	38.7	93.3	.993	1.11
December	18	16	16.3	53.5	.569	.66
Calendar year, 1930	770	16	103	105	1.12	15.13
January, 1931	18	15	16.7	126	1.34	1.54
February	18	16	17.1	140	1.49	1.55
March	369	6.4	35.8	297	3.16	3.64
April	594	43	291	327	3.48	3.88
May	545	88	245	265	2.82	3.25
June	1 080	24	279	302	3.21	3.58
July	231	18.9	45.4	71.8	.764	.88
August	21	18.9	19.4	33.2	.353	.41
September	20	18.9	19.4	-.43	-.0046	-.005
Year ending Sept. 30, 1931	1 080	6.4	89.0	142	1.51	20.48
October	25	18.8	19.7	4.02	.043	.05
November	25	18.9	19.7	7.90	.084	.09
December	27	19.0	20.0	47.6	.506	.58
Calendar year, 1931	1 080	6.4	85.5	135	1.44	19.45
January, 1932	19.5	18.8	19.2	147	1.56	1.80
February	21	18.8	19.4	215	2.29	2.47
March	439	18.8	38.4	227	2.41	2.78
April	779	42	250	241	2.56	2.86
May	125	19.5	53.3	75.9	.807	.93
June	23	19.1	20.3	41.7	.444	.50
July	23	18.8	19.7	3.28	.035	.04
August	22	19.0	19.8	-2.15	-.023	-.03
September	24	19.0	20.0	-.89	-.009	-.01
Year ending Sept. 30, 1932	779	18.8	43.1	83.4	.887	12.06

Wanaque River at Wanaque
(Continued)

Monthly and annual discharge, in second-feet, 1926-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1932	20	16.1	18.9	146	1.55	1.79
November	369	13.2	88.7	596	6.34	7.07
December	83	18.4	33.3	140	1.49	1.72
Calendar year, 1932	779	13.2	49.8	151	1.61	21.92
January, 1933	139	20	48.7	148	1.57	1.81
February	331	19.7	106	217	2.31	2.40
March	767	46	264	373	3.97	4.58
April	1 710	51	428	518	5.51	6.15
May	136	36	68.7	147	1.56	1.80
June	37	15.8	26.1	69.7	.741	.83
July	18.2	15.8	16.3	16.6	.177	.20
August	69	15.8	22.1	321	3.41	3.93
September	1 080	18.9	263	321	3.41	3.80
Year ending Sept. 30, 1933	1 710	13.2	114	250	2.66	36.08
October	23	15.8	16.8	38.0	.404	.47
November	21	15.8	17.2	27.0	.287	.32
December	17.0	15.8	16.8	71.7	.763	.88
Calendar year, 1933	1 710	15.8	107	188	2.00	27.17
January, 1934	17.0	15.8	16.3	246	2.62	3.02
February	17.0	15.8	16.2	68.2	.726	.76
March	172	16.4	25.0	309	3.29	3.79
April	610	54	286	368	3.91	4.36
May	227	30	105	210	2.23	2.57
June	69	16.4	26.3	82.1	.873	.97
July	17.0	15.8	16.5	4.75	.051	.06
August	17.0	15.2	15.9	2.61	.028	.03
September	20	16.4	17.8	286	3.04	3.39
Year ending Sept. 30, 1934	610	15.2	47.8	143	1.52	20.62

Pequannock River at Macopin Intake Dam

LOCATION.- Water-stage recorder at Macopin intake dam of the Newark waterworks 3 miles above Butler, Morris County.

DRAINAGE AREA.- 63.7 square miles.

RECORDS AVAILABLE.- January 1892 to September 1934.

AVERAGE DISCHARGE.- 42 years, 124 second-feet, corrected for storage and diversions.

REMARKS.- Table of daily discharge indicates flow over intake dam only. Part of monthly and annual discharge table corrected for storage and diversions. Water diverted above intake dam. Flow regulated by several reservoirs. Station operated and base data furnished by Bureau of Water, City of Newark.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	35	144	29	22	0	0
2	0	0	0	0	0	4.5	49	128	11	11	0	0
3	0	0	0	0	0	12	29	128	0	4	0	0
4	0	0	0	0	0	30	26	114	0	0	0	0
5	0	0	0	0	0	109	82	95	0	0	0	0
6	0	0	0	108	0	155	124	90	0	0	0	0
7	0	0	0	124	46	108	90	149	0	0	0	0
8	0	0	0	35	55	46	61	131	0	0	0	0
9	0	0	0	12	5.6	16	38	86	0	0	0	0
10	0	0	0	14	0	0	49	61	0	0	0	0
11	0	0	0	20	0	0	65	38	0	0	0	0
12	0	0	0	.9	0	0	171	35	0	0	0	0
13	0	0	0	0	0	32	290	61	0	0	0	0
14	0	0	0	0	0	77	243	65	0	0	0	0
15	0	0	0	0	0	77	189	73	0	0	0	0
16	0	0	0	0	0	69	287	61	0	0	0	0
17	0	0	0	0	0	56	489	28	0	0	0	0
18	0	0	0	0	0	56	456	13	0	0	0	0
19	0	0	0	.6	0	86	277	72	0	0	0	0
20	0	0	0	0	0	128	200	133	0	0	0	0
21	0	0	0	0	0	128	218	128	0	0	0	0
22	0	0	0	0	0	128	243	114	0	0	0	0
23	0	0	0	0	0	128	206	73	0	0	0	0
24	0	0	0	0	0	124	165	56	0	0	0	0
25	0	0	0	0	0	97	194	56	0	0	0	0
26	0	0	0	0	0	81	305	38	0	0	0	0
27	0	0	0	0	69	61	263	19	0	0	0	0
28	0	0	0	0	49	49	212	46	0	0	0	0
29	0	0	0	0		42	231	196	0	0	0	0
30	0	0	0	0		32	182	155	0	0	0	0
31	0		0	0		28		69		0	0	

Pequannock River at Macopin Intake Dam
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	17	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	95	0	0	0	0	0
8	0	0	0	0	0	80	35	0	0	0	0	0
9	0	0	0	0	0	120	3.9	0	0	0	0	0
10	0	0	0	0	0	42	0	0	53	0	0	0
11	0	0	0	0	0	32	0	0	95	0	0	0
12	0	0	0	0	0	25	0	0	38	0	0	0
13	0	0	0	0	0	3.9	0	0	7.4	0	0	0
14	0	0	0	22	0	0	32	0	0	0	0	0
15	0	0	0	35	0	0	53	0	0	0	0	0
16	0	0	0	0	0	0	69	0	0	0	0	0
17	0	0	0	0	0	0	99	0	0	0	0	0
18	0	0	0	0	0	0	128	0	0	0	0	0
19	0	0	32	0	0	0	114	0	0	0	0	0
20	0	0	7.6	0	0	0	86	0	0	0	0	0
21	0	0	0	0	0	0	73	0	0	0	0	0
22	0	0	0	0	0	0	73	0	0	0	0	0
23	0	0	0	0	0	0	61	0	0	0	0	0
24	0	0	0	0	0	0	35	0	0	0	0	0
25	0	0	0	0	0	0	14	0	0	0	0	0
26	0	0	0	0	0	0	11	0	0	0	0	0
27	0	0	0	0	0	0	7.7	0	0	0	0	0
28	0	0	0	0	0	0	2.2	0	0	0	0	0
29	0	0	0	0		0	.3	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	49	128	77	0	0	0
2	0	0	0	0	0	0	81	114	61	0	0	0
3	0	0	0	0	0	0	42	99	20	0	0	0
4	0	0	0	0	0	0	19	86	1.5	0	0	0
5	0	0	0	0	0	0	9.0	61	0	0	0	0
6	0	0	0	0	0	0	4.8	38	0	0	0	0
7	0	0	0	0	0	0	30	42	25	0	0	0
8	0	0	0	0	0	43	56	250	222	0	0	0
9	0	0	0	0	0	69	49	455	290	0	0	0
10	0	0	0	0	0	38	49	355	270	177	0	0
11	0	0	0	0	0	12	46	250	243	270	0	0
12	0	0	0	0	0	5.3	28	189	182	171	0	0
13	0	0	0	0	0	3.7	14	171	144	65	0	0
14	0	0	0	0	0	1.1	9.0	160	138	32	0	0
15	0	0	0	0	0	1.9	2.2	155	104	19	0	0
16	0	0	0	0	0	2.2	0	119	270	9.0	0	0
17	0	0	0	0	0	0	0	95	834	0	0	0
18	0	0	0	0	73	0	0	65	632	0	0	0
19	0	0	0	0	22	0	0	49	362	0	0	0
20	0	0	0	0	1.1	0	0	42	218	0	0	0
21	0	0	0	0	0	0	0	95	144	0	0	0
22	0	0	0	0	0	0	0	171	95	0	0	0
23	0	0	0	0	0	0	65	212	88	0	0	0
24	0	0	0	0	0	0	104	189	82	0	0	0
25	0	0	0	0	0	0	100	133	49	0	0	0
26	0	0	0	0	0	0	189	99	32	0	0	0
27	0	0	0	0	0	0	263	73	19	0	0	0
28	0	0	0	0	0	0	194	53	3.9	0	0	0
29	0	0	0	0		119	149	43	0	0	0	0
30	0	0	0	0		69	144	30	0	0	0	0
31	0		0	0		22		42		0	0	

Pequannock River at Macopin Intake Dam
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	115	19.3	11.1	0	0	0
2	0	0	0	0	0	0	97	28	11.1	0	0	0
3	0	0	0	0	0	0	66	25	11.1	0	0	0
4	0	0	0	0	0	0	35	12.7	11.1	0	0	0
5	0	0	0	0	0	0	28	5.6	11.1	0	0	0
6	0	0	0	0	0	0	28	5.6	11.1	0	0	0
7	0	0	0	0	0	0	27	7.1	11.1	0	0	0
8	0	0	0	0	0	0	24	10.1	11.1	0	0	0
9	0	0	0	0	0	0	22	11.1	11.1	0	0	0
10	0	0	0	0	0	0	33	11.1	11.1	0	0	0
11	0	0	0	0	109	0	43	11.1	11.1	0	0	0
12	0	0	0	0	32	0	67	11.1	13.8	0	0	0
13	0	0	0	0	0	0	60	11.1	16.7	0	0	0
14	0	0	0	0	0	0	43	11.1	11.1	0	0	0
15	0	0	0	0	0	0	37	11.1	19.3	2.2	0	0
16	0	0	0	0	0	0	27	11.1	9.6	4.5	0	0
17	0	0	0	0	0	0	16.7	11.1	0	8.2	0	0
18	0	0	0	0	0	0	10.4	11.1	0	2.8	0	0
19	0	0	0	0	0	0	11.1	11.1	0	0	0	0
20	0	0	0	0	0	9.0	11.1	11.1	0	0	0	0
21	0	0	0	0	0	11.1	11.1	11.1	0	3.9	0	0
22	0	0	0	0	0	19.3	11.1	11.1	0	11.1	0	0
23	0	0	0	0	0	28	11.1	11.1	0	11.1	0	0
24	0	0	0	0	0	28	11.1	11.1	0	11.1	0	0
25	0	0	0	0	0	20	23	4.2	0	11.1	0	0
26	0	0	0	0	0	20	30	6.2	0	11.1	0	0
27	0	0	0	0	0	44	25	11.1	0	11.1	0	0
28	0	0	0	0	0	225	17.0	11.1	0	11.1	0	0
29	0	0	0	0	0	218	12.7	11.1	0	3.9	0	0
30	0	0	0	0		119	11.1	11.1	0	0	0	0
31	0		0	0		108		11.1		0	0	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	125	49	94	28	73	194	73	56	22	11.1	61
2	0	200	49	86	53	53	263	61	32	57	11.1	49
3	0	46	49	77	57	53	256	86	13.8	46	11.1	72
4	0	0	49	73	49	81	270	181	13.8	32	3.9	212
5	0	0	49	73	27	73	243	123	42	25	0	343
6	0	0	49	71	19.3	49	231	99	149	13.8	0	218
7	0	40	44	56	46	77	270	108	165	11.1	2.0	119
8	0	73	37	49	128	206	290	128	108	11.1	1.7	73
9	0	86	24	53	128	218	270	104	73	11.1	0	53
10	0	312	12.2	69	95	160	237	99	46	3.9	0	46
11	0	256	9.6	86	69	108	212	86	32	0	1.7	32
12	0	160	9.0	95	65	86	231	61	22	0	0	28
13	0	108	8.2	77	82	104	362	48	22	0	0	19.3
14	0	49	8.2	73	114	225	447	56	19.3	0	0	65
15	0	3.4	8.2	73	95	252	385	58	13.8	0	0	536
16	0	0	8.2	57	90	231	316	48	11.1	0	0	1 010
17	0	0	8.2	32	90	212	290	56	11.1	0	1.1	825
18	104	0	8.2	32	57	189	489	48	11.1	0	9.0	623
19	65	183	8.2	56	61	171	596	32	11.1	0	11.1	378
20	5.6	447	7.7	69	177	250	471	35	11.1	0	11.1	256
21	0	424	7.7	53	256	416	340	53	11.1	9.0	16.7	206
22	0	355	9.3	81	200	479	224	45	11.1	11.1	49	149
23	0	237	10.8	99	165	385	194	22	11.1	11.1	231	114
24	0	194	17.0	73	160	277	181	11.1	11.1	11.1	725	95
25	0	165	50	61	160	231	160	11.1	11.1	11.1	673	130
26	0	133	46	82	149	231	149	15.9	11.1	11.1	640	128
27	0	133	30	69	104	231	108	15.9	11.1	11.1	415	61
28	0	108	30	73	86	225	99	11.1	11.1	11.1	290	48
29	0	73	42	69		194	86	13.8	11.1	11.1	244	48
30	0	53	46	46		160	73	28	11.1	11.1	139	48
31	0		86	19.3		138		53		11.1	90	

Pequannock River at Macopin Intake Dam
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	28	11.1	32	28	11.1	569	69	46	0	0	0
2	25	28	11.1	42	20	20	479	69	32	0	0	0
3	22	25	11.1	32	12.2	56	378	160	28	0	0	0
4	11.1	13.8	11.1	28	11.1	144	312	256	25	0	0	0
5	11.1	11.1	11.1	42	11.1	270	256	215	19.3	0	0	0
6	11.1	19.3	11.1	73	11.1	200	231	162	0	0	0	0
7	11.1	28	11.1	124	11.1	144	231	128	0	0	0	0
8	11.1	22	11.1	133	11.1	144	212	99	2.9	0	0	36
9	5.6	11.9	11.1	90	11.1	60	189	73	0	0	0	109
10	5.6	11.1	11.1	73	11.1	61	181	73	7.1	0	0	46
11	9.0	11.1	11.1	53	11.1	49	177	144	0	0	0	11.9
12	11.1	11.1	11.1	46	11.1	61	305	91	0	0	0	0
13	11.1	11.1	11.1	42	11.1	73	297	73	7.4	0	0	0
14	11.1	11.1	11.1	95	11.1	73	250	69	2.9	0	0	0
15	11.1	11.1	11.9	99	11.1	69	225	124	0	0	0	0
16	11.1	11.1	21	73	11.1	54	225	165	0	0	0	155
17	19.3	11.1	28	53	11.1	49	231	128	0	0	0	290
18	28	11.1	28	46	11.1	61	225	86	0	0	0	231
19	25	11.1	23	32	11.1	73	219	57	160	0	0	139
20	13.8	11.1	19.3	28	11.1	65	225	53	180	0	0	77
21	11.1	11.1	26	19.3	11.1	51	194	49	139	0	0	53
22	11.1	11.1	28	13.8	11.1	49	160	61	102	0	0	49
23	11.1	11.1	28	65	11.1	49	132	95	68	0	0	49
24	19.3	11.1	28	86	11.1	49	128	86	40	0	0	42
25	28	11.1	28	53	11.1	46	155	107	21	0	0	53
26	28	8.2	28	49	11.1	35	149	165	0	0	0	55
27	28	8.2	28	49	11.1	82	128	133	0	6.3	0	0
28	28	11.1	28	38	11.1	290	114	90	0	0	0	0
29	28	11.1	24	28		305	86	69	0	0	0	0
30	28	11.1	24	28		244	73	61	0	0	0	99
31	28		28	28		370		53		0	0	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	0	0	0	29.3	0.460	0.53
November	0	0	0	38.4	.603	.67
December	0	0	0	51.4	.807	.93
Calendar year, 1928	945	0	56.9	132	2.07	28.11
January, 1929	124	0	10.1	147	2.31	2.66
February	69	0	8.02	113	1.77	1.84
March	155	0	63.2	254	3.99	4.60
April	489	26	182	272	4.27	4.76
May	196	13	85.6	178	2.79	3.22
June	29	0	1.33	85.5	1.34	1.50
July	22	0	1.19	34.7	.545	.63
August	0	0	0	9.57	.150	.17
September	0	0	0	23.5	.369	.41
Year ending Sept. 30 1929	489	0	29.3	103	1.62	21.92
October	0	0	0	83.3	1.31	1.51
November	0	0	0	89.4	1.40	1.56
December	32	0	1.3	118	1.85	2.13
Calendar year, 1929	489	0	29.4	118	1.85	24.99
January, 1930	35	0	1.8	128	2.01	2.32
February	0	0	0	116	1.82	1.90
March	120	0	9.8	202	3.17	3.66
April	128	0	33.1	161	2.53	2.82
May	17	0	.5	70.1	1.10	1.27
June	95	0	6.4	104	1.63	1.82
July	0	0	0	32.8	.515	.59
August	0	0	0	23.4	.367	.42
September	0	0	0	10.3	.162	.18
Year ending Sept. 30 1930	128	0	4.4	94.8	1.49	20.18

Pequannock River at Macopin Intake Dam
(Continued)

Monthly and annual discharge in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	0	0	0	- 0.894	- 0.014	- 0.02
November	0	0	0	63.5	.997	1.11
December	0	0	0	43.0	.675	.78
Calendar year, 1930	128	0	4.28	79.1	1.24	16.85
January, 1931	0	0	0	67.9	1.07	1.23
February	73	0	3.43	87.1	1.37	1.43
March	119	0	12.5	217	3.41	3.93
April	263	0	56.5	202	3.17	3.54
May	455	30	131	207	3.25	3.75
June	834	0	154	229	3.59	4.00
July	270	0	24.0	88.0	1.38	1.59
August	0	0	0	24.0	.377	.43
September	0	0	0	8.80	.138	.15
Year ending Sept. 30 1931	834	0	31.8	103	1.62	21.92
October	0	0	0	- .35	- .005	- .006
November	0	0	0	1.52	.024	.03
December	0	0	0	23.2	.364	.42
Calendar year, 1931	834	0	31.7	96.3	1.51	20.49
January, 1932	0	0	0	80.8	1.27	1.46
February	109	0	4.86	120	1.88	2.03
March	225	0	27.4	132	2.07	2.39
April	115	10.4	32.2	196	3.08	3.44
May	28	4.2	11.5	64.0	1.00	1.15
June	19.3	0	6.42	62.2	.976	1.09
July	11.1	0	3.32	14.2	.223	.26
August	0	0	0	1.75	.027	.03
September	0	0	0	.45	.007	.008
Year ending Sept. 30 1932	225	0	7.12	57.6	.904	12.30
October	104	0	5.63	108	1.70	1.96
November	447	0	132	385	6.04	6.74
December	86	7.7	28.1	97.7	1.53	1.76
Calendar year, 1932	447	0	20.8	104	1.63	22.32
January, 1933	99	19.3	67.0	121	1.90	2.19
February	256	19.3	100	160	2.51	2.61
March	479	49	188	250	3.92	4.52
April	596	73	265	317	4.98	5.56
May	181	11.1	60.3	117	1.84	2.12
June	165	11.1	32.5	66.6	1.05	1.17
July	57	0	11.4	42.3	.664	.77
August	725	0	116	211	3.31	3.82
September	1 010	19.3	202	250	3.92	4.37
Year ending Sept. 30 1933	1 010	0	100	176	2.76	37.59
October	28	5.6	17.4	56.0	.879	1.01
November	28	8.2	13.8	36.8	.578	.64
December	28	11.1	18.9	58.2	.914	1.05
Calendar year, 1933	1 010	0	90.5	140	2.20	29.83
January, 1934	133	13.8	54.6	165	2.59	2.99
February	28	11.1	12.1	39.6	.622	.65
March	370	11.1	107	196	3.08	3.55
April	569	73	225	275	4.32	4.82
May	256	49	105	162	2.54	2.93
June	180	0	29.4	73.7	1.16	1.29
July	6.3	0	.20	16.5	.259	.30
August	0	0	0	9.65	.151	.17
September	290	0	49.8	155	2.43	2.71
Year ending Sept. 30 1934	569	0	52.8	104	1.63	22.11

Saddle River at Lodi

LOCATION.- Water-stage recorder at highway bridge, 1 mile above Lodi, Bergen County, and $2\frac{3}{4}$ miles above mouth of river.

DRAINAGE AREA.- 55 square miles.

RECORDS AVAILABLE.- September 1923 to September 1934.

AVERAGE DISCHARGE.- 11 years, 87.5 second-feet.

EXTREMES.- 1923-34: Maximum discharge, about 1 630 second-feet Sept. 2, 1927 (gage height, 6.82 feet); minimum daily discharge, 6 second-feet Aug. 4, 1930 and Aug. 23, 1934.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	77	44	115	50	‡ 36	254	101	178	65	47	† 18	15
2	69	44	134	93	‡ 34	178	104	166	60	45	† 19	17
3	64	42	80	84	‡ 32	268	101	155	59	41	† 19	17
4	61	56	68	59	‡ 30	282	95	166	57	36	† 22	18
5	60	87	64	48	‡ 28	241	101	144	57	38	† 22	10
6	65	78	65	134	38	418	124	134	64	41	† 19	20
7	62	61	59	296	248	370	134	202	65	40	† 19	16
8	56	54	51	155	688	215	103	254	64	34	† 17	69
9	56	62	57	117	292	166	90	134	86	33	† 16	119
10	54	56	46	101	134	119	90	108	69	32	† 19	95
11	51	53	48	144	106	124	120	103	59	36	† 21	37
12	51	48	45	111	87	119	134	100	50	32	† 21	27
13	51	49	47	77	72	119	282	134	47	32	† 21	20
14	51	48	44	‡ 60	‡ 70	155	215	134	45	27	† 18	27
15	51	47	48	‡ 55	68	254	124	124	45	25	† 30	49
16	46	45	48	‡ 55	67	241	144	115	46	† 27	† 28	37
17	47	45	49	53	64	190	355	93	41	† 24	† 24	37
18	55	45	64	55	64	144	310	84	44	† 22	† 22	96
19	68	46	72	78	64	122	178	95	41	† 26	† 27	92
20	65	53	56	90	62	117	124	178	59	† 32	† 32	44
21	55	55	‡ 38	68	86	117	124	215	61	† 29	† 24	36
22	50	46	† 32	61	†190	115	178	215	59	† 27	† 21	32
23	53	47	† 30	57	† 90	119	215	144	47	† 24	† 20	28
24	54	49	† 34	56	† 60	134	144	104	48	† 20	† 19	27
25	51	40	† 40	55	† 60	117	124	134	50	† 19	† 18	26
26	47	40	† 38	57	134	111	340	111	103	† 21	† 17	25
27	48	40	37	59	340	110	418	90	117	† 19	† 22	23
28	41	39	44	53	355	106	228	81	57	† 22	† 24	23
29	44	40	49	50		101	268	77	72	† 23	† 22	27
30	40	46	48	‡ 40		96	282	74	57	† 21	† 20	28
31	41		40	‡ 38		98		71		† 17	† 18	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Saddle River at Lodi
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	39	35	86	57	90	69	59	41	35	18	18
2	72	39	35	78	56	89	69	68	37	53	16	22
3	155	61	34	86	64	86	67	65	34	49	17	36
4	144	87	37	96	80	74	64	54	32	54	6	31
5	55	65	36	71	166	67	60	48	31	34	15	23
6	40	49	38	60	166	62	61	46	32	29	19	22
7	34	41	37	59	104	69	178	45	34	39	7	20
8	31	40	42	64	75	166	355	47	31	26	7	23
9	28	38	53	69	67	325	190	48	36	20	12	27
10	26	36	48	69	68	215	98	45	84	20	12	20
11	26	35	42	60	64	115	86	41	155	19	12	19
12	27	34	39	61	60	124	81	41	83	14	12	18
13	21	34	42	103	72	120	81	40	51	11	14	14
14	25	37	90	119	134	98	98	41	46	17	7	23
15	24	41	111	215	95	84	96	100	40	23	35	29
16	30	44	81	202	‡ 65	78	90	155	35	20	37	27
17	29	44	62	98	‡ 65	78	134	77	32	13	27	33
18	30	84	83	103	68	78	144	55	46	18	49	28
19	31	124	202	144	77	86	124	62	71	20	45	24
20	29	84	268	144	93	84	104	84	55	13	26	23
21	30	60	144	89	104	74	86	65	35	19	21	22
22	34	51	83	80	110	67	87	53	29	24	23	18
23	111	47	65	‡ 75	104	64	86	47	27	23	64	20
24	134	45	69	‡ 70	104	61	74	41	22	18	166	24
25	71	44	64	‡ 65	113	101	69	62	18	38	111	26
26	50	42	57	‡ 65	124	202	65	74	21	29	54	39
27	41	45	57	‡ 60	124	144	65	50	100	20	42	32
28	37	42	61	59	108	96	64	48	83	17	36	26
29	34	41	100	65		81	61	74	45	14	34	20
30	33	35	122	59		78	60	61	29	29	28	23
31	35		98	61		74		48		16	21	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	32	50	52	‡ 34	59	121	93	123	45	24	32
2	16	23	47	50	37	61	202	88	131	45	22	35
3	18	24	39	46	‡ 34	57	206	97	77	38	23	83
4	20	22	40	42	‡ 32	57	129	93	66	44	31	65
5	17	40	38	43	31	66	106	86	61	41	29	46
6	15	65	39	143	32	65	97	77	58	58	20	40
7	17	54	39	209	28	58	112	75	61	68	25	25
8	16	38	40	‡ 85	32	93	173	127	164	59	25	29
9	20	36	38	‡ 60	46	240	145	349	268	54	18	28
10	22	32	38	50	102	192	104	257	187	61	21	22
11	18	33	33	47	72	106	86	178	227	83	29	21
12	14	32	37	48	69	88	82	153	182	62	72	18
13	15	29	39	51	65	77	75	160	102	45	56	25
14	16	27	38	47	137	77	72	166	83	44	39	23
15	22	83	34	52	90	78	65	162	71	44	32	17
16	18	182	‡ 32	‡ 38	64	72	62	133	78	38	29	22
17	16	232	27	35	58	68	59	106	214	47	25	25
18	15	302	28	41	224	64	58	95	316	39	23	30
19	18	265	29	57	386	61	58	88	141	43	33	22
20	17	125	32	92	137	75	57	82	85	46	59	18
21	21	75	30	72	95	99	54	110	68	48	37	25
22	24	62	32	‡ 55	86	83	52	184	65	40	33	25
23	20	56	31	‡ 44	82	75	134	209	61	38	28	24
24	17	50	33	42	74	72	444	274	71	38	30	17
25	21	48	33	39	68	69	235	153	64	36	28	17
26	19	48	36	39	65	92	151	106	57	35	22	11
27	20	46	122	42	61	80	271	92	54	33	20	17
28	20	41	257	44	59	69	222	75	48	32	64	21
29	21	44	182	47		166	127	68	46	29	58	22
30	19	38	82	43		302	104	61	45	32	42	17
31	30		61	41		171		61		28	36	

‡- Estimated, stage-discharge relation affected by ice.

Saddle River at Lodi
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	45	41	25	48	58	184	87	32	25	12	12
2	15	39	37	62	48	57	178	189	32	65	12	10
3	9	29	31	108	47	56	112	138	32	46	17	10
4	14	25	38	72	57	58	97	85	32	47	23	9
5	21	33	77	54	160	65	85	71	30	39	25	12
6	15	29	56	65	117	61	85	66	32	34	27	17
7	15	25	45	180	85	147	80	62	32	35	90	14
8	13	21	32	178	83	133	77	89	29	31	36	13
9	21	25	41	119	85	74	83	127	27	28	24	10
10	19	25	85	116	68	† 65	114	85	27	26	20	10
11	21	27	75	83	192	† 60	151	69	28	23	25	7
12	22	29	59	64	322	† 60	247	64	25	21	19	8
13	17	27	56	61	173	† 60	363	61	37	19	15	8
14	17	25	64	57	99	† 60	193	60	44	17	15	9
15	15	24	56	51	80	† 60	123	51	40	17	14	10
16	38	32	47	50	69	† 60	104	47	37	17	11	10
17	40	29	38	45	69	† 70	95	46	56	16	10	13
18	34		39	45	77	† 80	90	43	48	17	13	12
19	26		31	40	71	† 70	85	41	40	16	22	12
20	23		30	38	66	† 65	80	40	37	15	19	10
21	17		32	39	57	† 65	77	45	32	15	17	11
22	15		25	59	61	† 140	74	48	53	17	13	12
23	25		35	57	62	† 110	71	40	47	21	12	† 12
24	22	†32	39	75	57	† 80	66	38	34	16	12	12
25	21		38	58	52	69	65	37	27	13	12	10
26	21		34	48	48	64	68	35	26	14	10	9
27	14		26	61	57	66	88	34	26	21	10	9
28	27		27	74	61	238	77	46	45	33	12	12
29	34		26	54	65	575	64	43	38	36	10	18
30	50		28	65		258	61	36	29	29	10	21
31	54		20	74		139		35		11	9	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	70	77	92	62	89	126	110	114	59	21	66
2	10	173	77	74	66	91	143	109	78	365	27	60
3	7	153	77	66	68	99	141	124	65	496	23	77
4	8	74	76	66	62	96	175	205	102	197	72	166
5	12	64	76	68	56	89	205	179	114	88	45	278
6	31	58	74	68	‡ 55	77	156	126	202	68	35	215
7	77	121	70	65	58	78	220	158	178	52	27	92
8	35	188	70	65	124	176	249	137	91	45	28	77
9	28	125	64	71	152	342	169	114	70	38	26	74
10	20	168	60	112	‡ 90	† 150	135	133	82	40	26	124
11	17	315	60	104	‡ 60	† 120	123	135	62	39	41	86
12	21	206	74	99	‡ 80	† 100	169	110	60	37	39	68
13	16	107	96	91	‡ 70	† 95	516	102	91	35	34	59
14	14	83	86	74	68	† 100	364	99	65	33	48	92
15	14	72	77	66	76	† 170	202	94	53	32	53	332
16	14	66	‡ 65	65	‡ 80	† 140	173	86	50	39	37	992
17	15	72	‡ 55	64	77	† 120	195	96	56	53	33	625
18	98	74	64	65	77	† 110	888	83	59	42	39	352
19	169	184	62	70	96	† 110	545	76	55	37	37	193
20	109	964	59	84	148	† 140	281	70	50	30	100	137
21	48	491	53	76	303	360	210	91	45	29	76	121
22	35	233	59	77	224	479	179	77	45	29	167	109
23	32	150	64	117	135	290	164	66	42	26	350	100
24	32	126	74	99	124	184	152	71	36	21	618	99
25	31	117	117	76	112	150	148	60	33	25	939	94
26	30	117	145	78	130	148	160	60	40	28	376	89
27	43	112	109	100	119	171	146	56	41	34	145	92
28	68	89	143	86	97	162	130	64	40	30	92	91
29	46	78	156	74		141	123	62	36	23	99	91
30	37	77	114	68		124	114	86	30	19	82	88
31	33		100	64		112		105		21	71	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Saddle River at Lodi
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	81	63	50	63	‡ 60	‡ 45	402	87	63	39	28	20
2	137	59	48	88	‡ 64	‡ 65	440	81	60	39	31	17
3	137	60	49	80	‡ 54	125	208	139	54	35	27	18
4	95	58	55	65	‡ 47	232	153	370	53	51	25	34
5	88	54	65	82	‡ 50	505	149	306	51	42	15	36
6	103	59	59	180	‡ 48	730	131	141	50	37	16	31
7	87	66	68	216	‡ 45	329	160	109	45	30	18	26
8	73	69	59	336	‡ 43	173	184	88	45	42	7	86
9	73	60	54	339	‡ 42	113	131	81	40	37	7	249
10	69	58	48	184	‡ 42	† 96	114	81	45	35	22	374
11	72	55	‡ 42	123	‡ 44	† 93	109	133	50	28	35	125
12	77	55	‡ 41	104	‡ 47	† 95	227	106	48	26	26	66
13	69	57	‡ 41	101	‡ 54	†101	313	82	109	31	74	42
14	66	64	‡ 41	153	‡ 47	111	175	77	69	32	65	40
15	60	66	‡ 43	137	‡ 60	123	173	98	51	26	48	84
16	58	54	50	104	‡ 56	107	166	164	45	25	43	141
17	74	50	63	92	‡ 49	103	240	114	37	28	57	153
18	143	52	96	‡ 77	‡ 44	109	232	81	40	21	41	243
19	95	55	101	70	‡ 42	113	145	73	127	20	28	131
20	74	54	82	66	‡ 42	98	141	69	526	20	22	68
21	66	54	158	65	‡ 44	88	147	73	323	20	27	57
22	65	54	133	64	‡ 62	82	120	72	81	20	18	59
23	63	54	90	137	‡ 58	‡ 75	109	125	66	17	6	81
24	69	52	77	238	‡ 45	‡ 72	107	82	60	16	11	68
25	123	52	69	149	‡ 43	‡ 72	141	88	51	37	14	57
26	103	50	‡ 55	103	‡ 42	‡ 76	153	173	44	38	15	51
27	80	55	‡ 59	88	‡ 42	93	111	155	43	52	17	46
28	70	55	‡ 53	87	‡ 42	175	103	87	41	58	18	45
29	66	51	‡ 50	‡ 65		249	95	72	43	46	17	46
30	63	51	‡ 51	‡ 50		135	88	77	39	34	20	272
31	63		‡ 53	‡ 52		114		74		36	18	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	77	40	54.3	0.987	1.14
November	87	39	50.2	.913	1.02
December	134	30	54.5	.991	1.14
Calendar year, 1928	686	30	118	2.15	29.15
January, 1929	296	38	80.9	1.47	1.70
February	688	28	129	2.35	2.45
March	418	96	172	3.13	3.61
April	418	90	178	3.24	3.62
May	254	71	133	2.42	2.79
June	117	41	59.8	1.09	1.22
July	47	17	29.4	.535	.62
August	32	16	21.3	.387	.45
September	119	10	37.9	.689	.77
Year ending Sept. 30, 1929	688	10	82.9	1.51	20.53
October	155	21	48.3	.878	1.01
November	124	34	50.3	.915	1.02
December	268	34	75.3	1.37	1.58
Calendar year, 1929	688	10	84.2	1.53	20.84
January, 1930	215	59	88.2	1.60	1.84
February	166	56	92.4	1.68	1.75
March	325	61	104	1.89	2.18
April	355	60	98.9	1.80	2.01
May	155	40	59.5	1.08	1.24
June	155	18	47.2	.858	.96
July	54	11	25.0	.455	.52
August	166	6	32.0	.582	.67
September	39	14	24.3	.442	.49
Year ending Sept. 30, 1930	355	6	62.0	1.13	15.27

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Saddle River at Lodi
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	30	14	18.7	0.340	0.39
November	302	22	72.8	1.32	1.47
December	257	27	52.8	.960	1.11
Calendar year, 1930	355	6	59.4	1.08	14.63
January, 1931	209	35	57.9	1.05	1.21
February	386	28	82.1	1.49	1.55
March	302	57	96.5	1.75	2.02
April	444	52	129	2.35	2.62
May	349	61	131	2.38	2.74
June	316	45	109	1.98	2.21
July	83	28	44.9	.816	.94
August	72	18	33.3	.605	.70
September	83	11	27.4	.498	.56
Year ending Sept. 30, 1931	444	11	71.0	1.29	17.52
October	54	9	22.9	.416	.48
November			30.2	.549	.61
December	85	20	42.2	.767	.88
Calendar year, 1931	444	9	67.0	1.22	16.52
January, 1932	180	25	70.2	1.28	1.48
February	322	47	87.4	1.59	1.72
March	575	56	104	1.89	2.18
April	363	61	111	2.02	2.25
May	189	34	63.2	1.15	1.33
June	56	25	35.1	.638	.71
July	65	11	25.2	.458	.53
August	90	9	18.6	.338	.39
September	21	7	11.4	.207	.23
Year ending Sept. 30, 1932	575	7	51.7	.940	12.79
October	169	7	37.5	.682	.79
November	964	58	164	2.98	3.32
December	156	53	82.4	1.50	1.73
Calendar year, 1932	964	7	67.3	1.22	16.66
January, 1933	117	64	78.8	1.43	1.65
February	303	55	102	1.85	1.93
March	479	77	155	2.82	3.25
April	688	114	217	3.95	4.41
May	205	56	101	1.84	2.12
June	202	30	69.5	1.26	1.41
July	496	19	68.1	1.24	1.43
August	939	21	123	2.24	2.58
September	992	59	171	3.11	3.47
Year ending Sept. 30, 1933	992	7	114	2.07	28.09
October	143	58	82.8	1.51	1.74
November	69	50	56.5	1.03	1.15
December	158	41	64.6	1.17	1.35
Calendar year, 1933	992	19	107	1.95	26.49
January, 1934	339	50	121	2.20	2.54
February	64	42	48.5	.882	.92
March	730	45	152	2.76	3.18
April	440	88	172	3.13	3.49
May	370	69	115	2.09	2.41
June	526	37	80.0	1.45	1.62
July	58	16	32.8	.596	.69
August	74	6	26.3	.478	.55
September	374	17	92.2	1.68	1.87
Year ending Sept. 30, 1934	730	6	87.1	1.58	21.51

Elizabeth River at Irvington

LOCATION.- Water-stage recorder just below Orange Avenue, Irvington, Essex County.

DRAINAGE AREA.- 2.79 square miles.

RECORDS AVAILABLE.- October 1930 to September 1934.

AVERAGE DISCHARGE.- 4 years, 5.16 second-feet.

EXTREMES.- 1930-34: Maximum discharge, about 1 460 second-feet Aug. 6, 1932 (gage height, 10.52 feet); minimum, 0.6 second-foot Oct. 12, 1930, Oct. 17, 1932 (gage height, 1.15 feet).

REMARKS.- Recorder operated by town engineer of Irvington.

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	1.1	5.2	1.6	1.4	4.4	17.7	2.7	6.4	2.3	1.8	1.5
2	1.1	1.0	1.8	1.6	1.6	2.2	4.5	4.0	3.7	2.4	1.5	12.0
3	1.2	1.2	1.9	1.5	1.6	2.3	3.5	2.2	3.4	2.3	7.1	7.3
4	1.1	17.5	2.0	1.5	1.4	3.7	4.0	2.6	2.8	1.7	3.1	1.5
5	.8	8.5	1.8	26	1.5	2.8	2.9	2.6	3.3	1.7	1.9	1.4
6	1.0	1.7	1.7	5.7	1.5	2.3	3.1	2.6	2.3	6.7	1.9	1.5
7	1.1	1.4	1.5	2.8	1.3	2.0	13.1	3.8	26	7.9	2.0	1.5
8	1.2	1.2	1.6	2.4	1.4	53	4.4	7.9	11.6	2.6	1.8	1.7
9	1.3	1.3	1.6	2.1	21	5.6	3.1	3.4	13.6	2.0	1.7	1.5
10	1.1	1.3	1.8	2.1	4.5	3.4	2.9	3.2	11.0	8.5	9.0	1.5
11	.9	1.3	1.7	1.9	2.0	2.6	3.6	3.4	4.1	2.1	25	1.5
12	.7	1.4	2.0	11.2	3.0	2.5	2.6	3.5	3.3	1.8	4.8	1.5
13	.8	1.3	1.6	3.1	5.3	2.4	3.1	5.1	3.1	2.0	1.7	1.3
14	1.3	2.5	1.5	2.5	5.1	2.2	3.8	4.3	2.5	3.3	1.7	3.5
15	6.3	12.3	1.6	2.5	2.0	1.8	3.4	3.5	2.3	2.2	2.1	1.5
16	1.2	12.5	1.7	2.2	1.8	2.1	3.3	3.3	16.9	2.5	1.4	1.5
17	1.7	14.8	1.7	2.1	19.5	2.1	3.1	2.8	4.0	2.3	1.8	5.6
18	1.4	14.3	1.6	1.9	7.4	2.0	2.8	2.5	2.5	2.7	1.8	1.7
19	.8	2.4	1.6	†20	2.3	3.4	2.5	2.3	2.5	1.7	7.4	1.4
20	1.0	2.4	1.7	† 5.0	1.9	4.3	2.8	2.2	2.4	2.0	1.9	1.4
21	1.0	1.6	1.2	† 2.0	1.6	1.7	3.2	7.3	2.1	12.0	2.0	1.5
22	1.0	1.7	1.4	† 1.0	1.7	1.7	3.0	2.3	2.3	3.4	2.0	1.8
23	2.1	1.7	3.4	1.0	2.0	1.9	12.2	7.6	3.2	2.2	2.0	1.4
24	1.6	1.9	2.3	1.1	2.2	2.2	3.0	2.3	2.3	3.0	1.8	1.5
25	.7	3.4	1.3	1.2	2.3	7.2	3.0	2.3	2.1	2.0	1.7	1.5
26	.7	2.0	13.4	1.6	2.2	1.9	14.2	2.2	2.3	1.6	1.7	4.0
27	1.0	1.6	31	1.5	2.5	1.8	3.1	2.1	2.0	1.8	3.9	1.3
28	1.5	2.0	2.4	1.5	1.9	14.1	3.0	2.1	1.8	1.9	2.0	† 1.0
29	3.2	1.7	2.1	1.6		32	3.5	2.1	2.2	7.0	3.7	† 1.0
30	1.2	5.1	1.8	1.5		3.7	4.1	2.1	2.1	2.1	1.5	† 1.0
31	9.0		1.9	1.4		2.7		21		1.8	1.5	

† Estimated.

Elizabeth River at Irvington
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	† 1	1.0	1.6	12.8	1.7	1.9	5.5	16.0	2.2	3.8	1.3	1.8
2	† 1	1.2	1.5	17.5	2.9	1.9	3.4	2.1	2.1	21	1.6	4.2
3	† 1	1.3	1.8	1.7	3.9	1.7	3.5	2.0	2.1	1.5	9.9	1.0
4	† 1	1.6	7.7	1.4	23	2.4	3.7	2.0	2.1	10.0	1.5	.9
5	† 1	1.4	1.7	1.4	3.8	1.9	3.9	2.0	1.6	2.1	1.3	.8
6	† 1	1.4	1.1	36	2.2	32	3.4	2.1	2.2	2.3	44	6.8
7	† 1	1.4	1.4	7.7	1.8	5.5	3.2	6.8	2.3	2.0	1.7	1.5
8	6.7	1.4	1.3	5.1	2.5	2.6	3.2	6.4	2.2	2.2	1.2	1.4
9	1.4	1.3	10.0	6.4	2.2	2.4	3.6	2 0	2.2	2.0	1.3	1.4
10	1.3	1.3	1.5	6.9	4.0	2.3	30	2.1	2.2	1.6	4.5	.9
11	1.0	1.3	1.4	2.2	10.9	2.2	8.9	2.1	2.3	2.2	1.7	.9
12	1.0	1.3	1.3	1.9	3.8	2.0	26	7.8	21	2.2	1.4	1.1
13	1.2	1.4	4.0	1.9	1.9	1.8	4.1	1.9	4.0	2.2	1.0	1.5
14	1.9	1.2	2.0	1.9	1.9	2.3	3.4	1.8	3.4	2.4	.8	1.5
15	6.7	1.3	1.5	1.8	2.0	2.2	3.0	1.4	2.2	2.5	1.3	1.5
16	9.1	1.2	1.5	1.8	2.2	2.2	2.9	1.7	13.5	2.0	1.7	9.7
17	1.3	1.3	1.4	1.5	4.7	12.1	2.9	1.9	2.7	1.9	1.8	1.4
18	1.0	1.3	1.4	2.1	2.2	1.9	2.8	2.0	1.8	2.6	14.9	.9
19	1.5	1.7	1.4	2.1	2.2	2.2	2.8	2.0	1.5	2.6	1.8	1.0
20	1.2	1.5	1.8	2.0	2.0	1.7	2.5	2.0	1.6	2.6	1.0	1.2
21	1.3	1.3	1.4	2.5	1.7	1.9	2.6	1.8	2.0	2.3	.8	1.5
22	1.5	1.2	7.1	2.4	1.7	18.9	2.6	1.6	19.0	6.4	.9	1.4
23	1.2	1.7	3.0	6.0	2.1	2.5	2.6	2.0	2.2	1.4	1.5	1.2
24	1.0	1.3	1.3	1.5	2.0	2.2	2.4	2.0	2.5	1.1	1.6	1.0
25	1.0	1.5	1.1	1.4	1.9	2.1	2.6	2.0	2.3	1.7	1.2	.8
26	1.0	1.1	1.0	1.6	1.9	43	6.2	2.0	2.0	1.7	1.3	.9
27	1.6	2.8	1.0	8.3	1.9	13.4	2.5	11.3	58	17.1	3.8	1.7
28	1.4	2.1	1.3	2.0	5.0	73	2.4	8.2	2.7	1.6	.9	9.2
29	6.9	1.3	1.4	1.7	2.1	6.4	2.5	1.5	2.9	1.5	1.1	1.3
30	2.7	4.2	1.4	3.7		3.9	2.1	1.3	4.6	1.0	1.4	1.3
31	1.4		1.4	1.5		12.6		2.1		.9	1.7	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	48	1.9	2.0	2.8	2.6	3.6	3.9	† 4	52	1.8	2.0
2	.7	1.7	1.9	2.0	2.2	2.9	2.4	4.3	† 3	3.6	1.7	1.6
3	1.1	1.5	1.8	2.1	2.1	2.1	5.0	28	†27	17.1	7.1	31
4	1.3	1.4	1.5	2.3	1.9	2.2	19.5	3.2	† 4	1.9	17.7	35
5	12.4	1.3	2.0	2.3	1.8	2.3	3.2	2.7	†11.9	2.2	1.7	2.9
6	38	2.7	1.9	2.1	1.9	2.4	24	31	†34	2.4	1.2	2.6
7	.9	81	2.1	2.2	12.1	40	8.9	3.3	†25	2.4	1.7	2.4
8	.7	3.2	2.1	2.0	8.5	4.9	3.6	2.7	† 4	2.1	11.6	2.3
9	.8	23	2.0	21	2.3	3.0	3.3	2.7	† 3	1.8	2.0	6.8
10	.7	68	1.9	2.8	2.3	2.7	3.3	16.4	†27	2.2	5.2	1.9
11	1.1	3.5	1.8	3.2	2.0	2.2	2.9	2.7	3	2.3	23	2.3
12	1.2	2.2	6.3	3.5	1.9	2.2	59	2.5	7.2	2.3	1.6	2.3
13	1.2	2.0	2.8	2.5	2.2	16.9	5.7	2.3	17.9	2.3	1.3	2.3
14	1.3	2.0	2.0	2.2	3.2	5.8	3.7	3.0	2.6	2.3	28	93
15	.9	2.0	2.1	2.1	7.5	3.5	3.1	2.4	2.4	2.1	1.8	197
16	1.2	1.9	2.0	2.2	2.7	2.5	4.5	14.6	2.5	32	1.8	22
17	18.3	4.9	1.9	2.3	3.1	2.5	43	2.6	7.5	2.2	2.0	5.9
18	55	1.9	1.8	2.0	4.4	3.2	14.7	2.6	2.5	2.1	4.6	4.5
19	1.5	131	1.8	6.0	2.6	11.0	4.7	2.4	3.1	2.1	1.5	3.9
20	.9	7.0	2.0	2.1	36	36	3.8	†20	3.1	2.2	1.2	3.4
21	1.1	3.6	1.8	1.8	3.9	42	3.5	† 2.1	† 3	2.1	28	3.8
22	1.0	2.6	3.3	8.4	2.9	4.8	3.2	† 2	† 2	2.0	46	3.2
23	.8	2.6	2.9	1.9	3.0	3.5	3.1	† 2	† 2	2.1	89	2.8
24	1.2	2.2	4.0	1.8	3.0	3.3	3.1	† 2	† 2	2.1	19.5	3.4
25	1.2	2.9	5.2	2.0	6.2	4.3	3.0	† 2	† 2	4.5	3.3	2.8
26	1.1	5.3	1.9	6.6	2.9	7.8	3.1	† 2	† 3	2.2	2.4	3.0
27	9.4	2.0	13.2	2.1	2.6	3.0	3.0	† 2	† 3	2.3	2.2	3.2
28	1.1	2.1	6.3	2.0	3.3	3.0	3.0	† 9.7	† 2	2.2	5.8	3.5
29	.9	2.1	2.4	1.9		3.1	3.4	† 6.7	† 2	2.2	5.2	5.0
30	.9	2.2	2.8	1.9		3.0	3.7	† 9.4	15.3	2.2	2.2	2.2
31	.9		2.7	2.1		4.7		†15.3		2.1	2.1	

† Estimated.

Elizabeth River at Irvington
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	† 1.7	1.5	10.3	2.4	1.7	9.2	2.8	3.2	3.0	1.9	1.6
2	2.8	† 1.7	1.1	2.6	2.4	2.8	4.1	5.0	‡ 3.4	4.1	2.6	1.1
3	2.8	† 1.7	1.2	1.7	2.0	27	3.2	45	‡ 2.6	14.5	2.4	3.8
4	2.6	1.7	6.7	1.7	1.7	31	5.4	5.9	‡ 3.4	4.1	1.5	36
5	7.1	1.6	1.4	35	2.0	19.1	2.6	3.4	‡ 3.2	4.1	1.5	2.1
6	2.2	8.4	3.3	4.7	2.0	3.9	2.8	3.0	‡ 3.4	4.1	2.1	3.1
7	2.0	2.1	1.4	29	2.1	2.6	8.9	3.4	‡ 3.7	51	2.2	6.6
8	2.0	2.0	1.2	8.0	2.1	2.4	2.4	3.7	‡ 3.7	7.9	2.4	155
9	2.1	2.0	1.1	3.0	2.1	2.4	2.6	4.6	‡ 4.1	3.0	2.7	6.1
10	2.1	2.0	1.0	2.8	1.8	2.0	2.8	10.0	‡ 3.0	3.0	2.2	7.9
11	2.2	1.7	1.4	2.6	1.5	1.7	36	3.4	‡ 3.7	2.9	3.9	2.5
12	2.2	1.7	1.5	2.6	1.5	2.4	8.5	3.0	‡12.2	3.0	23	2.5
13	5.1	4.5	1.7	17.7	2.0	4.8	3.7	2.8	‡ 2.1	2.7	2.2	2.2
14	2.0	1.9	1.7	2.4	2.1	3.5	5.3	3.2	‡ 2.2	2.5	1.9	12.4
15	1.8	1.7	1.7	2.6	2.6	2.4	2.6	9.6	‡ 2.1	4.1	1.7	15.7
16	2.1	1.7	12.7	2.6	2.0	2.4	19.4	3.9	‡ 1.7	2.5	29	11.9
17	25	1.5	5.7	2.6	2.0	2.0	4.4	4.6	‡ 1.4	2.2	1.9	26
18	2.4	1.8	1.9	2.6	1.8	2.3	3.7	4.6	‡ 3.9	2.4	1.3	3.2
19	1.8	1.2	1.7	2.6	1.8	2.4	3.7	3.2	‡78	2.4	1.2	2.9
20	2.0	1.5	22	2.1	1.8	2.4	4.8	14.2	‡ 3.0	2.4	1.9	2.7
21	1.7	1.7	2.1	1.8	† 1.8	2.2	3.0	3.0	‡ 2.8	1.9	2.1	2.5
22	1.5	2.1	1.8	2.5	† 2.0	2.4	2.4	40	4.5	1.9	2.2	9.8
23	2.0	1.7	1.2	29	† 3.0	2.4	3.0	5.1	7.7	2.5	2.2	3.4
24	11.3	1.5	1.0	2.8	† 2.5	2.4	3.8	3.7	2.1	2.5	6.6	2.4
25	2.1	1.1	1.1	2.8	† 2.1	2.0	4.3	44	3.0	11.4	1.6	2.4
26	2.0	4.4	1.4	2.4	† 1.9	3.1	3.2	4.1	3.4	2.1	1.2	2.4
27	2.0	1.5	1.7	2.1	1.8	3.6	4.2	3.7	3.7	1.9	2.4	2.4
28	1.7	1.6	1.7	6.2	1.5	19.3	2.8	4.9	11.1	12.9	4.4	2.4
29	† 1.7	1.5	1.7	2.4		2.4	2.2	8.4	3.9	1.2	2.1	22
30	† 1.7	1.1	1.7	2.2		2.4	2.8	3.4	3.6	1.9	2.1	21
31	† 1.7		1.7	2.2		56		3.7		2.1	2.1	

Monthly and annual discharge, in second-feet, 1930-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	9.0	0.7	1.63	0.584	0.67
November	17.5	1.0	4.14	1.48	1.65
December	31	1.2	3.22	1.15	1.33
Calendar year, 1930					
January, 1931	26	1.0	3.71	1.33	1.53
February	21	1.3	3.71	1.33	1.38
March	53	1.7	5.74	2.06	2.38
April	17.7	2.5	4.75	1.70	1.90
May	21	2.1	3.91	1.40	1.61
June	26	1.8	5.00	1.79	2.00
July	12.0	1.6	3.21	1.15	1.33
August	25	1.4	3.39	1.22	1.41
September	12.0	1.0	2.28	.817	.91
Year ending Sept. 30, 1931	53	.7	3.72	1.33	18.10
October	9.1	1.0	2.04	.731	.84
November	4.2	1.0	1.51	.541	.60
December	10.0	1.0	2.22	.796	.92
Calendar year, 1931	53	1.0	3.45	1.24	16.81
January, 1932	36	1.4	4.80	1.72	1.98
February	23	1.7	3.52	1.26	1.36
March	73	1.7	8.55	3.06	3.53
April	30	2.1	5.04	1.81	2.02
May	16.0	1.3	3.35	1.20	1.38
June	58	1.5	5.78	2.07	2.31
July	21	.9	3.50	1.25	1.44
August	44	.8	3.61	1.29	1.49
September	9.7	.8	2.06	.738	.82
Year ending Sept. 30, 1932	73	.8	3.83	1.37	18.69

† Estimated.
‡ Estimated, stage-discharge relation affected by backwater.

Elizabeth River at Irvington
(Continued)

Monthly and annual discharge, in second-feet, 1930-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1932	55	0.7	5.15	1.85	2.13
November	131	1.3	13.9	4.98	5.56
December	13.2	1.5	2.91	1.04	1.20
Calendar year, 1932	131	0.7	5.17	1.85	25.22
January, 1933	21	1.8	3.27	1.17	1.35
February	36	1.8	4.69	1.68	1.75
March	42	2.1	7.53	2.70	3.11
April	59	2.4	8.47	3.04	3.39
May	31	2	6.73	2.41	2.78
June	34	2	7.70	2.76	3.08
July	52	1.8	5.34	1.91	2.20
August	89	1.2	10.5	3.76	4.34
September	197	1.6	15.3	5.48	6.11
Year ending Sept. 30, 1933	197	.7	7.60	2.72	37.00
October	25	1.5	3.38	1.21	1.40
November	8.4	1.1	2.08	.746	.83
December	22	1.0	2.87	1.03	1.19
Calendar year, 1933	197	1.0	6.48	2.32	31.53
January, 1934	35	1.7	6.31	2.26	2.61
February	3.0	1.5	2.01	.720	.75
March	56	1.7	7.08	2.54	2.93
April	36	2.2	5.76	2.06	2.30
May	45	2.8	8.49	3.04	3.50
June	78	1.4	6.33	2.27	2.53
July	51	1.2	5.43	1.95	2.25
August	29	1.2	3.82	1.37	1.58
September	155	1.1	12.5	4.48	5.00
Year ending Sept. 30, 1934	155	1.0	5.52	1.98	26.87

Elizabeth River at Elizabeth

LOCATION.- Water-stage recorder at dam just above Westfield Avenue Bridge in Elizabeth, Union County, and 2½ miles above mouth.

DRAINAGE AREA.- 20 square miles.

RECORDS AVAILABLE.- October 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years, 27.6 second-feet, including diversions.

EXTREMES.- 1921-34: Maximum discharge, about 2 640 second-feet Sept. 1, 1927 and Nov. 19, 1933 (gage height, 9.73 feet).

REMARKS.- Part of monthly and annual discharge table corrected for diversions from Hammocks well-field, and also prior to April 1929, from Elizabeth River at Ursina Lake.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	5	54	57	4	39	16	14	22	5	24	3
2	7	6	7	20	3	87	12	28	21	5	9	3
3	8	11	6	10	3	48	13	40	22	5	14	3
4	8	28	7	8	4	47	20	34	21	5	6	3
5	7	9	16	8	4	152	19	37	20	81	4	4
6	10	6	6	154	5	187	83	44	21	31	4	43
7	6	6	4	16	282	57	18	83	19	5	4	99
8	8	13	5	9	22	34	17	40	28	5	4	156
9	10	9	6	8	19	32	13	39	20	6	4	179
10	10	4	5	71	22	26	66	32	18	5	6	28
11	10	6	5	16	13	24	15	23	18	5	9	14
12	10	6	4	11	10	26	110	30	† 17	5	5	9
13	9	8	4	9	10	24	54	37	† 16	8	5	9
14	16	† 7	4	7	9	55	13	25	† 16	6	6	14
15	10	† 6	4	7	9	19	8	25	† 15	5	6	6
16	10	† 6	6	6	8	28	112	25	† 16	5	4	5
17	10	† 7	11	9	8	20	133	20	† 16	5	4	22
18	20	† 7	45	12	8	20	60	14	† 15	5	4	9
19	49	† 6	5	† 8	8	18	38	27	† 13	15	93	3
20	11	5	7	† 16	8	16	29	35	† 24	5	7	2
21	8	3	7	† 12	8	17	40	34	† 16	5	5	2
22	7	5	8	7	7	17	38	28	† 13	5	4	2
23	6	4	6	14	6	109	39	27	† 12	5	4	2
24	6	3	5	10	6	32	30	24	† 12	5	4	2
25	6	4	5	13	12	19	28	31	† 12	5	4	2
26	6	3	6	15	310	20	89	23	† 19	5	4	3
27	6	4	6	9	120	17	30	23	† 12	5	4	3
28	8	10	24	8	65	16	85	22	† 38	5	7	2
29	6	1	12	6		15	92	57	6	5	3	2
30	6	60	11	5		18	18	33	5	7	5	50
31	5		11	4		13		24		5	8	

†- Estimated.

Elizabeth River at Elizabeth
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	9.4	7.6	12	7.7	15	14	11	7.1	10	1.5	2.7
2	282	9.4	8.2	11	12	18	12	15	7.6	6.8	1.5	3.6
3	28	74	8.2	18	12	13	9.5	14	7.6	4.0	2.0	4.7
4	11	20	8.2	10	28	11	10	4.4	7.1	4.0	2.2	3.6
5	2.1	12	8.2	8.4	82	9.5	8.7	3.8	6.6	4.0	1.5	2.7
6	2.0	11	8.9	8.4	14	9.5	14	5.0	8.2	24	1.5	2.7
7	2.0	9.4	11	8.4	12	12	136	8.2	9.0	3.7	1.5	3.6
8	2.0	8.1	14	9.1	10	234	21	13	4.7	2.5	1.5	5.3
9	4.0	7.4	9.6	9.1	9.4	48	16	5.7	25	2.5	1.5	2.7
10	9.4	7.4	8.2	9.1	8.6	28	13	3.8	115	12	1.5	2.2
11	9.4	7.4	8.2	8.4	7.9	26	12	3.2	9.7	2.6	1.5	1.6
12	9.4	7.4	7.5	32	7.2	24	11	3.2	6.6	2.6	1.5	1.5
13	7.9	11	24	12	92	16	21	3.2	6.6	2.5	1.5	1.6
14	8.6	11	30	68	38	13	15	30	6.6	8.3	1.5	134
15	8.5	20	12	21	16	12	9.5	70	5.6	2.6	40	8.6
16	24	7.4	11	15	12	12	36	24	5.6	2.5	2.2	20
17	7.9	25	12	11	10	14	19	11	18	2.5	2.2	22
18	7.9	79	104	88	12	12	17	4.5	23	2.5	1.5	3.1
19	7.2	15	52	20	18	68	17	25	7.2	2.5	1.5	3.1
20	7.2	10	22	12	16	4.4	12	7.6	5.2	2.5	1.5	1.9
21	8.6	10	14	11	14	.4	10	5.7	4.7	2.5	1.9	1.6
22	114	8.9	12	11	14	.1	18	5.4	4.4	52	2.7	1.5
23	130	8.1	12	9.9	16	.1	8.7	5.7	4.0	20	152	1.9
24	12	9.7	12	8.4	22	.1	7.9	5.4	4.0	114	7.3	3.1
25	9.4	8.9	10	7.7	20	69	8.7	44	4.0	12	4.1	3.6
26	8.6	8.1	9.6	7.0	86	18	7.9	7.1	21	2.5	4.1	3.6
27	8.6	8.1	9.6	7.7	22	13	7.9	7.1	62	2.5	3.6	3.1
28	10	9.7	20	12	18	14	7.9	26	6.1	2.5	2.7	2.2
29	10	7.4	34	9.9		15	7.9	10	5.2	2.5	2.2	1.9
30	14	5.4	14	8.4		14	7.9	7.6	4.7	2.5	3.1	3.6
31	12		12	7.7		13		6.6		1.5	2.7	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	3.8	28	7.9	1.6	15	86	8.5	33	3.8	6.4	4.3
2	3.8	3.2	3.8	3.4	1.6	7.9	44	12	7.2	3.8	6.4	4.9
3	3.2	3.2	3.2	.4	1.6	7.1	22	9.3	7.0	3.8	† 8	16
4	2.1	24	3.2	.4	2.1	8.8	21	7.0	7.0	3.8	† 20	6.4
5	3.2	56	3.2	31	1.2	11	16	7.7	7.6	3.2	† 9	6.8
6	1.6	7.4	3.8	142	1.2	7.9	14	7.7	6.0	40	† 7	9.8
7	1.6	4.4	4.4	15	.4	7.1	45	17	47	25	† 6	9.0
8	2.1	4.4	4.4	9.5	.1	237	27	128	128	15	† 6	9.0
9	2.6	3.8	4.4	7.9	79	46	15	29	44	8.2	† 6	7.5
10	3.2	4.4	4.4	6.4	42	3.2	12	33	88	25	† 15	6.8
11	3.2	4.4	4.4	5.7	12	11	14	32	29	26	† 70	7.5
12	3.2	3.8	6.4	34	15	14	8.7	25	17	7.0	† 60	8.2
13	2.6	3.8	5.0	15	24	12	9.5	40	12	6.1	† 10	9.0
14	3.2	6.0	4.4	8.7	34	10	9.5	32	† 11	11	† 8	8.2
15	18	116	3.8	6.4	10	10	10	16	† 20	9.5	† 7	9.8
16	3.2	52	1.6	5.7	7.9	10	10	12	† 110	6.5	3.8	29
17	4.3	89	2.6	5.7	28	9.5	7.9	10	† 65	7.0	3.6	10
18	6.4	184	2.6	5.0	121	8.7	7.9	9.3	† 20	8.9	5.2	15
19	2.1	18	2.6	99	22	12	6.4	8.5	† 13	7.5	22	6.1
20	2.1	12	3.8	22	15	24	6.4	7.7	† 10	7.0	10	6.1
21	3.8	8.7	2.6	4.4	12	9.5	6.4	44	† 9	60	4.6	6.9
22	3.8	7.1	2.1	3.2	10	7.9	7.1	10	† 8	23	3.7	5.5
23	4.4	7.1	5.4	2.6	9.5	7.9	66	57	11	17	5.9	6.1
24	5.0	6.4	7.1	2.1	8.7	7.1	10	10	4.4	19	4.8	8.2
25	3.2	9.9	3.2	2.1	7.9	28	9.3	10	5.0	11	5.7	9.0
26	.7	5.0	27	2.1	7.9	9.5	53	9.3	5.6	9.3	6.2	17
27	3.2	5.0	184	2.1	9.5	8.7	15	7.7	3.8	8.1	9.1	9.3
28	5.0	3.8	24	2.6	8.7	14	9.3	7.0	3.2	57	9.4	6.1
29	12	3.8	13	2.6		231	9.3	6.3	2.7	26	49	5.0
30	3.8	5.0	10	2.6		36	7.7	5.6	3.2	25	4.9	3.2
31	34		46	2.6		20		62		7.3	4.9	

†- Estimated.

Elizabeth River at Elizabeth
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	5.7	11	25	4.4	6.4	48	49	5.0	5.2		
2	2.1	7.1	9.7	81	6.4	5.7	27	11	5.0	30		
3	2.1	7.1	10	15	15	5.0	25	7.9	5.0	4.4		
4	2.6	7.1	52	6.4	50	5.9	21	7.9	5.0	20		
5	2.6	7.9	7.5	5.7	66	7.0	17	7.9	4.4	9.8		
6	2.6	7.1	2.6	96	12	99	13	6.4	3.8	5.0		
7	2.6	7.1	3.2	122	8.7	65	9.5	21	8.8	4.4		
8	3.2	7.1	4.2	27	10	12	9.5	22	1.6	3.8		
9	7.1	7.9	55	38	6.4	8.7	10	8.7	3.2	4.4		†5
10	7.9	8.7	10	47	8.0	7.2	84	7.9	4.4	3.2		
11	7.1	7.9	5.7	14	48	7.1	45	7.9	4.4	3.2		
12	8.7	7.1	4.4	9.5	18	6.4	192	24	19	3.2		
13	9.5	7.9	12	9.5	10	6.4	38	12	32	3.2		
14	11	6.4	7.9	8.7	7.9	6.4	26	8.7	9.5	6.6		
15	24	5.7	3.8	8.7	7.9	5.0	18	7.9	5.9	7.1	†6	
16	38	4.4	3.8	7.1	7.1	5.0	15	7.9	29	48		
17	3.8	3.2	4.4	7.1	16	40	13	8.7	10			
18	3.8	2.6	5.0	7.1	8.7	9.9	13	5.0	4.4			3.4
19	2.6	5.7	3.8	5.0	6.4	7.1	10	4.4	4.4			1.5
20	3.2	6.4	4.4	4.4	5.7	7.1	9.5	39	4.4			1.5
21	4.4	3.8	2.6	7.4	5.0	7.1	8.7	1.6	4.4			1.9
22	7.1	3.2	16	6.6	5.7	67	7.9	1.6	40			2.2
23	6.4	3.2	19	21	6.4	13	7.9	1.2	4.4			2.2
24	5.7	8.8	4.4	8.7	5.7	10	7.1	1.2	† 3		†5	3.1
25	4.4	9.8	4.4	5.7	6.4	7.1	7.1	1.2	† 3			1.9
26	6.4	9.2	2.1	5.7	5.7	17	24	1.2	† 3			1.5
27	5.7	12	2.6	30	5.7	17	13	20	† 9			2.5
28	7.9	12	3.2	7.9	17	343	8.7	29	† 44			24
29	52	11	4.4	8.7	7.1	56	7.9	5.7	7.1			3.6
30	35	18	3.2	15		32	7.1	5.0	5.7			5.3
31	8.7		3.2	5.7		56		5.0				

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.7	145	7.2	9.6		† 10	† 17	11	22	54	4.0	8.8
2	2.2	23	7.2	8.8		† 12	16	11	12	93	4.9	13
3	2.2	1.2	7.9	8.8		† 9	20	60	66	56	12	78
4	3.1	1.2	7.9	8.8		7.8	90	32	16	12	64	149
5	26	1.2	8.7	8.8		7.8	21	2.6	42	9.6	27	33
6	104	.9	7.9	8.8		7.2	† 130	70	116	8.8	24	28
7	10	301	7.9	8.8		56	† 30	38	69	12	21	19
8	4.0	41	7.9	8.1		111	† 17	17	24	10	36	1.2
9	3.4	52	7.9	73		18	† 15	16	13	12	34	7.8
10	3.4	386	9.5	42		15	† 13	65	56	8.6	29	2.1
11	4.6	26	10	15		12	† 26	18	11	9.3	93	0
12	5.1	2.9	23	2.9		12	† 200	15	13	7.9	29	0
13	4.0	10	9.8	2.4		43	† 30	14	46	.1	28	1.7
14	5.2	18	13	2.9		57	† 15	14	10	.1	89	124
15	4.6	15	6.1	7.4	†19	24	† 12	13	9.6	.1	29	643
16	4.6	12	4.9	48		15	28	37	8.8	58	28	132
17	27	21	4.9	11		14	149	18	19	26	28	46
18	230	8.7	4.9	7.7		15	78	12	8.8	18	35	18
19	11	662	5.5	18		51	6.7	12	8.0	14	28	1.2
20	3.4	63	5.5	7.6		205	† 13	32	8.0	9.5	28	.4
21	2.0	12	4.9	3.6		127	† 13	23	8.0	9.6	68	14
22	1.2	18	4.9	4.7		34	† 13	12	7.3	10	155	.2
23	.9	16	8.1	4.7		4.9	13	9.9	7.3	9.1	203	.1
24	1.2	13	15	4.5		22	13	9.9	7.3	8.8	167	13
25	1.5	10	25	7.0		21	12	9.9	6.6	17	18	11
26	1.5	22	13	19		43	12	9.2	8.8	15	11	11
27	23	8.7	39	9.3		23	11	9.9	8.8	5.1	7.1	11
28	5.8	7.9	43	10		19	12	29	7.3	4.3	20	11
29	7.2	7.2	17	9.6		† 15	11	8.2	6.6	4.2	20	15
30	6.5	7.9	14	8.8		† 12	10	37	26	4.2	15	9.1
31	5.2		15	11		† 20		73		4.0	11	

†- Estimated.

Elizabeth River at Elizabeth
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	12	8.8	16	9.3	‡ 5.7	123	11	9.4	5.3	5.2	3.1
2	10	13	8.0	18	9.3	8.0	34	12	8.6	4.6	6.7	3.1
3	7.4	13	8.0	7.1	8.5	121	69	189	7.9	3.5	8.2	4.3
4	7.6	15	19	6.4	7.8	110	33	58	7.2	12	4.7	70
5	20	15	26	102	7.8	225	21	26	7.9	1.2	3.8	46
6	9.6	31	5.0	51	7.8	44	19	19	7.9	1.7	4.3	3.1
7	9.3	11	5.0	90	7.1	29	44	15	7.9	23	4.7	7.2
8	9.1	11	5.0	53	7.1	23	19	12	7.2	42	5.2	388
9	9.6	9.4	5.0	23	7.1	20	11	12	6.5	9.3	5.6	138
10	11	11	5.7	18	6.4	17	2.3	22	9.1	6.6	5.6	36
11	11	11	5.7	15	4.2	16	39	16	8.6	2.6	10.7	18.2
12	11	11	5.7	13	4.8	16	123	10	40	62	59	6.8
13	20	12	5.7	46	5.4	26	27	9.4	10	4.7	14.9	14.1
14	14	17	5.0	22	5.4	25	29	9.4	7.9	2.9	7.6	19.2
15	15	8.7	5.7	15	6.1	19	22	28	7.2	3.0	6.1	45
16	20	8.0	5.0	13	8.3	17	78	13	6.5	5.1	44	37
17	64	8.0	12	11	‡ 5.9	16	33	10	5.3	1.0	23	107
18	18	9.4	13	11	‡ 5.5	17	22	10	5.9	2.8	5.4	18.5
19	8.0	8.0	7.1	11	† 5.4	18	19	8.6	214	6.1	4.5	13.1
20	7.4	7.4	51	10	† 5.4	13	23	32	18	5.8	4.5	10.7
21	6.8	7.4	20	9.3	† 5.5	8.2	16	16	12	5.6	2.0	9.6
22	6.5	8.7	9.5	9.3	† 6.0	8.2	14	88	10	4.3	.6	33
23	7.0	9.4	8.7	63	† 8.5	† 8.1	14	36	22	4.7	.5	12.3
24	21	9.4	7.9	15	† 6.8	† 8.0	20	11	7.2	5.6	.5	9.3
25	15	8.7	7.9	13	† 5.9	6.1	30	112	7.2	23	.4	8.7
26	10	11	7.9	11	† 5.6	10	13	22	7.2	5.8	.4	7.9
27	11	12	7.1	11	‡ 5.4	15	16	12	7.2	5.4	.3	7.3
28	12	8.7	5.7	17	‡ 5.4	79	12	11	28	27	.4	3.4
29	12	8.7	5.7	14		18	12	12	7.2	5.4	3.2	1.0
30	12	9.4	5.0	6.9		15	11	14	6.5	7.0	3.4	94
31	13		4.4	12		179		9.4		5.8	3.2	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	49	5	9.97	20.6	1.03	1.19
November	60	1	8.60	19.4	.970	1.08
December	54	4	10.1	20.3	1.02	1.18
Calendar year, 1928	581	1	27.2	37.4	1.87	25.49
January, 1929	154	4	18.2	29.7	1.48	1.71
February	310	3	35.5	47.4	2.37	2.47
March	187	13	40.4	50.4	2.52	2.90
April	133	8	44.6	48.9	2.44	2.72
May	83	14	31.5	35.8	1.79	2.06
June	38	5	17.4	23.1	1.16	1.29
July	81	5	8.84	15.0	.750	.86
August	93	3	8.84	15.0	.750	.86
September	179	2	22.8	28.6	1.43	1.60
Year ending Sept. 30 1929	310	1	21.3	29.4	1.47	19.92
October	282	2.0	25.4	31.7	1.58	1.82
November	79	5.4	14.9	21.2	1.06	1.18
December	104	7.5	17.2	24.5	1.22	1.41
Calendar year, 1929	310	2.0	23.7	30.8	1.54	20.88
January, 1930	88	7.0	15.9	23.5	1.18	1.36
February	92	7.2	22.7	30.0	1.50	1.56
March	234	.1	24.4	30.6	1.53	1.76
April	136	7.9	17.2	23.4	1.17	1.30
May	70	3.2	12.8	18.9	.945	1.09
June	115	4.0	13.7	19.8	.990	1.10
July	114	1.5	10.3	15.3	.765	.88
August	152	1.5	8.31	13.1	.655	.76
September	134	1.5	8.58	13.3	.665	.74
Year ending Sept. 30, 1930	282	.1	15.9	22.1	1.10	14.96

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Elizabeth River at Elizabeth
(Continued)

Monthly and annual discharge in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	34	0.7	4.98	9.54	0.477	0.55
November	184	3.2	22.2	26.3	1.32	1.47
December	184	1.6	13.7	18.0	.900	1.04
Calendar year, 1930	234	.1	14.5	20.1	1.00	13.61
January, 1931	142	.4	14.8	19.2	.960	1.11
February	121	.1	17.6	22.0	1.10	1.14
March	237	3.2	27.5	32.0	1.60	1.84
April	86	6.4	19.5	24.0	1.20	1.34
May	128	5.6	22.0	26.8	1.34	1.54
June	128	2.7	24.6	29.0	1.45	1.62
July	60	3.2	15.8	20.2	1.01	1.16
August	70	3.6	12.8	15.8	.790	.91
September	29	3.2	8.86	12.1	.605	.68
Year ending Sept. 30 1931	237	.1	17.0	21.2	1.06	14.40
October	68	2.1	10.3	13.9	.695	.80
November	18	2.6	7.37	11.2	.560	.62
December	55	2.1	9.21	12.7	.635	.73
Calendar year, 1931	237	.1	15.9	19.9	1.00	13.49
January, 1932	122	5.7	21.5	24.7	1.24	1.43
February	66	4.4	13.4	16.8	.840	.91
March	343	5.0	30.6	34.0	1.70	1.96
April	192	7.1	24.8	28.3	1.42	1.58
May	49	1.2	11.1	15.1	.755	.87
June	44	1.6	9.76	13.8	.690	.77
July			7.63	12.1	.605	.70
August			6.00	9.98	.499	.58
September			4.65	8.82	.441	.49
Year ending Sept. 30 1932	343		13.0	16.8	.840	11.44
October	230	.9	16.7	20.5	1.02	1.18
November	662	.9	63.8	67.7	3.38	3.77
December	43	4.9	11.8	15.1	.755	.87
Calendar year, 1932	662		18.4	22.2	1.11	15.11
January, 1933	73	2.4	12.9	16.1	.805	.93
February			† 19	22.4	1.12	1.17
March	205	4.9	33.6	37.4	1.87	2.16
April	200	6.7	34.9	38.6	1.93	2.15
May	73	2.6	23.8	27.5	1.38	1.59
June	116	6.6	22.4	26.3	1.32	1.47
July	93	.1	16.5	20.7	1.04	1.20
August	203	4.0	44.1	48.0	2.40	2.77
September	643	0	46.7	50.7	2.54	2.83
Year ending Sept. 30 1933	662	0	28.8	32.5	1.62	22.09
October	64	6.5	13.4	17.3	.865	1.00
November	31	7.4	11.2	15.7	.785	.88
December	51	4.4	9.72	15.1	.755	.87
Calendar year, 1933	643	0	24.0	27.9	1.40	19.02
January, 1934	102	6.4	23.6	15.1	1.44	1.66
February	9.3	4.2	6.56	11.5	.575	.60
March	225	5.7	36.8	41.1	2.06	2.38
April	123	2.3	31.6	35.1	1.76	1.96
May	189	8.6	27.9	31.8	1.59	1.83
June	214	5.3	17.2	21.4	1.07	1.19
July	62	1.0	9.83	14.5	.725	.84
August	59	.3	8.02	12.3	.615	.71
September	388	1.0	39.2	43.5	2.18	2.43
Year ending Sept. 30 1934	388	.3	19.6	24.1	1.20	16.35

†- Estimated.

Rahway River at Rahway

LOCATION.- Water-stage recorder 100 feet above St. George Avenue Bridge in Rahway, Union County, 1 mile above mouth of Robinsons Branch of Rahway River. Prior to Aug. 24, 1934 staff gage, 2 000 feet downstream used. Zero of gage is 8.63 feet and zero of staff gage was 5.86 feet above mean sea level.

DRAINAGE AREA.- 41 square miles.

RECORDS AVAILABLE.- July 1908 to April 1915, October 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years (1921-34), 63.1 second-feet, corrected for diversions.

EXTREMES.- 1908-15, 1921-34: Maximum discharge, about 1 740 second-feet Aug. 2, 1927 (gage height, 6.0 feet); minimum stage, 0.00 foot Dec. 1, 1912.

REMARKS.- Part of monthly and annual discharge table corrected for diversions. Diversions aggregating about 17 second-feet above station.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	25	133	29	20	124	40	70	37	16	17	9
2	22	10	33	71	18	97	29	65	30	19	24	6
3	22	16	26	32	16	206	25	58	26	14	9	7
4	15	25	20	24	17	101	30	44	23	12	14	5
5	19	29	22	19	16	282	39	44	22	14	7	5
6	18	19	22	296	18	466	162	39	24	58	8	12
7	18	17	18	97	325	218	64	162	19	16	10	15
8	15	16	16	76	282	85	44	55	31	16	8	121
9	17	21	16	30	67	67	33	39	23	14	5	218
10	17	19	14	107	62	51	33	34	19	9	5	54
11	16	16	13	83	44	47	46	30	18	6	23	20
12	16	14	13	51	32	44	172	33	19	10	11	16
13	16	16	14	37	28	47	206	89	18	7	10	10
14	14	20	14	58	26	77	67	50	17	8	9	12
15	16	17	16	24	24	97	50	57	18	12	11	11
16	12	16	15	24	23	74	242	40	18	8	10	10
17	19	17	16	22	23	57	466	32	16	8	6	7
18	17	17	68	26	23	43	172	33	16	8	7	25
19	83	16	24	37	23	39	76	96	14	9	48	9
20	26	22	21	34	23	38	58	152	30	10	21	6
21	18	19	18	28	24	34	60	97	22	10	15	7
22	18	17	16	25	23	34	124	80	18	11	12	6
23	23	19	15	28	24	34	85	54	31	10	9	8
24	22	17	16	30	21	142	57	38	18	8	7	6
25	16	16	15	29	23	61	47	110	15	7	7	5
26	15	14	16	37	162	54	218	43	32	5	7	5
27	15	15	16	32	680	47	142	34	14	4	7	5
28	15	16	31	26	296	40	64	37	18	5	11	7
29	15	13	23	21		32	296	35	23	7	5	6
30	15	19	19	17		33	107	65	15	8	9	10
31	14		17	22		38		51		5	9	

Rahway River at Rahway
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	17	12	40	20	50	23	22	10	6	10	5
2	133	15	16	31	21	58	23	38	11	24	7	7
3	133	47	13	37	26	46	21	31	9	7	6	7
4	26	60	12	31	30	32	23	24	8	5	8	6
5	15	24	13	24	183	32	21	21	6	10	7	4
6	12	19	13	21	58	34	22	21	6	30	6	4
7	13	16	12	21	31	30	194	19	8	17	5	4
8	11	13	20	24	29	433	96	22	7	8	5	7
9	9	13	19	25	28	401	47	32	18	5	4	6
10	10	13	16	23	28	102	35	18	82	29	4	4
11	9	13	16	22	24	65	30	17	44	23	5	4
12	10	14	15	30	22	86	22	18	12	5	7	4
13	8	13	21	39	73	57	38	17	11	7	5	3
14	11	15	53	80	133	43	43	14	11	10	4	206
15	8	21	35	94	57	38	31	73	11	7	5	34
16	22	19	26	50	35	38	55	31	7	5	17	7
17	11	16	21	32	46	34	46	21	8	14	5	9
18	8	91	42	93	29	32	54	15	13	3	9	14
19	9	60	242	99	37	48	53	22	11	4	6	4
20	7	28	94	42	53	33	40	24	8	4	6	11
21	5	23	40	33	58	30	33	16	7	3	5	4
22	5	19	30	31	55	28	43	17	7	3	5	7
23	142	21	25	26	55	28	31	12	7	39	13	3
24	26	16	25	23	68	28	26	13	7	22	46	4
25	11	19	22	26	64	62	26	42	5	80	14	5
26	16	16	22	31	162	60	24	18	3	18	11	5
27	13	16	22	22	133	37	23	13	33	6	7	3
28	12	15	24	22	70	31	22	11	9	19	6	5
29	11	16	57	21		24	22	25	5	12	6	4
30	8	18	50	20		26	21	12	7	10	6	4
31	14		35	17		24		10		12	5	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	9	24	13	12	31	117	13	183	11	12	10
2	7	6	15	11	13	32	194	22	50	11	13	9
3	6	5	13	11	11	24	88	29	25	12	11	70
4	5	12	7	9	12	28	67	26	19	14	39	22
5	7	68	6	12	12	34	44	22	19	15	16	11
6	5	19	9	172	12	28	37	24	17	37	13	10
7	5	4	6	47	10	24	73	21	20	28	10	10
8	4	7	11	19	12	183	86	70	194	22	11	11
9	5	5	11	16	28	355	50	122	97	142	11	8
10	3	5	11	15	97	122	42	68	124	60	13	8
11	3	5	8	13	38	53	40	96	133	86	42	7
12	3	3	9	16	23	42	32	44	57	29	105	6
13	5	6	10	32	33	33	28	101	37	20	25	6
14	3	8	7	19	105	29	24	74	31	28	19	6
15	6	152	7	19	42	26	25	60	26	31	18	19
16	10	91	7	9	28	25	22	39	35	22	16	8
17	6	206	6	11	24	22	23	30	194	22	18	9
18	7	218	6	12	242	22	21	28	83	25	12	11
19	7	61	6	50	83	22	23	22	35	37	10	7
20	5	24	6	58	48	25	23	22	30	22	18	8
21	4	12	7	25	37	26	22	43	25	20	14	7
22	5	17	7	20	35	25	19	50	21	44	11	7
23	4	15	7	12	31	22	77	133	23	16	9	7
24	4	12	7	15	29	22	43	53	22	20	15	7
25	5	13	7	13	23	37	28	34	18	17	14	6
26	4	12	8	14	24	34	57	17	16	12	13	6
27	4	12	172	14	24	28	74	13	18	15	14	9
28	6	12	107	15	23	26	† 50	11	16	13	43	9
29	8	12	32	15		355	30	16	17	12	16	7
30	10	11	22	15		268	24	16	13	26	15	6
31	29		15	15		82		19		13	11	

† Estimated.

Rahway River at Rahway
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	8	10	8	15	22	152	46	11	6	5	6
2	6	7	10	133	15	18	70	65	10	13	5	13
3	5	9	7	71	17	17	53	33	9	7	5	11
4	5	6	10	21	24	15	39	32	7	9	12	5
5	5	8	37	15	183	19	32	22	7	13	6	5
6	5	9	11	50	57	30	32	20	7	6	6	15
7	4	5	9	282	33	230	29	29	6	5	10	6
8	6	13	6	76	29	48	26	23	7	5	12	4
9	16	8	7	82	22	29	29	25	6	4	7	4
10	6	9	48	94	19	20	89	20	7	4	7	3
11	6	8	14	48	67	21	133	22	6	4	7	3
12	5	9	9	31	46	20	355	21	7	4	5	3
13	5	8	10	22	33	20	218	22	54	4	7	3
14	5	12	10	22	25	20	77	20	14	3	5	3
15	5	7	10	18	21	18	55	20	11	4	5	3
16	60	19	7	18	18	16	44	17	23	4	4	3
17	13	11	7	16	20	24	42	15	15	3	5	4
18	7	6	6	16	26	30	35	13	11	4	5	4
19	7	3	5	15	20	23	30	13	10	4	11	5
20	5	6	7	13	20	22	30	12	9	4	10	4
21	5	7	9	13	17	20	25	12	8	4	6	4
22	7	5	4	16	20	86	25	12	29	3	5	3
23	5	7	18	14	17	67	22	12	10	6	7	3
24	5	6	9	24	16	30	22	11	7	5	4	4
25	5	4	8	17	14	29	19	11	7	4	4	4
26	4	5	10	12	16	24	19	10	7	4	5	3
27	3	7	6	37	17	37	37	9	14	4	5	3
28	4	7	7	23	19	466	23	46	68	7	8	3
29	10	6	6	16	20	466	22	13	10	7	4	4
30	15	12	6	25		117	18	12	7	6	5	4
31	20		7	18		71		11		5	4	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4	107	23	34	18	26	55	28	73	43	9	15
2	4	162	16	25	21	26	57	28	30	152	7	13
3	4	25	21	23	19	29	51	30	22	73	7	24
4	4	11	20	24	19	24	183	64	40	33	37	172
5	4	13	20	24	17	25	99	31	58	23	15	183
6	35	11	18	22	16	23	64	46	183	21	9	40
7	44	255	17	22	15	24	194	162	43	18	8	23
8	11	466	20	19	152	242	110	60	101	14	11	23
9	5	107	16	51	54	119	65	43	32	37	14	18
10	10	867	18	99	21	48	54	142	77	20	12	25
11	4	605	21	43	22	32	44	61	30	13	101	20
12	10	114	26	38	28	34	230	43	25	12	20	18
13	4	44	31	24	20	39	355	40	82	13	13	15
14	3	30	29	22	19	172	121	37	25	12	64	60
15	3	19	22	22	28	94	82	34	24	11	16	792
16	4	21	17	20	30	55	77	32	23	112	13	1 310
17	8	29	19	21	23	43	230	58	26	51	13	500
18	242	22	25	22	32	37	433	30	30	20	14	133
19	115	534	20	28	46	70	114	29	24	12	15	64
20	22	1 060	22	24	194	355	68	25	22	13	16	46
21	13	242	20	21	325	534	61	58	22	12	21	38
22	12	67	20	37	88	370	71	28	21	12	183	34
23	7	43	23	38	62	119	47	23	18	11	97	29
24	11	35	28	24	46	74	44	23	16	13	466	33
25	12	31	73	20	38	58	38	25	16	11	194	28
26	9	48	55	38	60	83	35	23	21	13	40	24
27	8	31	32	33	32	82	34	22	18	10	25	24
28	20	22	142	28	26	62	32	37	15	9	22	23
29	6	21	85	25		51	32	22	15	8	22	26
30	13	20	51	21		42	29	50	13	8	18	24
31	14		54	17		37		50		10	14	

Rahway River at Rahway
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	16	14	21	22	29	534	30	25	14	9	87
2	29	16	12	54	22	42	237	27	22	12	6	8.8
3	22	13	12	26	17	85	78	170	22	10	9	8.6
4	21	14	17	22	19	200	87	305	25	30	12	23
5	22	16	21	99	19	548	68	103	25	13	8	18.4
6	26	32	20	194	19	330	51	61	24	12	6	9.9
7	21	23	20	218	19	103	100	48	20	10	8	12.5
8	21	19	19	310	19	63	78	39	15	133	6	217
9	22	16	8	99	† 19	55	50	36	16	22	8	415
10	19	15	14	58	19	42	40	36	20	15	7	134
11	19	15	17	44	16	51	39	63	22	13	6	38
12	20	14	13	37	17	36	288	34	25	13	13	21
13	22	18	12	40	17	39	110	33	42	13	48	16.2
14	22	21	13	82	31	61	68	33	21	13	17	16.4
15	18	23	11	43	16	55	68	39	17	10	14	59
16	20	20	16	42	13	42	61	48	13	15	36	62
17	51	16	33	31	13	38	160	33	14	13	25	187
18	51	18	46	25	13	44	75	27	20	9	15	100
19	23	22	22	25	16	40	55	25	267	6	10	35
20	21	21	37	22	40	33	59	36	160	8	13	23
21	21	22	88	23	17	29	47	44	36	6	8	22
22	19	9	30	22	14	30	39	29	22	8	10	51
23	20	15	22	109	16	25	36	152	30	6	8	54
24	20	14	20	67	31	25	36	42	21	6	6	30
25	37	12	20	38	13	27	100	55	20	12	16.1	21
26	18	13	22	34	14	27	48	222	17	14	9.3	20
27	18	22	21	29	16	36	36	70	17	8	7.7	19.2
28	21	15	17	32	† 22	180	39	42	22	12	9.9	17.0
29	16	16	18	50		71	33	33	20	20	9.3	18.0
30	18	7	15	21		48	30	33	10	13	9.9	216
31	17		16	20		118		27		13	8.8	

Monthly and annual discharge, in second-feet, 1928-34

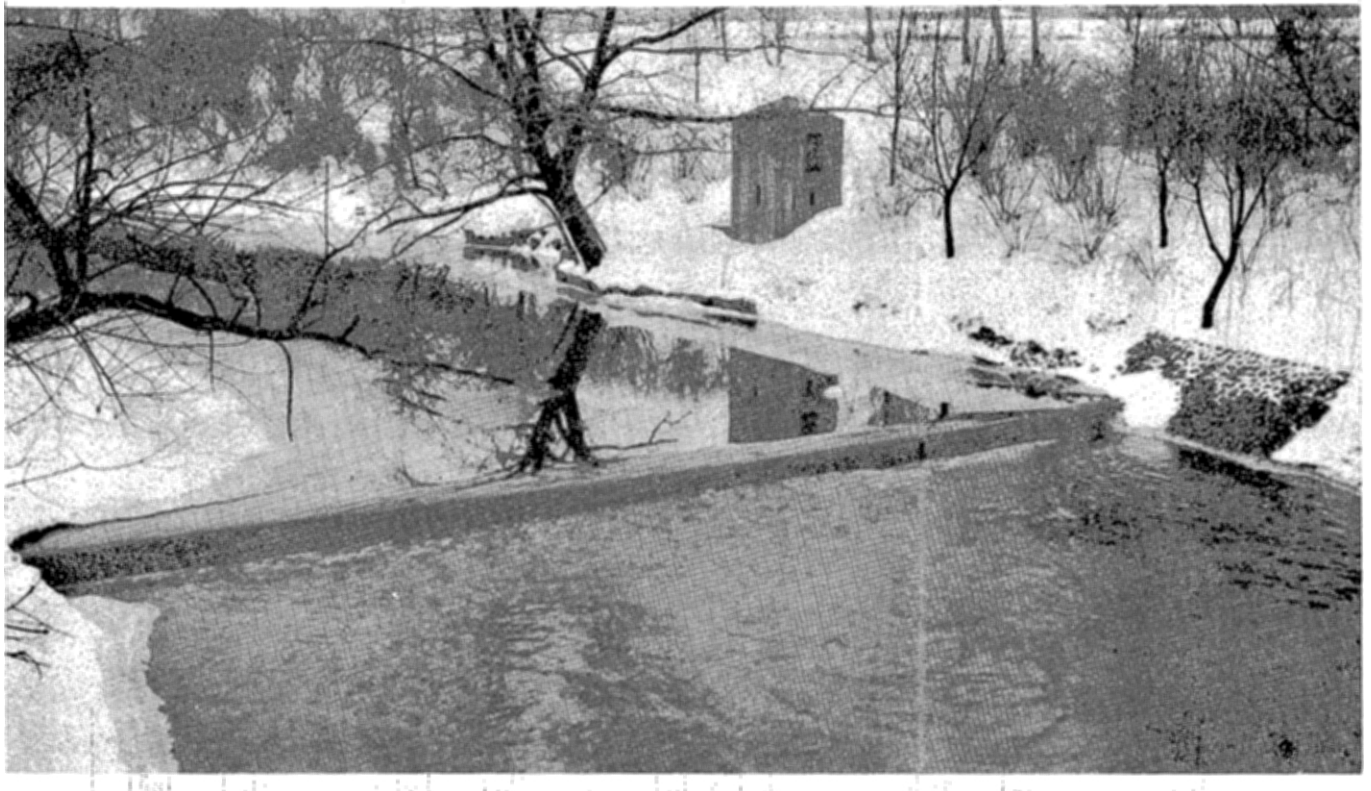
Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	83	14	19.7	38.9	0.949	1.09
November	29	10	17.8	35.6	.868	.97
December	133	13	23.7	41.8	1.02	1.18
Calendar year, 1928	1 260	10	60.8	78.1	1.90	25.93
January, 1929	296	17	47.5	66.4	1.62	1.87
February	680	16	84.4	103	2.51	2.61
March	466	32	90.6	110	2.68	3.09
April	466	25	108	127	3.10	3.46
May	152	30	59.9	77.4	1.89	2.18
June	37	14	21.5	40.0	.976	1.09
July	58	4	11.4	31.2	.761	.88
August	48	5	11.6	30.5	.744	.86
September	218	5	21.4	40.1	.978	1.09
Year ending Sept. 30, 1929	680	4	42.8	61.5	1.50	20.37
October	142	5	23.8	42.5	1.04	1.20
November	91	13	23.5	41.0	1.00	1.12
December	242	12	34.3	51.6	1.26	1.45
Calendar year, 1929	680	4	44.5	63.1	1.54	20.90
January, 1930	99	17	36.5	54.6	1.33	1.53
February	183	20	58.1	76.2	1.86	1.94
March	433	24	66.8	84.9	2.07	2.39
April	194	21	39.6	58.1	1.42	1.58
May	73	10	22.2	41.9	1.02	1.18
June	82	3	13.0	32.7	.798	.89
July	80	3	14.4	34.5	.841	.97
August	46	4	8.23	27.0	.659	.76
September	206	3	13.1	31.6	.771	.86
Year ending Sept. 30, 1930	433	3	29.3	47.9	1.17	15.87

† Estimated.

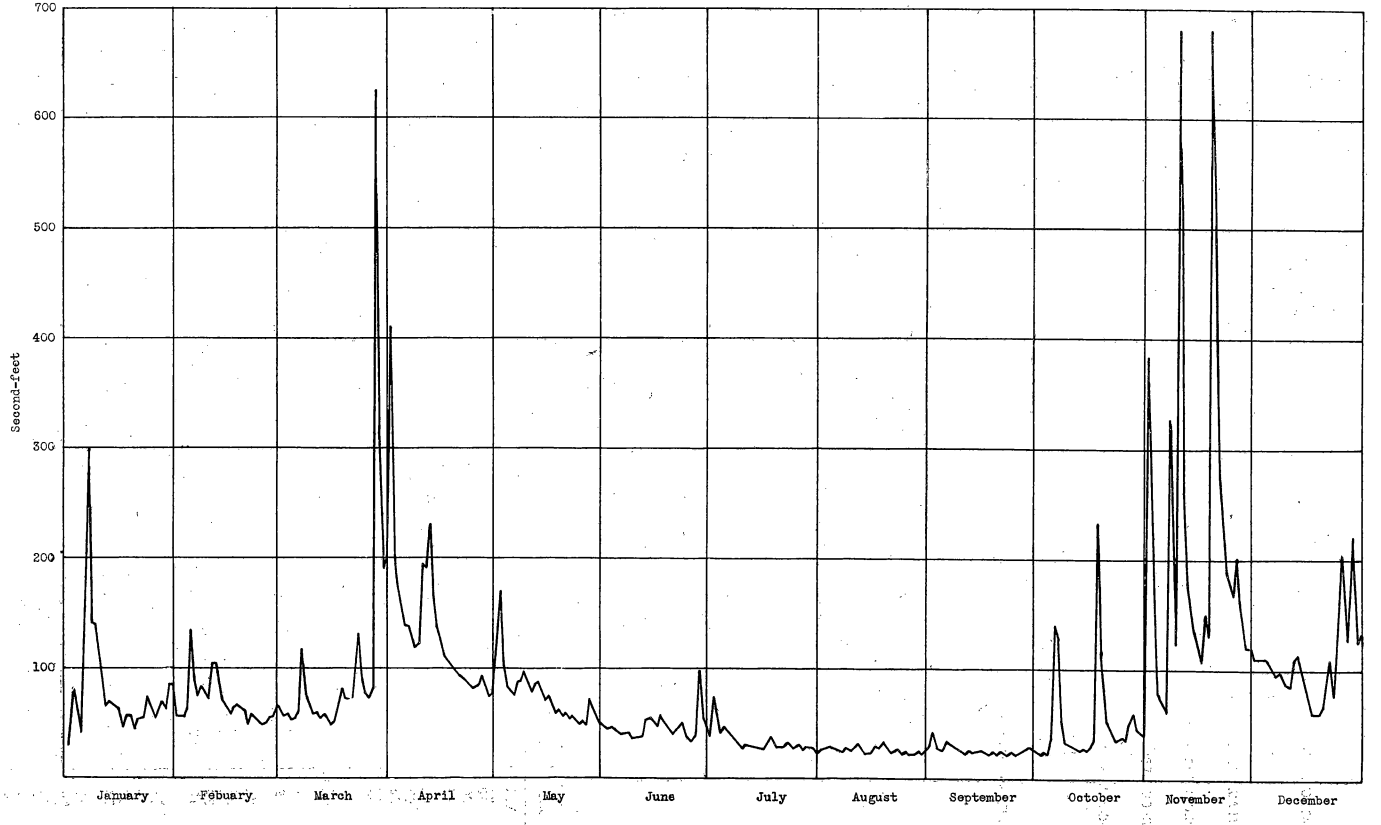
Rahway River at Rahway
(Continued)

Monthly and annual discharge in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	29	3	6.19	24.4	0.595	0.69
November	218	3	34.7	52.0	1.27	1.42
December	172	6	18.6	36.6	.893	1.03
Calendar year, 1930	433	3	27.4	46.0	1.12	15.24
January, 1931	172	9	23.8	41.2	1.00	1.15
February	242	10	39.7	56.7	1.38	1.44
March	355	22	67.3	84.1	2.05	2.36
April	194	19	49.4	68.2	1.66	1.85
May	133	11	43.2	61.6	1.50	1.73
June	194	13	53.3	72.9	1.78	1.99
July	142	11	28.5	47.5	1.16	1.34
August	105	9	19.6	37.6	.917	1.06
September	70	6	10.9	28.8	.702	.78
Year ending Sept. 30,1931	355	3	32.8	50.9	1.24	16.84
October	60	3	8.58	26.5	.646	.74
November	19	3	7.90	26.7	.651	.73
December	48	4	10.6	29.3	.715	.82
Calendar year, 1931	355	3	30.1	48.3	1.18	15.99
January, 1932	282	8	40.8	58.3	1.42	1.64
February	183	14	29.9	47.0	1.15	1.24
March	466	15	66.9	84.1	2.05	2.36
April	355	18	60.1	76.5	1.86	2.08
May	65	9	20.9	37.9	.924	1.07
June	68	6	13.5	32.4	.790	.88
July	13	3	5.3	24.5	.598	.69
August	12	4	6.3	24.6	.600	.69
September	15	3	4.7	22.6	.551	.61
Year ending Sept. 30,1932	466	3	22.9	40.8	.995	13.55
October	242	3	21.5	37.6	.917	1.06
November	1 060	11	169	184	4.49	5.01
December	142	16	32.4	47.7	1.16	1.34
Calendar year, 1932	1 060	3	39.0	56.2	1.37	18.67
January, 1933	99	17	29.3	44.3	1.08	1.24
February	325	15	52.5	68.7	1.68	1.75
March	534	23	97.7	113	2.76	3.18
April	433	29	104	119	2.90	3.24
May	162	22	44.6	60.7	1.48	1.71
June	183	13	38.2	55.7	1.36	1.52
July	152	8	26.5	43.8	1.07	1.23
August	466	7	48.9	64.8	1.58	1.82
September	1 310	13	126	142	3.46	3.86
Year ending Sept. 30,1933	1 310	3	65.5	81.4	1.99	26.96
October	51	16	23.1	38.4	.937	1.08
November	32	7	17.1	31.5	.768	.86
December	88	8	21.5	35.1	.856	.99
Calendar year, 1933	1 310	3	52.2	67.9	1.66	22.48
January, 1934	310	20	62.5	77.0	1.88	2.17
February	40	13	18.9	36.1	.880	.92
March	548	25	82.3	98.5	2.40	2.77
April	534	30	91.7	107	2.61	2.91
May	305	25	63.7	79.3	1.93	2.22
June	267	10	34.3	51.9	1.27	1.42
July	133	6	16.2	34.5	.841	.97
August	48	6	12.2	28.0	.683	.79
September	415	8.6	65.3	80.4	1.96	2.19
Year ending Sept. 30,1934	548	6	42.5	58.2	1.42	19.29



Gaging station on Rahway River at Rahway



Discharge of South Branch of Raritan River near High Bridge for 1932

South Branch of Raritan River near High Bridge

LOCATION.- Water-stage recorder 1 mile above High Bridge, Hunterdon County, and 4 miles above mouth of Spruce Run. Zero of gage 282.10 feet above mean sea level.

DRAINAGE AREA.- 65 square miles.

RECORDS AVAILABLE.- Febuary 1919 to September 1934.

AVERAGE DISCHARGE.- 14 years (1920-34), 112 second-feet.

EXTREMES.- 1919-34: Maximum discharge, about 3 600 second-feet Feb. 2, 1922 (gage height, 10.97 feet); minimum daily discharge, 22 second-feet in August, October, 1930, August, September, and October 1932.

REMARKS.- Taylor-Wharton Iron & Steel Co. furnished part of equipment and operates recorder.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	101	66	222	86	‡ 75	214	110	214	92	66	38	32
2	95	65	110	203	‡ 70	226	110	202	88	65	35	30
3	92	66	85	97	‡ 70	239	98	226	82	60	37	28
4	90	90	76	80	‡ 70	239	96	191	82	57	38	33
5	88	118	75	85	‡ 70	475	118	180	80	54	38	38
6	94	80	78	720	252	452	247	214	88	54	40	49
7	83	72	67	244	785	266	148	316	80	47	38	78
8	85	70	68	149	258	164	118	191	89	53	38	122
9	78	76	62	180	158	169	110	169	94	48	38	113
10	79	68	67	266	137	135	118	158	78	47	37	52
11	76	66	66	223	101	137	128	148	72	51	40	48
12	75	65	64	148	94	137	364	148	71	48	34	38
13	71	68	62	118	89	148	254	228	67	47	31	43
14	71	67	61	98	98	252	180	191	65	44	39	59
15	72	64	59	‡ 95	79	226	158	202	72	42	48	58
16	71	64	59	‡ 95	78	214	286	158	71	43	40	48
17	72	66	64	‡ 90	73	180	340	137	65	41	40	70
18	75	60	130	‡ 90	79	148	214	128	65	41	35	110
19	86	72	95	‡ 95	80	137	180	169	64	68	40	54
20	76	82	78	95	72	137	169	191	87	54	46	49
21	68	72	66	95	‡ 70	128	191	191	94	45	35	39
22	72	70	‡ 60	95	‡ 100	137	280	169	75	44	33	39
23	72	72	‡ 60	96	‡ 95	158	202	137	79	45	38	40
24	82	65	‡ 60	90	‡ 80	148	169	128	82	43	36	39
25	76	64	‡ 55	92	‡ 90	128	208	148	137	43	30	38
26	72	60	‡ 55	98	382	128	652	128	153	42	30	38
27	68	61	58	104	667	118	295	110	82	40	34	36
28	66	58	64	101	410	110	252	110	78	38	42	35
29	70	59	67	87		100	353	101	88	38	31	38
30	66	78	54	‡ 85		101	226	101	68	40	38	34
31	65		61	‡ 80		110		98		35	26	

‡ Estimated, stage-discharge relation affected by ice.

South Branch of Raritan River near High Bridge
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	48	‡ 55	101	‡ 90	128	89	88	52	50	36	28
2	164	51	‡ 55	110	‡ 95	128	90	101	50	51	31	30
3	166	105	‡ 55	118	† 100	118	89	95	52	44	24	34
4	75	118	‡ 55	110	† 140	110	86	86	43	44	30	24
5	57	72	‡ 55	80	† 260	101	82	80	44	43	29	26
6	47	60	‡ 50	88	† 150	101	85	79	42	41	28	28
7	45	57	‡ 50	83	† 110	110	428	71	43	43	28	29
8	44	54	‡ 60	90	‡ 90	524	216	79	43	42	28	27
9	43	50	‡ 70	90	‡ 85	311	148	85	48	40	30	25
10	40	47	64	88	‡ 80	191	128	71	397	59	22	29
11	43	47	58	72	‡ 80	191	118	65	176	48	27	24
12	41	49	62	78	‡ 70	239	110	66	92	43	26	27
13	36	48	73	110	152	180	118	65	76	35	27	25
14	38	50	92	186	198	158	137	70	70	38	26	34
15	43	56	110	250	118	137	118	110	61	49	32	40
16	38	58	82	137	90	137	148	89	61	40	36	36
17	38	50	73	101	‡ 85	137	158	76	51	37	29	36
18	39	174	214	‡ 100	‡ 85	137	158	62	71	38	30	35
19	37	134	432	‡ 100	98	169	148	83	71	31	30	27
20	36	80	236	‡ 100	158	137	128	98	56	32	28	26
21	37	75	137	‡ 100	180	118	110	76	49	33	27	26
22	79	64	118	‡ 100	148	110	110	65	45	38	29	27
23	197	60	98	‡ 100	137	110	110	62	50	38	78	26
24	78	57	† 95	‡ 95	158	110	100	58	42	44	66	25
25	59	62	† 90	‡ 90	148	128	98	88	45	39	36	24
26	53	54	† 90	‡ 90	214	137	94	79	45	34	36	24
27	46	61	88	† 90	191	110	94	59	54	33	33	25
28	49	57	110	† 90	148	110	92	58	48	31	30	25
29	44	56	148	† 90		101	86	70	44	36	32	26
30	48	‡ 55	128	† 90		100	85	62	42	33	28	27
31	51		110	† 90		95		57		35	28	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	37	86	46	37	58	181	93	217	61	† 70	45
2	28	29	63	‡ 44	49	68	214	90	133	58	† 70	49
3	27	31	45	‡ 42	41	61	148	95	102	58	69	68
4	25	33	43	‡ 44	44	58	138	89	91	57	82	58
5	22	39	41	64	41	57	124	87	80	60	65	49
6	26	71	40	236	43	54	116	80	78	83	56	43
7	27	37	37	113	39	55	134	99	82	80	55	46
8	26	35	44	65	41	148	158	271	254	69	55	41
9	28	27	41	59	77	246	125	167	126	96	51	42
10	27	28	39	60	79	120	112	130	116	987	69	39
11	22	29	38	51	56	89	118	160	172	887	70	37
12	† 22	31	39	57	57	75	111	128	115	243	83	38
13	† 22	32	41	53	79	72	100	137	97	173	73	36
14	† 24	32	‡ 33	47	240	68	93	134	86	145	62	41
15	27	39	‡ 30	42	82	68	86	129	82	224	62	43
16	29	61	29	‡ 40	69	73	82	107	223	165	56	43
17	30	104	41	‡ 38	88	70	84	95	563	135	57	41
18	30	423	42	‡ 40	430	67	78	86	178	123	49	38
19	27	98	41	98	138	66	76	82	139	122	51	35
20	29	66	40	98	91	70	76	81	121	113	53	35
21	29	53	34	62	75	79	74	192	113	107	49	37
22	29	48	40	48	66	78	73	159	101	102	45	38
23	26	39	37	‡ 42	75	76	145	278	104	102	40	38
24	28	43	35	‡ 40	65	67	115	149	110	93	49	36
25	28	47	29	44	66	92	88	125	96	82	44	35
26	25	45	43	56	65	96	190	117	88	77	43	38
27	26	36	175	62	61	76	224	104	87	74	52	36
28	30	‡ 32	130	† 65	56	77	122	94	77	† 70	77	37
29	29	‡ 30	78	† 65		570	108	92	72	† 70	54	35
30	29	‡ 32	61	† 60		220	99	81	64	† 70	54	34
31	38		50	50		158		122		† 70	51	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

South Branch of Raritan River near High Bridge

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	32	43	31	56	65	410	130	46	37	26	30
2	34	34	39	55	56	56	204	170	45	75	27	43
3	33	34	35	82	55	58	176	103	46	51	28	28
4	28	32	43	69	63	53	155	84	44	41	30	25
5	32	31	73	† 42	134	53	140	80	42	47	28	26
6	34	32	43	† 90	90	60	139	73	41	43	27	34
7	30	30	41	† 300	75	119	128	87	41	39	24	32
8	37	30	38	† 140	84	75	119	88	40	34	28	29
9	37	30	42	† 140	80	63	122	97	37	30	27	27
10	37	31	57	† 110	72	57	195	87	38	27	26	26
11	32	34	57	† 80	105	57	190	79	37	31	29	23
12	32	30	51	67	105	55	231	85	38	29	31	25
13	32	32	45	70	87	56	164	87	53	29	26	24
14	32	30	57	66	70	55	136	81	54	28	22	25
15	34	30	48	64	67	48	126	71	50	29	22	25
16	40	33	39	59	57	51	111	74	47	26	23	25
17	32	32	39	51	64	62	108	67	57	32	30	24
18	38	33	36	57	67	81	106	59	51	37	28	23
19	33	35	33	56	63	72	100	62	46	30	32	24
20	33	33	35	44	62	74	95	58	43	29	30	23
21	33	35	37	53	48	70	91	59	40	29	24	25
22	30	31	38	53	59	109	89	55	47	30	25	23
23	32	33	51	55	55	132	88	56	50	32	27	23
24	32	32	49	73	54	88	81	52	39	28	22	24
25	29	32	40	64	49	75	84	49	35	29	24	22
26	32	29	41	53	50	74	85	51	34	30	23	23
27	32	32	38	63	55	82	94	49	38	26	23	25
28	31	33	36	70	56	626	82	72	99	28	23	27
29	37	30	36	62	67	298	73	61	56	28	24	28
30	39	38	33	86		190	76	54	42	27	23	26
31	36		32	86		197		49		23	26	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	383	† 110	120	85	125	228	128	115	59	41	76
2	22	265	† 110	96	98	124	285	123	82	68	39	72
3	25	108	† 110	93	97	121	215	147	76	87	37	74
4	23	76	110	96	84	118	253	166	74	76	47	† 400
5	35	68	108	104	‡ 70	110	227	132	77	58	44	† 200
6	140	60	99	96	‡ 60	104	188	151	126	51	37	100
7	128	327	95	92	‡ 75	113	272	215	86	47	32	82
8	51	183	97	90	‡ 280	384	207	157	78	44	34	76
9	33	122	91	97	150	185	180	141	68	44	32	71
10	33	682	85	117	95	136	171	207	63	41	34	68
11	31	258	84	112	‡ 75	109	161	154	63	40	84	63
12	28	179	110	155	‡ 65	115	450	139	59	40	52	62
13	27	151	115	110	‡ 65	134	393	139	60	39	40	60
14	28	133	95	90	‡ 70	289	251	137	58	38	59	135
15	27	117	88	93	‡ 130	259	223	135	53	38	56	930
16	28	107	69	90	‡ 110	185	210	140	52	48	38	560
17	34	151	‡ 60	91	‡ 100	158	517	173	52	55	35	321
18	232	129	‡ 60	95	‡ 110	151	500	121	51	46	37	215
19	113	682	‡ 60	110	124	188	302	108	50	41	42	178
20	68	616	‡ 65	113	382	300	257	104	49	39	64	159
21	51	271	‡ 85	95	319	533	235	160	48	38	48	148
22	44	218	‡ 110	118	188	371	223	111	47	37	210	139
23	35	187	‡ 75	140	178	263	202	96	44	36	345	127
24	36	178	‡ 130	108	181	231	192	95	44	35	980	143
25	37	166	204	97	164	212	181	98	45	35	299	125
26	35	202	173	115	169	233	176	91	45	35	157	113
27	50	153	127	118	136	227	160	82	47	36	121	110
28	60	129	220	109	117	232	152	84	47	36	98	102
29	44	120	154	100		196	143	84	44	36	89	108
30	41	† 120	126	91		172	132	153	49	38	84	104
31	37		131	87		163		119		35	79	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

South Branch of Raritan River near High Bridge
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	65	51	‡ 56	‡ 66	† 48	443	110	77	55	42	33
2	150	63	48	‡ 139	‡ 74	† 52	212	108	71	52	41	34
3	104	63	50	87	‡ 63	† 150	175	214	68	51	47	31
4	91	62	56	74	‡ 56	† 500	237	247	63	66	50	40
5	89	60	62	120	‡ 52	†1 100	196	154	62	56	40	45
6	86	65	58	193	‡ 50	345	168	129	59	50	38	37
7	82	71	62	296	‡ 49	180	221	119	55	50	37	43
8	79	69	56	342	‡ 48	141	188	110	52	98	36	249
9	77	63	53	190	† 48	123	154	104	51	68	35	260
10	74	62	42	150	† 48	113	143	106	60	53	38	95
11	72	59	‡ 40	133	† 48	106	150	171	86	50	44	68
12	71	59	‡ 38	121	† 50	102	361	115	68	47	52	56
13	71	60	‡ 38	125	‡ 58	106	190	100	132	47	144	52
14	69	62	‡ 37	163	‡ 50	127	178	95	76	47	65	53
15	68	59	‡ 38	123	‡ 62	119	178	137	60	77	48	88
16	66	55	‡ 52	111	‡ 50	115	219	157	55	63	58	111
17	148	56	95	100	‡ 52	115	300	110	48	48	72	452
18	163	55	121	‡ 76	‡ 56	125	180	96	46	42	53	158
19	95	55	86	‡ 84	‡ 51	115	163	89	† 425	41	44	102
20	82	56	82	‡ 74	† 50	98	204	86	† 272	41	39	86
21	76	56	154	‡ 76	† 52	91	173	96	† 161	40	38	76
22	71	56	111	79	† 69	89	150	89	† 100	39	36	72
23	71	56	86	166	† 64	76	143	104	† 129	39	37	72
24	79	55	79	139	† 54	74	143	86	† 100	40	38	71
25	104	52	69	106	† 50	76	207	125	74	48	39	65
26	82	52	‡ 66	100	† 47	77	148	220	69	50	38	62
27	74	55	‡ 56	89	† 47	95	135	127	66	44	36	59
28	72	55	‡ 52	95	† 47	411	129	104	93	44	37	58
29	69	51	‡ 52	‡ 74		178	119	98	71	59	37	198
30	68	51	‡ 52	‡ 53		135	113	96	60	50	36	1 220
31	65		‡ 52	‡ 59		213		89		46	33	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	101	65	77.6	1.19	1.37
November	118	58	70.1	1.08	1.20
December	222	54	74.5	1.15	1.33
Calendar year, 1928	847	54	159	2.45	33.22
January, 1929	720	80	138	2.12	2.44
February	785	70	167	2.57	2.68
March	475	100	183	2.82	3.25
April	652	96	212	3.26	3.64
May	316	98	167	2.57	2.96
June	153	64	82.9	1.28	1.43
July	68	35	47.8	.735	.85
August	48	26	36.9	.568	.65
September	122	28	50.9	.783	.87
Year ending Sept. 30, 1929	785	26	109	1.68	22.67
October	197	36	59.6	.917	1.06
November	174	47	67.0	1.03	1.15
December	432	50	104	1.60	1.84
Calendar year, 1929	785	26	109	1.68	22.82
January, 1930	250	72	104	1.60	1.84
February	260	70	131	2.02	2.10
March	524	95	151	2.32	2.68
April	428	82	125	1.92	2.14
May	110	57	75.9	1.17	1.35
June	397	42	68.8	1.06	1.18
July	59	31	40.1	.617	.71
August	78	22	32.3	.497	.57
September	40	24	28.2	.434	.48
Year ending Sept. 30, 1930	524	22	81.9	1.26	17.10

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

South Branch of Raritan River near High Bridge
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	38	22	27.3	0.420	0.48
November	423	27	56.2	.865	.97
December	175	29	50.5	.772	.89
Calendar year, 1930	524	22	73.7	1.13	15.39
January, 1931	236	38	62.3	.958	1.10
February	430	37	83.9	1.28	1.33
March	570	54	104	1.60	1.84
April	224	73	120	1.85	2.06
May	278	80	124	1.91	2.20
June	563	64	132	2.03	2.26
July	987	57	157	2.42	2.79
August	83	40	58.6	.902	1.04
September	68	34	41.0	.631	.70
Year ending Sept. 30, 1931	987	22	84.7	1.30	17.66
October	40	28	33.5	.515	.59
November	38	29	32.1	.494	.55
December	73	32	42.7	.657	.76
Calendar year, 1931	987	28	82.6	1.27	17.22
January, 1932	300	31	77.1	1.19	1.37
February	134	48	69.1	1.06	1.14
March	626	48	104	1.60	1.84
April	410	73	133	2.05	2.29
May	170	49	75.1	1.16	1.34
June	99	34	45.9	.706	.79
July	75	23	33.4	.514	.59
August	32	22	26.1	.402	.46
September	43	22	26.2	.403	.45
Year ending Sept. 30, 1932	626	22	58.1	.894	12.17
October	232	22	51.7	.795	.92
November	682	60	218	3.35	3.74
December	220	60	108	1.66	1.91
Calendar year, 1932	682	22	80.4	1.24	16.84
January, 1933	155	87	104	1.60	1.84
February	382	60	135	2.08	2.17
March	533	104	201	3.09	3.56
April	517	132	243	3.74	4.17
May	215	82	132	2.03	2.34
June	126	44	61.7	.949	1.06
July	87	35	45.0	.692	.80
August	980	32	109	1.68	1.94
September	930	60	171	2.63	2.93
Year ending Sept. 30, 1933	980	22	131	2.02	27.38
October	163	65	86.3	1.33	1.53
November	71	51	58.6	.902	1.01
December	154	37	64.3	.989	1.14
Calendar year, 1933	980	32	117	1.80	24.49
January, 1934	342	53	122	1.88	2.17
February	74	47	54.0	.831	.87
March	1 100	48	174	2.68	3.09
April	443	113	191	2.94	3.28
May	247	86	122	1.88	2.17
June	425	46	93.6	1.44	1.61
July	98	39	51.6	.794	.92
August	144	33	46.1	.709	.82
September	1 220	31	135	2.08	2.32
Year ending Sept. 30, 1934	1 220	31	100	1.54	20.93

South Branch of Raritan River at Stanton

LOCATION.- Water-stage recorder at highway bridge near Stanton railroad station, Reading Township, Hunterdon County, and half a mile above Prescott Brook.

DRAINAGE AREA.- 147 square miles.

RECORDS AVAILABLE.- July 1903 to December 1906, July 1919 to September 1934.

AVERAGE DISCHARGE.- 14 years (1920-34), 228 second-feet.

EXTREMES.- 1903-6, 1919-34: Maximum discharge, 6 480 second-feet Oct. 9, 1903 and Aug. 23, 1933 (gage height, 10.5 feet); minimum daily discharge, 25 second-feet Sept. 26, 1932.

REMARKS.- Slight diurnal fluctuation owing to small water-powers upstream.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	158	104	404	† 240	‡ 110	† 500	208	423	167	137	62	44
2	142	104	181	† 360	‡ 110	† 550	202	404	153	132	50	51
3	142	97	132	172	‡ 100	† 550	184	443	150	115	51	50
4	137	153	117	161	‡ 100	† 550	187	364	147	108	68	45
5	132	202	120	144	‡ 100	† 1 200	247	364	147	101	66	53
6	137	137	124	1 410	‡ 100	1 140	503	404	158	101	62	99
7	130	115	106	463	2 470	620	307	670	144	101	46	271
8	127	110	104	264	548	404	244	384	164	93	49	595
9	124	113	101	289	271	384	211	345	169	91	53	1 140
10	115	104	108	† 460	244	307	240	307	140	89	54	221
11	115	104	117	† 380	187	307	251	289	130	87	55	144
12	115	99	95	† 260	184	289	795	289	124	87	66	115
13	104	142	99	† 190	169	289	595	384	117	74	47	97
14	108	120	95	† 170	‡ 160	483	404	345	113	77	76	150
15	110	97	93	† 160	147	483	345	364	132	79	137	158
16	108	95	95	† 160	134	423	645	307	137	77	68	124
17	110	91	95	‡ 160	132	384	745	254	113	74	58	190
18	115	69	199	‡ 160	132	307	483	231	108	69	51	307
19	155	76	169	‡ 160	130	289	404	404	106	127	85	137
20	115	142	122	‡ 160	124	289	364	404	175	104	65	120
21	108	120	110	161	115	264	384	364	244	77	59	95
22	110	113	99	158	161	264	548	364	153	81	49	97
23	104	115	‡ 95	164	164	289	423	271	137	87	54	101
24	122	106	‡ 95	153	147	289	345	251	181	77	54	91
25	117	101	‡ 95	150	164	254	384	271	526	74	51	91
26	110	95	‡ 100	164	1 830	244	1 620	231	503	66	40	81
27	104	93	‡ 100	158	1 690	227	620	211	184	63	54	71
28	108	91	‡ 110	164	960	215	548	202	184	68	113	76
29	113	93	‡ 110	130		199	595	193	244	65	50	73
30	106	110	‡ 100	‡ 120		193	463	190	150	51	54	83
31	99		‡ 120	‡ 120		211		181		62	53	78

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

South Branch of Raritan River at Stanton
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	83	142	‡ 140	251	‡ 200	326	181	169	99	169	44	44
2	745	110	‡ 140	247	199	326	181	196	93	115	48	53
3	503	548	‡ 140	289	205	307	181	187	91	89	43	60
4	237	423	‡ 150	264	218	271	167	167	89	63	53	43
5	167	261	‡ 140	202	548	254	161	153	89	69	39	44
6	144	227	‡ 140	211	307	247	167	150	87	71	45	44
7	153	190	‡ 140	196	224	251	982	142	83	79	38	41
8	124	184	‡ 160	202	205	1 950	483	144	68	69	43	56
9	113	172	‡ 190	208	199	888	364	144	79	58	42	29
10	106	132	150	196	190	572	307	130	572	130	38	46
11	110	144	127	167	187	526	264	115	345	87	38	36
12	93	153	161	181	172	595	254	132	161	62	42	41
13	104	147	172	234	364	443	261	127	132	62	36	44
14	95	147	215	423	463	384	289	115	117	68	41	51
15	101	161	234	526	271	345	247	271	113	65	59	54
16	89	153	184	326	211	326	307	178	99	63	59	54
17	91	134	175	254	‡ 190	326	345	144	91	59	49	59
18	101	526	595	307	‡ 190	307	345	127	117	47	51	54
19	85	384	1 020	326	‡ 200	384	271	161	124	49	39	44
20	79	257	595	289	‡ 260	307	237	181	93	51	48	42
21	95	224	364	271	364	271	251	147	87	56	41	42
22	289	199	326	244	326	247	237	137	83	104	43	50
23	526	178	289	244	307	234	227	108	95	106	172	42
24	205	175	‡ 260	227	345	237	211	104	89	268	130	39
25	153	187	‡ 240	237	326	264	208	167	76	167	68	42
26	142	164	247	234	526	289	199	158	74	66	54	41
27	113	172	218	218	483	240	193	117	93	60	47	42
28	122	164	271	215	364	224	187	122	74	68	47	39
29	117	158	345	‡ 200		211	181	127	65	59	50	48
30	124	‡ 150	307	‡ 200		205	169	120	66	59	45	34
31	142		257	196		193		108		55	40	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	51	‡ 130	‡ 110	‡ 95	124	427	147	430	102	87	77
2	66	42	‡ 100	‡ 100	‡ 90	142	506	145	254	91	85	72
3	32	43	‡ 65	‡ 95	‡ 90	124	339	154	181	101	102	164
4	29	41	‡ 55	93	‡ 85	120	302	169	155	102	135	100
5	29	82	‡ 60	137	‡ 85	115	271	144	142	101	95	79
6	34	148	73	615	‡ 85	106	251	104	129	159	90	71
7	71	93	78	270	‡ 85	104	271	141	135	140	73	63
8	43	51	76	170	‡ 110	379	308	458	485	119	74	68
9	40	50	75	‡ 130	167	516	248	308	226	111	79	62
10	43	48	70	‡ 110	230	266	220	224	212	1 290	111	59
11	43	54	68	‡ 100	185	204	207	305	341	1 510	144	67
12	37	68	68	‡ 95	188	182	205	248	213	392	128	58
13	36	46	71	‡ 90	263	161	188	263	173	265	112	49
14	39	51	‡ 55	‡ 90	548	153	176	244	151	224	109	55
15	65	87	‡ 50	‡ 90	191	148	159	229	166	298	79	70
16	68	102	‡ 50	‡ 110	164	150	160	192	457	233	95	69
17	49	191	‡ 110	‡ 130	161	145	142	171	1 060	191	81	62
18	56	1 080	‡ 110	129	930	137	143	155	352	175	81	49
19	51	246	‡ 80	306	284	134	136	142	258	173	80	51
20	45	148	‡ 65	223	233	144	135	140	220	174	69	51
21	51	108	‡ 55	‡ 130	139	159	138	359	195	166	76	58
22	48	97	‡ 55	‡ 110	104	146	131	332	186	143	69	46
23	46	89	‡ 55	† 100	139	143	220	435	172	134	67	43
24	46	93	‡ 65	† 95	134	126	210	301	187	130	69	54
25	46	97	‡ 70	† 100	134	154	144	234	170	120	77	43
26	44	89	‡ 110	110	134	178	290	212	152	108	69	40
27	46	62	‡ 600	145	129	143	324	182	134	115	68	55
28	49	‡ 46	350	132	117	137	217	156	128	95	140	49
29	51	‡ 44	194	117		1 030	174	148	130	97	96	58
30	38	‡ 50	145	102		498	168	135	106	106	85	45
31	56		‡ 120	‡ 95		348		256		95	79	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

South Branch of Raritan River at Stanton
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	52	73	50	116	124	888	255	76	58	32	90
2	39	58	64	104	149	104	490	366	76	137	35	95
3	44	55	42	173	107	102	414	204	76	84	39	51
4	42	51	60	123	136	100	350	164	75	70	44	43
5	51	58	122	94	367	99	321	150	71	80	42	41
6	48	51	80	198	209	140	302	142	68	76	36	58
7	51	29	73	698	164	316	274	167	66	73	35	51
8	60	46	70	306	171	‡ 180	260	170	62	62	38	44
9	100	44	75	309	166	‡ 140	263	194	62	53	39	38
10	68	47	85	254	148	‡ 120	414	161	60	46	35	36
11	43	58	106	194	230	‡ 110	440	142	59	46	42	33
12	59	50	66	159	222	‡ 110	480	170	60	44	44	32
13	56	43	71	147	179	‡ 110	362	188	89	47	38	32
14	36	39	87	139	148	‡ 110	299	148	85	42	32	33
15	59	47	73	127	135	‡ 100	263	132	76	42	27	32
16	52	43	70	115	127	‡ 90	243	127	73	43	29	33
17	70	55	60	103	130	142	230	124	87	46	33	32
18	59	44	62	105	149	170	226	104	78	78	42	30
19	59	55	52	98	128	133	210	102	70	44	62	28
20	47	47	44	93	120	140	194	102	68	44	43	29
21	60	42	55	86	107	134	191	97	65	44	38	30
22	59	31	64	96	115	296	176	93	66	80	31	31
23	44	51	76	106	112	324	167	89	71	65	35	30
24	29	48	80	131	106	218	161	85	62	50	33	30
25	46	51	64	119	99	180	161	84	55	44	29	30
26	47	32	60	98	100	170	176	82	55	47	29	25
27	48	37	55	124	106	187	179	80	82	42	29	30
28	53	53	50	133	122	1 570	156	117	150	44	33	49
29	52	32	50	106	133	782	153	102	97	38	26	47
30	60	64	50	154		498	127	87	59	38	32	41
31	55		48	160		496		82		37	49	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	849	207	‡ 200	153	256	509	253	194	148	58	173
2	35	615	197	‡ 180	173	246	618	246	156	108	56	158
3	32	236	188	‡ 170	170	246	472	288	142	236	58	176
4	31	164	185	188	153	230	582	318	164	142	110	670
5	82	137	179	201	‡ 130	213	503	246	161	104	65	388
6	269	122	158	179	‡ 140	194	423	298	299	82	56	230
7	302	1 130	153	170	‡ 180	217	665	432	176	76	48	185
8	97	542	153	167	581	720	490	329	188	68	44	164
9	58	333	139	204	306	370	427	325	132	64	50	153
10	52	2 390	132	246	‡ 180	266	405	569	127	73	44	139
11	67	720	127	207	‡ 140	233	370	370	129	62	243	127
12	36	480	179	274	‡ 130	223	1 350	310	122	65	100	127
13	31	366	197	201	‡ 140	266	970	310	156	59	68	115
14	42	306	164	164	‡ 170	625	640	299	124	62	150	325
15	41	263	148	164	‡ 240	530	553	284	102	56	102	2 390
16	42	230	‡ 120	158	‡ 200	401	512	277	106	137	73	1 300
17	64	337	‡ 120	156	‡ 200	341	1 240	379	112	156	55	745
18	559	256	‡ 110	158	‡ 220	318	1 050	274	104	87	65	544
19	240	1 760	‡ 110	† 170	260	459	690	213	93	76	80	436
20	127	1 340	‡ 130	† 190	960	909	586	220	97	58	153	374
21	108	600	‡ 150	† 160	720	1 320	526	345	87	65	108	337
22	80	476	‡ 190	† 220	449	900	485	243	89	62	872	314
23	48	383	‡ 130	274	405	650	436	188	76	55	1 760	277
24	60	350	‡ 190	204	388	562	414	191	75	59	3 250	310
25	62	321	‡ 460	176	354	503	383	188	73	56	990	266
26	59	383	333	204	366	526	366	179	84	64	521	236
27	118	284	260	220	284	530	329	164	80	59	366	230
28	104	240	539	201	256	503	310	176	84	56	295	201
29	82	217	345	185		423	284	167	76	56	243	240
30	70	210	277	164		370	270	345	76	51	207	179
31	62		291	156		341		266		56	185	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

South Branch of Raritan River at Stanton
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	264	122	91	‡ 120	‡ 135	† 88	1 020	207	118	103	66	54
2	542	118	85	320	‡ 150	‡ 100	485	201	122	118	67	36
3	264	129	85	180	‡ 130	‡ 400	389	489	105	87	82	48
4	226	89	99	150	113	‡1 400	449	537	118	103	77	64
5	166	111	105	‡ 240	‡ 104	2 980	402	346	103	103	62	73
6	219	161	101	‡ 380	‡ 98	723	339	281	101	93	62	56
7	151	136	103	‡ 740	‡ 94	362	436	248	99	89	58	91
8	166	134	99	926	‡ 92	281	377	226	95	172	56	622
9	166	120	93	499	† 90	‡‡ 220	306	216	93	129	56	527
10	186	129	‡ 74	385	† 90	‡ 200	284	219	101	99	60	180
11	111	87	‡ 68	331	† 92	‡‡ 192	295	281	189	85	72	103
12	153	107	‡ 66	284	† 96	‡‡ 189	612	226	134	85	116	89
13	172	127	‡ 66	298	† 120	204	369	198	216	87	339	82
14	109	114	‡ 66	393	† 100	258	328	229	148	84	129	87
15	136	114	‡ 67	284	† 130	213	331	201	107	106	70	192
16	166	‡ 112	‡ 80	241	† 100	226	453	281	93	160	85	207
17	288	‡ 108	‡ 145	232	† 100	189	581	219	84	97	111	926
18	339	80	‡ 250	‡‡ 160	† 110	226	369	169	84	87	87	342
19	216	103	‡ 175	‡‡ 170	† 102	229	331	156	1 030	84	75	201
20	151	120	‡ 170	‡‡ 160	‡ 96	195	398	139	549	84	64	151
21	156	105	313	166	† 102	172	339	161	219	82	60	139
22	122	101	229	172	† 140	172	288	175	172	84	54	131
23	139	97	156	306	† 130	143	274	204	207	82	48	125
24	156	93	143	316	† 100	‡ 130	274	143	166	78	66	127
25	210	80	136	207	† 86	129	406	244	141	40	47	109
26	183	95	‡‡ 120	198	† 84	143	292	366	146	59	52	111
27	134	97	‡‡ 100	175	† 84	180	264	229	101	77	56	107
28	127	95	‡‡ 92	186	† 85	1 050	248	183	148	78	56	107
29	129	91	‡‡ 90	‡‡ 120		427	226	158	136	95	62	201
30	129	91	‡‡ 90	‡‡ 100		316	216	141	103	89	56	3 020
31	136		‡‡ 94	‡‡ 118		449		156		73	45	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	158	99	119	0.810	0.93
November	202	69	110	.748	.83
December	404	93	123	.837	.96
Calendar year, 1928	2 070	69	293	1.99	27.15
January, 1929	1 410	120	244	1.66	1.91
February	2 470	100	389	2.65	2.76
March	1 200	193	400	2.72	3.14
April	1 620	184	453	3.08	3.44
May	670	181	326	2.22	2.56
June	526	106	177	1.20	1.34
July	137	51	86.9	.591	.68
August	137	40	61.2	.416	.48
September	1 140	44	166	1.13	1.26
Year ending Sept. 30, 1929	2 470	40	220	1.50	20.29
October	745	79	173	1.18	1.36
November	548	110	212	1.44	1.61
December	1 020	127	261	1.78	2.05
Calendar year, 1929	2 470	40	244	1.66	22.59
January, 1930	526	167	251	1.71	1.97
February	548	172	287	1.95	2.03
March	1 950	193	385	2.62	3.02
April	983	161	289	1.83	2.04
May	271	104	147	1.00	1.15
June	572	65	119	.803	.90
July	268	47	83.6	.569	.66
August	172	36	52.6	.358	.41
September	60	29	45.3	.308	.34
Year ending Sept. 30, 1930	1 950	29	190	1.29	17.54

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

South Branch of Raritan River at Stanton
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	91	29	48.0	0.327	0.38
November	1 080	41	117	.796	.89
December	600	50	107	.728	.84
Calendar year, 1930	1 950	29	158	1.07	14.63
January, 1931	615	90	143	.973	1.12
February	930	85	189	1.29	1.34
March	1 030	104	213	1.45	1.67
April	506	131	227	1.54	1.72
May	458	104	220	1.50	1.73
June	1 060	106	243	1.65	1.84
July	1 510	91	234	1.59	1.83
August	144	67	90.5	.616	.71
September	164	40	62.9	.428	.48
Year ending Sept. 30, 1931	1 510	29	158	1.07	14.55
October	100	29	53.0	.361	.42
November	64	29	47.1	.320	.36
December	122	42	67.3	.458	.53
Calendar year, 1931	1 510	29	147	1.00	13.75
January, 1932	698	50	158	1.07	1.23
February	367	99	148	1.01	1.09
March	1 570	90	242	1.65	1.90
April	888	127	286	1.95	2.18
May	366	80	139	.946	1.09
June	150	55	72.6	.494	.55
July	137	37	56.3	.383	.44
August	62	26	36.5	.248	.29
September	95	25	40.1	.273	.30
Year ending Sept. 30, 1932	1 570	25	112	.762	10.38
October	559	31	99.8	.679	.78
November	2 390	137	535	3.64	4.06
December	539	110	202	1.37	1.58
Calendar year, 1932	2 390	25	167	1.14	15.49
January, 1933	274	156	191	1.30	1.50
February	960	130	287	1.95	2.03
March	1 320	213	448	3.05	3.52
April	1 350	270	562	3.82	4.26
May	569	164	280	1.90	2.19
June	299	73	123	.837	.93
July	236	51	82.5	.561	.65
August	3 250	44	338	2.30	2.65
September	2 390	115	384	2.61	2.91
Year ending Sept. 30, 1933	3 250	31	293	1.99	27.06
October	542	109	187	1.27	1.46
November	161	80	109	.741	.83
December	313	66	118	.803	.93
Calendar year, 1933	3 250	44	259	1.76	23.86
January, 1934	926	100	276	1.88	2.17
February	150	84	105	.714	.74
March	2 980	88	393	2.67	3.08
April	1 020	216	379	2.58	2.88
May	537	139	233	1.59	1.83
June	1 030	84	174	1.18	1.32
July	172	40	93.3	.635	.73
August	339	45	77.3	.526	.61
September	3 020	36	277	1.88	2.10
Year ending Sept. 30, 1934	3 020	36	202	1.37	18.68

Raritan River at Manville

LOCATION.- Water-stage recorder at highway bridge between Manville and Finderne, Somerset County, 1½ miles above mouth of Millstone River. Zero of gage is 20.57 feet above mean sea level.

DRAINAGE AREA.- 490 square miles.

RECORDS AVAILABLE.- June 1903 to March 1907, August 1921 to September 1934. Gage heights only August 1908 to April 1915.

AVERAGE DISCHARGE.- 13 years (1921-34), 716 second-feet.

EXTREMES.- 1903-07, 1921-34: Maximum discharge, about 25 000 second-feet Oct. 10, 1903 and Aug. 24, 1933; maximum gage height, 16.22 feet Aug. 24, 1933; minimum discharge about 15 second-feet Sept. 12, 1932.

REMARKS.- About 2 second-feet diverted above station not included in record.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	448	225	960	221	‡ 300	1 990	542	1 360	448	299	112	117
2	380	225	620	1 480	‡ 280	2 120	515	1 300	402	315	114	129
3	352	229	394	660	‡ 280	2 370	440	1 300	380	254	119	89
4	340	254	346	524	‡ 260	1 730	424	1 130	359	229	117	124
5	333	416	346	387	‡ 280	3 700	560	1 020	346	229	144	107
6	366	327	359	3 620	259	5 490	1 600	1 080	380	315	114	192
7	352	274	310	2 120	5 970	2 680	1 020	2 480	366	217	112	515
8	321	254	299	860	1 920	1 300	736	1 300	359	196	117	3 180
9	304	254	279	860	860	1 240	630	1 080	416	199	114	3 700
10	299	250	250	1 990	1 020	860	660	960	359	196	107	1 020
11	289	233	289	1 800	590	910	767	860	315	167	112	489
12	284	225	254	1 020	424	778	3 290	800	294	170	114	315
13	† 280	250	259	746	402	746	2 590	1 080	274	170	129	269
14	† 260	259	241	432	440	1 300	1 600	960	269	158	132	299
15	† 260	233	245	‡ 380	394	1 860	1 240	1 080	269	176	860	416
16	259	217	237	‡ 360	333	1 480	3 550	910	304	164	179	289
17	250	217	241	‡ 360	315	1 180	3 620	725	279	164	139	269
18	264	213	380	464	315	910	2 120	630	254	150	129	860
19	424	203	515	725	321	789	1 480	1 240	241	192	221	394
20	340	237	352	650	299	746	1 180	1 800	241	241	196	279
21	274	387	310	440	221	681	1 180	1 420	506	182	132	245
22	259	269	254	387	333	630	2 250	1 420	352	153	129	217
23	254	241	240	464	432	1 420	1 600	1 020	327	161	119	213
24	264	233	240	440	346	1 540	1 180	860	373	147	112	192
25	264	221	‡ 240	424	340	910	1 080	960	506	150	124	176
26	250	206	‡ 220	432	3 620	800	4 680	778	1 240	144	129	170
27	233	199	‡ 240	416	9 190	746	2 250	660	472	139	99	167
28	221	196	260	‡ 380	3 620	630	1 800	600	333	134	107	153
29	233	199	274	340		542	2 760	610	524	137	147	161
30	225	225	225	‡ 320		515	1 660	590	366	134	124	164
31	221		210	‡ 300		570		506		132	122	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Raritan River at Manville
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	167	304	‡ 300	910	533	1 080	489	† 400	210	237	86	71
2	1 860	279	‡ 320	767	489	1 080	481	† 400	182	580	76	80
3	2 650	1 690	327	1 020	416	860	456	† 400	179	206	76	91
4	910	2 150	‡ 300	1 020	630	725	448	† 340	176	237	68	95
5	551	1 080	‡ 300	692	2 600	630	424	† 340	170	170	68	87
6	424	778	299	650	1 350	610	416	315	167	192	64	84
7	373	610	321	620	671	580	1 870	304	167	173	62	76
8	315	506	366	610	640	7 730	1 530	299	158	155	48	71
9	259	432	570	660	506	4 350	960	304	161	134	59	82
10	233	387	402	640	498	910	789	289	1 540	294	56	87
11	221	366	333	506	431	1 730	703	259	1 240	229	50	71
12	221	333	‡ 320	515	416	1 990	640	250	448	167	42	73
13	213	333	352	692	1 440	1 420	640	241	310	134	50	69
14	210	346	703	1 400	2 100	1 180	714	241	284	129	50	185
15	196	387	860	2 380	960	1 020	660	515	259	137	50	139
16	213	387	620	1 360	614	960	703	432	221	127	78	112
17	189	352	489	910	‡ 600	910	1 020	321	199	117	105	109
18	173	2 340	2 280	1 580	‡ 600	910	960	259	225	112	64	117
19	179	1 920	5 090	1 810	650	1 080	1 020	264	289	105	73	101
20	176	1 080	2 450	1 080	789	910	767	352	229	99	56	93
21	173	860	1 360	960	1 020	800	714	315	189	84	62	82
22	237	671	1 080	778	1 020	703	692	259	179	254	80	124
23	1 730	551	960	671	1 020	650	610	245	164	481	206	74
24	600	498	860	515	1 240	640	542	210	161	373	346	82
25	394	498	800	‡ 460	1 420	692	498	245	161	714	142	82
26	327	440	681	‡ 460	2 410	860	472	310	173	179	103	82
27	299	424	746	‡ 440	2 250	692	464	259	203	129	86	86
28	264	424	630	448	1 360	620	† 440	229	192	112	122	82
29	237	380	1 080	524		580	† 400	254	158	99	69	74
30	237	289	1 080	610		570	† 400	250	155	99	76	74
31	284		860	610		533		233		95	73	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	82	210	‡ 280	‡ 160	380	1 420	366	1 660	241	196	161
2	89	71	‡ 200	‡ 260	‡ 150	489	2 190	333	800	221	189	158
3	101	50	‡ 160	‡ 240	‡ 160	416	1 240	340	551	217	189	714
4	82	68	‡ 150	241	‡ 150	387	1 020	333	448	221	294	333
5	68	68	158	245	‡ 160	394	860	340	402	229	237	221
6	50	122	153	2 620	‡ 150	346	746	289	352	254	199	192
7	53	161	153	960	155	327	789	284	346	394	185	173
8	62	137	153	456	155	1 900	960	800	1 990	315	179	156
9	73	95	147	472	233	2 460	767	1 020	910	250	170	142
10	78	68	137	416	1 480	1 180	630	620	910	1 790	192	132
11	66	71	134	340	1 130	860	600	910	1 860	6 070	506	122
12	76	73	134	279	498	714	551	714	1 020	1 360	600	132
13	68	109	137	‡ 240	910	590	498	681	714	778	359	137
14	73	73	137	‡ 220	1 990	515	440	703	580	640	279	124
15	59	170	127	‡ 220	736	472	402	660	481	910	250	144
16	99	233	‡ 110	‡ 220	580	440	373	551	3 200	580	284	134
17	82	542	‡ 110	‡ 220	481	424	340	472	4 720	440	245	150
18	89	2 630	119	241	3 650	380	340	402	1 540	394	206	155
19	56	960	129	1 060	1 240	359	321	359	960	394	192	147
20	58	498	134	960	910	416	315	346	756	373	237	122
21	62	373	127	‡ 260	725	456	299	736	620	481	192	132
22	59	264	117	‡ 200	489	402	304	1 130	498	681	188	137
23	53	217	134	‡ 180	506	366	432	1 990	448	359	185	127
24	52	192	‡ 130	‡ 180	481	333	515	1 240	472	409	182	122
25	52	189	‡ 120	‡ 180	432	340	387	860	409	340	176	109
26	53	185	‡ 130	192	416	432	448	714	346	269	170	114
27	47	176	2 410	221	394	366	1 180	590	333	237	164	132
28	56	101	1 880	237	359	333	590	481	294	229	229	122
29	54	‡ 110	800	221		4 290	456	424	264	203	250	129
30	59	137	542	196		2 190	402	387	254	221	206	109
31	66		359	‡ 180		1 240		380		217	182	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Raritan River at Manville
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	114	114	129	196	289	346	2 970	630	170	137	42	84
2	105	86	134	515	373	304	1 730	1 300	164	155	52	600
3	105	103	114	960	387	279	1 420	650	167	206	42	107
4	103	91	129	570	456	274	1 130	472	170	164	50	71
5	87	80	284	464	2 100	264	960	409	158	164	47	54
6	95	89	217	960	1 020	432	910	366	158	158	53	53
7	99	91	176	3 520	789	2 120	789	424	153	155	50	48
8	103	78	139	1 730	736	736	714	432	144	134	43	41
9	161	69	161	2 120	640	620	714	464	139	119	47	36
10	155	87	299	1 920	533	506	1 080	416	142	91	43	34
11	122	69	279	1 240	960	570	1 540	352	144	93	44	34
12	91	89	254	910	910	424	2 290	359	142	86	46	25
13	91	87	221	789	778	366	1 420	506	189	84	54	29
14	95	82	259	671	580	304	1 080	402	213	61	54	30
15	87	76	250	560	481	294	910	346	189	58	44	32
16	117	84	210	472	409	250	800	304	185	64	41	33
17	137	84	199	409	416	321	703	274	192	66	36	40
18	107	95	189	387	515	506	620	245	206	144	41	37
19	101	84	189	352	402	380	560	225	179	87	78	36
20	95	86	164	315	380	359	506	221	170	61	76	34
21	97	99	164	294	294	352	472	221	167	52	71	30
22	80	80	189	304	346	1 020	448	210	158	80	52	32
23	82	86	279	321	321	1 240	416	196	161	84	58	32
24	† 80	89	274	456	† 300	800	394	189	155	91	47	35
25	† 80	84	259	373	† 280	660	373	182	134	68	50	44
26	† 80	91	225	315	274	590	402	179	132	52	47	34
27	80	80	176	533	294	620	464	179	132	54	48	33
28	68	95	189	506	315	9 660	380	241	185	48	53	42
29	93	95	179	409	402	5 100	346	233	241	59	44	52
30	129	103	179	551		2 120	321	199	167	54	59	48
31	124		170	590		1 660		182		52	53	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	79	3 500	621	962	432	716	1 070	587	681	245	84	446
2	67	2 890	596	725	462	681	1 950	563	492	224	91	424
3	74	913	563	646	446	663	1 330	638	439	403	101	462
4	65	621	555	638	410	596	‡2 020	808	507	382	185	2 560
5	86	515	531	655	375	547	‡1 710	596	424	224	178	1 640
6	396	439	469	587	264	484	1 250	690	1 060	182	148	743
7	817	7 780	446	539	410	507	2 660	1 460	555	158	101	563
8	245	3 390	439	507	1 890	2 450	1 650	942	469	148	104	484
9	158	1 370	403	855	1 020	1 240	1 260	1 140	396	139	98	454
10	128	12 000	389	1 270	‡ 462	864	1 130	2 470	403	122	104	417
11	122	3 900	368	845	‡ 410	604	1 010	1 360	308	128	469	361
12	101	1 710	499	845	‡ 389	672	4 390	1 040	279	122	322	334
13	101	1 250	646	708	‡ 389	699	4 700	942	341	114	188	308
14	74	1 010	547	563	‡ 439	2 580	2 080	874	289	109	382	563
15	72	845	424	539	‡ 531	1 830	1 590	771	255	109	315	8 730
16	84	752	328	499	‡ 462	1 380	1 380	734	236	240	207	7 330
17	111	971	‡ 302	484	‡ 499	1 070	2 950	1 000	245	469	171	2 720
18	2 630	826	† 302	476	596	962	3 180	725	245	232	171	1 710
19	1 020	7 000	† 302	523	903	1 480	2 020	596	220	174	228	1 320
20	484	10 500	† 334	621	4 600	4 620	1 590	579	199	168	1 180	1 080
21	334	2 490	‡ 368	492	3 460	6 180	1 350	1 100	196	128	401	932
22	274	1 650	410	596	1 650	3 470	1 210	663	185	139	3 810	836
23	232	1 270	417	836	1 390	2 080	1 060	523	178	111	3 650	716
24	203	1 120	439	604	1 240	1 650	971	476	174	111	18 500	780
25	182	1 000	1 180	507	1 070	1 370	894	587	148	109	4 480	690
26	164	1 160	1 830	734	1 210	1 450	864	499	168	111	1 650	579
27	224	932	1 150	708	845	1 490	761	424	171	117	1 110	539
28	341	708	3 190	663	716	1 330	708	515	178	106	855	523
29	245	638	1 830	596		1 170	672	454	164	106	725	499
30	211	638	1 270	507		1 020	621	903	168	98	571	515
31	178		1 260	454		942		780		91	492	

†-Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Raritan River at Manville
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	450	293	228	474	† 340	‡ 200	4 920	548	332	237	136	101
2	1 570	282	215	1 160	† 370	‡ 235	2 140	523	325	224	128	78
3	652	277	206	830	† 320	‡ 400	1 510	1 450	277	215	556	85
4	515	288	237	540	† 285	5 340	1 470	2 450	261	232	184	117
5	474	246	255	1 340	† 265	14 000	1 420	1 570	277	224	† 143	157
6	442	318	255	3 390	† 245	3 870	1 130	1 130	250	202	† 130	128
7	427	374	266	4 690	† 235	1 530	1 480	870	241	180	† 119	169
8	397	318	255	4 640	† 230	1 050	1 410	678	210	266	† 114	† 2 300
9	382	304	250	2 140	† 225	800	1 060	599	219	304	† 110	† 1 830
10	360	282	† 180	1 470	† 225	678	933	556	237	206	† 114	608
11	346	282	† 170	1 180	† 230	574	870	652	412	166	† 123	318
12	299	255	† 160	955	† 240	565	2 370	599	374	157	142	219
13	325	266	† 160	947	† 310	705	1 360	482	608	157	1 130	188
14	353	288	† 160	1 450	† 250	988	1 150	499	404	176	360	176
15	288	266	† 170	966	† 330	810	1 150	582	277	202	184	616
16	293	219	† 230	800	† 280	705	1 490	752	232	318	166	762
17	556	246	339	678	† 250	724	2 350	565	202	224	272	† 2 860
18	1 030	272	556	466	† 250	762	1 420	474	191	160	219	1 370
19	507	237	† 460	616	† 280	800	1 150	404	1 930	145	173	705
20	404	250	† 750	548	† 245	660	1 300	374	1 900	145	139	499
21	360	255	1 450	507	† 240	599	1 140	397	705	145	133	420
22	360	246	880	474	† 360	556	933	435	482	145	119	374
23	332	246	652	825	† 340	450	830	669	790	139	125	374
24	346	237	548	944	† 260	427	790	420	507	131	117	652
25	574	232	499	625	† 220	442	1 190	523	397	154	151	367
26	420	215	374	531	† 205	412	880	1 300	311	148	133	339
27	367	246	‡ 280	515	‡ 200	482	762	696	288	119	122	332
28	332	224	‡ 240	507	‡ 200	4 000	752	490	360	122	111	318
29	318	228	‡ 220	412		2 170	652	450	339	191	114	325
30	299	224	‡ 220	‡ 280		1 370	582	420	277	139	125	†11 500
31	299		‡ 220	† 300		1 920		374		148	136	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	448	221	294	0.600	0.67
November	416	196	246	.502	.56
December	960	210	319	.651	.75
Calendar year, 1928	8 680	196	922	1.88	25.59
January, 1929	3 620	221	774	1.58	1.82
February	9 190	221	1 190	2.43	2.53
March	5 490	515	1 390	2.84	3.27
April	4 680	424	1 630	3.33	3.72
May	2 480	506	1 050	2.14	2.47
June	1 240	241	385	.786	.88
July	315	132	188	.384	.44
August	860	99	152	.310	.36
September	3 700	89	497	1.01	1.13
Year ending Sept. 30, 1929	9 190	89	672	1.37	18.60
October	2 650	167	468	.955	1.10
November	2 340	279	703	1.43	1.60
December	5 090	300	875	1.79	2.06
Calendar year, 1929	9 190	89	772	1.57	21.38
January, 1930	2 380	440	848	1.73	1.99
February	2 600	416	1 020	2.08	2.17
March	7 730	533	1 230	2.51	2.89
April	1 870	400	697	1.42	1.58
May	515	210	301	.614	.71
June	1 540	155	285	.582	.65
July	714	84	205	.418	.48
August	346	42	85.4	.174	.20
September	185	69	91.2	.186	.21
Year ending Sept. 30, 1930	7 730	42	565	1.15	15.64

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Raritan River at Manville
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	101	47	66.7	0.136	0.16
November	2 630	50	274	.559	.62
December	2 410	110	311	.635	.73
Calendar year, 1930	7 730	42	447	.912	12.39
January, 1931	2 620	180	401	.818	.94
February	3 650	150	674	1.38	1.44
March	4 290	327	781	1.59	1.83
April	2 190	299	660	1.35	1.51
May	1 990	284	628	1.28	1.48
June	4 720	254	938	1.91	2.13
July	6 070	203	636	1.30	1.50
August	600	164	236	.482	.56
September	333	109	166	.339	.38
Year ending Sept. 30, 1931	6 070	47	479	.978	13.28
October	161	68	102	.208	.24
November	114	69	87.5	.179	.20
December	299	114	203	.414	.48
Calendar year, 1931	6 070	68	457	.933	12.69
January, 1932	3 520	196	765	1.56	1.80
February	2 100	274	551	1.12	1.21
March	9 660	250	1 080	2.20	2.54
April	2 970	321	895	1.83	2.04
May	1 300	179	355	.724	.83
June	241	132	167	.341	.38
July	206	48	96.2	.196	.23
August	78	36	50.5	.103	.12
September	600	25	61.3	.125	.14
Year ending Sept. 30, 1932	9 660	25	367	.749	10.21
October	2 630	65	307	.627	.72
November	12 000	439	2 460	5.02	5.60
December	3 190	302	723	1.48	1.71
Calendar year, 1932	12 000	25	623	1.27	17.32
January, 1933	1 270	454	651	1.33	1.53
February	4 600	264	963	1.97	2.05
March	6 180	484	1 510	3.08	3.55
April	4 700	621	1 670	3.41	3.80
May	2 470	424	821	1.68	1.94
June	1 060	148	326	.665	.74
July	469	91	172	.351	.40
August	18 500	84	1 330	2.71	3.12
September	8 730	308	1 310	2.67	2.98
Year ending Sept. 30, 1933	18 500	65	1 020	2.08	28.14
October	1 570	288	454	.927	1.07
November	374	215	264	.539	.60
December	1 450	160	358	.731	.84
Calendar year, 1933	18 500	84	816	1.67	22.62
January, 1934	4 690	280	1 135	2.32	2.68
February	370	200	265	.541	.56
March	14 000	200	1 556	3.18	3.67
April	4 920	582	1 353	2.76	3.08
May	2 450	374	707	1.44	1.66
June	1 930	191	484	.927	1.03
July	318	119	185	.378	.44
August	1 130	110	194	.396	.46
September	11 500	78	943	1.92	2.14
Year ending Sept. 30, 1934	14 000	78	658	1.34	18.23

Neshanic River at Reaville

LOCATION.- Water-stage recorder at highway bridge half a mile southwest of Reaville, Hunterdon County.

DRAINAGE AREA.- 25.7 square miles.

RECORDS AVAILABLE.- June 1930 to September 1934.

AVERAGE DISCHARGE.- 4 years, 29.6 second-feet.

EXTREMES.- 1930-34: Maximum discharge, 4 370 second-feet Aug. 23, 1933 (gage height, 10.80 feet); minimum, 0.2 second-foot Feb. 2, 1931, Aug. 27-30, 1934 (gage height, 1.17 feet).

Daily discharge, in second-feet, 1930

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										18	1.4	0.9
2										6.7	1.2	.9
3										2.9	1.1	1.1
4										2.3	1.1	1.4
5										1.8	0.9	.9
6										4.6	.9	.9
7										2.5	.8	.8
8										1.8	.7	.8
9										1.7	.7	.8
10									29	49	.5	.7
11									9.1	5.8	.5	.5
12									5.1	4.0	.4	.5
13									4.8	2.9	.3	.5
14									4.3	2.5	.3	1.0
15									2.9	2.3	.9	1.1
16									2.8	1.8	1.4	1.0
17									3.1	1.5	1.2	.9
18									4.0	1.5	.9	.8
19									9.7	1.4	.7	.7
20									4.3	1.2	.9	.7
21									3.1	1.2	.8	.7
22									2.5	2.5	.8	.7
23									2.3	6.4	30	.5
24									2.1	37	5.8	.5
25									2.0	11.2	2.1	.5
26									3.1	3.1	1.7	.7
27									7.3	2.1	1.7	.7
28									2.8	2.0	1.4	.5
29									2.0	2.0	1.1	.4
30									1.7	2.9	1.0	.4
31										1.8	1.0	

Neshanic River at Reaville
(Continued)

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	2.5	7.8	17.4	‡ 4	27	138	7.8	35	5.3	2.0	1.4
2	.4	1.5	10.5	‡ 14	4.0	28	94	7.3	17.4	5.1	1.8	2.3
3	.4	1.2	‡ 3	‡ 11	‡ 4	22	58	7.8	11.9	5.1	2.0	13.0
4	.5	1.2	‡ 3	10.0	‡ 4	22	47	6.6	9.6	4.8	2.1	3.6
5	.5	2.3	2.8	66	‡ 3	20	36	6.0	8.5	4.8	1.8	8.9
6	.5	4.6	2.8	236	‡ 3	17.4	31	5.3	6.6	7.8	1.2	4.3
7	.5	2.3	2.9	39	‡ 3	15.8	47	6.6	24	7.8	.9	2.8
8	.7	1.7	3.1	‡ 30	8.5	154	49	25	115	6.6	.9	2.0
9	.8	1.4	2.9	‡ 20	69	87	33	18.0	30	5.1	1.0	1.8
10	.9	1.2	2.8	15.8	78	56	29	12.6	65	144	18.5	1.7
11	1.1	1.2	2.5	14.4	27	40	26	19.0	76	61	19.5	1.4
12	1.1	1.2	2.5	13.5	56	33	22	14.4	42	20	16.3	1.1
13	1.1	1.2	2.5	‡ 13	72	27	19.0	21	31	13.9	6.3	1.1
14	1.1	1.7	2.1	‡ 13	93	24	15.8	22	24	12.6	4.6	2.0
15	11.8	11.1	‡ 2	‡ 13	46	22	14.4	17.4	19.5	23	4.6	3.1
16	5.3	10.0	‡ 2	‡ 12	23	20	13.0	13.5	456	11.4	4.3	2.3
17	1.8	25	‡ 2	10.9	126	21	12.3	10.9	143	8.5	2.9	1.8
18	.8	66	1.8	8.9	187	17.4	11.4	9.6	66	8.2	2.5	2.1
19	.8	23	2.0	153	52	16.3	10.0	8.2	44	8.2	2.8	1.8
20	.8	15.3	2.0	33	39	19.0	8.9	7.3	33	8.2	3.6	1.1
21	.8	12.6	‡ 2	19.0	33	18.5	8.2	56	24	14.4	2.9	.9
22	.8	10.0	‡ 1.8	‡ 14	30	15.8	8.2	32	19.0	8.5	2.8	1.2
23	.8	7.8	‡ 1.8	‡ 12	29	14.9	10.8	68	26	6.0	2.3	1.4
24	.9	6.3	‡ 2	‡ 10	24	13.0	8.9	36	22	13.5	3.1	.8
25	.9	6.3	2.9	‡ 9	23	13.9	8.2	28	14.9	7.0	2.9	.3
26	.9	5.3	2.7	8.5	22	13.9	16.3	23	12.3	5.1	2.3	1.1
27	.9	4.6	244	‡ 8	21	11.4	17.1	16.9	11.4	3.8	2.3	2.1
28	.9	4.6	72	7.8	18.0	11.4	10.9	13.5	8.9	3.3	2.1	1.8
29	1.1	3.3	38	6.6		347	9.6	10.9	7.3	2.9	2.1	1.4
30	1.4	3.1	29	‡ 7		79	8.5	8.9	6.0	3.3	2.1	1.1
31	2.3		23	‡ 5		54		9.7		2.8	1.7	

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	2.2	2.7	4.6	‡ 15	11.3	108	58	2.7	1.9	0.7	22
2	.8	1.9	2.2	51	‡ 16	9.6	64	44	2.5	2.9	.8	3.7
3	.8	1.7	1.6	36	18.5	8.8	51	24	2.4	4.1	.9	1.7
4	.8	1.6	2.9	22	48	8.4	38	18.5	2.2	4.4	1.1	1.1
5	.9	1.4	8.8	18.5	92	8.4	33	15.9	2.2	10.9	1.3	.9
6	.9	1.4	3.2	27	43	74	30	14.0	2.1	8.1	1.1	.9
7	1.0	1.4	2.4	32	38	103	26	16.9	1.9	7.4	.9	.8
8	1.6	1.1	7.4	93	38	‡ 40	22	15.4	1.7	6.1	.9	.8
9	5.4	1.3	4.4	131	27	‡ 28	24	20	1.6	4.1	.9	.7
10	3.9	1.3	11.3	138	26	‡ 24	74	15.0	1.4	3.2	.8	.6
11	2.4	1.4	6.1	70	46	‡ 20	66	12.1	1.4	2.4	.8	.6
12	1.3	1.4	6.1	52	38	18.5	129	15.0	1.6	2.1	.7	.6
13	1.4	1.6	5.4	46	31	16.4	56	31	3.2	2.1	.6	.6
14	1.3	1.3	6.1	36	24	15.0	44	19.1	2.7	1.7	.6	.6
15	1.3	1.3	5.4	31	21	‡ 13	35	15.0	2.5	1.6	.5	.6
16	2.7	1.3	4.4	25	17.4	‡ 10	30	12.5	2.5	1.1	.5	.6
17	2.7	1.3	4.4	22	22	21	25	10.4	7.1	.9	.4	.5
18	1.7	1.3	4.1	22	28	20	23	8.8	3.4	.9	.6	.4
19	1.6	1.3	3.7	16.9	18.0	15.4	20	8.1	2.5	1.1	5.5	.4
20	1.6	1.4	3.4	15.0	‡ 14	15.9	17.4	7.1	2.5	.7	3.3	.4
21	1.4	1.6	3.2	14.0	† 13	14.5	15.9	6.4	2.4	1.0	1.4	.5
22	1.4	1.6	3.9	13.5	† 12	76	14.5	6.4	2.2	4.6	1.0	.5
23	1.4	1.6	8.4	15.4	† 11	36	13.0	5.1	1.7	11.7	.9	.5
24	1.4	1.6	6.8	21	10.4	36	11.7	4.4	1.4	7.4	.8	.5
25	1.1	1.6	5.8	14.5	‡ 10	30	11.3	4.4	1.3	1.7	.8	.4
26	1.0	1.3	3.4	12.5	9.6	30	13.2	3.7	1.3	1.1	.8	.4
27	.8	1.3	‡ 3	49	10.4	31	15.2	3.4	1.4	.9	.8	.5
28	.8	1.6	‡ 3	25	13.5	1090	11.3	4.4	2.4	1.0	.7	.6
29	4.9	1.7	‡ 3	22	14.5	148	10.0	3.9	2.2	1.0	.8	.5
30	4.4	2.4	‡ 3	41		82	9.2	3.7	2.2	.9	.9	.6
31	2.9		‡ 2	20		89		3.2		.7	16.6	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Neshanic River at Reaville
(Continued)

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	92	18.0	41	16.4	27	79	13.0	20	2.7	1.6	18.0
2	.6	40	16.9	34	18.5	25	59	13.0	15.4	3.7	1.4	15.4
3	.5	22	16.9	30	15.4	23	52	17.6	14.9	34	1.3	14.0
4	.5	15.0	15.9	31	14.0	19.6	146	15.0	17.9	9.2	6.7	125
5	1.5	13.0	14.0	33	‡ 13	16.9	69	12.1	12.1	5.8	2.6	38
6	18.6	11.3	13.0	25	‡ 12	15.0	60	37	14.9	4.1	1.9	27
7	7.6	932	12.5	25	13.5	33	164	30	10.8	3.4	1.7	21
8	2.2	117	11.3	21	132	128	67	38	12.5	3.2	1.4	17.4
9	1.4	72	9.6	102	33	42	53	34	9.2	2.9	1.4	15.4
10	1.1	961	8.8	59	‡ 20	‡ 36	44	158	9.6	2.7	1.5	13.0
11	.7	105	8.8	45	‡‡ 15	‡‡ 24	36	50	7.4	2.5	23	10.9
12	.5	66	16.9	39	‡‡‡ 13	‡‡ 18	482	40	6.8	2.4	5.3	10.0
13	.6	46	19.1	28	‡‡‡ 13	63	132	37	10.2	2.4	3.4	8.8
14	.6	36	‡‡ 15	25	‡‡ 16	203	81	30	6.8	2.5	23	40
15	.7	31	‡‡ 12	25	‡‡ 30	103	62	25	5.4	2.1	7.7	504
16	.9	27	‡‡ 9	22	‡‡ 24	58	52	30	5.1	47	4.9	156
17	1.6	44	‡‡‡ 8	22	‡‡‡ 20	50	234	30	5.8	42	3.9	80
18	47	28	‡‡‡ 8	21	‡‡‡ 26	41	95	21	4.9	9.8	5.6	52
19	12.0	975	‡‡‡ 8	27	‡‡‡ 36	198	† 80	17.4	4.1	6.4	23	38
20	7.1	159	‡‡ 9	22	455	463	† 60	34	3.7	4.9	98	31
21	4.6	84	‡‡ 11	18.5	148	423	† 46	36	3.7	3.4	52	26
22	3.2	56	‡‡ 12	26	76	126	† 38	18.5	3.4	3.4	481	22
23	2.9	41	‡‡ 8	26	68	82	† 32	15.9	3.2	3.2	1 460	18.5
24	2.5	38	‡‡ 20	19.6	52	61	28	26	2.9	2.7	832	24
25	2.5	32	‡‡100	18.5	52	50	25	27	2.7	2.6	145	16.9
26	2.4	47	95	31	50	76	22	16.9	2.9	3.2	74	14.5
27	5.8	‡‡ 22	172	25	‡‡ 30	57	18.5	13.0	3.7	2.9	51	13.5
28	5.6	‡‡‡ 20	224	26	‡‡ 24	50	16.4	16.9	3.4	2.4	38	13.5
29	3.7	‡‡‡ 19	99	21		41	15.4	13.0	3.2	2.2	31	14.5
30	3.2	18.0	78	18.5		34	13.5	59	2.5	1.9	24	12.1
31	2.5		76	17.4		32		27		1.7	19.6	

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10.4	6.8	3.7	‡ 15	‡‡ 5.8	† 2.0	209	15.9	7.7	3.4	1.1	1.0
2	18.7	6.4	3.4	141	‡‡‡ 7.6	‡‡ 2.0	78	15.0	6.4	3.2	21	.9
3	10.4	6.1	3.4	74	‡‡‡ 5.2	‡‡ 100	54	151	5.8	2.7	13.5	.8
4	9.6	5.8	4.6	32	‡‡‡ 4.3	1 510	52	132	5.1	3.2	2.3	3.1
5	9.2	5.1	5.1	224	‡‡‡ 4.0	695	42	69	4.9	2.5	1.3	2.0
6	9.2	12.6	4.9	227	‡‡ 3.8	75	36	48	4.9	2.5	1.0	1.3
7	8.1	10.4	5.1	566	‡‡‡‡ 3.6	39	67	34	4.4	2.2	1.3	1.6
8	7.7	8.4	4.9	270	‡‡‡‡ 3.5	28	44	25	3.4	4.0	1.0	119
9	7.4	7.4	4.6	100	‡‡‡‡ 3.5	‡‡ 17.0	36	21	2.7	2.8	1.3	52
10	6.4	6.8	‡ 3.0	70	‡‡ 3.5	‡‡ 15.0	30	19.1	3.4	2.2	4.8	19.6
11	6.1	6.1	‡‡ 2.5	54	‡‡ 3.7	‡‡‡ 15.0	60	18.0	8.4	2.1	2.0	12.1
12	5.8	6.1	‡‡‡ 2.4	42	‡‡‡‡ 5.0	‡‡‡ 18.0	98	15.0	52	1.9	9.1	6.4
13	6.4	5.8	‡‡‡ 2.4	68	‡‡‡‡ 4.2	‡‡‡ 26	46	12.5	13.2	2.1	21	6.8
14	6.8	6.4	‡‡‡ 2.4	64	‡‡‡‡ 3.3	52	40	12.5	8.1	2.4	5.1	7.4
15	5.8	‡ 5.5	‡‡ 2.5	41	‡‡‡ 5.6	35	36	17.5	5.0	2.9	3.4	21
16	5.1	‡‡‡ 5.2	‡‡ 3.5	36	‡‡‡ 4.2	32	163	18.0	4.1	5.2	4.5	16.9
17	29	‡‡‡ 5.0	16.4	29	‡‡‡ 3.3	32	91	12.5	3.4	1.9	4.4	218
18	20	4.9	20	‡‡‡‡ 19.0	‡‡‡ 3.0	41	59	10.9	3.2	1.7	2.9	42
19	11.3	5.4	‡‡ 11.0	16.0	‡‡‡‡ 3.7	37	47	9.2	81	1.6	2.4	28
20	9.6	5.4	‡‡ 30	‡‡‡‡ 14.0	‡‡‡‡ 2.8	30	67	7.7	23	1.6	2.0	20
21	8.4	5.1	52	‡‡ 14.0	† 2.7	25	39	7.7	12.5	1.6	1.4	15.9
22	7.7	5.1	30	15.0	† 6.0	23	32	14.8	9.2	1.6	1.3	14.0
23	7.7	5.1	25	40	† 5.4	‡‡ 13.0	28	21	27	1.3	1.3	12.5
24	9.6	4.9	23	25	† 3.4	‡‡ 10.0	28	8.4	10.9	1.1	1.4	15.7
25	14.6	4.6	19.1	19.6	† 2.5	‡‡ 11.0	57	42	8.1	1.5	1.3	10.9
26	9.2	4.4	‡‡ 12.5	19.6	† 2.2	‡ 13.0	27	33	6.4	1.6	1.4	9.6
27	8.8	4.6	‡‡‡ 5.5	16.4	† 2.0	22	28	16.9	5.1	1.4	1.1	8.1
28	8.1	3.9	‡‡‡ 4.2	19.6	† 2.0	446	26	13.5	4.9	1.1	1.7	7.4
29	7.4	3.9	‡‡‡ 4.0	‡‡ 11.0		92	20	11.3	4.2	1.3	.8	7.3
30	7.1	4.1	‡‡‡ 4.0	‡‡‡ 7.0		62	17.4	10.9	3.9	1.4	1.5	190
31	7.1		‡‡ 4.3	‡‡ 5.0		196		8.8		1.4	1.2	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Neshanic River at Reaville
(Continued)

Monthly and annual discharge, in second-feet, 1930-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
June 16-30, 1930	29	1.7	5.14	.198	.15
July	49	1.2	6.08	.234	.27
August	30	.3	2.07	.080	.09
September	1.4	.4	.750	.029	.03
Year ending Sept. 30, 1930					
October	11.8	.4	1.39	.054	.06
November	66	1.2	7.98	.311	.35
December	244	1.8	15.6	.607	.70
Calendar year, 1930					
January, 1931	236	5	27.4	1.07	1.23
February	187	3	39.3	1.53	1.59
March	347	11.4	41.3	1.61	1.86
April	138	8.2	27.4	1.07	1.19
May	68	5.3	17.7	.689	.79
June	456	6.0	47.0	1.83	2.04
July	144	2.8	14.3	.556	.64
August	19.5	.9	4.07	.158	.18
September	13.0	.3	2.39	.093	.10
Year ending Sept. 30,1931	456	.3	20.3	.790	10.73
October	5.4	.8	1.82	.071	.08
November	2.4	1.1	1.51	.059	.07
December	11.3	1.6	4.56	.177	.20
Calendar year, 1931	456	.3	18.9	.735	9.97
January, 1932	138	4.6	36.7	1.43	1.65
February	92	9.6	25.0	.973	1.05
March	1 090	8.4	69.1	2.69	3.10
April	129	9.2	34.7	1.35	1.51
May	58	3.2	13.9	.541	.62
June	7.1	1.3	2.29	.089	.10
July	11.7	.7	3.22	.125	.14
August	16.6	.4	1.56	.061	.07
September	22	.4	1.45	.056	.06
Year ending Sept. 30, 1932	1 090	.4	16.3	.634	8.65
October	47	.5	4.68	.182	.21
November	975	11.3	139	5.41	6.04
December	224	8	37.0	1.44	1.66
Calendar year, 1932	1 090	.4	30.6	1.19	16.21
January, 1933	102	17.4	29.8	1.16	1.34
February	455	12	51.3	2.00	2.08
March	463	15.0	84.5	3.29	3.79
April	482	13.5	78.7	3.06	3.41
May	158	12.1	30.7	1.19	1.37
June	20	2.5	7.64	.297	.33
July	47	1.7	7.20	.280	.32
August	1 460	1.3	111	4.32	4.98
September	504	8.8	47.0	1.83	2.04
Year ending Sept. 30, 1933	1 460	.5	52.2	2.03	27.57
October	29	5.1	9.64	.375	.43
November	12.6	3.9	5.91	.230	.26
December	52	2.4	10.3	.401	.46
Calendar year, 1933	1 460	1.3	39.4	1.53	20.81
January, 1934	566	5.0	74.0	2.88	3.32
February	7.6	2.0	3.92	.153	.16
March	1 510	2.0	120	4.67	5.38
April	209	17.4	55.2	2.15	2.40
May	151	7.7	27.5	1.07	1.23
June	81	2.7	11.4	.444	.50
July	5.2	1.1	2.17	.084	.10
August	21	.8	3.86	.150	.17
September	218	.8	29.1	1.13	1.26
Year ending Sept. 30, 1934	1 510	.8	29.7	1.16	15.67

North Branch of Raritan River near Far Hills

LOCATION.- Water-stage recprder at dam of Somerset Lake & Game Club, 2 miles north of Far Hills, Somerset County, and 2 miles above mouth of Peapack Brook.

DRAINAGE AREA.- 26 square miles.

RECORDS AVAILABLE.- February 1922 to September 1934.

AVERAGE DISCHARGE.- 12 years, 45.0 second-feet.

EXTREMES.- 1922-34: Maximum discharge, about 2 630 second-feet Sept. 30, 1934 (gage height, 5.24 feet); no flow during several days in November 1930 and May 1934 when pond was filling.

Stage of 7.6 feet reached on July 23, 1919 (discharge about 7 000 feet) from authentic high-water mark.

REMARKS.- The 2 second-feet diverted by small turbine at dam included in daily discharge.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	24	† 170	43	24	75	47	131	38	23	7.6	6.7
2	40	24	† 75	70	21	104	41	122	34	22	8.0	6.7
3	38	24	† 40	27	21	104	45	131	32	19	8.5	6.3
4	38	42	† 24	27	23	83	49	102	34	18	12	5.8
5	38	43	32	21	23	195	75	106	34	17	10	6.3
6	41	29	30	253	24	191	128	114	38	18	9.5	11
7	36	27	25	62	420	102	65	198	32	16	10	14
8	30	27	24	36	74	71	55	97	40	16	8.9	52
9	30	28	24	41	49	68	52	81	36	16	8.5	30
10	29	24	21	109	49	52	62	68	30	14	8.5	21
11	28	24	24	65	38	52	62	65	28	13	8.9	13
12	28	22	23	47	28	52	203	74	28	13	9.5	9.5
13	27	24	21	38	26	55	106	98	27	13	8.5	8.9
14	26	23	20	27	29	114	81	78	26	13	9.5	16
15	27	21	19	36	28	102	68	81	28	12	16	19
16	27	21	19	30	28	85	170	65	28	11	11	13
17	28	21	20	34	27	68	162	55	27	11	8.5	20
18	28	21	42	38	27	65	102	49	36	11	8.5	42
19	47	22	28	47	28	68	89	100	25	20	17	18
20	32	† 26	23	40	26	71	81	80	28	17	14	13
21	28	† 20	21	32	19	71	93	94	40	13	11	11
22	27	† 24	16	29	27	81	131	71	28	13	8.9	9.5
23	28	† 26	17	34	27	97	93	59	25	13	8.5	8.9
24	29	† 24	17	30	24	62	75	59	24	13	8.9	9.5
25	26	† 24	18	32	29	52	129	71	67	12	8.0	8.9
26	25	† 24	18	28	368	49	408	52	70	11	7.6	8.9
27	24	† 22	18	24	308	47	172	47	28	11	7.6	† 9
28	24	† 22	24	28	133	41	195	47	27	11	8.9	† 9
29	24	† 22	23	21		45	202	47	30	11	8.0	† 9
30	24	† 24	19	21		45	136	45	24	10	7.1	8.9
31	24		16	23		47		41		8.5	7.1	13

† Estimated.

North Branch of Raritan River near Far Hills
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.5	16	13	36	† 24	49	45	34	18	76	10	7.6
2	74	16	15	32	† 24	52	43	41	18	45	9.5	8.5
3	51	57	16	43	† 24	47	43	36	17	41	9.5	11
4	23	45	16	38	† 24	43	40	29	16	34	8.9	8.5
5	16	26	17	27	† 136	41	38	28	15	25	8.9	7.1
6	14	21	18	28	† 45	41	40	28	15	25	8.5	7.1
7	13	18	18	30	† 28	43	143	28	16	24	7.6	7.1
8	11	17	24	30	† 25	306	71	29	16	21	7.6	7.6
9	10	16	28	32	† 24	118	49	29	20	19	7.6	7.1
10	9.5	15	22	30	30	89	49	25	200	36	6.7	6.7
11	9.5	15	19	25	26	93	49	24	60	24	5.8	6.7
12	10	17	14	29	27	106	49	24	32	20	5.8	6.7
13	10	16	21	38	80	75	55	24	28	18	5.4	7.1
14	10	16	38	81	70	68	59	24	25	18	5.8	23
15	9.5	18	40	78	41	62	41	45	23	19	11	16
16	11	18	29	45	30	65	55	36	21	16	13	11
17	10	17	25	38	† 28	68	59	28	20	15	11	13
18	8.5	94	101	67	† 30	65	62	24	34	14	9.5	11
19	8.5	65	131	49	† 40	65	59	28	27	14	8.5	8.9
20	8.9	30	55	40	47	55	47	32	21	13	8.5	8.0
21	11	26	38	† 34	49	52	45	25	18	13	10	8.0
22	43	23	32	† 29	45	47	47	23	17	16	8.5	8.0
23	78	21	32	† 28	45	47	43	21	16	21	36	8.0
24	26	20	32	† 26	52	49	40	20	16	17	24	7.6
25	19	20	29	† 25	52	71	38	38	17	16	13	7.6
26	16	18	26	† 25	96	68	38	28	16	13	10	7.6
27	14	18	29	† 25	71	52	38	22	28	12	9.5	7.6
28	13	20	36	† 26	55	49	36	22	19	11	8.5	6.7
29	13	18	47	† 28		49	34	28	14	13	8.5	6.3
30	13	12	41	† 27		49	34	24	14	13	8.0	5.8
31	15		34	† 25		47		20		11	7.6	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.4	13	40	16	10	24	81	34	89	22	22	16
2	5.4	10	22	12	15	27	102	34	47	22	22	25
3	4.9	8.9	14	14	12	25	62	34	40	22	24	62
4	5.4	10	14	15	14	24	59	30	36	22	34	29
5	5.4	19	14	23	12	25	49	29	32	22	24	22
6	4.9	23	14	116	13	24	47	28	29	34	22	21
7	4.9		13	36	12	23	59	29	29	34	21	18
8	4.9		12	20	14	151	65	45	89	28	19	17
9	5.8		12	21	41	97	49	45	41	24	20	16
10	6.7		12	21	52	52	43	43	55	357	22	16
11	7.1		12	18	23	43	45	65	75	233	27	15
12	7.1		19	18	24	40	40	43	45	102	45	12
13	7.1		16	18	48	34	38	43	40	71	28	12
14	7.1		15	14	115	32	36	41	36	134	23	13
15	7.6		11	12	31	30	34	41	36	129	22	15
16	6.7		8.9	12	28	30	34	34	77	65	26	14
17	6.7	†25	9.5	12	60	29	34	29	97	49	21	14
18	6.7		11	14	178	28	32	28	49	47	18	14
19	6.7		12	25	47	28	32	28	43	49	16	13
20	6.7		14	30	38	30	32	28	40	47	16	12
21	6.7		12	22	30	36	32	72	36	59	16	12
22	6.7		12	14	28	29	32	49	30	55	15	13
23	7.6		14	15	28	28	69	110	36	41	14	12
24	8.5		14	14	27	28	40	52	38	41	15	11
25	7.6		10	15	26	40	34	45	32	36	15	9.5
26	5.8		14	16	25	34	80	41	29	29	14	12
27	6.3		108	22	24	28	66	38	28	28	27	13
28	7.1	2.1	51	28	23	28	43	34	26	26	38	11
29	8.5	7.3	28	21		216	40	30	24	28	23	10
30	8.9	14	23	17		75	36	29	23	29	21	9.5
31	13		17	17		59		68		26	18	

† Estimated.

North Branch of Raritan River near Far Hills
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.5	13	17	14	22	35	192	81	18	11	4.2	8.0
2	10	12	13	63	24	27	118	62	17	40	4.2	31
3	10	11	11	56	26	27	109	41	18	19	5.6	12
4	9.5	11	19	28	33	27	84	37	17	16	8.0	7.1
5	10	10	33	21	68	27	71	34	15	21	4.9	6.6
6	11	11	† 40	111	37	45	67	34	16	16	4.9	11
7	10	10	† 22	188	36	89	61	41	15	14	4.9	7.1
8	12	11	† 18	74	39	41	61	39	13	13	5.8	4.5
9	16	11	† 20	78	36	34	61	41	13	11	5.8	4.0
10	12	12	† 30	55	31	33	85	34	13	10	4.9	4.0
11	11	12	† 30	44	58	31	93	32	12	8.9	8.7	4.0
12	8.9	12	† 13	37	46	32	126	36	14	8.5	7.5	4.2
13	8.9	12	† 20	37	37	32	74	38	27	7.6	4.9	4.5
14	9.5	11	† 30	34	32	30	64	32	21	7.6	4.0	4.9
15	11	11	† 22	30	30	25	61	30	18	7.1	3.8	5.4
16	25	12	† 17	27	28	24	58	28	18	6.7	3.8	5.4
17	22	12	† 14	26	31	37	52	27	25	6.7	4.0	4.9
18	14	13	13	25	36	46	52	24	20	9.3	8.9	4.2
19	11	14	12	24	39	36	49	23	16	9.4	11	4.0
20	9.5	18	12	23	37	37	46	23	15	7.6	6.7	4.0
21	9.5	18	12	23	32	34	46	22	14	6.7	5.4	4.0
22	8.9	16	14	26	36	95	44	21	26	7.1	4.2	3.8
23	8.9	12	21	29	34	64	41	20	19	8.5	4.0	3.8
24	8.9	10	19	36	31	46	37	20	14	7.6	4.0	3.5
25	9.5	10	16	27	30	41	37	19	12	6.3	3.5	3.2
26	8.9	9.5	13	24	34	44	44	18	12	5.8	3.2	2.8
27	8.5	9.5	10	38	34	49	45	19	14	5.8	3.5	3.0
28	8.9	10	12	31	41	423	37	30	32	5.8	4.2	7.0
29	15	11	12	26	44	168	34	22	18	5.4	3.8	7.8
30	18	14	12	44		134	34	20	12	4.5	3.2	5.4
31	16		12	35		168		18		4.2	3.5	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.5	331	39	37	29	46	107	† 50	37	22	6.7	24
2	4.0	90	39	32	32	44	126	† 60	32	26	6.3	24
3	4.0	41	37	31	31	44	102	89	30	28	6.0	41
4	4.0	25	37	31	28	41	126	74	31	25	13	152
5	5.2	24	34	31	27	41	97	55	34	19	10	61
6	55	22	32	30	23	55	89	77	62	14	7.6	39
7	28	165	31	29	28	66	157	105	36	12	6.7	32
8	12	49	31	29	127	158	93	61	31	11	22	30
9	8.0	38	30	33	39	61	81	58	27	11	14	30
10	6.7	419	29	39	27	49	78	96	24	11	7.8	29
11	5.8	114	28	32	31	44	74	67	23	10	32	25
12	5.4	81	34	41	31	46	257	61	22	10	19	25
13	4.9	58	34	31	† 28	60	159	58	25	10	13	24
14	4.9	46	31	28	† 28	143	114	58	22	10	26	79
15	4.5	44	28	27	† 32	89	102	52	21	10	18	672
16	5.4	41	22	27	† 28	60	97	62	20	17	12	241
17	12	61	23	27	† 28	55	216	71	21	23	10	192
18	228	37	25	27	† 30	52	163	49	18	16	12	144
19	38	533	27	32	36	74	126	44	17	15	17	114
20	24	213	26	31	195	157	114	44	16	12	24	110
21	18	102	26	29	100	279	106	77	16	10	18	89
22	15	118	28	38	64	170	97	46	16	9.5	85	67
23	18	71	32	39	61	144	93	39	14	9.5	162	58
24	12	67	37	31	58	118	93	37	12	9.5	389	71
25	11	61	86	29	52	110	89	41	12	8.5	81	64
26	11	78	62	37	58	118	81	37	12	8.5	46	55
27	28	58	42	37	46	118	78	32	13	8.5	36	58
28	23	49	89	32	44	110	74	40	15	8.0	31	55
29	15	39	49	30		93	† 65	36	15	7.6	32	52
30	12	39	41	30		81	† 60	61	13	7.6	24	49
31	11		41	29		78		49		6.7	24	

† Estimated.

North Branch of Raritan River near Far Hills
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	29	22	26	‡ 28	† 21	224		30	23	15	9.5
2	164	29	21	68	‡ 30	† 23	131		27	22	18	9.5
3	64	28	22	34	‡ 27	† 45	110		25	27	40	9.5
4	58	27	31	26	† 25	162	144		‡ 26	35	21	15
5	55	27	32	48	† 24	574	118		‡ 27	22	14	16
6	52	32	29	100	† 22	94	122		‡ 25	19	12	12
7	49	36	29	159	† 21	58	158	† 65	‡ 24	16	12	19
8	46	32	27	148	† 21	44	131		‡ 23	41	12	213
9	46	29	24	85	† 20	37	97		‡ 23	24	13	131
10	46	29	17	71	† 20	† 34	81		‡ 25	17	19	41
11	44	29	‡ 16	58	† 20	† 40	81		46	16	20	31
12	44	29	‡ 16	55	† 21	† 29	203		45	17	29	26
13	44	30	‡ 16	58	† 23	† 43	106		58	16	74	24
14	41	31	‡ 18	74	† 21	† 34		46	30	20	26	23
15	37	29	‡ 16	55	‡ 23	† 29		85	25	28	21	68
16	37	24	22	46	† 21	† 35		97	24	21	39	55
17	90	24	36	44	† 20	† 34		78	22	16	32	196
18	70	27	58	37	† 20	† 33		60	22	14	23	58
19	55	29	34	39	† 19	† 32		36	† 220	13	20	44
20	46	29	44	36	† 19	† 31		37	81	13	18	39
21	34	28	76	‡ 33	† 21	† 29		44	41	14	15	36
22	34	‡ 28	42	‡ 32	† 29	† 27	† 72	39	34	13	14	34
23	32	‡ 28	34	90	† 27	† 25		59	36	11	15	40
24	40	‡ 30	32	56	† 22	† 24		34	29	10	16	70
25	60	24	30	46	† 19	† 24		107	27	18	16	41
26	37	22	26	44	† 19	† 29		120	24	19	14	36
27	34	24	27	41	† 19	46		49	26	14	12	32
28	31	22	23	44	† 19	218		60	35	29	11	32
29	30	21	‡ 21	42		89		55	28	28	12	115
30	30	22	‡ 20	25		71		46	24	20	11	762
31	30		‡ 20	‡ 23		154		32		18	10	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	47	24	30.4	1.17	1.35
November	43	20	25.0	.962	1.07
December	170	16	29.4	1.13	1.30
Calendar year, 1928	623	16	67.1	2.58	35.18
January, 1929	253	21	44.9	1.73	1.99
February	420	19	69.6	2.68	2.79
March	195	41	77.9	3.00	3.46
April	408	41	113	4.38	4.85
May	198	41	81.5	3.13	3.61
June	70	24	33.1	1.27	1.42
July	23	8.5	14.2	.546	.63
August	17	7.1	9.50	.365	.42
September	52	5.8	14.2	.546	.61
Year ending Sept. 30, 1929	420	5.8	45.0	1.73	23.50
October	78	8.5	19.0	.731	.84
November	94	12	25.0	.962	1.07
December	131	13	33.4	1.28	1.48
Calendar year, 1929	420	5.8	44.3	1.70	23.17
January, 1930	81	25	35.9	1.38	1.59
February	136	24	45.3	1.74	1.81
March	306	41	68.7	2.64	3.04
April	143	34	49.6	1.91	2.13
May	45	20	28.0	1.08	1.24
June	200	14	27.2	1.05	1.17
July	76	11	21.7	.835	.96
August	36	5.4	10.1	.388	.45
September	23	5.8	8.76	.337	.38
Year ending Sept. 30, 1930	306	5.4	31.0	1.19	16.16

† Estimated.
‡ Estimated, stage-discharge relations affected by ice, or debris on control.

North Branch of Raritan River near Far Hills
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	13	4.9	6.77	0.260	0.30
November	....	....	21.1	.812	.91
December	108	8.9	19.3	.742	.86
Calendar year, 1930	306	....	28.4	1.09	14.84
January, 1931	116	12	21.5	.827	.95
February	178	10	35.6	1.37	1.43
March	216	23	45.1	1.73	1.99
April	102	32	48.2	1.85	2.06
May	110	28	41.9	1.61	1.86
June	97	23	44.2	1.70	1.90
July	357	22	61.6	2.37	2.73
August	45	14	22.2	.854	.98
September	62	9.5	16.3	.627	.70
Year ending Sept. 30, 1931	357	....	32.0	1.23	16.67
October	25	8.5	11.7	.450	.52
November	18	9.5	12.0	.462	.52
December	40	10	18.0	.692	.80
Calendar year, 1931	357	8.5	31.5	1.21	16.44
January, 1932	188	14	43.0	1.65	1.90
February	68	22	35.9	1.38	1.49
March	423	24	63.9	2.46	2.84
April	192	34	66.1	2.54	2.83
May	81	18	31.2	1.20	1.38
June	32	12	17.1	.658	.73
July	40	4.2	10.3	.396	.46
August	11	3.2	5.13	.197	.23
September	31	2.8	6.17	.237	.26
Year ending Sept. 30, 1932	423	2.8	26.7	1.03	13.96
October	228	4.0	20.4	.785	.90
November	533	22	104	4.00	4.46
December	89	22	37.1	1.43	1.65
Calendar year, 1932	533	2.8	36.5	1.40	19.13
January, 1933	41	27	31.8	1.22	1.41
February	195	23	47.9	1.84	1.92
March	279	41	90.5	3.48	4.01
April	257	60	110	4.23	4.72
May	105	32	57.6	2.22	2.56
June	62	12	22.9	.881	.98
July	28	6.7	13.1	.504	.58
August	389	6.0	39.1	1.50	1.73
September	672	24	90.2	3.47	3.87
Year ending Sept. 30, 1933	672	4.0	55.2	2.12	28.79
October	164	30	50.8	1.95	2.25
November	36	21	27.6	1.06	1.18
December	76	16	28.4	1.09	1.26
Calendar year, 1933	672	6.0	50.7	1.95	26.47
January, 1934	159	23	56.2	2.16	2.49
February	30	19	22.1	.850	.89
March	574	21	69.9	2.69	3.10
April	224	....	97.7	3.76	4.20
May	....	32	62.2	2.39	2.76
June	220	22	37.7	1.45	1.62
July	41	10	19.8	.762	.88
August	74	10	20.1	.773	.89
September	762	9.5	74.6	2.87	3.20
Year ending Sept. 30, 1934	762	9.5	47.3	1.82	24.72

North Branch of Raritan River at Milltown

LOCATION.- Staff gage at Milltown, Somerset County, 1½ miles upstream from junction of North and South Branches of Raritan River. Zero of gage is 50.43 feet above mean sea level.

DRAINAGE AREA.- 190 square miles.

RECORDS AVAILABLE.- June 1923 to September 1934.

AVERAGE DISCHARGE.- 11 years, 284 second-feet.

EXTREMES.- 1923-34: Maximum discharge, about 17 800 second-feet Sept. 30, 1934 (gage height, 10.6 feet, from high-water mark); minimum recorded, about 3 second-feet Nov. 28, 1930 (gage height, 1.72 feet).

REMARKS.- Slight diurnal fluctuation caused by small water powers.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	200	104	400	124	‡ 65	525	209	525	169	137	42	29
2	169	107	155	455	‡ 65	560	200	490	144	233	42	26
3	164	110	127	137	‡ 65	490	164	525	164	191	42	24
4	151	117	124	205	‡ 70	455	164	388	137	83	52	23
5	144	177	131	131	78	1 290	205	355	131	78	52	23
6	151	124	144	2 580	349	1 140	845	368	164	87	37	102
7	144	112	127	455	6 010	670	337	940	164	87	38	61
8	127	117	120	302	490	362	243	455	144	74	38	1 040
9	124	114	110	209	291	420	233	455	164	67	35	381
10	124	112	117	1 090	374	308	270	374	131	65	37	177
11	131	110	92	455	200	314	270	314	124	65	35	110
12	124	107	112	314	182	† 300	2 280	291	114	65	37	78
13	124	112	92	302	‡ 160	† 300	710	388	104	56	37	69
14	117	107	92	173	‡ 150	710	490	362	94	56	37	97
15	117	102	100	186	141	710	455	362	302	56	137	112
16	117	100	97	191	164	595	2 000	291	124	52	52	97
17	117	94	97	110	107	414	1 090	259	102	54	44	87
18	117	102	209	117	141	314	560	238	238	52	44	291
19	229	97	141	302	117	308	490	368	97	92	97	107
20	137	131	117	214	92	291	420	560	100	78	65	107
21	120	200	102	104	† 130	259	414	490	186	71	40	97
22	114	117	100	229	164	248	630	455	248	61	38	92
23	114	120	92	182	164	394	525	337	144	67	37	65
24	137	112	100	219	124	362	414	302	144	61	44	56
25	120	107	97	209	124	275	800	400	219	56	44	52
26	117	87	92	219	2 740	270	3 940	280	314	50	27	52
27	114	78	87	160	2 000	248	755	238	131	61	29	48
28	112	76	117	117	1 090	248	670	229	124	48	42	48
29	110	74	107	87		200	890	214	155	48	40	46
30	102	83	29	‡ 60		205	595	205	224	48	33	48
31	107		74	‡ 60		173		182		44	31	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

North Branch of Raritan River at Milltown
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	97	94	233	107	302	156	134	73	93	45	37
2	800	92	94	248	144	374	163	134	73	196	41	41
3	595	1 240	† 100	388	155	270	142	142	65	115	34	48
4	219	560	104	248	209	270	142	118	63	145	36	41
5	131	259	102	191	755	209	138	112	60	107	32	32
6	124	219	102	155	291	200	175	110	58	98	28	34
7	112	155	107	173	229	219	1 040	110	58	88	26	28
8	97	127	137	177	219	4 720	376	110	56	67	24	36
9	76	120	169	117	137	940	274	115	65	65	25	26
10	69	110	124	112	155	560	263	104	306	192	24	21
11	69	107	112	102	144	490	242	93	306	112	26	21
12	67	100	74	169	131	490	214	90	167	69	21	21
13	65	97	124	238	525	407	200	88	148	65	14	22
14	67	107	200	455	455	306	224	88	142	67	14	363
15	65	248	83	595	248	295	188	205	128	67	41	69
16	65	349	248	374	‡ 180	263	233	142	104	63	65	50
17	65	374	144	107	177	274	284	104	95	56	45	60
18	56	1 190	2 140	420	186	252	317	101	142	50	45	54
19	56	420	1 400	233	195	279	311	107	115	50	34	41
20	56	280	630	270	224	252	284	134	93	48	28	34
21	61	243	349	‡ 200	314	263	263	115	81	43	41	34
22	61	233	314	‡ 180	259	196	224	98	69	156	36	36
23	400	160	302	‡ 150	302	188	209	73	69	188	205	24
24	160	144	314	‡ 140	349	209	219	81	67	209	131	25
25	131	155	248	131	388	233	175	121	65	134	88	28
26	117	131	248	117	595	247	167	128	58	71	56	29
27	107	127	209	112	670	233	148	98	145	50	50	26
28	90	127	229	141	381	214	142	88	83	48	58	16
29	78	117	326	141		205	142	115	73	50	41	26
30	78	107	314	141		171	138	98	60	52	34	21
31	87		259	117		163		88		48	32	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	50	95	238	31	159	525	148	595	104	101	65
2	17	39	78	‡ 220	81	184	630	110	311	93	93	71
3	18	37	60	180	56	167	490	156	228	93	88	490
4	16	34	‡ 48	167	95	163	395	128	200	98	115	219
5	16	56	41	156	67	171	323	118	167	93	107	107
6	18	110	39	1 090	45	145	323	112	175	95	93	110
7	24	88	69	167	46	142	334	121	184	184	78	88
8	18	88	32	268	52	560	300	455	800	163	78	69
9	18	43	65	196	219	670	289	242	595	112	78	60
10	21	41	60	214	‡ 750	490	247	196	340	710	90	58
11	21	34	52	167	‡ 380	340	233	490	525	1 870	142	56
12	19	37	‡ 44	247	‡ 220	328	209	252	323	420	263	52
13	21	56	‡ 34	167	‡ 380	284	200	284	268	328	171	45
14	22	34	‡ 26	‡ 130	890	224	180	274	200	289	121	58
15	29	142	‡ 22	‡ 110	67	200	167	238	200	351	110	69
16	29	196	‡ 18	‡ 100	‡ 75	196	167	192	1 090	247	152	60
17	28	490	‡ 22	118	167	196	159	180	1 400	209	88	52
18	26	1 510	41	145	990	188	145	128	340	209	93	76
19	37	595	43	346	395	196	124	134	284	209	88	54
20	29	209	52	‡ 240	306	224	131	115	228	200	148	52
21	26	188	45	152	279	219	128	407	209	219	83	54
22	26	233	41	‡ 120	219	188	131	490	175	242	76	56
23	29	104	63	‡ 120	205	184	258	800	167	159	71	52
24	29	71	56	‡ 110	196	156	184	376	175	192	78	48
25	29	83	39	‡ 110	180	196	167	289	148	145	69	45
26	29	16	48	‡ 120	171	214	247	274	134	121	67	60
27	32	39	‡1 300	124	167	205	334	152	138	112	69	60
28	29	‡ 9	560	148	152	180	238	175	128	110	247	54
29	37	‡ 8	238	152		3 580	200	152	124	104	118	52
30	45	45	258	152		990	180	138	93	145	93	48
31	58		279	78		455		134		107	98	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

North Branch of Raritan River at Milltown
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	65	93	69	121	167	890	188	76	58	16	36
2	43	58	69	306	112	134	525	401	73	88	17	376
3	45	45	63	279	152	124	455	228	67	54	22	69
4	41	48	83	159	159	121	382	209	56	71	26	43
5	45	46	258	145	268	124	401	289	67	73	32	36
6	41	45	104	490	300	121	351	420	67	73	19	69
7	46	39	93	1 510	115	595	284	289	60	65	25	43
8	45	43	138	455	88	110	274	184	58	56	11	26
9	98	48	69	401	101	81	274	192	56	58	15	24
10	60	46	238	351	192	‡ 130	455	167	58	45	19	26
11	48	45	152	351	289	‡ 160	490	159	54	45	22	24
12	48	48	138	300	323	‡ 170	1 090	142	54	31	25	21
13	41	52	115	258	289	‡ 170	420	219	115	34	25	17
14	41	48	138	238	128	‡ 150	351	159	71	31	25	19
15	45	48	110	192	45	‡ 130	284	142	81	26	16	22
16	88	50	93	93	‡ 65	‡ 130	289	128	67	25	15	22
17	76	52	90	152	98	142	274	115	78	25	21	24
18	56	52	76	159	209	233	238	115	88	88	32	18
19	43	48	71	163	159	156	224	107	81	37	58	18
20	46	48	73	128	159	171	228	95	76	36	43	17
21	45	58	73	134	128	152	192	104	85	36	29	17
22	45	52	73	138	148	363	184	98	81	36	29	17
23	54	58	152	148	148	376	184	90	78	46	26	17
24	45	48	110	152	104	279	152	90	65	39	19	16
25	43	45	95	167	88	228	148	78	58	19	18	14
26	45	48	90	159	118	224	171	81	56	19	16	12
27	37	45	45	311	121	228	317	95	60	29	12	17
28	37	48	39	184	163	5 570	171	85	148	25	17	37
29	65	50	50	167	184	990	148	78	107	26	11	31
30	115	69	83	279		670	148	67	56	19	15	19
31	110		71	238		800		76		12	14	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	1 750	233	279	180	317	414	258	214	163	46	156
2	22	845	228	268	188	279	595	247	167	101	45	142
3	18	376	224	247	188	263	490	357	159	167	45	242
4	17	274	228	247	184	238	845	346	159	131	115	2 430
5	26	228	209	209	180	209	490	238	159	101	71	595
6	340	188	192	209	‡ 160	200	414	346	388	85	52	279
7	284	4 720	192	188	209	219	990	525	184	76	45	224
8	112	845	196	209	525	560	490	414	167	73	45	188
9	85	525	188	351	284	388	420	455	142	67	60	180
10	83	4 130	184	340	‡ 200	317	401	990	124	67	48	163
11	65	710	188	279	‡ 190	258	370	420	118	56	346	148
12	52	525	228	284	‡ 180	‡ 220	2 740	363	104	58	107	134
13	36	395	274	209	‡ 180	274	1 090	357	145	52	81	134
14	29	382	247	‡ 190	‡ 180	940	630	340	107	52	233	334
15	31	300	‡ 190	188	‡ 180	630	560	289	107	56	112	8 170
16	34	268	‡ 170	196	‡ 180	420	525	306	98	131	78	1 750
17	58	455	‡ 160	188	‡ 200	382	1 510	363	101	152	81	890
18	2 280	289	‡ 170	188	‡ 280	346	1 040	247	90	93	76	630
19	228	2 900	188	238	‡ 500	630	710	228	93	71	98	560
20	188	1 290	188	209	2 900	2 280	595	205	81	65	414	455
21	145	710	205	188	845	1 870	525	363	78	58	196	395
22	118	595	233	311	490	890	490	209	81	56	1 400	340
23	124	490	258	284	490	670	420	192	81	52	3 230	279
24	95	420	238	219	455	560	388	196	71	52	5 570	334
25	90	401	670	188	395	525	357	192	63	48	755	274
26	76	490	630	382	455	560	351	167	76	52	455	238
27	171	323	289	268	340	560	306	152	81	54	376	219
28	184	328	800	284	263	455	289	171	81	48	306	219
29	107	311	455	233		407	279	156	76	48	268	233
30	95	263	382	196		346	268	490	73	46	205	196
31	76		388	188		340		263		46	180	

‡ Estimated, stage-discharge relation affected by ice.

North Branch of Raritan River at Milltown
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	184	145	93	‡ 140	‡ 148	‡ 76	1 520	214	149	93	60	49
2	354	138	83	‡ 400	‡ 185	‡ 90	795	214	134	88	75	46
3	257	138	83	283	‡ 160	‡ 250	478	592	121	80	219	53
4	219	138	99	278	‡ 135	‡1 000	670	630	112	115	108	93
5	219	124	112	485	‡ 120	‡6 000	478	466	108	91	68	68
6	197	152	108	885	‡ 108	2 730	414	354	112	86	64	47
7	188	152	115	2 020	‡ 100	446	710	283	105	80	62	68
8	184	138	99	1 240	‡ 95	354	466	224	96	145	66	1 030
9	167	131	96	555	‡ 90	273	384	188	91	115	64	710
10	159	131	‡ 70	472	‡ 90	224	354	188	96	86	99	224
11	152	118	‡ 75	372	‡ 92	252	326	224	184	80	88	167
12	152	118	‡ 70	326	‡ 100	197	840	180	121	78	99	149
13	159	124	‡ 67	315	‡ 125	294	420	145	238	70	452	134
14	145	124	‡ 66	459	‡ 110	247	452	197	124	70	167	124
15	145	121	‡ 66	310	‡ 118	210	478	247	105	141	99	433
16	138	‡ 80	‡ 82	273	‡ 130	219	630	294	93	141	149	321
17	378	73	145	252	‡ 105	219	630	201	88	86	180	1 180
18	321	99	304	‡ 210	‡ 90	238	459	188	86	68	108	414
19	188	105	176	‡ 220	‡ 85	214	440	171	1 290	62	112	283
20	167	105	283	‡ 192	‡ 84	214	555	156	472	60	93	257
21	152	105	485	‡ 182	‡ 86	201	433	180	228	62	73	197
22	152	105	262	‡ 180	‡ 150	188	390	156	192	62	68	192
23	159	105	192	426	‡ 140	‡ 150	343	273	210	53	62	180
24	156	118	184	310	‡ 90	‡ 125	304	163	176	46	70	332
25	278	99	167	243	‡ 80	‡ 120	408	299	149	44	75	171
26	167	93	171	252	‡ 78	149	304	520	124	83	62	156
27	159	105	‡ 125	219	‡ 75	219	294	247	118	68	57	141
28	156	93	‡ 106	219	‡ 75	1 640	278	205	205	57	60	127
29	145	96	‡ 97	‡ 170		670	243	197	124	78	62	115
30	152	99	‡ 92	‡ 140		414	252	188	108	80	53	7 670
31	145		‡ 90	‡ 130		840		163		66	49	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	229	102	132	0.695	0.80
November	200	74	110	.579	.65
December	400	29	119	.626	.72
Calendar year, 1928	6 580	29	360	1.89	25.75
January, 1929	2 580	60	312	1.64	1.89
February	6 010	65	566	2.98	3.10
March	1 290	173	431	2.27	2.62
April	3 940	164	709	3.73	4.16
May	940	182	375	1.97	2.27
June	314	94	160	.842	.94
July	233	44	75.6	.398	.46
August	137	27	45.3	.238	.27
September	1 040	23	122	.642	.74
Year ending Sept. 30, 1929	6 010	23	261	1.37	18.62
October	800	50	138	.726	.84
November	1 240	92	260	1.37	1.53
December	2 140	74	303	1.59	1.83
Calendar year, 1929	6 010	23	289	1.52	20.65
January, 1930	595	102	212	1.12	1.29
February	755	107	290	1.53	1.59
March	4 720	163	442	2.33	2.69
April	1 040	138	240	1.26	1.41
May	205	73	111	.584	.67
June	306	56	103	.542	.60
July	209	43	92.3	.486	.56
August	205	14	45.8	.241	.28
September	363	16	44.8	.236	.26
Year ending Sept. 30, 1930	4.720	14	190	1.00	13.55

‡ Estimated, stage-discharge relation affected by ice.

North Branch of Raritan River at Milltown
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	58	16	26.6	0.140	0.16
November	1 510	8	156	.821	.92
December	1 300	18	125	.658	.76
Calendar year, 1930	4 720	8	156	.821	11.19
January, 1931	1 090	78	195	1.03	1.19
February	990	31	246	1.29	1.34
March	3 580	142	380	2.00	2.31
April	630	124	255	1.34	1.50
May	800	110	241	1.27	1.46
June	1 400	93	331	1.74	1.94
July	1 870	93	249	1.31	1.51
August	263	67	109	.574	.66
September	490	45	81.4	.428	.48
Year ending Sept. 30, 1931	3 580	8	199	1.05	14.23
October	115	37	54.0	.284	.33
November	69	39	49.8	.262	.29
December	258	39	101	.532	.61
Calendar year, 1931	3 580	31	191	1.01	13.62
January, 1932	1 510	69	267	1.41	1.63
February	323	45	158	.832	.90
March	5 570	81	426	2.24	2.58
April	1 090	148	333	1.75	1.95
May	420	67	158	.832	.96
June	148	54	73.2	.385	.43
July	88	12	42.7	.225	.26
August	58	11	22.3	.117	.13
September	376	12	38.2	.201	.22
Year ending Sept. 30, 1932	5 570	11	144	.758	10.29
October	2 280	17	171	.900	1.04
November	4 720	188	858	4.52	5.04
December	670	160	278	1.46	1.68
Calendar year, 1932	5 570	11	235	1.24	16.82
January, 1933	382	188	241	1.27	1.46
February	2 900	160	393	2.07	2.16
March	2 280	200	534	2.81	3.24
April	2 740	268	633	3.33	3.72
May	990	152	318	1.67	1.92
June	388	63	122	.642	.72
July	167	46	76.7	.404	.47
August	5 570	45	488	2.57	2.96
September	8 170	134	684	3 60	4.02
Year ending Sept. 30, 1933	8 170	17	398	2.09	28.43
October	378	138	190	1.00	1.15
November	152	73	116	.611	.68
December	485	66	138	.726	.84
Calendar year, 1933	8 170	45	327	1.72	23.34
January, 1934	2 020	130	392	2.06	2.38
February	185	75	109	.574	.60
March	6 000	76	596	3.14	3.62
April	1 520	243	492	2.59	2.89
May	630	145	256	1.35	1.56
June	1 290	86	185	.974	1.09
July	145	44	81.7	.430	.50
August	452	49	101	.532	.61
September	7 670	46	504	2.65	2.96
Year ending Sept. 30,1934	7 670	44	264	1.39	18.88

Black River near Pottersville

LOCATION.- Water-stage recorder 1 mile above highway bridge at Pottersville, Somerset County, and 8 miles above mouth of Rockaway Creek.

DRAINAGE AREA.- 33 square miles.

RECORDS AVAILABLE.- June 1922 to September 1934. November 1921 to June 1922 at Pottersville 1 mile downstream.

AVERAGE DISCHARGE.- 13 years, 53.2 second-feet.

EXTREMES.- 1921-34: Maximum discharge, about 1 600 second-feet Nov. 17, 1927 (gage height, 4.75 feet); minimum, 1.3 second-feet Oct. 4, 1930.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	35	76	† 27	† 20	170	51	110	48	30	8.2	5.2
2	49	35	51	† 62	† 19	158	51	103	42	25	7.8	5.0
3	48	35	49	† 54	† 19	137	48	98	39	21	8.5	5.0
4	47	48	52	† 42	† 19	125	49	87	37	19	8.2	4.4
5	47	47	54	† 67	† 19	170	53	86	36	18	7.4	4.7
6	47	43	49	170	† 20	170	92	92	37	17	7.1	14
7	46	42	43	98	† 125	146	73	125	35	15	7.1	28
8	45	† 44	35	125	† 170	100	73	101	42	14	6.8	42
9	44	† 44	32	158	† 146	† 92	70	96	39	13	6.8	40
10	43	† 42	† 30	126	121	89	66	87	38	11	6.4	24
11	42	† 38	26	98	92	81	60	79	36	10	5.7	17
12	40	† 34	26	73	84	76	130	86	33	10	5.7	13
13	38	† 32	25	58	† 70	72	116	92	28	9.7	5.7	9.2
14	37	32	25	† 46	† 55	99	101	87	26	11	6.0	14
15	37	32	25	† 36	46	103	99	91	28	10	8.5	16
16	37	31	25	† 32	36	99	123	86	27	9.7	7.1	16
17	37	31	26	† 30	33	94	136	78	26	9.7	6.8	27
18	43	31	39	† 32	32	89	112	73	25	11	6.0	31
19	48	32	36	† 38	32	81	108	94	26	19	11	23
20	45	34	† 32	† 49	32	75	101	98	52	14	6.8	23
21	42	32	† 30	† 46	34	67	96	98	69	12	6.4	20
22	42	32	† 26	† 40	34	65	106	98	53	12	6.4	14
23	44	33	† 22	37	† 32	67	94	87	42	12	5.7	9.2
24	46	33	† 19	35	† 26	66	84	84	34	12	5.4	7.8
25	44	33	† 19	† 34	37	66	104	83	49	12	6.0	7.4
26	42	32	† 19	† 32	201	65	196	69	60	11	5.7	7.1
27	39	30	19	† 29	243	63	146	67	40	11	6.4	6.8
28	38	28	21	† 26	196	58	146	62	45	11	6.4	6.4
29	37	28	21	† 24		54	146	58	44	11	5.7	6.4
30	36	52	20	† 21		53	121	54	34	10	5.7	6.4
31	36		† 19	† 20		51		49		8.5	5.4	

† Estimated.

Black River near Pottersville
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	† 15	† 20	48	† 36	62	38	† 42	18	23	7.0	5.8
2	43	† 20	† 20	45	36	54	38	† 55	16	25	6.3	6.6
3	49	54	† 22	† 60	37	45	† 38	† 50	15	20	5.8	8.3
4	37	59	† 22	† 55	47	40	† 38	33	15	16	4.8	6.6
5	36	51	† 24	48	89	40	† 36	30	14	13	4.6	5.8
6	40	† 46	24	51	† 55	37	34	28	13	15	4.3	5.6
7	35	† 40	25	32	† 55	39	123	27	13	13	4.3	5.3
8	21	† 34	34	34	† 50	135	98	29	13	11	4.3	† 8
9	15	† 28	36	37	47	121	87	30	17	11	4.3	† 7
10	13	† 26	30	37	32	116	83	26	142	22	4.3	† 6
11	13	† 22	25	† 36	34	119	70	23	103	19	3.8	† 5
12	13	† 19	‡‡ 22	35	40	114	53	21	84	15	3.3	† 5
13	13	† 18	‡‡ 26	40	† 80	89	52	21	83	12	2.9	† 5
14	13	† 18	49	65	† 60	78	55	25	75	12	3.1	10
15	13	† 18	51	87	† 34	69	54	39	† 65	14	7.8	11
16	13	† 20	46	78	† 32	60	62	40	† 44	12	10	9.0
17	13	† 28	38	62	† 32	57	67	33	† 46	11	9.0	10
18	13	76	91	76	† 34	55	73	27	† 55	9.7	7.0	9.0
19	13	72	146	60	† 40	65	73	32	35	9.4	5.8	7.3
20	14	65	119	‡ 55	† 50	62	67	38	30	8.7	5.8	6.3
21	14	† 55	† 100	‡ 48	† 60	59	59	35	21	7.7	6.6	5.8
22	38	† 48	78	43	† 65	51	52	27	17	8.5	6.0	5.3
23	62	† 44	66	‡‡ 44	† 65	44	47	25	15	9.7	31	5.0
24	52	† 36	47	‡‡‡ 42	† 65	43	45	21	15	9.9	26	4.8
25	† 44	† 32	‡ 38	‡‡ 40	† 70	49	42	33	15	9.7	21	4.8
26	† 32	† 30	‡‡ 32	‡‡‡ 40	† 100	54	39	37	18	9.4	14	5.0
27	† 24	† 28	‡‡ 32	‡‡‡ 38	86	55	38	31	21	8.3	9.0	5.3
28	† 17	† 26	42	‡‡‡ 38	75	51	† 38	26	18	7.0	7.7	4.8
29	† 14	† 24	53	‡‡‡ 38		48	† 40	27	14	7.0	7.0	4.3
30	† 13	† 20	52	‡ 37		44	† 40	27	12	9.0	7.0	12
31	† 13		49	† 36		40		22		8.3	6.3	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.7	13	35	‡‡ 22	† 16	24	104	37	116	19	30	24
2	1.9	11	‡‡ 30	‡‡ 20	† 16	25	99	31	86	18	29	34
3	1.6	9.2	‡‡ 22	‡‡ 18	† 14	22	80	30	75	18	33	41
4	1.5	9.2	‡ 16	18	† 13	21	70	† 28	67	19	38	30
5	1.8	18	16	38	† 13	20	62	† 24	51	25	32	27
6	3.0	30	15	82	† 12	19	52	† 22	35	50	30	25
7	3.8	25	15	55	† 12	19	54	† 22	44	52	27	24
8	3.8	16	16	‡‡ 44	13	62	57	† 24	106	50	24	23
9	3.8	13	15	‡‡‡ 38	26	88	56	† 40	73	61	25	21
10	4.3	12	14	‡ 30	41	78	52	† 65	78	276	28	19
11	4.3	11	14	† 28	26	72	48	64	93	233	34	17
12	4.8	10	15	† 28	22	55	43	62	78	158	40	16
13	4.8	10	15	† 26	99	36	38	52	67	146	37	16
14	4.8	11	13	† 22	119	30	34	50	57	135	36	16
15	5.5	26	11	† 19	69	29	31	48	45	118	38	18
16	5.7	42	‡ 10	† 14	45	29	29	43	90	104	40	16
17	6.5	66	‡ 10	† 14	47	28	28	† 36	120	100	35	18
18	8.3	156	11	16	119	27	27	† 30	84	100	30	18
19	8.0	83	11	33	86	† 26	25	25	70	99	30	17
20	7.4	66	11	36	76	27	24	25	64	86	29	17
21	6.8	59	8.9	25	52	35	23	58	55	75	25	18
22	6.8	† 30	8.9	‡ 16	34	33	23	64	41	64	23	16
23	6.8	22	8.9	‡ 16	30	30	50	134	35	57	23	16
24	7.1	18	9.6	16	28	27	49	93	36	52	22	15
25	7.1	19	14	15	26	36	48	78	34	49	21	14
26	7.1	18	13	† 16	25	41	65	69	31	45	20	16
27	6.8	16	79	† 22	24	38	72	51	29	42	30	16
28	7.4	‡ 13	54	† 26	23	45	64	38	24	39	32	15
29	8.3	‡ 10	46	† 26		180	62	32	22	36	30	15
30	8.9	13	36	† 22		114	50	28	20	35	27	14
31	14		‡ 24	† 18		99		94		32	25	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Black River near Pottersville
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	22	23	16	‡ 42	37	174	67	22	23	5.0	10.0
2	13	20	22	33	‡ 36	37	137	73	22	37	6.0	22
3	13	18	18	† 46	31	36	120	67	22	29	6.8	14.0
4	12	17	28	† 40	39	34	108	65	22	30	6.2	12.2
5	12	16	39	† 34	64	32	97	56	19.1	28	5.7	9.4
6	12	16	37	† 55	59	42	85	48	17.2	25	6.5	10.4
7	12	15	30	† 100	55	59	74	49	15.8	22	6.2	8.7
8	14	14	24	† 110	54	50	67	50	15.3	19.6	5.3	8.7
9	16	14	27	† 110	51	‡ 46	66	50	15.3	16.7	5.0	7.3
10	16	14	39	† 100	46	‡ 42	82	49	14.8	14.0	6.4	5.9
11	16	14	41	† 80	56	‡ 38	85	45	14.4	12.2	9.9	5.0
12	16	16	41	† 60	55	37	106	44	17.0	10.9	10.2	4.6
13	15	15	39	† 48	56	36	94	45	23	9.3	7.9	4.4
14	14	14	36	† 42	51	‡ 30	89	42	24	9.0	6.2	4.2
15	15	14	32	† 38	42	‡ 28	80	39	22	8.7	5.6	4.4
16	22	14	26	† 34	36	‡ 30	74	36	23	8.3	5.3	4.6
17	20	14	21	† 30	31	35	66	34	24	8.7	4.8	4.6
18	20	15	19	† 28	34	45	59	32	23	9.4	8.6	4.6
19	18	15	18	† 28	‡ 30	44	55	31	21	9.4	10.6	4.0
20	14	16	18	† 26	30	43	52	30	19.1	9.4	11.3	3.8
21	14	16	18	26	‡ 30	42	50	29	17.6	9.0	9.4	3.8
22	14	15	20	29	27	65	48	27	24	9.0	7.6	3.8
23	14	15	27	33	27	69	46	26	22	10.2	6.2	4.0
24	14	14	30	40	‡ 24	66	44	24	23	9.8	5.0	4.0
25	13	14	29	39	‡ 22	62	44	24	21	9.4	4.8	3.2
26	13	14	24	35	25	54	49	24	17.2	8.3	4.4	3.0
27	12	14	‡ 18	39	27	52	52	24	24	7.6	4.6	3.0
28	13	14	‡ 16	41	32	216	51	37	32	7.0	4.2	7.5
29	18	14	‡ 16	41	36	144	48	34	27	7.0	3.8	7.9
30	21	19	‡ 15	50		128	45	28	25	6.4	3.4	8.3
31	23		‡ 14	50		151		24		5.6	7.2	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.0	135	67	70	43	76	118	68	54	23	9.0	47
2	5.9	114	66	62	42	68	126	67	51	27	8.7	41
3	5.3	89	63	54	43	63	114	76	47	35	9.1	41
4	4.8	84	62	52	42	60	126	74	40	32	14.8	81
5	8.6	82	61	51	40	57	116	68	41	30	13.0	59
6	72	73	59	49	40	54	108	84	54	28	12.2	46
7	63	140	57	48	47	64	126	101	45	27	10.9	44
8	50	99	56	46	96	122	114	89	44	22	9.4	44
9	44	84	54	49	73	96	105	85	40	18.1	9.0	44
10	41	218	51	53	‡ 50	87	99	110	37	16.7	9.6	41
11	29	139	48	55	‡ 60	70	92	90	32	15.3	28	38
12	18.1	126	54	62	‡ 55	79	174	80	30	14.4	20	35
13	14.8	118	56	57	‡ 46	77	160	78	33	14.0	18.1	30
14	14.0	107	54	53	‡ 46	108	139	73	30	13.5	24	68
15	13.5	90	51	51	59	107	137	68	29	12.2	22	290
16	12.6	76	‡ 44	47	62	99	128	72	27	18.8	21	184
17	21	80	‡ 44	45	54	94	214	76	27	19.6	20	164
18	105	70	‡ 50	44	56	90	198	66	25	18.1	21	172
19	73	300	‡ 55	51	60	97	167	62	24	16.6	23	160
20	65	220	‡ 55	52	146	133	153	62	18.6	14.8	29	135
21	65	180	‡ 50	51	137	186	135	63	18.6	14.0	26	112
22	62	172	‡ 55	57	103	160	120	57	18.6	13.0	86	94
23	55	148	60	60	110	148	108	55	17.6	12.2	151	79
24	43	126	‡ 70	57	114	139	97	54	16.7	10.9	214	79
25	32	107	‡ 85	55	103	124	94	53	16.7	11.3	135	67
26	24	105	80	60	96	120	89	48	16.2	11.3	137	62
27	37	85	79	59	73	118	82	44	16.7	11.3	141	59
28	40	76	107	57	63	112	79	42	17.2	11.3	120	55
29	38	70	92	54		103	76	43	17.2	10.6	94	56
30	32	67	82	49		96	72	67	18.5	9.4	73	54
31	26		79	46		90		59		8.7	57	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Black River near Pottersville
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	40	27	‡ 30	‡ 34	‡ 25	167	59	45	26	21	15.8
2	67	38	25	‡ 60	‡ 40	‡ 28	124	55	40	24	32	14.9
3	56	37	24	‡ 43	‡ 34	‡ 40	116	87	35	25	36	14.4
4	54	35	28	‡ 38	‡ 31	‡ 100	133	103	33	30	29	26
5	54	34	30	‡ 46	‡ 29	378	116	89	32	26	27	19.9
6	53	36	31	‡ 80	‡ 28	241	101	84	30	25	26	18.3
7	51	38	32	‡ 115	‡ 27	192	108	79	28	26	25	24
8	48	38	32	124	‡ 26	153	99	68	26	37	22	108
9	47	38	29	103	‡ 26	‡ 90	89	59	25	30	20	86
10	44	37	‡ 21	99	‡ 27	‡ 66	85	57	30	27	19.9	63
11	42	35	‡ 23	92	‡ 28	† 80	99	61	41	27	19.9	68
12	40	34	‡ 20	80	‡ 26	† 60	139	55	37	26	39	69
13	40	34	‡ 20	79	‡ 26	† 84	110	54	48	25	61	66
14	39	34	‡ 21	79	† 26	† 70	108	53	35	33	41	58
15	37	33	‡ 20	66	† 28	† 60	110	62	32	37	38	69
16	36	‡ 30	30	61	† 27	† 76	126	65	29	29	46	62
17	60	‡ 27	44	55	† 25	† 73	124	59	26	22	50	158
18	57	27	52	‡ 47	† 25	† 67	103	56	24	19.1	43	85
19	50	30	45	50	† 25	† 64	96	54	196	17.2	38	74
20	49	30	53	46	† 25	† 59	101	50	106	16.2	33	73
21	49	30	68	41	† 26	54	92	50	80	15.8	28	71
22	50	30	60	39	† 35	51	82	49	80	13.5	24	67
23	50	31	54	72	† 33	† 45	78	54	84	13.0	21	61
24	54	30	52	62	† 27	† 41	76	47	66	12.6	24	53
25	57	29	49	61	† 26	† 40	84	69	52	22	21	46
26	50	28	40	62	‡ 25	† 42	74	80	42	17.2	19.4	42
27	47	28	40	63	‡ 24	45	72	68	38	15.3	18.8	38
28	45	28	‡ 32	60	‡ 24	131	68	67	39	25	19.9	35
29	44	27	‡ 27	52		97	65	66	33	22	19.4	182
30	43	27	‡ 25	‡ 33		89	61	61	29	21	17.8	308
31	42		‡ 24	‡ 30		120		52		21	16.7	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	54	36	42.6	1.29	1.49
November	52	28	35.8	1.08	1.20
December	76	19	32.0	.970	1.12
Calendar year, 1928	283	19	79.5	2.41	32.89
January, 1929	170	20	56.9	1.72	1.98
February	243	19	71.2	2.16	2.25
March	170	51	93.6	2.84	3.27
April	196	48	98.4	2.98	3.32
May	125	49	85.7	2.60	3.00
June	69	25	38.9	1.18	1.32
July	30	8.5	13.5	.404	.37
August	11	5.4	6.74	.204	.24
September	40	4.4	15.1	.458	.51
Year ending Sept. 30, 1929	243	4.4	49.0	1.48	20.07
October	62	7.0	24.2	.733	.85
November	76	15	35.7	1.08	1.20
December	146	20	47.3	1.43	1.65
Calendar year, 1929	243	4.4	48.8	1.48	19.96
January, 1930	87	32	47.9	1.45	1.67
February	† 100	32	53.8	1.63	1.70
March	135	37	64.4	1.95	2.25
April	123	34	56.0	1.70	1.90
May	† 55	21	30.9	.936	1.08
June	142	12	35.4	1.07	1.19
July	25	7.0	12.5	.379	.44
August	31	2.9	8.07	.246	.28
September	12	4.3	6.66	.202	.22
Year ending Sept. 30, 1930	146	2.9	35.1	1.06	14.43

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Black River near Pottersville
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	14	1.5	5.69	0.172	0.20
November	156	9.2	28.5	.864	.98
December	79	8.9	19.9	.603	.70
Calendar year, 1930	156	1.5	30.6	.927	12.59
January, 1931	82	14	26.4	.800	.92
February	119	12	40.2	1.22	1.27
March	180	19	45.6	1.38	1.59
April	104	23	50.6	1.53	1.71
May	134	22	48.3	1.46	1.68
June	120	20	60.9	1.85	2.06
July	276	18	77.2	2.34	2.70
August	40	20	29.8	.903	1.04
September	41	14	19.7	.597	.67
Year ending Sept. 30, 1931	276	1.5	37.7	1.14	15.50
October	23	12	15.3	.464	.53
November	22	14	15.4	.467	.52
December	41	14	26.0	.788	.91
Calendar year, 1931	276	12	37.9	1.15	15.60
January, 1932	110	16	47.8	1.45	1.67
February	64	22	39.6	1.20	1.29
March	216	28	59.0	1.79	2.06
April	174	44	74.9	2.27	2.53
May	73	24	40.4	1.22	1.41
June	32	14.4	21.0	.636	.71
July	37	5.6	13.8	.418	.48
August	11.3	3.4	6.45	.195	.22
September	22	3.0	6.71	.203	.23
Year ending Sept. 30, 1932	216	3.0	30.5	.924	12.56
October	105	4.8	36.2	1.10	1.27
November	300	67	119	3.61	4.03
December	107	44	62.8	1.90	2.19
Calendar year, 1932	300	3.0	43.9	1.33	18.09
January, 1933	70	44	53.4	1.62	1.87
February	146	40	70.0	2.12	2.21
March	186	54	99.9	3.03	3.49
April	214	72	122	3.70	4.13
May	110	42	68.8	2.08	2.40
June	54	16.2	30.1	.912	1.02
July	35	8.7	17.4	.527	.61
August	214	8.7	50.6	1.53	1.76
September	290	30	82.7	2.51	2.80
Year ending Sept. 30, 1933	300	4.8	67.5	2.05	27.78
October	67	36	49.0	1.48	1.71
November	40	27	32.4	.982	1.10
December	68	20	34.8	1.05	1.21
Calendar year, 1933	290	8.7	59.1	1.79	24.31
January, 1934	124	30	63.5	1.92	2.21
February	40	24	28.0	.848	.88
March	378	25	89.1	2.70	3.11
April	167	61	100	3.03	3.38
May	103	47	63.6	1.93	2.22
June	196	24	48.0	1.45	1.62
July	37	12.6	23.4	.709	.82
August	61	16.7	28.9	.876	1.01
September	308	14.4	69.2	2.10	2.34
Year ending Sept. 30, 1934	378	12.6	52.6	1.59	21.61

Millstone River near Kingston

LOCATION.- Water-stage recorder at Princeton sewage disposal plant, 1 mile downstream from Heathcots Brook, Kingston, Middlesex County. Zero of gage is 38.00 feet above mean sea level.

DRAINAGE AREA.- 171 square miles.

RECORDS AVAILABLE.- May 1933 to September 1934.

EXTREMES.- 1933-34: Maximum discharge, about 4 950 second-feet Aug. 24, 1933 (gage height, 10.60 feet); minimum daily discharge, 25 second-feet July 14, Aug. 1, 1933.

REMARKS.- Delaware & Raritan Canal parallels the river for some distance; canal loses water to river by leakage, seepage, and flow over spillways. Town of Princeton furnished part of equipment and operates gage.

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									256	† 110	† 25	225
2									190	† 98	† 26	212
3									145	† 150	28	† 225
4									137	† 190	138	† 540
5									186	† 130	95	† 400
6									442	† 110	68	† 330
7									347	† 90	54	† 275
8									286	76	48	† 245
9									196	61	41	† 225
10									167	58	40	† 195
11									145	57	70	† 140
12									113	† 80	101	† 130
13									118	† 32	† 95	† 120
14									128	† 25	† 105	† 700
15									131	† 40	99	†1 000
16									139	† 80	89	†1 500
17									143	† 110	81	† 730
18									† 130	† 84	66	508
19									† 115	† 65	57	382
20									† 100	† 55	65	302
21									† 90	† 48	92	233
22									† 85	† 42	401	187
23									† 120	† 39	700	124
24								139	† 105	† 37	3 190	153
25								158	87	† 34	1 120	132
26								152	83	† 32	704	152
27								130	81	† 35	455	93
28								† 450	80	† 37	310	128
29								† 300	76	† 35	378	188
30								† 250	71	† 31	494	193
31								† 300		† 27	347	

†- Estimated.

Millstone River near Kingston
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	206	112	86	150	‡ 100	‡ 76	1 030	154	118	83	95	73
2	198	112	95	349	‡ 106	95	688	142	† 106	82	86	75
3	178	106	84	269	‡ 100	220	521	495	† 95	82	83	72
4	147	100	97	262	‡ 94	796	393	1 070	† 85	92	78	89
5	126	95	112	484	‡ 98	‡2 640	336	880	† 96	84	78	82
6	69	113	128	1 420	‡ 95	‡2 140	304	593	† 96	83	75	84
7	91	147	112	1 370	‡ 90	963	326	405	† 94	81	77	93
8	† 110	162	108	1 470	‡ 84	578	358	297	† 92	81	78	239
9	† 108	158	100	842	‡ 78	382	315	223	† 89	82	81	† 600
10	† 100	135	90	593	‡ 73	‡ 300	272	179	89	83	84	† 270
11	95	128	84	430	‡ 70	‡ 230	240	146	106	85	77	† 300
12	98	108	83	335	‡ 77	‡ 200	494	144	204	88	82	† 230
13	98	122	86	318	‡ 85	‡ 220	358	140	457	81	116	† 170
14	101	124	87	442	‡ 84	‡ 380	315	140	246	85	106	† 130
15	97	108	83	347	‡ 82	‡ 430	249	163	174	97	101	110
16	95	112	83	315	‡ 76	‡ 405	313	189	132	88	106	106
17	121	115	103	246	‡ 70	‡ 370	562	179	110	83	102	351
18	196	103	162	181	‡ 65	‡ 382	405	148	98	81	100	1 590
19	160	† 100	188	172	‡ 72	‡ 382	347	132	348	77	89	1 230
20	143	† 110	241	145	‡ 82	‡ 326	326	113	410	81	77	599
21	124	† 122	442	130	‡ 80	‡ 315	304	107	240	77	76	347
22	115	† 120	335	133	‡ 82	‡ 243	260	122	189	76	82	243
23	112	† 115	307	246	‡ 92	‡ 210	223	242	146	78	67	174
24	118	† 112	243	323	‡ 106	‡ 188	201	207	122	76	77	265
25	117	110	172	266	‡ 86	‡ 182	287	229	110	88	75	218
26	126	105	152	222	‡ 78	189	258	326	102	88	82	215
27	117	100	128	176	‡ 73	215	201	258	102	80	81	191
28	108	108	† 110	167	‡ 73	564	204	215	101	78	92	157
29	105	105	† 95	148	‡	442	177	165	94	88	85	142
30	105	97	† 92	‡ 128		347	161	142	86	95	77	585
31	113		† 95	‡ 116		405		127		101	77	

Monthly and annual discharge, in second-feet, 1933-34

Month	Maximum	Minimum	Mean
May 24-31, 1933	450	130	235
June	442	71	150
July	190	25	67.7
August	3 190	25	309
September	1 500	93	332
Year ending Sept. 30, 1933			
October	206	69	122
November	162	95	115
December	442	83	141
Calendar year, 1933			
January, 1934	1 470	116	393
February	106	65	84.0
March	2 640	76	478
April	1 030	161	348
May	1 070	107	260
June	457	85	151
July	101	76	84.0
August	116	67	85.2
September	1 590	72	301
Year ending Sept. 30, 1934	2 640	65	215

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Millstone River at Blackwells Mills

LOCATION.- Water-stage recorder at highway bridge in Blackwells Mills, Somerset County, a quarter of a mile below mouth of Middlebrush Brook.

DRAINAGE AREA.- 258 square miles,

RECORDS AVAILABLE.- August 1921 to September 1934. June 1903 to December 1904, gage heights only, at Millstone 1¾ miles downstream.

AVERAGE DISCHARGE.- 12 years, (1922-34), 352 second-feet.

EXTREMES.- 1921-34: Maximum discharge, about 7 000 second-feet Oct. 18, 1927; maximum gage height, about 11.0 feet Apr. 7, 1924 and Sept. 7, 1926; minimum discharge, about .5 second-feet Sept. 16, 1923.

REMARKS.- Delaware & Raritan Canal parallels the river for some distance; canal loses water to river by leakage, seepage, and flow over spillways.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	288	140	388	233	223	1 550	251	550	191	133	53	44
2	251	140	326	550	216	1 200	216	479	170	120	53	44
3	233	152	251	388	157	1 340	213	434	167	102	51	46
4	207	191	213	269	154	985	207	346	165	95	55	43
5	194	226	203	200	126	1 990	251	346	162	89	55	47
6	269	207	207	1 220	129	2 970	388	346	152	105	53	86
7	233	188	185	1 010	1 180	1 910	306	479	157	92	52	81
8	191	185	179	650	675	1 030	269	388	157	86	53	675
9	188	165	165	575	550	775	233	346	157	131	52	1 020
10	167	157	157	675	650	479	251	306	152	269	52	434
11	160	† 150	160	775	502	456	288	269	157	99	50	411
12	149	† 150	160	525	411	434	903	233	149	40	52	326
13	147	† 150	162	411	367	434	1 000	230	140	28	48	216
14	131	† 150	165	‡ 320	306	525	600	251	135	25	55	191
15	137	† 150	167	‡ 260	233	550	479	269	131	24	69	160
16	140	† 150	167	210	167	550	1 560	251	131	25	64	140
17	144	† 140	170	185	170	456	2 730	207	131	28	58	137
18	152	† 140	456	251	176	388	1 690	203	124	58	54	111
19	306	† 140	411	367	188	346	1 040	1 360	118	63	57	96
20	388	140	306	388	129	326	675	1 260	129	54	54	92
21	306	144	251	306	126	306	614	985	251	49	51	85
22	306	157	220	251	194	269	1 610	775	197	55	50	79
23	233	149	213	388	142	397	1 210	502	142	62	51	82
24	197	147	207	456	114	521	830	388	124	63	49	81
25	176	129	251	434	176	326	625	306	120	59	45	78
26	170	126	226	456	1 400	306	980	269	223	56	47	78
27	167	120	223	‡ 440	3 660	306	650	233	226	58	47	74
28	154	120	306	‡ 360	2 450	269	557	223	188	63	47	72
29	149	118	326	‡ 320		251	1 020	251	173	58	53	74
30	147	126	233	‡ 280		233	675	326	144	60	49	84
31	147		182	269		233		233		55	46	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Millstone River at Blackwells Mills
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	200	109	550	269	502	251	162	105	77	60	36
2	675	188	251	502	140	434	216	167	99	90	55	32
3	725	550	230	575	233	367	220	147	99	81	50	32
4	411	725	203	434	306	306	210	135	102	88	47	29
5	367	456	173	388	1 260	288	210	137	96	95	47	29
6	269	388	170	326	940	251	200	126	93	112	46	30
7	191	306	147	288	675	233	456	129	89	118	46	28
8	154	251	165	288	550	2 050	479	131	88	90	43	18
9	131	216	176	269	456	2 320	367	126	96	79	43	19
10	118	200	226	251	346	1 120	306	120	775	118	42	30
11	114	191	233	223	306	830	251	111	575	140	40	30
12	111	188	185	230	223	830	233	107	288	129	41	30
13	103	188	269	251	940	650	251	109	269	112	38	29
14	99	200	306	575	1 850	502	288	111	200	92	38	28
15	96	213	251	885	1 340	434	288	216	140	82	41	19
16	112	197	251	650	1 090	411	306	233	120	77	48	19
17	112	194	233	550	1 220	411	388	203	107	74	50	25
18	114	575	775	885	885	367	411	160	194	69	52	18
19	105	775	2 150	1 010	575	525	411	160	288	65	52	13
20	95	479	1 120	725	600	502	367	182	216	60	49	32
21	96	388	600	575	650	456	306	162	213	57	49	40
22	122	306	434	525	625	367	288	140	126	60	46	45
23	306	251	388	456	625	326	251	129	74	67	87	44
24	233	233	479	525	725	306	233	114	52	107	93	43
25	226	223	367	326	775	326	216	122	88	207	75	42
26	203	216	306	326	1 220	388	203	120	65	135	116	45
27	149	210	233	103	1 010	346	194	116	95	133	87	44
28	126	223	197	92	725	326	182	116	87	131	68	42
29	120	185	326	88		269	179	124	74	102	63	42
30	133	194	411	176		251	170	114	67	72	56	44
31	185		456	388		251		105		63	38	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	95	119	223	86	220	965	159	273	90	73	90
2	35	88	100	160	83	278	1 340	151	229	78	65	78
3	35	86	106	252	75	252	845	148	181	73	70	78
4	36	84	102	117	75	249	675	148	139	76	76	80
5	34	100	100	129	67	252	480	141	125	70	72	73
6	41	100	104	912	67	238	374	132	112	81	65	65
7	43	100	100	565	58	220	470	130	104	110	55	57
8	41	90	102	‡ 300	58	990	885	393	928	148	57	56
9	40	61	100	‡ 240	316	1 450	550	440	461	148	43	54
10	41	66	97	190	887	865	458	330	487	340	108	50
11	40	66	97	153	408	675	350	330	1 020	2 120	772	50
12	40	69	100	153	290	480	310	310	509	594	1 260	52
13	57	66	95	199	513	366	278	338	358	270	638	44
14	62	69	69	184	825	306	232	382	274	208	378	47
15	69	132	72	‡ 150	480	274	217	362	226	310	322	48
16	93	139	83	119	314	252	202	302	1 560	208	252	41
17	84	214	66	108	287	256	193	226	2 590	148	190	44
18	81	298	64	95	1 540	260	175	193	1 660	134	159	61
19	93	226	62	586	866	235	167	170	915	136	130	54
20	117	187	58	580	650	252	162	167	525	134	112	52
21	44	159	45	338	480	302	156	196	346	417	102	53
22	41	130	50	‡ 240	358	274	148	274	242	1 390	95	50
23	56	102	72	‡ 200	298	246	175	698	211	539	91	54
24	67	104	70	151	242	226	184	419	211	342	119	55
25	52	112	61	114	220	217	175	278	190	278	114	44
26	34	99	65	110	220	208	205	235	170	196	104	53
27	54	84	700	114	220	199	338	202	146	148	104	64
28	64	90	885	123	205	193	246	175	127	121	88	60
29	76	104	466	121		1 720	202	153	114	108	90	61
30	78	104	462	108		1 550	175	132	104	99	88	61
31	97		330	99		905		123		91	90	

‡ Estimated, stage-discharge relation affected by ice.

Millstone River at Blackwells Mills
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	57	91	73	90	223	143	1 280	220	86	† 80	88	248
2	56	75	73	480	190	108	835	374	97	† 110	96	662
3	54	75	75	575	199	99	615	249	93	† 150	68	180
4	49	75	66	350	229	136	448	199	86	† 65	58	129
5	52	67	125	294	871	123	378	162	75	52	50	104
6	52	57	121	408	650	324	338	148	75	48	50	209
7	53	58	110	1 910	502	1 320	306	153	72	51	48	140
8	56	69	80	1 130	444	657	270	153	67	50	42	86
9	66	69	81	1 280	291	‡‡ 500	246	190	75	45	41	72
10	69	72	172	1 430	148	‡‡ 360	480	184	67	34	42	54
11	66	64	164	1 120	282	298	945	162	66	36	53	41
12	56	61	148	825	298	252	1 320	151	67	34	37	40
13	56	64	121	675	294	223	1 050	220	90	40	35	40
14	56	57	127	525	226	196	768	252	110	40	32	42
15	56	57	125	471	190	‡ 160	528	211	117	37	31	41
16	75	56	108	374	170	‡ 150	404	167	114	37	33	42
17	83	58	93	290	178	187	334	143	110	48	36	63
18	75	72	81	294	246	278	294	130	119	54	34	48
19	69	54	78	246	226	274	260	130	108	37	40	44
20	61	57	75	220	178	238	232	117	91	35	42	41
21	61	61	78	217	153	220	214	108	86	42	44	41
22	76	61	90	214	151	509	199	104	84	47	38	40
23	76	54	151	202	156	632	172	108	61	52	36	41
24	75	61	164	249	136	435	156	112	44	48	39	53
25	70	56	146	260	132	362	164	104	40	41	41	43
26	61	47	136	214	139	318	190	100	40	43	39	42
27	56	49	139	249	148	294	214	97	73	44	39	44
28	60	54	83	294	130	4 100	196	104	260	51	46	48
29	104	58	78	330	153	3 940	172	91	† 120	48	36	45
30	127	67	130	290		1 700	151	91	† 85	52	33	41
31	132		125	266		1 050		90		67	54	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	1 090	217	634	246	277	404	171	400	† 140	28	† 320
2	39	1 880	211	422	252	256	475	166	294	† 120	30	† 240
3	40	574	208	346	230	260	460	168	230	† 200	28	† 300
4	38	404	205	326	205	239	1 110	199	253	† 240	139	† 800
5	49	314	194	330	188	214	958	182	211	† 170	135	† 600
6	183	236	180	299	‡ 160	200	786	230	† 600	140	81	† 480
7	280	1 240	178	277	180	204	1 520	576	† 460	118	64	† 400
8	155	1 150	152	230	887	963	1 010	430	† 340	93	54	† 360
9	110	578	150	550	638	591	726	726	† 280	75	49	† 340
10	81	3 790	140	925	‡ 320	396	529	1 070	† 220	71	42	† 280
11	62	2 940	136	583	‡‡ 240	277	413	871	† 190	75	108	† 200
12	64	1 220	221	512	‡‡ 200	239	1 220	624	† 150	113	134	† 190
13	62	790	322	387	‡‡ 220	283	2 570	484	† 160	33	120	† 170
14	52	521	346	326	‡‡ 220	1 350	1 270	374	† 160	26	148	† 880
15	48	387	299	307	239	1 020	901	317	† 170	52	143	†1 600
16	48	334	‡‡ 200	288	270	860	652	290	† 180	98	116	†2 400
17	70	338	‡‡ 160	280	266	637	1 000	418	† 180	148	102	†1 200
18	1 330	322	‡‡ 160	243	312	462	1 240	341	† 170	116	91	† 700
19	677	2 500	162	260	526	707	846	272	† 140	93	89	† 600
20	358	4 850	157	263	1 520	1 970	602	262	† 130	73	81	† 460
21	284	1 210	152	230	2 010	3 140	460	624	† 110	64	109	† 300
22	202	1 030	162	227	1 030	2 510	374	325	100	54	784	† 280
23	155	668	165	263	799	1 370	321	243	† 150	47	1 080	† 190
24	129	480	218	243	554	936	286	208	† 130	44	5 150	† 240
25	123	379	733	217	444	685	253	253	† 110	41	2 680	† 200
26	123	391	1 020	473	493	674	243	217	† 100	39	1 160	† 240
27	155	330	767	583	375	779	227	190	† 95	45	692	† 190
28	180	280	1 650	516	311	680	208	609	† 95	46	422	† 190
29	167	243	1 200	452		565	190	378	† 90	42	464	† 300
30	148	227	919	354		441	174	333	† 90	38	726	† 300
31	120		880	284		374		362		33	484	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Millstone River at Blackwells Mills
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	† 270	† 127	93	270	145	‡ 93	2 100	222	142	98	106	76
2	† 245	† 127	98	735	153	116	1 210	204	132	96	116	76
3	† 210	† 121	93	421	138	327	825	719	112	96	98	73
4	† 180	† 115	96	362	125	1 920	635	1 600	101	106	85	88
5	† 150	† 107	116	905	132	4 300	535	1 510	116	101	85	85
6	† 110	† 139	132	2 150	‡ 124	3 500	451	885	116	96	83	83
7	† 80	† 178	128	2 040	114	1 720	561	587	112	96	78	106
8	† 125	† 188	119	2 510	103	868	568	404	112	98	85	415
9	† 120	† 188	109	1 560	93	561	463	327	106	98	85	980
10	† 112	† 158	96	942	‡ 85	433	388	278	98	98	93	433
11	† 108	† 151	93	649	85	352	365	231	132	98	112	499
12	† 108	† 130	† 90	487	96	302	970	204	170	101	99	378
13	† 109	† 132	† 93	488	106	326	574	192	560	90	204	268
14	† 112	† 139	† 95	765	103	587	469	188	288	106	† 140	200
15	† 108	† 130	† 90	517	101	670	399	217	209	119	† 115	171
16	† 111	† 118	90	445	93	587	522	258	164	116	† 160	164
17	† 150	† 121	115	362	83	548	992	231	132	103	† 125	658
18	† 250	112	226	283	73	561	614	196	112	98	116	1 220
19	† 200	101	245	263	80	554	511	171	510	90	101	1 610
20	† 165	112	370	231	101	451	481	149	599	93	88	831
21	† 145	128	765	200	93	433	439	132	292	93	80	427
22	† 133	128	469	192	96	342	367	138	231	85	85	307
23	† 125	122	388	404	112	292	327	285	204	88	76	240
24	† 130	125	337	475	132	254	302	249	164	85	76	302
25	† 127	116	258	357	112	249	427	270	138	106	76	278
26	† 140	106	213	322	‡ 95	268	373	439	128	101	83	258
27	† 130	109	209	268	88	302	302	312	125	96	83	240
28	† 124	109	171	258	88	1 010	307	254	122	88	98	200
29	† 118	109	135	‡ 220		769	268	204	116	96	98	183
30	† 113	103	‡ 120	‡ 180		505	235	179	101	98	85	1 050
31	† 118		‡ 120	‡ 155		792		156		112	85	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean
October, 1928	388	131	201
November	226	118	152
December	456	157	233
Calendar year, 1928	3 410	118	428
January, 1929	1 220	185	433
February	3 660	114	535
March	2 970	233	713
April	2 730	207	744
May	1 360	203	421
June	251	118	159
July	269	24	74.3
August	69	45	52.4
September	1 020	43	173
Year ending Sept. 30, 1929	3 660	24	323
October	725	95	197
November	775	185	304
December	2 150	109	381
Calendar year, 1929	3 660	24	347
January, 1930	1 010	88	433
February	1 850	140	734
March	2 320	233	547
April	479	170	278
May	233	105	140
June	775	52	166
July	207	57	96.2
August	116	38	55.0
September	45	13	31.9
Year ending Sept. 30, 1930	2 320	13	277

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Millstone River at Blackwells Mills
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean
October, 1930	117	34	57.6
November	298	61	114
December	885	45	161
Calendar year, 1930	2 320	13	231
January, 1931	912	95	230
February	1 540	58	364
March	1 720	193	465
April	1 340	148	378
May	698	123	253
June	2 590	104	485
July	2 120	70	297
August	1 260	43	193
September	90	41	57.6
Year ending Sept. 30, 1931	2 590	34	254
October	132	49	68.2
November	91	47	62.5
December	172	66	110
Calendar year, 1931	2 590	41	246
January, 1932	1 910	90	509
February	871	130	253
March	4 100	99	632
April	1 320	151	439
May	374	90	156
June	260	40	89.3
July	150	34	52.2
August	96	31	45.2
September	662	40	92.1
Year ending Sept. 30, 1932	4 100	31	209
October	1 330	38	180
November	4 850	227	1 020
December	1 650	136	383
Calendar year, 1932	4 850	31	320
January, 1933	925	217	375
February	2 010	160	476
March	3 140	200	760
April	2 570	174	714
May	1 070	166	384
June	600	90	200
July	240	26	86.7
August	5 150	28	501
September	2 400	170	498
Year ending Sept. 30, 1933	5 150	26	463
October	270	80	143
November	188	101	128
December	765	90	186
Calendar year, 1933	5 150	26	370
January, 1934	2 510	155	626
February	153	73	105
March	4 300	93	774
April	2 100	235	566
May	1 600	132	367
June	599	98	188
July	119	85	98.2
August	204	76	100
September	1 610	73	397
Year ending Sept. 30, 1934	4 300	73	308

Green Brook at Bound Brook

LOCATION.- Staff gage near State highway bridge at Bound Brook, Middlesex County, half a mile above mouth.

DRAINAGE AREA.- 49 square miles.

RECORDS AVAILABLE.- June 1923 to February 1931 (discontinued).

AVERAGE DISCHARGE.- 7 years, 73.7 second-feet.

REMARKS.- Daily discharge not sufficiently accurate for publication. Diversions by pumping from well fields above station. Plainfield sewage empties into brook 3 miles above station. No correction applied for diversions or sewage inflow.

Monthly and annual discharge, in second-feet, 1928-31

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	100	35	45.5	0.929	1.07
November	45	32	38.8	.792	.88
December	160	35	45.9	.937	1.08
Calendar year, 1928	1 500	32	87.5	1.79	24.28
January, 1929	360	42	71.4	1.46	1.68
February	800	38	112	2.29	2.38
March	550	67	115	2.35	2.71
April	550	59	126	2.57	2.87
May	180	56	87.3	1.78	2.05
June	56	20	37.8	.771	.86
July	38	13	29.2	.596	.69
August	35	8	20.0	.408	.47
September	83	12	41.3	.843	.94
Year ending Sept. 30, 1929	800	8	63.9	1.30	17.68
October	161	48	73.1	1.49	1.72
November	120	48	67.4	1.38	1.54
December	350	52	86.7	1.77	2.04
Calendar year, 1929	800	8	72.0	1.47	19.95
January, 1930	140	42	64.0	1.31	1.51
February	218	35	90.2	1.84	1.92
March	410	56	93.0	1.90	2.19
April	120	45	60.6	1.24	1.38
May	59	21	37.5	.765	.88
June	150	17	36.4	.743	.83
July	.....	.....	† 20.2	.412	.48
August	35	10	16.0	.327	.38
September	92	6	17.5	.357	.40
Year ending Sept. 30, 1930	410	6	55.1	1.12	15.27
October	21	9	13.0	.265	.31
November	332	12	50.2	1.02	1.14
December	226	12	37.7	.769	.89
Calendar year, 1930	410	6	44.4	.906	12.31
January, 1931	252	22	49.7	1.01	1.16
February 1-21	345	18	78.6	1.60	1.25
March					
April					
May					
June					
July					
August					
September					
Year ending Sept. 30, 1931					

† Estimated.

Lawrence Brook at Farrington Dam

LOCATION.- Water-stage recorder at Farrington Dam, half a mile southwest of Milltown, Middlesex County, and 4¾ miles above mouth.

DRAINAGE AREA.- 34 square miles.

RECORDS AVAILABLE.- May 1927 to September 1934. June 1922 to December 1926 at Patricks Corner, 2¾ miles upstream.

EXTREMES.- 1927-34; Maximum discharge, about 1 900 second-feet July 6, 1928 (gage height, 25.84 feet); practically no flow when gates in dam are closed and there is no flow over spillway.

REMARKS.- Part of monthly and annual discharge table corrected for effect of storage in Farrington Reservoir. Recorder operated by city engineer of New Brunswick.

Daily discharge, in second-feet, 1927-28

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	36	† 48	74			62	56	16	51	41	29
2	12	36	† 200	51	22		46	46	12	25	41	25
3	12	80	170		22		36	36	11	19	36	36
4	74	142	87				36	36	14	22	32	46
5	51	94	344				32	32	36	122	32	36
6	32	68	279				29	29	164	1 130	51	47
7	19	56	180				25	29	80	262	51	87
8	22	51	350				25	25	41	109	41	62
9	76	51	156				25	29	35	74	32	41
10	109	51	87				22	32	87	56	62	32
11	51	46	80	46			25	29	41	46	180	29
12	32	46	94	46			† 80	25	25	48	125	25
13	336	41	94	46			† 46	22	22	297	80	22
14	134	36	142	46			† 22	22	33	347	56	19
15	74	36	94	46			19	22	160	180	41	16
16	51	36	104	41			22	19	56	102	36	16
17	109	41	142	41			25	19	29	68	46	19
18	1 160	152	80	41			22	25	22	56	87	19
19	720	87	62	57		80	16	36	34	46	56	53
20	290	62	† 60	122		62	14	32	74	51	41	125
21	151	51	† 60	51		51	16	32	46	56	36	62
22	109	46	† 60			46	51	29	46	46	41	41
23	87	41	† 55			46	155	22	† 46	61	68	32
24	68	46	† 50		180	41	365	19	† 46	170	51	25
25	56	46	† 42	142	87	41	109	16	† 90	80	46	25
26	51	41	† 40			41	68	19	29	56	36	29
27	46	† 40	† 42			32	56	25	25	46	46	29
28	41	† 75	† 42			25	310	25	19	275	41	25
29	41	†100	† 65			32	160	22	29	117	36	25
30	41	60	† 70			122	76	19	62	74	36	51
31	36		68			94		16		51	32	

†- Estimated.

Lawrence Brook at Farrington Dam
(Continued)

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	25	94		25	125	19	51	29	19	6.2	14
2	36	25	62		25	125	16	46	19	22	6.2	14
3	32	29	46		22	109	19	36	16	14	6.2	14
4	29	51	41		19	80	19	32	16	11	6.2	14
5	29	62	41		16	296	25	32	14	11	5.7	14
6	51	46	36		22	355	62	36	14	19	5.2	14
7	32	36	32		62	200	46	62	14	12	5.0	14
8	29	36	32		102	109	52	41	16	8.0	5.0	14
9	29	32	32		80	80	29	36	19	11	5.0	16
10	22	29	32	†38	68	68	32	32	16	9	5.2	21
11	22	25	32		56	46	32	29	14	8.0	5.2	12
12	22	29	32		46	56	118	25	12	7.5	5.4	7.0
13	19	29	29		36	68	87	29	11	7.2	5.9	7.5
14	19	29	29		29	56	51	32	11	7.7	7.5	19
15	19	25	29		25	51	36	36	11	11	14	22
16	19	22	29		22	† 46	380	32	12	9	8.0	14
17	19	25	32		22	† 36	315	25	11	7.7	7.2	12
18	19	25	80		22	32	117	25	9	7.2	7.0	11
19	74	25	56	46	25	29	74	287	9	7.5	7.0	8.0
20	109	25	41	46	25	32	51	151	12	7.5	6.7	7.2
21	68	25	32	36	22	32	56	117	19	7.5	6.4	6.7
22	51	25		22	29	32	190	80	14	7.2	6.2	6.4
23	41	25		22	29	36	102	† 55	14	7.5	5.9	6.4
24	36	22		46	25	36	62	† 40	19	7.5	13	6.7
25	32	22		56	25	36	51	36	25	7.2	14	6.7
26	29	22	†34	46	262	36	109	36	46	7.0	8	6.7
27	29	22		36	308	32	† 80	29	36	7.0	16	6.7
28	29	22		22	200	25	† 55	25	29	6.7	15	6.7
29	25	22		22		22	† 120	47	36	6.4	14	6.7
30	25	32		22		22	† 60	134	25	6.7	14	7.2
31	25			25		22		46		6.4	14	

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.3	29	† 11	51	16.3	51	22	16.3	8.7	15.5	14.3	8.7
2	102	22	† 14	41	16.3	46	18.9	18.9	7.5	15.5	12.8	8.6
3	117	51	† 16	51	18.9	36	18.9	14.1	7.2	15.5	11.5	8.5
4	46	102	† 11	46	32	32	18.9	10.8	7.2	15.5	10.7	8.2
5	29	51	† 11	32	160	29	16.3	10.8	7.0	15.4	9.9	7.9
6	22	36	† 11	25	80	25	16.3	10.8	15.3	15.4	9.3	7.7
7	18.9	29	† 11	25	74	29	62	10.8	† 20	15.4	8.7	7.4
8	16.3	25	† 11	29	41	299	56	12.3	† 30	15.4	8.2	11.8
9	12.3	22	† 11	29	29	151	36	10.8	† 55	15.4	7.6	15.0
10	10.8	22	† 11	29	29	80	29	9.6	† 120	15.4	7.0	15.0
11	10.8	18.9	† 11	22	25	68	25	8.0	68	8.5	6.4	15.0
12	9.6	16.3	† 12	25	25	68	22	8.7	36	0	5.9	14.9
13	9.6	16.3	† 19	32	177	51	25	8.0	25	.2	5.5	14.9
14	† 9	18.9	† 24	89	294	36	32	8.7	18.9	.8	5.2	14.9
15	† 9	25	† 22	134	109	32	29	36	12.3	1.6	5.3	14.8
16	† 12	25	22	68	68	32	46	32	8.7	2.0	5.3	14.8
17	† 12	25	22	46	68	29	56	18.9	7.5	2.5	5.3	14.8
18	† 11	87	97	120	68	32	56	16.3	8.7	2.7	5.3	14.8
19	9.6	74	170	109	56	68	56	22	12.3	3.3	5.3	14.7
20	9.6	41	74	51	68	51	46	36	10.8	3.5	5.2	14.7
21	8.7	32	36	36	74	36	32	25	8.7	11.9	5.0	14.6
22	14.1	29	25	32	74	† 24	32	22	8.7	18.0	10.6	14.6
23	56	22	22	29	68	† 22	25	18.9	7.5	19.3	10.4	14.5
24	32	22	22	22	74	† 22	22	12.3	7.2	18.5	8.1	14.5
25	22	18.9	18.9	22	80	† 50	22	18.9	13.5	17.8	8.4	14.5
26	16.3	16.3	14.1	18.9	109	† 46	22	16.3	20	16.7	8.6	14.4
27	14.1	16.3	14.1	18.9	109	† 36	18.9	12.3	19.7	15.7	8.7	† 14
28	12.3	14.1	16.3	22	68	† 32	16.3	12.3	18.1	15.5	8.8	† 14
29	12.3	12.3	36	22		29	18.9	16.3	16.7	15.4	8.9	† 14
30	18.9	10.8	68	22		25	18.9	14.1	15.7	15.4	8.9	† 14
31	29		51	18.9		22		10.8		15.4	8.9	

†- Estimated.

Lawrence Brook at Farrington Dam
(Continued)

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	† 14	12.8	0	0	† 4	18.9	93	12.3	9.6	6.2	7.0	7.2
2	† 14	12.7	0	0	† 5	29	114	10.8	10.8	5.7	6.7	6.7
3	† 14	12.7	0	0	5.7	25	56	12.3	9.6	5.7	6.7	6.4
4	14.3	12.6	0	0	5.9	22	41	10.8	8.0	5.4	6.7	6.7
5	14.3	12.7	0	0	6.2	29	32	10.8	7.2	5.2	6.4	7.0
6	14.3	12.8	7.7	0	5.9	22	22	9.6	6.7	5.2	6.4	6.7
7	14.2	12.7	13.3	0	5.9	18.9	46	10.8	6.7	6.2	6.2	6.4
8	14.2	12.7	13.2	0	6.4	144	102	18.9	62	7.2	5.7	5.9
9	14.2	12.7	13.2	0	23	188	51	46	41	9.6	5.7	5.4
10	14.2	12.6	13.2	0	74	68	32	46	41	14.1	10.5	5.4
11	† 14	12.6	13.1	0	51	46	25	46	87	36	36	5.4
12	† 14	12.5	13.1	0	41	32	22	36	46	16.3	102	4.7
13	† 14	12.5	13.1	0	45	25	18.9	46	29	10.8	56	4.7
14	† 14	12.5	13.0	0	87	22	16.3	56	18.9	10.8	36	5.0
15	† 14	12.5	13.0	0	46	16.3	16.3	36	14.1	12.3	56	5.0
16	† 14	12.5	12.9	0	29	14.1	14.1	25	215	8.7	46	4.7
17	† 14	12.6	12.9	0	31	16.3	12.3	16.3	261	7.5	22	4.7
18	† 14	12.8	12.8	0	167	16.3	10.8	14.1	80	7.2	14.1	5.0
19	† 13	12.8	12.8	0	80	14.1	10.8	12.3	46	† 7	12.3	4.7
20	† 13	12.8	12.7	0	56	22	10.8	10.8	32	† 7	10.8	4.7
21	† 13	12.8	12.7	0	41	32	10.8	12.3	18.9	† 48	10.8	4.5
22	† 13	12.8	12.6	0	† 36	† 24	9.6	18.9	12.3	† 50	8.7	10.6
23	† 13	12.8	12.6	0	† 32	16.3	16.3	25	12.3	† 42	8.0	18.3
24	† 13	5.1	12.6	0	29	16.3	18.9	22	12.3	† 34	8.0	16.4
25	† 13	0	12.5	0	25	18.9	16.3	16.3	10.8	† 26	8.7	15.5
26	† 13	0	12.5	0	22	18.9	22	16.3	8.7	† 18	8.7	15.5
27	† 13	0	12.9	.2	18.9	18.9	29	14.1	8.0	10.8	8.7	15.5
28	† 13	0	13.5	1.2	16.3	18.9	18.9	10.8	7.2	10.8	8.7	15.4
29	12.8	0	13.7	2.5		292	14.1	9.6	6.7	9.6	8.7	15.4
30	12.8	0	13.8	3.9		109	14.1	8.0	6.4	8.7	8.0	15.3
31	12.8		5.8	5.2		56		7.2		7.5	7.5	

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.2	14.8	0	15.4	16.3	16.3	109	16.2	6.7	8.0	15.1	14.4
2	15.2	14.8	8.6	15.9	16.3	14.1	62	29	6.7	7.0	15.1	6.0
3	15.2	14.8	14.7	41	22	12.3	36	22	6.7	6.2	15.0	0
4	15.1	14.8	14.7	25	31	10.8	29	18.9	6.4	5.9	15.0	0
5	15.1	14.7	14.8	18.9	88	10.8	25	14.1	6.2	5.9	15.0	0
6	15.1	14.7	14.8	55	41	63	25	14.1	5.9	5.9	14.9	0
7	15.0	14.6	14.8	180	29	198	22	16.3	5.7	6.2	14.9	0
8	15.0	14.6	14.7	80	25	51	18.9	16.3	5.2	6.2	14.8	0
9	15.0	14.6	6.6	117	18.9	32	18.9	18.9	5.0	5.7	14.8	0
10	15.0	14.5	0	117	16.3	18.9	45	16.3	4.5	5.2	9.6	8.5
11	14.9	14.5	0	80	29	16.3	74	12.3	4.3	13.4	0	14.5
12	14.9	14.5	0	51	32	16.3	164	14.1	4.7	19.7	0	14.4
13	14.8	14.4	0	36	29	16.3	86	25	7.5	19.3	0	14.4
14	14.8 †	14.0	0	36	18.9	16.3	46	25	8.0	19.1	0	14.4
15	14.8 †	14.0	0	32	16.3	14.1	36	18.9	9.6	18.9	8.6	14.4
16	14.8 †	14.0	0	29	14.1	12.3	29	16.3	18.9	18.7	14.8	14.4
17	14.8 †	14.0	0	25	16.3	16.8	22	14.1	16.3	18.9	14.7	14.4
18	14.7 †	6	0	25	25	36	18.9	10.8	12.3	20	14.7	14.4
19	14.7	0	0	22	18.9	32	18.9	9.6	12.3	18.5	14.6	14.4
20	8.5	0	0	22	14.1	25	16.3	8.0	10.8	16.6	14.6	14.4
21	0	0	0	22	12.3	22	14.1	8.0	8.7	15.7	14.6	14.4
22	0	0	0	22	12.3	65	14.1	7.5	7.2	15.5	14.5	14.4
23	0	0	0	18.9	12.3	64	14.1	7.5	6.2	15.5	14.5	14.4
24	0	0	0	22	10.8	36	12.3	7.5	5.4	15.5	14.4	14.4
25	0	0	0	22	10.8	29	12.3	7.2	5.2	15.4	14.4	14.3
26	0	0	0	22	10.8	22	16.3	7.2	5.2	15.4	14.4	14.3
27	0	0	0	38	10.8	25	18.9	6.7	5.8	15.3	14.4 †	14.3
28	0	0	9.0	32	12.3	617	14.1	7.5	40	15.3	14.4 †	14.3
29	0	0	15.5	25	14.1	191	14.1	7.5	22	15.2	14.4 †	14.3
30	8.5	0	15.5	25		94	12.3	7.2	12.3	15.2	14.4 †	14.2
31	14.8		15.4	22		74		6.7		15.2	14.4	

†- Estimated.

Lawrence Brook at Farrington Dam
(Continued)

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14.2	0	17.1	46	25	22	36	19.4	109	13.1	20.0	15.0
2	14.2	2.5	17.1	32	29	22	32	19.4	56	13.1	17.8	15.0
3	14.2	8.4	15.0	25	25	25	41	22	41	40	16.4	17.1
4	14.2	15.0	15.0	22	22	22	132	25	36	32	16.5	42
5	14.2	15.0	15.0	22	19.4	19.4	80	22	36	22	16.2	56
6	14.2	13.1	15.0	22	17.1	17.1	61	39	215	17.1	15.6	32
7	6.8	66	13.1	19.4	18.3	20	149	117	94	15.0	15.5	19.4
8	0	72	11.5	15.0	113	107	80	68	62	13.1	15.5	17.1
9	0	32	11.5	53	62	51	51	94	46	11.5	15.4	15.0
10	0	465	11.5	80	29	29	41	143	66	13.1	15.4	11.5
11	0	131	11.5	41	32	22	32	94	56	9.0	15.4	10.0
12	0	68	30	32	25	19.4	192	68	32	9.0	15.5	10.0
13	0	36	46	25	19.4	31	224	51	32	8.4	15.5	9.0
14	0	32	41	19.4	22	174	94	46	29	7.9	15.5	44
15	0	25	29	17.1	25	102	74	36	25	7.7	15.5	142
16	0	22	17.1	17.1	29	70	68	32	25	19.6	15.5	180
17	8.5	22	15.0	17.1	29	51	102	46	22	29	15.5	87
18	8.8	22	15.0	17.1	46	38	109	36	22	17.1	5.8	51
19	0	351	15.0	19.4	62	81	62	29	19.4	11.5	.2	36
20	0	280	13.1	22	189	302	41	35	17.1	10.0	1.0	29
21	0	87	13.1	22	151	343	36	137	17.1	8.4	3.3	22
22	0	56	13.1	22	68	170	36	56	17.1	7.9	78	19.4
23	0	41	13.1	22	51	94	32	36	13.1	8.4	135	17.1
24	0	32	29	22	41	74	29	32	13.1	7.7	274	19.4
25	0	29	74	15.0	32	51	25	46	11.5	7.4	87	17.1
26	6.4	32	80	49	46	51	25	36	15.0	7.7	51	17.1
27	15.0	25	56	56	32	68	22	32	19.4	7.7	32	15.0
28	15.0	22	151	41	25	51	22	97	17.1	7.7	25	19.4
29	15.0	19.4	94	36		46	19.4	74	13.1	7.7	22	29
30	15.0	17.1	62	29		36	19.4	56	11.5	7.4	19.4	29
31	5.9		56	25		36		119		15.9	17.1	

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	13.1	11.5	29	17.1	9.0	†250	22	15.0	10.0	10.0	6.3
2	17.1	15.0	10.0	87	19.4	9.0	†120	22	13.1	9.0	8.4	6.1
3	15.0	15.0	10.0	46	17.1	29	† 80	138	10.0	8.4	8.4	6.1
4	13.1	11.5	13.1	22	† 14.0	80	† 60	292	9.0	9.0	7.9	6.8
5	15.0	10.0	17.1	87	† 15.5	379	† 52	169	10.0	8.4	7.1	6.8
6	17.1	21	17.1	262	† 14.0	268	† 45	80	10.0	7.9	6.8	6.6
7	17.1	29	15.0	168	† 13.0	142	68	46	9.0	7.7	6.6	6.6
8	15.0	19.4	13.1	200	† 12.0	94	62	32	8.4	7.9	6.3	74
9	13.1	15.0	15.0	102	† 10.8	62	41	29	8.4	7.9	6.3	163
10	13.1	15.0	13.1	73	10.0	51	32	22	8.4	7.7	6.3	68
11	13.1	13.1	13.1	56	† 9.2	51	32	19.4	11.5	7.1	7.4	36
12	11.5	10.0	11.5	46	† 9.4	41	106	19.4	33	6.8	9.2	25
13	13.1	10.0	10.0	51	† 10.5	36	62	17.1	74	6.8	17.1	22
14	13.1	13.1	11.5	74	† 10.3	80	46	15.0	41	7.1	13.1	19.4
15	11.5	13.1	13.1	51	† 10.0	74	36	19.4	25	7.4	9.0	19.4
16	11.5	11.5	15.0	41	† 9.2	62	52	32	17.1	7.7	9.0	19.4
17	18.2	10.0	24	32	† 8.2	51	106	25	13.1	7.4	10.0	235
18	29	13.1	46	25	† 7.4	51	56	19.4	11.5	6.8	9.0	132
19	22	15.0	36	22	7.7	46	46	13.1	39	6.6	8.4	62
20	17.1	15.0	54	22	† 10.0	41	51	10.0	51	6.9	7.7	46
21	13.1	15.0	96	19.4	† 9.2	36	46	11.5	29	7.7	7.4	32
22	11.5	13.1	51	19.4	10.0	32	36	13.1	17.1	7.1	7.1	29
23	11.5	15.0	36	64	† 11.0	25	29	19.4	15.0	6.3	6.6	29
24	15.4	15.0	32	62	† 13.0	22	25	19.4	15.0	6.3	6.6	56
25	17.1	15.0	25	41	† 11.0	25	41	25	11.5	6.8	6.6	46
26	15.0	17.1	29	36	† 9.5	29	36	41	10.0	7.1	6.8	32
27	13.1	17.1	22	32	† 9.0	32	32	32	10.0	7.1	6.6	25
28	15.0	15.0	19.4	32	† 9.0	79	32	25	9.0	9.8	6.8	22
29	13.1	13.1	17.1	32		62	29	19.4	10.0	22	7.4	19.4
30	13.1	13.1	17.1	19.4		41	25	19.4	10.0	25	6.8	193
31	13.1		17.1	15.0		† 80		17.1		15.0	6.6	

†- Estimated.

Lawrence Brook at Farrington Dam
(Continued)

Monthly and annual discharge in second-feet, 1927-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1927	1 160	12	132	133	3.91	4.51
November	152	36	59.8	59.8	1.76	1.96
December	350	40	111	111	3.26	3.76
Calendar year, 1927						
January, 1928						
February						
March						
April	365	14	66.5	66.3	1.95	2.18
May	56	16	27.3	26.9	.791	.91
June	164	11	47.7	48.1	1.41	1.57
July	1 130	19	134	134	3.94	4.54
August	180	32	52.8	52.6	1.55	1.79
September	125	16	37.6	37.7	1.11	1.24
Year ending Sept. 30, 1928						
October	109	19	34.7	34.5	1.02	1.18
November	62	22	29.0	29.0	.853	.95
December	94	29	39.0	39.0	1.15	1.33
Calendar year, 1928						
January, 1929	56	22	36.5	36.4	1.07	1.23
February	308	16	58.9	59.9	1.76	1.83
March	355	22	75.2	74.3	2.19	2.52
April	380	16	81.5	81.8	2.41	2.69
May	287	25	55.5	55.4	1.63	1.88
June	46	9	18.3	18.1	.532	.59
July	22	6.4	9.46	8.97	.264	.30
August	16	5.0	8.27	6.21	.183	.21
September	22	6.4	11.2	13.4	.394	.44
Year ending Sept. 30, 1929	380	5.0	38.0	37.9	1.11	15.13
October	117	8.7	23.4	23.7	.697	.80
November	102	10.8	31.0	30.8	.906	1.01
December	170	† 11	29.5	29.9	.879	1.01
Calendar year, 1929	380	5.0	36.4	36.4	1.07	14.51
January, 1930	134	18.9	42.5	42.2	1.24	1.43
February	294	16.3	75.4	75.8	2.23	2.32
March	299	22	51.3	50.9	1.50	1.73
April	62	16.3	30.5	30.4	.894	1.00
May	36	8.0	16.1	16.0	.471	.54
June	† 120	7.0	20.7	19.0	.559	.62
July	19.3	0	11.6	10.3	.303	.35
August	14.3	5.0	8.06	6.60	.194	.22
September	15.0	7.4	13.0	5.40	.159	.18
Year ending Sept. 30, 1930	299	0	29.1	28.1	.826	11.21
October	14.3	12.8	13.6	4.24	.125	.14
November	12.8	0	9.89	11.1	.326	.36
December	13.8	0	10.5	15.0	.441	.51
Calendar year, 1930	299	0	24.9	23.6	.694	9.40
January, 1931	5.2	0	.42	14.0	.412	.48
February	167	4	35.5	36.1	1.06	1.10
March	292	14.1	45.5	45.7	1.34	1.54
April	114	9.6	30.5	30.2	.888	.99
May	56	7.2	20.9	20.8	.612	.71
June	261	6.4	37.8	37.6	1.11	1.24
July	50	5.2	14.8	14.9	.438	.50
August	102	5.7	17.9	17.9	.526	.61
September	18.3	4.5	8.49	5.17	.152	.17
Year ending Sept. 30, 1931	292	0	20.4	20.9	.615	8.35

†- Estimated.

Lawrence Brook at Farrington Dam
(Continued)

Monthly and annual discharge in second-feet, 1927-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1931	15.2	0	10.2	6.51	0.191	0.22
November	14.8	0	8.41	7.33	.216	.24
December	15.5	0	5.13	10.9	.321	.37
Calendar year, 1931	292	0	19.5	20.5	.603	8.17
January, 1932	180	15.4	41.7	44.2	1.30	1.50
February	88	10.8	21.5	21.5	.632	.68
March	617	10.8	60.2	60.8	1.79	2.06
April	164	12.3	34.8	34.1	1.00	1.12
May	29	6.7	13.4	13.2	.388	.45
June	40	4.3	9.39	9.61	.283	.32
July	20	5.2	13.4	8.69	.256	.29
August	15.1	0	12.4	6.77	.199	.23
September	14.5	0	10.5	9.31	.274	.31
Year ending Sept. 30, 1932	617	0	20.1	19.4	.571	7.80
October	15.0	0	5.86	11.7	.344	.40
November	465	0	68.0	74.0	2.18	2.43
December	151	11.5	32.8	33.1	.974	1.12
Calendar year, 1932	617	0	27.0	27.2	.800	10.91
January, 1933	80	15.0	29.1	28.9	.850	.98
February	189	17.1	45.9	45.8	1.35	1.41
March	342	17.1	72.4	72.5	2.13	2.46
April	224	19.4	65.6	65.4	1.92	2.14
May	143	19.4	56.9	57.7	1.70	1.96
June	215	11.5	39.6	38.7	1.14	1.27
July	40	7.4	13.3	12.8	.376	.43
August	274	.2	33.0	33.6	.988	1.14
September	180	9.0	34.8	34.9	1.03	1.15
Year ending Sept. 30, 1933	465	0	41.3	42.3	1.24	16.89
October	29	11.5	15.1	15.0	.441	.51
November	29	10.0	14.5	14.5	.426	.48
December	96	10.0	23.6	23.6	.694	.80
Calendar year, 1933	342	.2	36.9	36.9	1.09	14.73
January, 1934	262	15.0	60.3	60.3	1.77	2.04
February	19.4	7.4	11.3	11.1	.326	.34
March	379	9.0	68.4	68.7	2.02	2.33
April	250	25	57.8	57.7	1.70	1.90
May	292	10.0	41.4	41.3	1.21	1.40
June	74	8.4	18.5	18.4	.541	.60
July	25	6.3	8.86	8.86	.261	.30
August	17.1	6.3	8.04	7.69	.226	.26
September	235	6.1	48.3	49.7	1.46	1.63
Year ending Sept. 30, 1934	379	6.1	31.5	31.5	.926	12.59

Deep Run near Browntown

LOCATION.- Water-stage recorder half a mile downstream from Monmouth County line and 1 3/4 miles south of Browntown, Middlesex County.

DRAINAGE AREA.- 8.07 square miles.

RECORDS AVAILABLE.- August 1932 to September 1934.

AVERAGE DISCHARGE.- 2 years, 14.0 second-feet.

EXTREMES.- 1932-34: Maximum discharge, 917 second-feet Sept. 9, 1934 (gage height, 8.27 feet); minimum, 0.6 second-foot Aug. 30, 31, 1932 (gage height, 1.19 feet).

Daily discharge, in second-feet, 1932

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1		0.7	11	1.2	0.7	21	0.8	0.9
2		4.3	12	1.0	.7	22	.8	.9
3		1.8	13	.9	.6	23	.7	.9
4		1.4	14	.8	.6	24	.7	.9
5	1.3	1.2	15	.8	.6	25	.7	.8
6	1.1	1.4	16	.8	1.5	26	.6	.8
7	1.2	1.2	17	.8	1.6	27	.6	1.0
8	1.3	.9	18	1.0	1.1	28	.8	1.4
9	1.0	.8	19	1.1	1.1	29	.6	1.4
10	.9	.7	20	.9	1.0	30	.6	1.1
						31	.6	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	14.9	9.0	14.9	8.3	10.1	† 15	10.4	† 40	4.6	1.8	6.7
2	.9	16.9	8.6	11.9	9.7	10.4	† 15	10.4	12.3	5.2	1.5	6.1
3	.8	9.3	8.3	10.8	9.0	11.2	16.6	11.2	9.3	16.2	1.5	5.5
4	.8	7.0	8.3	10.8	8.0	10.1	41	11.9	10.4	13.5	8.9	11.5
5	1.0	6.4	8.3	11.2	9.2	9.0	24	10.1	15.1	8.6	4.6	13.7
6	9.2	5.8	8.0	10.4	7.1	8.3	18.6	15.1	126	6.7	3.0	8.6
7	9.3	24	8.0	10.1	8.7	10.1	29	34	26	5.0	2.5	6.7
8	3.5	25	7.7	9.3	34	26	21	22	21	4.1	2.1	5.5
9	2.5	28	7.0	24	19.2	15.3	16.6	29	14.0	3.7	1.8	5.0
10	2.1	150	6.7	28	11.6	11.6	14.9	41	34	3.2	1.8	4.6
11	1.8	32	6.7	17.1	9.7	9.3	13.6	24	15.7	3.2	7.8	4.1
12	1.7	19.1	19.2	14.9	10.8	9.0	64	18.1	11.6	3.2	6.0	3.7
13	1.5	14.4	16.6	11.9	9.3	12.0	79	16.2	28	3.2	3.9	3.7
14	1.5	12.3	15.7	11.2	10.4	37	27	14.4	14.0	2.9	7.1	27
15	1.5	11.2	12.3	10.4	11.9	36	22	13.2	10.8	2.9	5.4	44
16	1.5	10.8	8.6	10.1	13.5	22	21	13.7	9.3	5.8	3.7	65
17	2.4	10.4	6.1	9.7	11.9	16.2	34	17.6	11.4	8.8	2.9	26
18	26	9.7	8.1	9.3	16.5	14.4	36	13.2	13.2	5.5	3.2	15.7
19	12.7	92	9.0	10.4	19.6	38	23	11.2	8.6	3.7	3.2	11.6
20	9.7	58	8.6	10.8	48	102	18.6	10.6	7.4	3.2	3.2	9.3
21	6.8	22	7.7	9.3	31	122	16.2	21	6.7	2.9	11.7	8.0
22	5.0	16.2	8.6	10.1	17.6	41	14.9	13.2	5.5	2.5	56	7.4
23	4.1	13.2	9.0	10.8	15.7	25	13.6	10.8	5.0	2.5	40	6.7
24	4.1	12.7	12.4	9.3	13.2	21	12.7	10.7	4.6	2.1	66	7.4
25	3.9	11.6	28	8.3	12.7	17.6	13.6	15.3	4.1	2.1	16.6	7.4
26	3.7	14.0	24	15.9	15.3	23	19.1	11.2	4.6	2.1	10.8	6.7
27	9.8	12.3	19.0	15.3	11.6	26	14.0	8.6	5.5	2.5	8.0	6.1
28	12.0	10.1	47	13.2	10.4	21	12.3	10.8	5.0	2.5	9.5	7.4
29	7.0	9.0	30	11.2		17.1	11.6	10.8	4.6	2.1	15.7	12.5
30	5.3	9.0	20	9.7		† 16	10.8	11.9	4.1	1.8	10.1	10.8
31	4.6		19.6	8.6		† 15		17.7		1.9	8.0	

† Estimated.

Deep Run near Browntown
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.0	5.5	5.0	22	7.0 †	3.5	106	9.8	7.7	2.8	6.2	1.8
2	6.7	5.3	4.6	30	7.4 †	3.7	29	9.8	6.4	2.6	4.8	1.7
3	6.1	5.3	4.6	12.7 ‡	6.0 †	10.0	20	52	5.9	2.2	4.8	1.8
4	5.5	5.0	5.8	11.2	5.5 †	75	17.7	70	5.3	2.2	3.8	3.2
5	6.5	5.0	8.6	62	6.0 †	160	16.8	30	5.3	2.4	3.0	2.6
6	8.6	16.6	8.0	107	5.4 †	84	15.0	19.5	5.0	2.2	2.6	1.9
7	6.7	15.0	7.4	60	4.8 †	37	21	15.5	4.8	3.4	2.4	2.6
8	6.1	10.1	6.4	70	4.4 †	24	22	13.0	4.8	12.1	2.2	114
9	5.5	8.3	6.1	27	4.1 †	20	16.4	11.7	4.8	5.3	2.2	233
10	5.0	7.7	5.3	18.6	3.9 †	17.2	14.6	10.5	4.5	3.6	2.1	24
11	5.0	6.7	5.0	15.7	3.6 †	17.2	13.8	10.2	4.5	2.8	2.1	15.0
12	4.6	6.7	4.3	14.0	3.8 †	15.5	30	9.4	5.2	2.4	3.2	11.3
13	5.5	6.1	4.1	14.9	4.1 †	17.7	18.6	8.8	8.0	2.4	8.0	9.8
14	6.1	6.7	4.3	21	4.1 †	38	15.5	8.4	5.3	2.6	5.9	9.1
15	5.5	6.4	4.6	15.3	3.9 ‡	31	14.2	9.8	4.2	2.4	4.2	9.1
16	5.0	5.5	5.4	13.2	3.5 ‡	22	22	13.4	3.6	2.2	4.2	8.8
17	7.4	4.8	9.3	11.6	3.1 †	20	39	10.5	3.4	1.9	5.0	262
18	11.2	5.3	13.2	9.8	3.0 †	19.0	20	9.1	3.0	1.7	3.8	54
19	8.0	5.8	13.2	10.1	3.2 †	18.1	16.4	8.0	14.7	1.7	3.2	22
20	6.7	5.8	18.1	9.2	3.9 †	15.5	17.2	7.0	15.4	5.6	2.6	16.4
21	6.1	5.5	32	9.0	3.6 †	13.4	15.5	7.0	8.0	11.5	2.2	13.8
22	5.5	5.5	15.7	8.6	3.8 †	12.6	13.4	10.1	5.6	4.0	2.1	17.7
23	5.5	5.5	12.3	19.7	5.0 †	10.5	12.6	45	4.5	2.8	1.9	19.5
24	6.3	5.3	10.8	16.2	4.5 †	10.2	11.7	14.6	4.5	2.2	1.8	15.0
25	9.3	5.3	9.7	12.7	3.8 †	10.5	14.2	19.3	3.8	4.9	1.9	13.0
26	7.4	5.3	6.9	11.6	3.6 †	10.9	12.6	23	3.2	3.6	2.4	11.3
27	6.7	6.1	6.1	10.1	3.5 †	11.7	12.1	16.4	3.2	2.6	2.1	10.2
28	6.4	5.5	6.0	10.1	3.5 †	27	13.4	12.1	3.2	17.4	3.1	9.1
29	5.8	5.3	6.0	8.4		19.0	11.3	10.5	3.2	78	3.4	8.8
30	5.5	5.0	6.1	5.5		14.6	10.5	10.2	2.8	14.6	2.4	64
31	5.5		6.7	6.0		44		9.1		9.1	1.9	

Monthly and annual discharge, in second-feet, 1932-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
August 5-31, 1932	1.3	0.6	0.87	0.108	0.11
September	4.3	.6	1.13	.140	.16
October, 1932	26	.8	5.09	.631	.73
November	150	5.8	22.9	2.84	3.17
December	47	6.7	13.4	1.66	1.91
Calendar year, 1932					
January, 1933	28	8.3	12.2	1.51	1.74
February	48	7.1	14.8	1.83	1.91
March	122	8.3	24.6	3.05	3.52
April	79	10.8	23.0	2.85	3.18
May	41	8.6	15.8	1.96	2.26
June	126	4.1	16.3	2.02	2.25
July	16.2	1.8	4.46	.553	.64
August	66	1.5	10.6	1.31	1.51
September	65	3.7	12.1	1.50	1.67
Year ending Sept. 30, 1933	150	.8	14.6	1.81	24.49
October	11.2	4.6	6.44	.798	.92
November	16.6	4.8	6.60	.818	.91
December	32	4.1	8.44	1.05	1.21
Calendar year, 1933	126	1.5	12.9	1.60	21.72
January, 1934	107	5.5	21.7	2.69	3.10
February	7.4	3.0	4.36	.540	.56
March	160	3.5	26.9	3.33	3.84
April	106	10.5	20.4	2.53	2.82
May	70	7.0	16.6	2.06	2.38
June	15.4	2.8	5.46	.677	.76
July	78	1.7	6.94	.860	.99
August	8.0	1.8	3.27	.405	.47
September	262	1.7	32.9	4.08	4.55
Year ending Sept. 30, 1934	262	1.7	13.4	1.66	22.51

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Tennent Brook near Browntown

LOCATION.- Water-stage recorder 1¾ miles northwest of Browntown, Middlesex County, 2 miles above the mouth. Zero of gage is 10.00 feet above mean sea level.

DRAINAGE AREA.- 5.25 square miles.

RECORDS AVAILABLE.- August 1932 to September 1934.

AVERAGE DISCHARGE.- 2 years, 4.78 second-feet.

EXTREMES.- 1932-34: Maximum discharge, about 166 second-feet Sept. 8, 1934 (gage height, 10.17 feet); practically no flow on numerous days in August, September, and October, 1932.

Daily Discharge, in second-feet, 1932

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1		0	11	0.02	0	21	0.01	0.01
2		.14	12	.02	0	22	.01	.01
3		.04	13	.01	0	23	.01	0
4		.03	14	.01	0	24	0	0
5		.03	15	.01	0	25	0	0
6	0.03	.03	16	.01	.03	26	0	0
7	.03	.02	17	.01	.03	27	0	0
8	.03	.01	18	.01	.02	28	.01	.01
9	.02	.01	19	.03	.01	29	.01	.01
10	.01	0	20	.02	.01	30	0	.01
						31	0	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	2.6	1.8	5.0	1.9	2.4	5.5	2.4	26	0.94	0.10	0.84
2	0	2.6	1.7	3.2	2.7	2.7	† 6.0	2.3	6.3	.87	.10	.72
3	0	1.0	1.7	2.9	2.2	3.0	6.0	3.2	4.0	5.6	.09	.66
4	0	.57	1.7	3.0	1.8	2.3	21	3.5	3.7	2.9	.72	7.7
5	0	.47	1.6	3.4	1.6	2.1	9.4	2.3	6.6	1.5	.40	5.3
6	0.12	.40	1.4	2.6	1.3	1.7	6.6	7.4	54	.90	.29	2.1
7	.12	6.5	1.4	2.4	1.9	2.8	19.2	14.6	11.1	.52	.12	1.1
8	.04	6.7	1.3	2.1	13.8	10.3	8.8	10.5	8.6	.37	.11	.84
9	.03	7.2	1.1	10.4	5.8	4.8	5.5	13.4	4.3	.29	.10	.73
10	.03	57	1.0	13.0	2.7	2.9	4.6	20	14.4	.27	.09	.56
11	.02	12.0	1.1	6.0	2.2	2.0	4.0	9.1	5.0	.25	1.3	.43
12	.02	4.6	6.5	4.6	2.7	2.0	33	6.0	2.9	.23	.71	.40
13	.01	3.0	5.5	3.2	2.2	4.6	35	5.0	11.7	.19	.38	.37
14	.01	2.3	5.1	2.7	2.0	17.2	10.9	4.2	3.9	.19	1.3	11.0
15	.01	2.0	3.1	2.6	2.7	18.8	7.8	3.4	2.6	.19	.62	27
16	.01	1.8	1.7	2.3	3.5	11.1	7.8	4.2	2.2	1.5	.30	28
17	.04	1.8	1.2	2.3	3.0	5.5	16.6	5.7	6.6	1.4	.21	9.0
18	1.9	1.6	1.4	2.2	5.9	4.4	14.9	3.4	5.6	.59	.38	4.6
19	1.2	40	1.5	2.9	8.3	16.8	8.1	2.6	2.5	.33	.34	3.1
20	.73	31	1.5	2.8	29	55	5.8	3.8	1.5	.21	.27	2.2
21	.43	7.4	1.4	2.2	18.3	63	4.6	12.4	1.2	.17	2.0	1.6
22	.24	4.4	1.5	2.6	6.0	21	4.0	4.0	.99	.15	14.2	1.4
23	.17	3.2	1.9	3.0	5.5	9.8	3.5	2.6	.71	.14	11.5	1.2
24	.12	3.0	3.5	2.2	4.2	6.8	3.4	4.2	.60	.12	25	2.1
25	.11	2.6	14.5	1.9	3.9	5.5	4.6	6.2	.51	.12	3.9	1.6
26	.11	3.7	12.2	5.7	5.8	10.5	6.9	3.3	.72	.15	1.9	1.2
27	.42	2.7	7.7	4.8	3.2	10.2	3.8	2.3	.92	.17	1.1	1.0
28	.82	1.9	31	4.0	2.6	7.1	3.2	3.6	.83	.15	1.8	1.6
29	.55	1.7	17.0	2.9		5.5	2.9	3.9	.55	.12	3.1	3.9
30	.47	1.8	7.8	2.3		4.4	2.6	5.8	.46	.11	1.5	2.4
31	.27		8.1	2.1		4.2		16.1		.10	.92	

† Estimated.

Tennent Brook near Browntown
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	0.88	0.68	4.4	† 1.7	† 0.90	51	2.7	1.1	0.28	1.1	0.10
2	1.1	.64	.60	11.3	† 1.9	† .90	12.8	2.7	.93	.19	.76	.10
3	.80	.84	.60	3.6	† 1.6	3.4	7.8	23	.78	.15	.77	.10
4	.72	.80	1.2	2.8	† 1.4	26	6.8	38	.60	.31	.50	.43
5	1.4	.72	1.5	20	† 1.5	76	5.8	13.4	.60	.21	.34	.26
6	1.6	4.0	1.2	51	† 1.3	36	5.0	7.4	.54	.17	.25	.15
7	1.1	3.1	1.1	29	† 1.2	14.5	11.2	5.8	.51	.35	.23	.41
8	.92	2.0	.92	41	† 1.1	8.6	8.8	4.6	.46	1.5	.19	41
9	.80	1.4	.92	10.8	† .97	6.7	6.0	3.8	.40	.56	.19	58
10	.72	1.3	.73	6.8	† .92	4.7	4.8	3.5	.40	.28	.19	8.4
11	.64	1.2	.68	5.2	† .90	4.3	5.0	3.0	1.5	.17	.19	4.3
12	.60	1.1	.57	4.2	† .96	4.2	19.2	2.6	5.0	.15	.88	2.8
13	.90	1.0	.51	6.0	† 1.1	6.2	7.6	2.1	4.1	.15	2.8	2.1
14	.96	1.2	.57	10.0	1.0	21	5.5	2.0	1.5	.15	1.1	2.1
15	.76	1.1	.57	5.5	† .96	15.3	4.4	2.1	.84	.15	.72	2.6
16	.68	.79	1.1	4.4	† .88	9.6	11.3	3.4	.53	.15	.89	2.1
17	2.2	.68	2.4	3.6	† .80	8.4	21	2.6	.41	.12	1.2	66
18	3.0	.90	3.9	2.3	† .74	8.1	8.0	2.1	.34	.11	.65	26
19	1.5	1.1	2.5	2.4	† .76	7.2	6.0	1.7	7.0	.10	.46	7.8
20	1.2	1.0	6.3	2.1	† 1.0	5.5	6.7	1.4	4.2	8.9	.34	3.2
21	.92	.88	9.2	2.0	† .92	4.1	5.5	1.4	1.4	4.7	.23	4.0
22	.88	.88	4.1	2.1	† .96	3.8	4.2	4.1	.75	1.6	.19	10.4
23	.84	.84	2.8	7.3	1.3	2.6	3.8	8.6	.78	.34	.17	9.7
24	1.4	.76	2.4	5.4	† 1.0	2.4	3.5	2.8	.59	.19	.17	8.8
25	2.4	.72	2.1	3.8	† .92	2.9	4.7	4.9	.40	1.2	.15	5.0
26	1.4	.78	1.5	3.4	† .90	3.0	3.6	6.4	.28	.66	.33	3.8
27	1.2	1.1	1.2	2.6	† .90	3.4	3.6	4.4	.28	.31	.23	3.0
28	1.1	.88	1.1	3.0	† .90	12.3	3.9	2.8	.27	32	.23	2.2
29	.96	.72	1.1	1.7		6.6	3.2	2.1	.26	31	.31	2.0
30	.96	.72	1.1	1.4		4.4	2.9	2.0	.31	4.4	.19	55
31	.92		‡ 1.1	‡ 1.5		22		1.6		2.3	.12	

Monthly and annual discharge, in second-feet, 1932-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
August 6-31, 1932	0.03	0	0.012	0.002	0.002
September	.14	0	.015	.003	.003
October, 1932	1.9	0	.258	.049	.06
November	57	.40	7.25	1.38	1.54
December	31	1.0	4.84	.922	1.06
Calendar year, 1932					
January, 1933	13.0	1.9	3.65	.695	.80
February	29	1.3	5.24	.998	1.04
March	63	1.7	10.3	1.96	2.26
April	35	2.6	9.20	1.75	1.95
May	20	2.3	6.24	1.19	1.37
June	54	.46	6.37	1.21	1.35
July	5.6	.10	.669	.127	.15
August	25	.09	2.41	.459	.53
September	28	.37	4.16	.792	.88
Year ending Sept. 30, 1933	63	0	5.03	.958	12.99
October	3.0	.60	1.16	.221	.25
November	4.0	.68	1.14	.217	.24
December	9.2	.51	1.81	.345	.40
Calendar year, 1933	63	.09	4.35	.829	11.22
January, 1934	51	1.4	8.41	1.60	1.84
February	1.9	.74	1.09	.208	.22
March	76	.90	10.8	2.06	2.38
April	51	2.9	8.45	1.61	1.80
May	38	1.4	5.45	1.04	1.20
June	7.0	.26	1.24	.236	.26
July	32	.10	3.00	.571	.66
August	2.8	.12	.518	.099	.11
September	66	.10	11.1	2.11	2.35
Year ending Sept. 30, 1934	76	.10	4.53	.863	11.71

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Matawan Creek at Matawan

LOCATION.- Water-stage recorder on Lake Leffert Dam, Ravine Drive Road, Matawan, Monmouth County. Zero of gage is 13.98 feet above mean sea level.

DRAINAGE AREA.- 6.11 square miles.

RECORDS AVAILABLE.- August 1932 to September 1934.

AVERAGE DISCHARGE.- 2 years, 10.2 second-feet, corrected for storage.

EXTREMES.- 1932-34: Maximum discharge, 1 070 second-feet Sept. 8, 1934 (gage height, 4.40 feet); no flow on several occasions when blow-off was closed and no flow over dam.

REMARKS.- Monthly and annual discharge table corrected for storage in Lake Leffert.

Daily discharge, in second-feet, 1932

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1		0.30	11	0.78	0.41	21	0.53	1.1
2		1.7	12	.78	.41	22	.41	1.1
3		1.6	13	.53	.53	23	.30	1.1
4		1.5	14	.41	.53	24	.30	1.1
5	.78	1.4	15	.41	.53	25	.20	.92
6	.78	1.4	16	.30	1.4	26	.20	.78
7	.78	1.1	17	.30	1.5	27	.20	.92
8	.78	.65	18	.30	1.4	28	.30	1.2
9	.78	.53	19	.53	1.2	29	.20	1.2
10	.65	.41	20	.53	1.1	30	.20	1.1
						31	.20	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	7.4		7.9	5.7	6.0	9.4	5.4	19.2	2.3	0.92	3.4
2	.92	12.2		7.9	5.9	6.0	9.4	5.2	13.2	2.3	.92	3.0
3	.92	8.7		7.7	5.7	6.0	9.4	5.7	9.4	3.9	.78	3.0
4	.92	6.3		7.7	5.5	5.7	31	6.9	7.4	5.4	2.6	6.3
5	1.2	5.0		7.7	5.5	5.2	20	6.3	13.4	5.0	2.6	10.8
6	3.9	4.2		7.4	4.7	4.7	14.4	9.8	176	4.0	2.3	8.3
7	6.6	14.5		37	4.8	5.4	25	30	18.4	3.2	2.0	5.7
8	5.0	25		25	36	13.6	16.9	20	16.2	2.6	1.6	4.5
9	3.6	36		1.6		12.2	12.8	26	11.8	2.1	1.5	3.8
10	3.0	190		9.9		9.0	10.8	35	21	2.0	1.4	3.0
11	2.5	26		11.6		6.9	9.0	21	14.4	1.6	2.8	2.6
12	2.0	15.2		10.5		6.0	99	14.7	10.0	1.4	3.6	2.3
13	1.5	11.6		8.5		7.1	63	12.2	13.6	1.2	3.4	2.1
14	1.4	8.8		7.4	†7.3	25	12.8	10.0	10.4	1.1	4.0	9.8
15	1.4	7.4		6.8		38	13.2	8.7	7.4	1.1	4.0	71
16	1.5	6.5	† 8.9	6.5		21	13.2	7.7	5.7	1.8	3.2	43
17	1.9	6.2		5.9		14.0	25	9.0	5.2	3.2	2.8	15.6
18	10.6	5.7		5.7	5.2	11.1	31	8.3	5.7	3.4	2.5	13.6
19	11.4	107		6.2	11.4	30	16.9	6.9	4.7	2.8	2.3	10.0
20	9.0	44		6.2	77	127	13.2	6.9	4.0	2.3	2.1	7.7
21	6.3	5.7		5.9	32	112	11.4	16.2	3.6	2.0	4.1	6.3
22	4.5	7.1		5.9	.30	26	9.4	12.8	3.0	1.6	45	5.0
23	3.6	6.8		6.5	3.2	12.5	8.0	9.4	2.6	1.5	51	4.2
24	3.0	6.2		6.2	5.2	11.8	7.2	7.4	2.3	1.4	67	4.2
25	2.6	5.9		5.5	6.3	10.4	6.9	8.3	2.0	1.2	15.6	4.2
26	2.5	† 8.5		7.9	8.3	12.5	9.0	7.7	2.0	.92	10.4	4.0
27	3.6	† 7.5		10.5	7.4	15.6	8.3	6.3	2.0	1.1	7.4	3.8
28	5.4	† 6.0		10.2	6.6	14.0	7.2	6.6	2.0	1.1	5.7	4.5
29	4.7	† 5.5		8.5		12.2	6.6	6.6	2.1	1.1	5.2	6.6
30	3.8	† 5.5		7.1		10.0	5.7	6.9	2.1	.92	4.7	7.4
31	3.2			6.2		9.0		9.9		.92	4.0	

† Estimated.

Matawan Creek at Matawan
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.6	4.0	3.6	9.9		† 2.5	72	5.4	4.5	1.8	6.3	1.5
2	5.2	4.2	3.6	23		† 2.7	21	5.4	3.8	1.6	4.5	1.5
3	4.2	4.2	3.4	† 12.0		† 7.0	14.7	28	3.2	1.5	3.8	1.5
4	3.8	4.0	4.2	† 8.5		† 50	12.8	62	2.8	1.6	3.2	2.5
5	4.2	3.8	5.0	† 45		96	11.4	29	2.8	1.6	2.5	2.5
6	5.0	6.8	5.2	† 70		39	10.0	16.2	2.6	1.6	2.1	2.3
7	4.7	9.0	5.2	42		14.4	11.4	12.2	2.5	1.9	2.0	2.3
8	4.5	8.0	5.0	56		14.7	14.0	9.4	2.1	6.9	1.8	265
9	4.0	6.6	4.5	23		† 12.5	12.2	8.0	2.0	6.0	1.6	195
10	3.8	5.7	4.2	15.6		† 9.8	10.0	7.2	2.1	4.2	1.6	35
11	3.4	5.0	4.0	12.5		† 9.0	9.0	6.3	2.5	3.0	1.6	† 6.0
12	3.4	4.5	3.8	10.8		† 9.0	15.1	5.4	3.0	2.5	2.2	† 4.0
13	3.4	4.5	3.6	10.4		† 9.5	14.4	5.0	4.2	2.3	5.0	† 3.5
14	3.6	4.7	3.4	13.2		17.6	11.8	4.7	3.8	2.1	5.0	† 0
15	3.6	4.2	3.6	12.2	† 3.2	23	9.7	4.7	3.2	2.0	4.5	0
16	3.6	4.0	4.0	10.4		16.9	13.0	5.7	2.8	2.1	3.8	.20
17	4.5	3.6	5.4	8.7		14.4	26	5.7	2.3	1.6	3.8	180
18	7.2	3.6	8.3	7.2		13.2	16.2	4.7	2.0	1.4	3.4	26
19	6.9	3.8	9.0	6.3		12.5	12.8	4.2	5.2	1.2	3.0	9.0
20	5.7	4.0	11.7	6.0		10.8	11.8	4.0	7.7	18.0	2.5	7.4
21	5.0	4.0	22	5.7		8.7	10.8	3.8	6.3	29	2.3	5.4
22	4.5	4.0	15.1	5.2		7.2	9.0	4.9	4.5	14.0	2.0	6.6
23	4.2	4.0	11.4	8.7		6.0	7.7	14.0	3.6	7.7	1.8	11.8
24	4.5	4.0	9.7	11.8		5.2	7.2	11.1	3.0	5.0	1.6	11.1
25	5.7	3.8	8.0	10.4		5.0	7.4	9.7	2.5	5.0	1.6	8.7
26	5.4	3.8	‡ 6.2	8.7		5.0	7.2	11.1	2.1	4.5	1.6	6.9
27	5.2	4.2	‡ 5.5	7.7		6.0	6.9	10.0	2.0	3.6	1.6	5.4
28	4.7	4.0	‡ 5.2	‡ 6.7		12.9	6.9	7.7	1.8	98	1.8	4.2
29	4.5	3.8	‡ 5.0	‡ 5.2		14.7	6.3	6.3	1.6	48	2.0	3.6
30	4.2	4.0	† 5.1	‡ 4.5		12.2	5.7	6.0	1.6	12.5	1.8	88
31	4.2		† 5.7	‡ 4.7		61		5.2		9.4	1.6	

Monthly and annual discharge, in second-feet, 1932-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
August 5-31, 1932	0.78	0.20	0.461	0.380	0.062	0.06
September	1.7	.30	1.00	1.10	.180	.20
October, 1932	11.4	.92	3.66	3.82	.625	.72
November	190	4.2	20.4	20.5	3.36	3.75
December	.....	....	8.90	9.03	1.48	1.71
Calendar year, 1932						
January, 1933	37	1.6	8.89	8.82	1.44	1.66
February	77	....	10.8	10.8	1.77	1.84
March	127	4.7	19.5	19.7	3.22	3.71
April	99	5.7	17.8	17.7	2.90	3.24
May	35	5.2	11.4	11.9	1.95	2.25
June	176	2.0	13.7	13.0	2.13	2.38
July	5.4	.92	2.14	2.00	.327	.38
August	67	.78	8.63	8.85	1.45	1.67
September	71	2.1	9.32	9.52	1.56	1.74
Year ending Sept. 30,1933	190	....	11.2	11.3	1.85	25.05
October	7.2	3.4	4.63	4.47	.732	.84
November	9.0	3.6	4.59	4.58	.750	.84
December	22	3.4	6.44	6.51	1.07	1.23
Calendar year, 1933	176	....	9.80	9.79	1.60	21.78
January, 1934	70	4.5	15.5	15.6	2.55	2.94
February	.....	....	3.20	3.12	.511	.53
March	96	2.5	17.0	18.5	3.03	3.49
April	72	5.7	13.5	12.0	1.96	2.19
May	62	3.8	10.4	10.4	1.70	1.96
June	7.7	1.6	3.14	2.92	.478	.53
July	98	1.2	9.73	10.1	1.65	1.90
August	6.3	1.6	2.71	2.33	.381	.44
September	265	0	29.9	30.4	4.98	5.56
Year ending Sept. 30, 1934	265	0	10.1	10.1	1.65	22.45

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Swimming River near Red Bank

LOCATION.- Water-stage recorder above dam of Monmouth Consolidated Water Co., 3 miles above mouth of river at Red Bank, Monmouth County.

DRAINAGE AREA.- 48 square miles.

RECORDS AVAILABLE.- July 1922 to September 1934.

AVERAGE DISCHARGE.- 12 years, 69.1 second-feet.

EXTREMES.- 1922-34: Maximum discharge over spillway, 2 930 second-feet Sept. 9, 1934 (gage height, 5.65 feet).

REMARKS.- Tables of discharge include diversion for municipal uses. Recorder operated and record of diversion furnished by Monmouth Consolidated Water Co.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	103	49	91	60	54	174	80	118	67	44	32	27
2	77	48	69	95	46	139	75	119	58	45	30	26
3	70	60	54	54	51	189	69	115	57	41	28	25
4	66	79	51	43	49	135	73	99	57	36	36	23
5	62	73	54	41	46	273	78	98	57	† 36	31	20
6	69	57	60	155	57	366	125	103	† 58	† 111	28	55
7	59	53	50	163	339	185	99	176	† 60	† 57	29	42
8	57	51	50	58	184	121	83	119	61	† 43	27	81
9	55	51	53	64	99	121	73	107	68	† 52	29	113
10	51	48	51	84	127	96	86	103	60	† 39	29	70
11	51	48	50	124	† 110	112	86	95	54	35	34	40
12	50	48	51	80	† 90	108	171	88	49	33	38	32
13	49	49	50	66	† 75	108	220	88	46	33	31	31
14	48	46	54	40	† 63	115	122	90	45	35	† 34	43
15	50	49	62	54	† 64	112	94	96	45	55	† 41	56
16	49	49	72	54	66	111	620	88	51	42	† 30	40
17	50	49	66	63	62	99	586	78	46	35	24	35
18	49	48	83	95	63	89	249	74	42	35	27	37
19	73	49	63	94	63	86	170	155	† 43	45	28	34
20	70	63	57	83	60	84	145	167	† 49	47	28	32
21	52	54	54	66	48	81	143	127	† 54	38	26	31
22	54	51	44	57	63	81	268	123	44	38	26	32
23	52	49	44	73	73	89	189	95	40	38	25	30
24	58	45	45	77	57	95	143	88	41	35	26	30
25	50	45	45	93	71	85	131	88	50	35	25	29
26	49	45	46	175	282	89	135	88	98	35	26	29
27	50	43	48	80	521	92	118	81	52	30	23	30
28	50	45	68	77	225	80	119	75	48	30	24	28
29	50	45	62	52		78	187	71	78	31	23	30
30	46	51	50	54		73	127	71	56	42	21	36
31	49		46	55		80		72		32	26	

† Estimated.

Swimming River near Red Bank
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	60	35	62	51	80	63	51	35	28	26	25
2	189	49	40	62	56	84	63	52	36	37	25	29
3	150	67	46	69	84	71	63	46	37	33	23	29
4	61	118	45	72	94	66	63	44	34	45	21	28
5	47	91	39	56	314	66	59	46	31	39	20	25
6	43	62	44	57	120	70	69	47	31	112	19	21
7	41	53	† 44	60	77	70	151	43	29	199	17	19
8	41	52	† 41	62	66	264	99	42	39	50	16	20
9	36	50	† 38	59	59	199	70	42	48	34	14	20
10	36	48	† 38	56	63	103	63	39	83	72	15	20
11	31	45	† 38	50	54	95	63	38	98	64	22	20
12	33	45	† 39	55	54	95	62	37	51	69	19	20
13	† 32	48	† 38	69	237	84	65	38	46	46	21	19
14	33	53	62	70	396	77	73	36	42	41	20	18
15	33	55	56	123	131	70	66	96	38	41	24	19
16	51	50	49	83	81	72	72	67	35	37	31	17
17	48	44	45	62	67	73	75	49	33	34	29	16
18	34	58	74	107	89	76	77	40	40	34	27	16
19	32	87	142	165	100	128	80	46	41	33	26	17
20	32	52	79	75	124	94	† 77	51	35	30	25	20
21	35	18	50	76	111	80	† 69	45	34	31	24	19
22	75	45	45	72	95	70	65	37	32	27	21	18
23	202	44	53	62	88	65	62	37	33	58	68	18
24	72	47	72	44	95	69	60	33	31	41	97	17
25	56	48	56	54	95	84	57	55	31	48	40	16
26	46	45	51	37	107	89	53	48	30	35	34	14
27	43	47	50	36	123	73	54	39	37	31	31	17
28	42	44	53	63	91	64	51	38	34	28	29	16
29	39	43	78	73		65	52	47	30	30	28	18
30	43	31	118	60		65	50	44	31	31	27	17
31	60		70	48		66		39		28	27	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	36	54	38	28	44	115	44	70	33	27	36
2	16	32	51	32	36	57	171	46	56	31	24	34
3	18	29	31	36	33	48	95	48	41	33	27	28
4	19	36	33	41	33	48	79	45	38	32	27	33
5	17	102	34	45	31	59	69	44	36	24	25	33
6	18	66	36	116	31	51	62	42	33	36	24	29
7	19	42	36	67	† 31	43	91	46	33	45	25	28
8	16	32	34	39	† 28	187	140	51	78	47	22	27
9	18	32	32	38	† 34	260	91	63	58	41	21	29
10	19	30	32	41	† 89	98	73	49	64	38	27	28
11	20	30	32	36	† 94	76	66	66	109	39	115	27
12	18	30	34	46	† 78	62	63	57	65	35	143	26
13	18	32	31	98	† 88	56	60	72	48	31	67	26
14	20	32	30	48	107	57	57	73	44	35	44	24
15	37	† 68	30	33	51	53	57	66	41	47	47	22
16	47	† 147	22	31	51	50	54	50	278	35	88	21
17	28	† 138	24	37	82	50	51	45	190	35	42	23
18	24	† 148	26	36	162	50	50	46	83	34	35	27
19	21	69	30	137	93	48	50	42	57	36	33	26
20	22	53	34	201	69	53	49	43	48	32	30	23
21	24	48	32	63	56	62	48	42	42	33	44	23
22	25	43	30	39	50	53	47	45	40	70	36	26
23	24	40	34	37	49	50	73	57	45	45	32	24
24	26	41	34	43	48	48	60	49	63	33	38	21
25	26	38	27	38	48	48	48	44	44	33	38	20
26	26	36	35	42	48	48	61	46	42	29	31	25
27	24	36	166	42	46	48	91	43	40	29	32	32
28	28	31	162	41	42	48	60	37	37	28	55	32
29	30	28	70	38		261	53	37	36	24	76	29
30	37	34	54	36		151	46	33	34	28	69	25
31	41		42	36		83		33		29	42	

† Estimated.

Swimming River near Red Bank
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	32	43	34	31	37	104	54	34	34	20	14
2	24	30	31	140	40	37	81	55	31	30	21	12
3	23	30	30	127	45	35	74	47	33	27	19	13
4	21	25	37	59	48	33	64	45	31	27	25	15
5	22	25	50	47	82	33	60	46	29	30	21	14
6	23	25	38	45	55	55	60	45	30	29	19	14
7	22	25	34	128	47	347	57	46	27	30	20	11
8	26	25	27	106	44	108	57	49	27	27	21	12
9	46	25	36	134	43	63	57	49	27	24	21	13
10	35	27	69	177	39	49	116	45	26	22	18	13
11	29	27	40	124	47	54	190	43	25	23	17	12
12	25	27	40	82	49	50	272	56	28	22	18	15
13	26	27	37	72	48	48	167	94	63	22	17	12
14	25	27	38	65	40	46	108	69	47	22	16	13
15	26	29	36	58	40	39	89	53	39	19	17	13
16	37	29	31	49	35	39	81	49	55	20	17	22
17	39	29	28	47	39	53	73	45	74	19	17	20
18	29	29	31	48	50	73	71	43	45	26	14	16
19	26	30	30	44	40	51	67	41	38	25	13	14
20	28	38	33	41	40	49	64	40	36	23	13	16
21	26	36	31	42	34	47	61	40	33	21	14	15
22	25	33	35	44	43	74	59	54	32	20	15	16
23	25	29	44	44	39	85	59	45	28	39	16	16
24	26	29	37	47	33	59	58	38	24	36	16	17
25	25	29	33	45	31	52	54	36	24	25	16	15
26	24	26	28	39	37	47	60	35	25	23	16	13
27	24	28	27	52	39	54	63	37	28	20	15	16
28	25	33	29	47	37	468	55	61	173	25	13	18
29	41	35	31	42	37	229	50	45	103	24	15	17
30	46	40	29	44		116	50	38	42	21	15	17
31	35		29	40		92		33		18	14	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	48	53	79	56	65	105	72	† 93	40	† 34	51
2	16	134	52	62	61	69	101	72	† 74	47	† 32	48
3	15	58	49	62	56	69	109	82	56	61	† 30	45
4	15	42	49	65	50	64	169	87	65	102	† 50	83
5	16	35	48	69	52	58	136	72	69	57	† 43	112
6	28	35	48	62	43	56	105	† 102	443	47	† 37	61
7	53	77	47	59	56	64	151	† 128	179	40	† 36	51
8	29	142	44	55	126	125	126	† 108	95	37	† 32	45
9	23	135	42	73	112	89	105	† 128	78	33	† 32	42
10	20	590	42	174	57	65	93	† 148	70	34	† 30	40
11	20	214	47	92	† 63	53	89	† 118	78	33	† 34	38
12	18	104	87	83	† 58	61	171	† 102	59	33	† 48	35
13	16	78	107	72	† 52	67	410	94	103	32	† 42	37
14	17	69	83	61	65	144	168	86	77	32	† 39	70
15	18	62	68	61	72	141	130	83	55	33	† 46	169
16	19	58	43	59	76	116	121	87	51	39	† 29	237
17	59	58	40	59	69	86	158	114	55	49	27	161
18	155	55	35	55	79	78	203	87	67	39	34	96
19	100	158	46	58	97	99	139	72	54	33	46	70
20	50	320	49	62	128	307	117	73	47	30	52	60
21	38	114	45	52	184	419	106	106	46	30	86	57
22	29	83	48	49	94	261	101	76	43	30	272	54
23	27	69	50	62	83	148	93	65	42	28	187	52
24	29	64	62	59	76	130	90	69	39	29	305	53
25	27	61	133	52	75	114	90	94	36	27	159	54
26	27	68	126	80	90	129	93	73	39	29	75	50
27	52	62	87	107	65	143	82	† 64	44	33	56	49
28	69	51	220	78	62	117	78	† 108	43	30	59	59
29	40	48	170	68		110	76	† 88	40	29	82	90
30	34	50	106	62		93	75	† 78	38	† 29	62	90
31	29		90	56		93		† 128		† 32	51	

† Estimated.

Swimming River near Red Bank
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	42	37	59	43	47	309	59	50	26	27	22
2	65	42	35	131	45	47	141	62	46	28	27	21
3	51	42	36	75	43	64	102	144	41	27	27	22
4	48	39	44	56	40	367	90	292	41	28	27	38
5	56	39	55	91	45	553	83	168	43	25	25	27
6	69	67	47	290	45	326	76	107	41	25	23	25
7	52	109	44	148	43	171	94	80	39	28	24	25
8	48	61	41	158	41	117	110	69	37	51	23	237
9	48	49	42	110	‡ 38	90	84	65	37	30	23	1 320
10	45	48	34	87	38	86	76	66	39	26	25	181
11	43	43	36	76	37	65	72	65	40	26	23	91
12	43	42	31	71	39	75	114	62	48	25	27	63
13	47	43	35	71	42	79	90	59	67	24	49	54
14	50	47	37	86	‡ 40	109	76	56	43	24	36	49
15	45	42	37	71	‡ 39	142	72	65	39	† 25	30	49
16	40	38	45	63	‡ 38	104	81	89	35	† 28	32	46
17	45	36	68	56	‡ 37	100	162	69	32	† 26	38	515
18	53	43	79	45	37	† 94	102	59	32	† 25	31	277
19	45	44	61	55	42	† 88	83	53	83	† 25	27	† 100
20	43	43	66	52	43	† 80	87	50	94	29	25	† 75
21	43	39	137	52	29	† 72	84	51	48	32	23	† 64
22	40	42	81	53	37	† 68	72	55	38	† 30	23	† 58
23	40	39	58	82	58	† 60	70	154	38	28	22	† 70
24	49	39	49	83	56	54	65	82	39	25	21	† 62
25	69	37	47	61	53	60	79	69	35	36	21	† 54
26	50	39	44	64	48	63	69	94	31	38	37	† 50
27	47	44	43	55	46	69	69	79	30	26	31	† 48
28	44	41	40	55	46	98	76	82	30	32	28	† 45
29	43	39	‡ 37	51		98	64	56	32	90	36	† 44
30	43	39	37	29		72	62	60	28	53	28	† 150
31	43		37	38		87		53		34	26	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	103	46	57.0	1.19	1.37
November	79	43	51.3	1.07	1.19
December	91	44	56.2	1.17	1.35
Calendar year, 1928	544	43	99.7	2.08	28.28
January, 1929	175	40	78.4	1.63	1.88
February	521	46	111	2.31	2.40
March	366	73	121	2.52	2.90
April	620	69	162	3.37	3.76
May	176	71	102	2.12	2.44
June	98	40	54.5	1.14	1.27
July	111	30	41.4	.863	.99
August	41	21	28.5	.594	.68
September	113	20	38.9	.810	.90
Year ending Sept. 30, 1929	620	20	74.8	1.56	21.13
October	202	31	57.1	1.19	1.37
November	118	18	53.3	1.11	1.24
December	142	35	56.7	1.16	1.34
Calendar year, 1929	620	18	75.0	1.56	21.18
January, 1930	165	36	67.7	1.41	1.63
February	396	51	112	2.33	2.43
March	264	64	88.0	1.83	2.11
April	151	50	68.2	1.42	1.58
May	96	33	45.5	.948	1.09
June	98	29	39.5	.823	.92
July	199	27	47.3	.985	1.14
August	97	14	27.9	.581	.67
September	29	14	19.6	.408	.46
Year ending Sept. 30, 1930	396	14	56.5	1.18	15.98

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Swimming River near Red Bank
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	47	16	24.0	0.500	0.58
November	148	28	52.0	1.08	1.20
December	166	22	43.6	.908	1.05
Calendar year, 1930	396	14	52.5	1.09	14.86
January, 1931	201	31	53.3	1.11	1.28
February	162	28	57.4	1.20	1.25
March	261	43	75.8	1.58	1.82
April	171	46	71.0	1.48	1.65
May	73	33	48.5	1.01	1.16
June	278	33	63.1	1.31	1.46
July	70	24	35.5	.740	.85
August	143	21	44.7	.931	1.07
September	36	20	26.9	.560	.62
Year ending Sept. 30, 1931	278	16	49.5	1.03	14.01
October	46	21	28.3	.590	.68
November	40	25	29.3	.610	.68
December	69	27	35.2	.733	.85
Calendar year, 1931	278	20	47.3	.985	13.37
January, 1932	177	34	68.2	1.42	1.64
February	82	31	42.5	.885	.95
March	468	33	84.6	1.76	2.03
April	272	50	82.7	1.72	1.92
May	94	33	47.6	.992	1.14
June	173	24	41.9	.873	.97
July	39	18	24.9	.519	.60
August	25	13	17.1	.356	.41
September	22	11	14.8	.308	.34
Year ending Sept. 30, 1932	468	11	43.1	.898	12.21
October	155	15	35.7	.744	.86
November	590	35	105	2.19	2.44
December	220	35	71.5	1.49	1.72
Calendar year, 1932	590	11	53.0	1.10	15.02
January, 1933	174	49	69.3	1.44	1.66
February	184	43	77.0	1.60	1.67
March	419	53	117	2.44	2.81
April	410	75	126	2.62	2.92
May	148	64	92.4	1.92	2.21
June	443	36	75.9	1.58	1.76
July	102	27	38.0	.792	.91
August	305	27	69.3	1.44	1.66
September	237	35	72.0	1.50	1.67
Year ending Sept. 30, 1933	590	15	78.9	1.64	22.29
October	69	40	48.6	1.01	1.16
November	109	36	45.2	.942	1.05
December	137	31	49.0	1.02	1.18
Calendar year, 1933	443	27	73.2	1.52	20.66
January, 1934	290	29	79.8	1.66	1.91
February	58	29	42.4	.883	.92
March	553	47	116	2.42	2.79
April	309	62	93.8	1.95	2.18
May	292	50	82.4	1.72	1.98
June	94	28	42.5	.885	.99
July	90	24	31.5	.656	.76
August	49	21	27.9	.581	.67
September	1 320	21	129	2.69	3.00
Year ending Sept. 30, 1934	1 320	21	65.8	1.37	18.59

Manasquan River at Squankum

LOCATION.- Water-stage recorder at Farmingdale-Lakewood highway bridge in Squankum, Monmouth County, and half a mile below mouth of Marshbog Brook.

DRAINAGE AREA.- 43.4 square miles.

RECORDS AVAILABLE.- July 1931 to September 1934.

AVERAGE DISCHARGE.- 3 years, 58.2 second-feet.

EXTREMES.- 1931-34; Maximum discharge, 651 second-feet Sept. 9, 1934 (gage height, 8.60 feet); minimum, 12.9 second-feet Sept. 10, 1932 (gage height, 1.36 feet).

Daily discharge, in second-feet, 1931

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1 . . .		24	29	11 . . .		55	20	21 . . .	137	27	19.6
2 . . .		23	27	12 . . .		116	20	22 . . .	235	28	20
3 . . .		23	26	13 . . .		53	21	23 . . .	74	28	19.6
4 . . .		26	27	14 . . .		38	19.6	24 . . .	50	36	18.8
5 . . .		23	26	15 . . .		52	19.6	25 . . .	42	33	18.0
6 . . .		22	25	16 . . .		60	19.6	26 . . .	36	29	28
7 . . .		21	24	17 . . .	24	40	19.6	27 . . .	31	28	29
8 . . .		20	23	18 . . .	30	33	22	28 . . .	28	36	27
9 . . .		20	22	19 . . .	35	29	21	29 . . .	27	45	24
10 . . .		22	21	20 . . .	28	27	20	30 . . .	26	47	22
								31 . . .	25	36	

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	27	31	29	41	37	107	49	34	27	18.8	15.6
2	21	26	27	105	40	37	85	51	34	26	18.0	27
3	20	24	26	83	43	36	76	47	34	23	19.6	22
4	20	23	27	50	49	33	67	45	30	23	24	17.2
5	19.6	23	35	42	77	33	62	45	28	26	19.6	16.4
6	19.6	22	30	44	57	93	61	43	27	36	18.8	15.6
7	19.6	22	27	136	50	371	58	45	27	30	18.8	15.0
8	21	22	26	106	48	108	56	47	26	24	18.8	15.0
9	29	22	31	162	46	74	56	49	26	21	18.0	14.3
10	25	22	52	188	44	64	157	46	25	20	16.4	13.6
11	22	22	41	118	43	60	273	44	25	19.6	18.0	13.6
12	21	22	36	81	45	57	348	56	28	18.8	18.0	13.6
13	20	22	33	74	47	55	† 180	100	50	18.0	16.4	13.6
14	20	21	32	64	43	53	† 120	76	41	18.0	15.6	13.6
15	20	21	31	58	40	45	† 100	60	40	17.2	15.0	† 16
16	27	21	29	55	39	50	† 85	52	68	16.4	15.0	† 26
17	26	22	28	51	40	56	74	56	66	18.0	15.0	† 20
18	23	22	27	50	50	70	70	57	46	37	15.6	† 19
19	22	23	26	48	46	58	66	45	40	25	17.2	† 17
20	22	24	26	46	42	56	63	41	36	19.6	16.4	† 16
21	21	25	26	46	39	52	61	47	33	18.0	15.6	15.6
22	20	24	29	45	39	97	56	46	32	19.6	15.0	15.0
23	20	23	37	44	40	96	55	40	28	40	15.0	15.0
24	20	23	33	47	37	65	58	40	26	28	14.3	17.2
25	19.6	23	31	45	36	58	52	37	26	20	14.3	15.0
26	19.6	22	28	42	34	55	58	34	26	26	14.3	14.3
27	18.8	22	26	50	36	59	58	34	26	20	14.3	15.6
28	19.6	24	26	51	36	436	53	71	66	18.8	18.0	18.0
29	36	26	26	48	36	259	50	45	38	28	16.4	18.0
30	36	28	26	48		120	49	38	31	26	15.0	15.6
31	31		25	45		105		35		20	14.3	

† Estimated.

Manasquan River at Squankum
(Continued)

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.0	58	50	78	56	60	86	58	62	33	18.8	† 55
2	15.0	124	49	67	60	62	84	58	53	30	18.8	† 50
3	14.3	50	48	63	56	63	86	60	47	50	18.8	† 48
4	14.3	38	48	62	52	59	141	62	45	59	26	117
5	15.0	35	48	61	52	55	109	56	60	40	24	173
6	27	33	46	58	46	51	88	70	122	35	20	90
7	50	78	45	56	52	54	141	110	68	31	20	67
8	26	113	44	53	197	98	108	90	59	28	18.8	58
9	21	108	42	82	102	76	88	121	48	30	18.8	51
10	18.8	492	41	136	65	62	80	169	42	27	17.2	47
11	18.0	243	42	83	63	52	74	127	39	26	104	43
12	17.2	108	82	73	63	53	175	104	37	26	77	43
13	17.2	80	78	63	59	58	348	92	50	27	41	43
14	17.2	69	73	60	59	142	136	82	42	26	49	80
15	17.2	62	62	58	63	151	110	70	37	26	43	165
16	17.2	58	50	55	71	112	99	80	36	27	31	260
17	19.6	55	55	53	63	83	134	91	38	31	27	181
18	114	52	94	52	74	74	178	70	37	27	61	104
19	66	177	69	55	92	118	127	62	33	26	90	80
20	40	337	48	56	157	334	102	58	32	24	74	67
21	31	110	45	50	182	415	90	67	30	22	96	62
22	27	86	45	52	92	241	84	58	27	22	311	56
23	25	73	49	53	82	133	78	60	26	22	216	51
24	24	66	67	50	73	112	74	56	26	20	366	62
25	24	62	124	48	68	98	72	58	25	20	130	51
26	23	70	98	131	78	122	70	56	27	22	82	49
27	38	64	80	118	64	122	65	51	40	26	65	47
28	57	56	188	83	60	99	63	53	33	24	173	45
29	37	52	152	70		224	62	51	29	22	239	68
30	30	51	95	63		81	58	49	28	20	97	65
31	27		89	59		78		53		20	† 65	

Daily discharge, in second-feet,

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	51	38	36	79	47	† 48	308	56	44	26	19.6	18.0
2	49	38	35	133	49	† 52	133	55	40	25	18.0	17.2
3	46	38	36	72	‡ 46	111	101	159	38	24	19.6	17.2
4	43	37	44	61	‡ 44	401	89	296	37	24	19.6	20
5	51	36	47	111	45	490	84	187	37	24	18.0	20
6	58	74	† 46	292	‡ 45	275	75	112	36	23	17.2	18.0
7	49	85	† 44	136	44	146	86	90	37	22	17.2	18.8
8	45	59	† 41	153	42	112	94	76	38	40	16.4	111
9	43	49	† 39	107	‡ 41	96	78	68	40	34	16.4	538
10	41	45	† 36	89	‡ 40	86	70	68	37	26	17.2	140
11	39	42	35	78	‡ 40	77	67	69	35	25	16.4	68
12	39	41	34	69	‡ 42	75	107	68	40	25	18.8	50
13	41	40	33	72	44	78	86	63	69	24	33	41
14	43	45	34	84	‡ 43	118	75	63	41	25	26	38
15	41	43	34	72	‡ 41	140	72	66	34	24	24	36
16	40	39	46	66	‡ 40	102	92	88	32	25	23	35
17	46	37	64	62	39	95	178	67	33	22	25	189
18	50	41	69	55	39	89	† 100	59	30	21	24	259
19	43	44	53	55	40	84	† 78	55	82	20	21	78
20	42	43	82	52	39	74	† 84	62	79	21	19.6	58
21	41	41	139	51	† 37	67	† 74	51	48	23	18.8	48
22	40	40	80	51	† 40	63	† 66	50	38	21	18.8	45
23	39	39	62	86	† 56	57	† 62	98	40	19.6	18.0	53
24	48	38	55	73	† 55	55	† 61	65	35	18.8	18.0	46
25	57	37	50	62	† 52	58	† 78	69	32	26	17.2	42
26	47	38	50	58	† 50	59	† 64	78	32	26	22	39
27	43	42	‡ 47	56	† 48	62	† 64	66	28	22	20	37
28	42	39	‡ 45	57	† 48	107	† 75	55	28	21	20	35
29	40	38	‡ 43	‡ 54		93	† 60	50	29	22	25	34
30	39	37	‡ 40	‡ 47		73	57	51	27	21	20	72
31	39		‡ 45	47		116		50		21	18.8	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Manasquan River at Squankum
(Continued)

Monthly and annual discharge, in second-feet, 1931-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930					
November					
December					
Calendar year, 1930					
January, 1931					
February					
March					
April					
May					
June					
July 17-31, 1931	235	24	55.2	1.27	0.71
August	116	20	35.5	.818	.94
September	29	18.8	22.6	.521	.58
Year ending Sept. 30, 1931					
October	36	18.8	22.6	.521	.60
November	28	21	23.1	.532	.59
December	52	25	30.1	.694	.80
Calendar year, 1931					
January, 1932	188	29	67.8	1.56	1.80
February	77	34	43.6	1.00	1.08
March	436	33	91.9	2.12	2.44
April	348	49	90.5	2.09	2.33
May	100	34	49.1	1.13	1.30
June	68	25	35.4	.816	.91
July	40	16.4	23.5	.541	.62
August	24	14.3	16.6	.382	.44
September	27	13.6	16.6	.382	.43
Year ending Sept. 30, 1932	436	13.6	42.6	.982	13.34
October	114	14.3	29.1	.671	.77
November	492	33	102	2.35	2.62
December	188	41	69.2	1.59	1.83
Calendar year, 1932	492	13.6	52.9	1.22	16.57
January, 1933	136	48	67.8	1.56	1.80
February	197	46	78.6	1.81	1.88
March	415	51	114	2.63	3.03
April	348	58	107	2.47	2.76
May	169	49	74.3	1.71	1.97
June	122	25	42.6	.982	1.10
July	59	20	28.0	.645	.74
August	366	17.2	85.1	1.96	2.26
September	260	43	79.3	1.83	2.04
Year ending Sept. 30, 1933	492	14.3	73.0	1.68	22.80
October	58	39	44.4	1.02	1.18
November	85	36	43.4	1.00	1.12
December	139	33	49.8	1.15	1.33
Calendar year, 1933	415	17.2	67.8	1.56	21.21
January, 1934	292	47	81.9	1.89	2.18
February	56	37	44.1	1.02	1.06
March	490	48	115	2.65	3.06
April	308	57	90.6	2.09	2.33
May	296	50	81.0	1.87	2.16
June	82	27	39.9	.919	1.03
July	40	18.8	23.9	.551	.64
August	33	16.4	20.2	.465	.54
September	538	17.2	74.0	1.71	1.91
Year ending Sept. 30, 1934	538	16.4	59.1	1.36	18.54

Toms River near Toms River

LOCATION.- Water-stage recorder 1 mile below mouth of Union Branch and 2 1/2 northwest of village of Toms River, Ocean County.

DRAINAGE AREA.- 124 square miles.

RECORDS AVAILABLE.- December 1928 to September 1934.

AVERAGE DISCHARGE.- 5 years, 174 second-feet.

EXTREMES.- 1928-34: Maximum discharge, 851 second-feet Apr. 18, 1929 (gage height, 8.95 feet); minimum, 63 second-feet Sept. 15, 16, 1932 (gage height, 3.01 feet).

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				157	190	528	202	388	190	179	99	99
2				168	179	514	202	375	179	157	94	89
3				168	179	457	190	362	157	152	89	84
4				168	168	415	190	324	157	130	104	84
5				157	157	401	179	298	157	135	114	84
6				202	168	485	190	285	179	157	99	146
7				237	213	602	202	285	179	157	99	157
8				261	249	602	202	298	168	140	109	202
9				261	285	514	190	311	179	119	89	225
10				249	336	429	190	298	190	124	89	225
11				261	336	349	190	273	179	114	104	261
12				261	324	324	225	261	168	104	135	249
13				249	273	298	249	249	157	109	130	179
14				213	249	285	273	249	152	104	124	157
15				202	225	285	298	273	152	119	130	146
16				290	213	285	396	285	157	114	130	130
17				† 180	202	273	558	285	146	104	104	119
18				† 220	190	261	803	273	135	104	94	130
19				† 240	190	249	724	261	124	119	99	130
20				225	190	237	572	285	124	152	99	114
21				225	190	225	457	311	152	140	99	109
22				202	190	225	415	298	157	119	94	114
23				202	202	225	401	298	140	109	89	104
24				202	190	225	401	261	135	109	89	99
25				213	190	225	388	249	140	109	99	99
26				249	237	225	349	225	190	119	89	94
27				261	311	225	† 340	202	190	104	84	94
28			157	285	388	225	† 320	202	168	104	84	94
29			168	261		225	† 340	202	179	99	84	94
30			168	225		213	349	190	190	99	89	99
31			157	202		213		179		94	94	

† Estimated.

Toms River near Toms River
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	146	190	135	213	179	† 280	179	† 160	130	114	104	89
2	213	190	140	202	179	† 260	179	† 150	130	109	99	89
3	249	202	146	190	179	† 240	168	† 150	146	119	84	94
4	273	249	152	190	190	225	168	† 150	130	124	84	99
5	324	273	146	190	225	202	168	† 140	124	135	79	94
6	324	298	140	179	249	190	168	† 140	114	152	84	84
7	225	298	140	179	273	202	202	† 140	109	140	84	84
8	179	273	146	168	273	249	225	† 140	124	140	79	84
9	168	237	146	168	237	298	249	† 140	140	130	79	84
10	152	213	146	168	213	362	237	† 140	202	157	84	84
11	146	202	146	157	202	429	213	† 140	249	179	74	79
12	135	190	140	157	190	388	202	135	311	190	74	79
13	130	179	140	157	190	311	190	135	375	† 179	70	79
14	124	179	146	168	249	273	179	146	311	152	74	84
15	119	179	157	190	298	249	179	237	237	146	89	89
16	130	179	152	213	349	237	179	273	202	140	104	84
17	140	179	152	213	362	225	190	324	168	119	109	89
18	140	202	146	225	336	202	202	336	179	104	104	89
19	130	213	168	237	273	213	213	298	168	109	94	84
20	130	225	179	237	273	225	213	261	157	104	89	79
21	124	225	202	273	273	237	202	237	130	94	84	79
22	130	202	179	249	273	225	202	190	135	99	84	74
23	168	190	179	225	261	202	† 190	179	130	124	128	79
24	190	179	190	202	249	202	† 190	168	114	146	179	79
25	213	179	190	190	261	202	† 180	179	119	179	190	74
26	225	168	179	179	† 260	202	† 180	168	109	190	202	79
27	190	157	179	168	† 280	202	† 170	152	124	190	157	79
28	168	157	168	179	† 280	190	† 170	146	140	152	124	79
29	157	152	179	179		190	† 160	179	130	130	109	70
30	157	146	190	179		179	† 160	168	119	119	99	† 70
31	168		213	179		179		146		109	89	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	73	116	133	179	127	136	349	190	155	107	104	117
2	73	112	140	157	124	152	362	179	174	109	93	112
3	73	105	133	139	122	155	349	174	174	121	94	102
4	75	110	124	132	120	150	349	162	162	120	92	106
5	74	144	121	132	119	149	292	156	147	110	102	103
6	73	155	119	162	117	146	249	155	137	121	95	99
7	73	157	118	168	116	140	231	154	127	120	89	94
8	73	147	117	179	116	178	225	168	156	126	85	90
9	74	131	114	168	124	237	237	184	190	127	83	87
10	74	124	111	157	155	273	231	202	213	132	87	85
11	73	115	109	145	168	311	213	219	225	157	133	83
12	72	110	108	† 140	174	292	196	255	237	202	225	83
13	72	106	108	† 140	168	237	184	324	243	249	237	83
14	74	105	106	† 160	174	202	174	336	213	213	255	83
15	119	135	104	† 160	168	184	168	311	184	168	255	78
16	126	156	100	148	162	174	162	311	208	174	213	77
17	127	179	94	147	157	174	156	311	249	184	202	90
18	118	208	98	137	179	168	153	273	279	162	202	86
19	104	225	97	150	190	162	154	231	318	162	162	83
20	98	219	100	179	202	168	147	208	279	157	133	81
21	93	196	102	196	202	168	144	208	202	149	128	81
22	90	174	101	196	179	174	143	190	162	184	124	77
23	90	152	98	168	168	168	155	196	157	208	116	77
24	90	138	97	157	156	157	168	196	174	225	157	75
25	89	132	95	147	148	157	168	179	174	184	184	75
26	87	125	99	142	144	162	184	184	157	148	184	100
27	86	120	148	139	139	157	225	179	143	130	162	127
28	86	116	174	137	135	154	225	174	131	118	150	120
29	102	108	202	135		225	225	168	120	124	150	106
30	107	111	231	133		249	208	146	113	122	149	97
31	114		213	130		304		142		118	138	

† Estimated

Toms River near Toms River
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	162	121	106	162	124	471	190	184	132	83	71
2	89	142	122	152	† 150	124	375	190	162	124	83	79
3	85	130	112	174	† 150	122	336	190	148	116	89	84
4	83	121	109	179	† 160	121	304	184	138	112	114	96
5	82	113	117	174	† 180	121	267	184	132	114	117	96
6	83	109	123	162	† 180	147	243	179	131	122	106	90
7	78	115	117	184	184	267	225	179	134	118	100	84
8	82	107	111	208	184	184	213	179	138	117	94	79
9	113	102	† 110	255	184	415	213	190	132	105	92	75
10	122	100	† 110	311	162	457	261	190	134	100	85	72
11	127	99	† 130	375	150	368	330	190	138	94	93	71
12	† 120	97	† 150	388	152	279	479	198	123	90	93	70
13	† 110	96	† 130	362	155	237	663	242	157	83	88	68
14	100	95	† 120	298	162	208	647	267	190	83	82	65
15	95	94	† 110	261	140	190	543	† 340	213	82	79	63
16	126	94	† 110	231	134	179	429	† 320	208	83	77	72
17	139	94	† 110	208	137	179	349	† 260	208	83	76	89
18	140	94	† 100	190	149	196	304	† 220	208	123	76	90
19	125	95	† 100	184	152	202	267	† 200	190	142	80	72
20	110	105	† 100	184	148	208	231	† 200	174	125	80	68
21	114	104	† 110	168	142	202	231	† 200	156	111	78	70
22	99	99	† 110	157	153	219	231	† 190	162	109	75	82
23	104	98	† 120	157	145	249	213	184	156	109	73	81
24	99	96	† 120	157	135	273	213	168	146	120	72	72
25	94	95	† 120	154	130	292	208	168	132	111	71	68
26	90	94	† 110	150	127	267	196	157	124	109	70	68
27	88	93	† 110	157	127	237	213	152	123	99	70	71
28	87	98	† 110	162	127	311	219	174	162	94	71	76
29	113	104	† 100	162	123	375	213	184	157	93	72	77
30	144	110	† 100	162		588	196	184	146	102	72	74
31	155		102	162		572		184		97	71	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	143	184	292	231	196	249	† 190	190	103	80	363
2	67	157	184	255	219	190	243	† 190	196	106	77	318
3	66	168	174	231	207	190	237	† 190	219	123	77	249
4	64	184	174	207	201	190	249	† 190	219	152	87	225
5	74	184	174	196	190	184	255	† 190	196	157	99	225
6	86	162	168	190	184	179	267	† 200	184	152	96	249
7	121	174	162	184	184	174	285	† 220	174	131	87	279
8	133	184	157	174	219	190	285	† 240	162	114	86	279
9	128	219	146	184	231	201	292	† 280	157	110	80	225
10	105	304	139	207	261	213	285	† 320	145	117	77	190
11	96	408	146	225	261	207	261	† 360	137	120	108	168
12	89	557	174	249	243	196	† 260	† 360	131	114	136	162
13	85	514	179	237	225	190	† 280	† 340	130	108	145	162
14	86	416	190	219	219	213	† 320	† 320	132	104	152	162
15	84	318	190	201	213	243	† 420	† 300	133	101	146	184
16	82	255	179	190	207	279	† 400	318	127	106	152	225
17	87	225	168	179	213	311	† 400	318	126	117	130	267
18	159	201	157	174	219	304	† 380	304	138	121	133	304
19	174	227	162	174	219	279	† 380	261	138	109	168	298
20	196	273	162	174	243	292	† 360	231	124	100	184	249
21	201	324	162	174	273	350	† 340	231	120	94	231	201
22	174	458	157	168	298	430	† 320	225	117	91	337	184
23	144	416	162	168	318	500	† 280	213	111	88	416	168
24	128	337	168	162	298	458	† 260	207	103	84	602	157
25	119	273	190	162	255	389	† 240	213	100	79	755	152
26	114	243	207	207	237	337	† 220	201	96	88	787	146
27	130	225	231	243	219	311	† 200	190	103	106	602	142
28	143	219	267	285	207	304	† 200	184	106	119	430	136
29	152	207	285	324		292	† 200	179	104	108	376	152
30	152	196	311	304		273	† 200	184	98	100	363	168
31	136		318	261		255		184		83	376	

† Estimated.

Toms River near Toms River
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	176	121	120	144	146	137	286	202	176	126	† 100	77
2	170	131	117	164	145	142	307	188	176	124	† 100	75
3	152	137	116	182	146	164	351	242	158	114	† 102	76
4	142	138	123	195	146	215	351	286	152	107	† 108	97
5	140	122	128	208	146	286	317	351	145	105	† 110	107
6	152	143	131	249	145	339	274	486	140	105	† 107	100
7	146	158	130	274	143	458	256	472	133	100	† 95	94
8	140	170	128	317	142	486	242	389	128	100	† 85	143
9	134	182	126	339	137	416	242	307	128	119	† 77	268
10	128	176	123	328	136	351	236	256	126	131	74	317
11	125	164	120	286	119	286	222	249	123	121	76	402
12	123	152	117	249	122	262	229	236	133	106	87	376
13	125	143	114	236	134	256	229	256	170	103	94	286
14	136	142	113	242	135	249	249	280	182	107	103	195
15	132	144	113	229	138	256	242	262	176	109	102	164
16	127	140	122	215	135	262	242	268	142	104	99	143
17	132	135	137	195	132	268	274	280	126	95	109	138
18	135	133	152	182	127	262	286	280	122	90	104	146
19	139	136	158	170	130	249	297	307	158	90	96	188
20	139	138	170	164	127	236	297	280	256	91	89	274
21	134	136	195	164	142	222	274	222	280	94	82	236
22	128	134	202	158	139	208	249	208	286	95	79	164
23	127	132	222	170	158	188	236	195	286	† 95	77	135
24	128	130	215	182	152	176	215	182	280	† 95	75	133
25	128	126	188	195	158	176	215	202	274	† 100	75	127
26	130	125	176	195	152	176	215	229	229	125	78	119
27	130	126	176	182	158	176	222	262	176	† 125	82	116
28	127	127	158	176	152	202	229	242	152	† 120	81	116
29	127	124	158	170		222	222	242	144	† 110	89	113
30	124	122	152	158		229	215	229	133	† 104	91	125
31	123		137	152		249		202		† 100	81	

Monthly and annual discharge, in second-feet, 1929-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, November December					
Calendar year,					
January, 1929	285	157	219	1.77	2.04
February	388	157	229	1.85	1.93
March	602	213	330	2.66	3.07
April	803	179	333	2.69	3.00
May	388	179	275	2.22	2.56
June	190	124	162	1.31	1.46
July	179	94	123	.992	1.14
August	135	84	101	.815	.94
September	261	84	134	1.08	1.20
Year ending Sept. 30, 1929	.....	.....	.....	.....	.....
October	324	119	176	1.42	1.64
November	298	146	204	1.65	1.84
December	213	135	162	1.31	1.51
Calendar year, 1929	803	84	204	1.65	22.33
January, 1930	273	157	194	1.56	1.80
February	362	179	252	2.03	2.11
March	429	179	241	1.94	2.24
April	249	† 160	190	1.53	1.71
May	336	135	182	1.47	1.70
June	375	109	165	1.33	1.48
July	190	94	138	1.11	1.28
August	202	70	103	.831	.96
September	99	70	82.7	.667	.74
Year ending Sept. 30, 1930	429	70	174	1.40	19.01

† Estimated.

Toms River near Toms River
(Continued)

Monthly and annual discharge, in second-feet, 1929-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	127	72	88.8	0.716	0.83
November	225	105	141	1.14	1.27
December	231	94	123	.992	1.14
Calendar year, 1930	429	70	158	1.27	17.26
January, 1931	196	130	154	1.24	1.43
February	202	116	152	1.23	1.28
March	311	136	189	1.52	1.75
April	362	143	214	1.73	1.93
May	336	142	209	1.69	1.95
June	318	113	187	1.51	1.68
July	249	107	153	1.23	1.42
August	255	83	148	1.19	1.37
September	127	75	91.8	.740	.83
Year ending Sept. 30, 1931	362	72	154	1.24	16.88
October	155	78	106	.855	.99
November	162	93	105	.847	.94
December	150	100	114	.919	1.06
Calendar year, 1931	362	75	152	1.23	16.63
January, 1932	388	106	204	1.65	1.90
February	184	123	151	1.22	1.32
March	588	121	255	2.06	2.38
April	663	196	309	2.49	2.78
May	340	152	201	1.62	1.87
June	213	123	157	1.27	1.42
July	142	82	107	.863	.99
August	117	70	83.3	.672	.77
September	96	63	76.4	.616	.69
Year ending Sept. 30, 1932	663	63	156	1.26	17.11
October	201	64	118	.952	1.10
November	557	143	272	2.19	2.44
December	318	139	188	1.52	1.75
Calendar year, 1932	663	63	177	1.43	19.41
January, 1933	324	162	213	1.72	1.98
February	318	184	232	1.87	1.95
March	500	174	268	2.16	2.49
April	420	200	286	2.31	2.58
May	360	179	243	1.96	2.26
June	219	96	141	1.14	1.27
July	157	79	110	.887	1.02
August	787	77	244	1.97	2.27
September	363	136	213	1.72	1.92
Year ending Sept. 30, 1933	787	64	210	1.69	23.03
October	176	123	135	1.09	1.26
November	182	121	140	1.13	1.26
December	222	113	146	1.18	1.36
Calendar year, 1933	787	77	197	1.59	21.62
January, 1934	339	144	209	1.69	1.95
February	158	119	141	1.14	1.19
March	486	137	252	2.03	2.34
April	351	215	257	2.07	2.31
May	486	182	267	2.15	2.48
June	286	122	176	1.42	1.58
July	131	90	107	.863	.99
August	110	74	90.5	.730	.84
September	402	75	168	1.35	1.51
Year ending Sept. 30, 1934	486	74	174	1.40	19.07

Cedar Creek at Lanoka Harbor

LOCATION.- Water-stage recorder at highway bridge in Lanoka Harbor, Ocean County, recorder located 20 feet downstream from bridge prior to Oct. 14, 1933 and 30 feet above bridge thereafter.

DRAINAGE AREA.- 56.0 square miles.

RECORDS AVAILABLE.- July 1932 to September 1934.

AVERAGE DISCHARGE.- 2 years, 102 second-feet.

EXTREMES.- 1932-34: Maximum discharge, 510 second-feet May 4, 1934 (gage height, 4.75 feet); minimum, 20 second-feet Oct. 15, 1932 (gage height, 0.92 foot at former gage site).

Daily discharge, in second-feet, 1932

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1		30	65	11	49	70	54	21	88	56	51
2		104	67	12	32	66	48	22	81	54	56
3		56	62	13	48	62	46	23	84	52	54
4		96	63	14	51	58	44	24	79	52	42
5		94	67	15	50	56	47	25	76	50	44
6		85	59	16	50	57	58	26	67	49	38
7	66	80	53	17	56	57	62	27	62	51	53
8	74	76	64	18	82	62	52	28	72	55	47
9	87	66	96	19	87	65	49	29	89	52	46
10	73	63	65	20	90	61	48	30	95	45	41
								31	32	45	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	94	91	119	110	90	125	89	61	69	64	250
2	48	116	81	107	104	88	155	89	23	71	64	217
3	47	81	76	99	95	89	129	87	79	90	70	188
4	46	72	73	96	87	88	85	68	188	96	80	176
5	52	81	76	90	89	84	85	59	109	97	80	166
6	65	92	78	85	54	80	106	92	91	83	72	156
7	57	82	79	81	96	80	130	188	85	76	60	148
8	55	116	72	80	124	96	140	166	84	74	66	98
9	52	184	36	88	129	95	229	158	57	77	63	111
10	51	293	48	109	125	91	133	171	28	81	62	116
11	49	201	66	112	128	86	116	176	134	77	82	113
12	48	176	81	113	125	82	136	160	80	75	85	112
13	49	160	87	109	112	81	180	148	72	72	78	113
14	44	144	106	105	105	98	184	130	63	70	81	116
15	46	134	123	101	103	118	171	129	66	69	87	144
16	36	85	83	92	104	130	160	130	63	72	80	188
17	41	80	60	87	104	127	159	133	67	73	76	229
18	134	96	41	83	103	119	166	111	72	69	93	206
19	141	139	49	82	105	116	166	100	68	65	146	180
20	126	166	56	83	118	144	160	101	† 68	62	192	166
21	100	160	63	78	137	180	140	107	67	62	206	160
22	71	145	65	75	138	196	128	105	66	61	293	124
23	67	130	66	81	133	192	118	94	62	60	313	115
24	66	115	74	79	126	184	111	93	60	58	456	109
25	63	104	90	79	117	171	107	97	58	54	381	105
26	62	101	98	117	111	166	104	102	62	83	293	103
27	98	102	96	188	105	160	101	78	68	83	236	102
28	129	80	113	196	97	153	96	67	70	71	212	99
29	81	28	132	166		136	94	77	68	79	275	112
30	80	72	135	146		124	91	101	66	81	266	136
31	54		132	126		116		87		56	258	

† Estimated.

Cedar Creek at Lanoka Harbor
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	133	82	55	74	89	‡ 64	151	103	111	76	72	52
2	122	62	59	76	89	64	154	151	84	74	64	55
3	112	89	64	76	89	89	154	149	87	74	82	55
4	108	82	69	76	87	118	151	220	87	74	89	66
5	114	82	76	87	84	178	148	271	87	69	87	69
6	119	103	79	111	82	196	204	176	87	69	82	66
7	122	128	79	116	‡ 76	182	158	157	84	69	74	66
8	118	121	76	121	‡ 72	177	137	142	76	69	72	85
9	102	118	79	123	‡ 69	168	128	139	76	69	69	165
10	96	106	84	144	‡ 67	153	123	128	58	66	69	182
11	67	95	62	135	66	140	118	125	26	66	66	182
12	94	92	54	116	69	130	113	114	68	62	69	175
13	84	89	76	108	72	121	91	74	178	64	74	157
14	84	87	74	108	76	121	100	144	108	69	74	123
15	66	111	72	106	74	123	113	111	100	69	74	100
16	100	87	74	103	74	121	116	118	95	69	79	89
17	92	82	82	100	74	121	106	91	89	69	95	87
18	82	82	84	98	74	121	168	158	82	69	100	87
19	79	79	87	95	74	121	184	144	98	66	95	79
20	79	79	95	92	79	121	157	113	167	64	84	74
21	84	79	118	89	82	118	133	108	144	66	82	74
22	87	79	121	89	82	113	125	103	133	82	76	74
23	84	79	113	89	84	111	125	103	118	72	72	76
24	84	79	108	95	‡ 78	106	123	45	103	69	69	76
25	87	67	98	95	‡ 71	106	121	84	89	69	66	76
26	64	26	98	95	‡ 67	106	118	195	84	76	38	74
27	95	46	108	92	‡ 65	106	116	137	87	76	55	72
28	89	62	106	92	‡ 64	116	111	111	84	82	62	72
29	64	66	59	89		125	95	116	76	79	64	72
30	79	62	52	48		125	89	121	76	72	62	74
31	89		66	89		128		108		74	52	

Monthly and annual discharge, in second-feet, 1932-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
July 7-31, 1932	95	32	68.8	1.23	1.14
August	104	30	62.2	1.11	1.28
September	96	38	54.7	.977	1.09
October, 1932	141	36	68.2	1.22	1.41
November	293	28	121	2.16	2.41
December	135	36	81.5	1.45	1.67
Calendar year, 1932					
January, 1933	196	75	105	1.87	2.16
February	138	54	110	1.97	2.05
March	196	80	121	2.17	2.50
April	229	85	134	2.39	2.67
May	188	59	113	2.01	2.32
June	188	23	73.5	1.31	1.46
July	97	54	73.1	1.30	1.50
August	456	62	157	2.80	3.23
September	250	98	145	2.59	2.89
Year ending Sept. 30, 1933	456	23	108	1.93	26.27
October	133	64	92.9	1.66	1.91
November	128	26	83.4	1.49	1.66
December	121	52	81.5	1.46	1.68
Calendar year, 1933	456	23	107	1.91	26.03
January, 1934	144	48	97.6	1.74	2.01
February	89	64	76.0	1.36	1.42
March	196	64	125	2.22	2.56
April	204	89	131	2.34	2.61
May	271	45	131	2.34	2.70
June	178	26	94.7	1.69	1.89
July	82	62	70.7	1.26	1.45
August	100	38	73.2	1.31	1.51
September	182	52	91.8	1.64	1.83
Year ending Sept. 30, 1934	271	26	95.9	1.71	23.23

‡ Estimated, stage-discharge relation affected by ice.

Batsto River at Batsto

LOCATION.- Water-stage recorder 30 feet downstream from new highway bridge in Batsto, Burlington County, and 1 mile upstream from confluence with Mullica River.

DRAINAGE AREA.- 70 square miles.

RECORDS AVAILABLE.- October 1927 to September 1934.

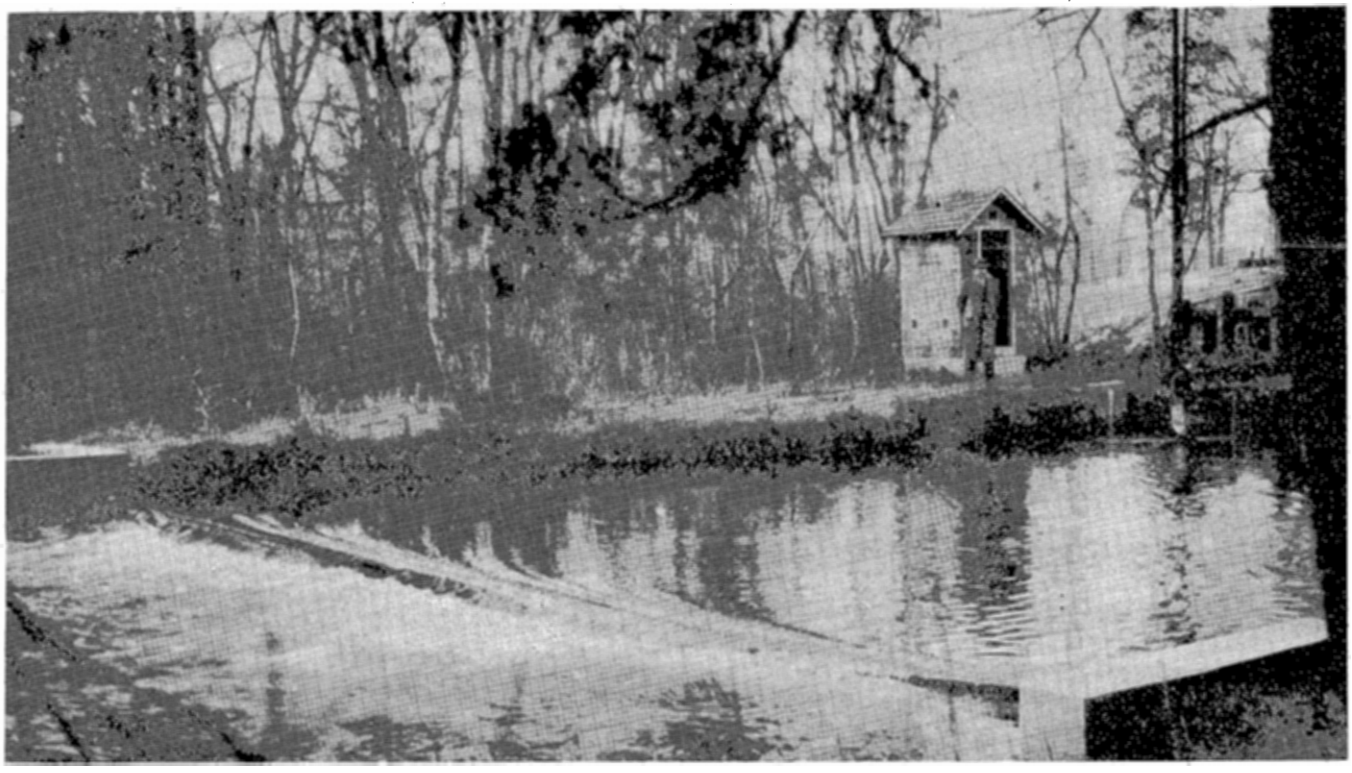
AVERAGE DISCHARGE.- 7 years, 112 second-feet.

REMARKS.- Records of discharge include water diverted around station by old gristmill. Flow regulated slightly by operation of sluice gates in dam 300 feet upstream and occasionally by operation of saw mill at dam.

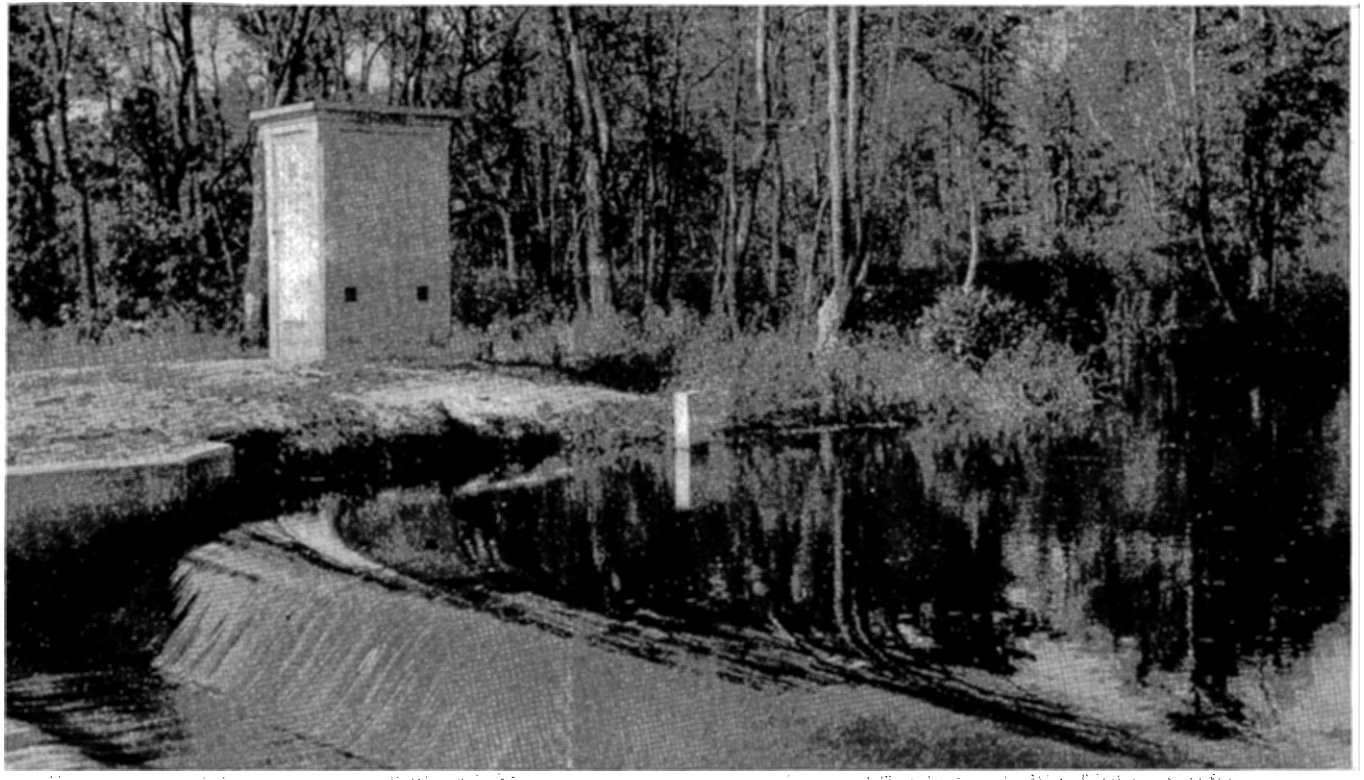
Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	136	81	98	80	98	405	104	206	104	88	60	53
2	136	84	98	83	98	367	99	233	99	40	62	53
3	125	93	98	84	103	264	104	219	88	32	56	52
4	119	98	98	87	114	245	104	182	80	61	60	51
5	109	103	98	87	103	274	99	167	77	64	56	55
6	114	103	93	119	87	259	104	144	82	64	51	68
7	103	98	93	119	124	422	104	149	90	66	54	72
8	93	98	93	125	129	382	104	143	110	64	57	75
9	93	93	93	142	158	317	99	166	110	63	52	72
10	93	93	87	157	179	330	99	167	104	60	51	71
11	87	93	87	154	192	218	99	176	94	64	75	63
12	87	93	87	160	192	171	104	206	85	57	74	64
13	86	93	87	169	179	166	130	185	77	57	68	65
14	87	93	93	140	144	166	161	193	82	57	68	64
15	84	87	103	115	131	160	167	166	84	56	82	62
16	83	86	109	109	125	166	312	172	80	56	94	61
17	83	87	103	103	117	166	334	155	71	56	78	61
18	84	84	98	96	114	154	378	149	71	54	69	65
19	103	85	93	106	109	148	315	149	74	57	60	62
20	114	98	93	119	109	142	238	167	149	56	58	60
21	103	98	93	119	109	129	216	193	100	54	56	57
22	98	103	93	116	109	136	224	193	39	56	54	58
23	93	98	† 95	120	114	142	219	193	82	57	53	58
24	93	93	† 95	120	114	128	199	193	78	57	51	57
25	93	93	† 85	128	118	109	206	180	163	57	53	53
26	93	87	† 85	123	166	109	206	155	94	58	53	53
27	87	83	† 85	129	301	109	177	143	85	60	53	54
28	87	83	87	142	441	103	176	131	85	56	53	54
29	87	81	86	142		105	180	114	94	57	53	53
30	86	87	83	127		103	193	120	99	73	54	58
31	83		80	105		103		101		50	54	

† Estimated.



Gaging station on Batsto River at Batsto



Gaging station on Great Egg River at Folsom

Batsto River at Batsto
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	79	99	77	85	97	140	84	72	78	79	60	59
2	99	104	79	82	97	128	84	72	72	73	61	55
3	104	104	87	86	97	112	84	72	65	120	59	56
4	115	121	87	86	102	101	84	65	78	123	58	50
5	110	121	83	85	113	107	84	78	72	101	56	50
6	93	155	83	86	118	91	84	72	65	103	55	58
7	88	167	83	86	129	91	101	65	65	103	55	52
8	79	161	80	76	141	135	101	65	65	98	54	54
9	74	127	87	73	135	78	101	65	163	98	51	46
10	68	120	86	75	124	230	96	72	117	93	59	52
11	66	120	79	71	113	230	96	72	147	108	56	52
12	68	104	65	69	108	209	91	65	218	113	53	51
13	70	99	61	71	113	183	91	72	204	98	49	50
14	65	110	63	90	135	170	84	85	153	103	51	59
15	70	110	61	118	165	164	84	102	129	93	59	79
16	72	99	61	113	194	146	85	123	117	79	61	79
17	71	104	59	97	178	128	85	191	101	73	62	73
18	63	111	61	102	161	111	85	224	91	73	61	61
19	69	115	73	102	141	106	97	238	91	66	56	56
20	66	120	69	113	135	106	92	224	59	66	55	55
21	66	120	80	118	135	101	92	184	22	66	55	58
22	72	110	93	118	141	111	92	159	66	66	58	52
23	99	104	98	113	135	101	85	141	66	66	79	53
24	104	99	109	108	129	91	92	108	66	66	79	50
25	104	94	93	102	129	101	78	102	66	66	86	52
26	94	94	87	97	152	101	72	97	66	66	79	54
27	88	94	79	92	149	96	78	85	79	66	73	51
28	78	88	76	97	147	96	78	78	79	66	65	47
29	75	88	84	97		96	78	78	86	65	61	47
30	80	84	87	102		91	72	85	86	62	62	47
31	94		93	102		91		85		59	54	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	63	70	62	66	80	213	97	88	63	47	83
2	50	58	70	65	60	81	202	88	111	62	49	80
3	50	60	64	65	62	81	195	88	119	56	53	74
4	50	61	60	64	64	83	191	95	105	59	49	68
5	50	58	56	66	62	79	154	88	93	58	45	67
6	50	60	61	77	62	77	142	80	80	62	45	67
7	50	58	60	78	64	74	143	79	79	64	45	64
8	50	52	60	65	65	96	127	89	85	63	47	62
9	51	57	57	69	68	102	127	93	97	61	45	58
10	50	52	55	69	78	112	117	98	108	61	54	59
11	49	55	55	65	82	119	103	112	107	63	69	63
12	47	56	55	87	79	114	99	169	117	70	110	58
13	47	54	54	84	77	102	97	198	124	72	111	62
14	47	60	54	77	86	93	94	191	114	64	111	60
15	75	61	53	82	77	94	88	165	107	55	119	59
16	67	69	52	77	76	91	87	172	101	55	99	58
17	63	69	49	69	79	96	84	172	106	57	95	59
18	57	69	52	65	88	94	80	134	202	61	92	59
19	51	68	52	84	89	99	77	108	303	59	76	58
20	52	64	53	77	101	96	75	111	226	58	69	56
21	50	62	52	84	97	94	73	125	171	68	72	56
22	49	64	53	86	87	98	79	110	119	70	69	54
23	49	60	54	79	83	96	82	119	103	64	93	49
24	50	61	52	77	79	92	75	126	87	55	139	53
25	61	58	47	77	77	90	74	113	79	53	163	52
26	63	57	48	71	74	86	82	104	79	48	201	65
27	55	61	76	70	74	83	96	101	78	49	181	70
28	55	58	77	72	70	85	103	88	66	52	126	82
29	56	54	60	71		111	111	88	65	52	114	73
30	61	58	63	64		133	108	80	63	50	98	63
31	62		61	68		173		78		46	89	

Batsto River at Batsto
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	89	68	59	85	77	267	105	96	111	66	42
2	55	94	64	71	82	72	283	126	91	89	61	65
3	58	75	58	71	85	74	255	163	95	74	62	64
4	59	64	61	69	79	74	194	207	86	69	70	60
5	58	61	62	61	100	71	171	167	83	73	69	63
6	57	61	64	72	104	115	160	110	77	69	59	55
7	54	61	63	85	101	120	140	109	81	69	65	55
8	53	63	60	97	99	159	138	104	73	66	61	55
9	65	61	68	125	97	177	134	108	69	60	57	51
10	68	59	80	168	96	157	178	107	65	60	56	47
11	63	59	75	194	93	125	† 227	122	64	58	59	46
12	59	59	79	194	96	116	325	182	74	58	68	37
13	58	59	79	183	88	112	369	199	89	57	54	44
14	57	56	73	155	90	107	319	211	92	55	50	49
15	57	59	68	141	88	106	282	211	103	54	52	45
16	67	52	64	130	82	99	224	183	97	57	51	49
17	74	59	67	120	84	100	206	160	108	52	50	50
18	76	56	61	109	91	108	173	143	109	54	52	49
19	72	58	57	109	88	130	155	142	97	54	56	48
20	64	56	59	99	92	163	148	131	93	57	50	46
21	59	55	57	99	86	153	137	125	87	60	50	46
22	57	56	67	94	87	194	127	122	81	63	49	44
23	56	60	69	96	82	196	123	114	73	84	47	42
24	57	58	65	84	77	245	120	109	69	68	46	49
25	58	61	56	86	79	234	117	106	64	63	44	46
26	63	60	48	76	75	196	115	99	61	58	44	44
27	57	58	52	82	75	185	124	94	67	58	49	43
28	55	63	55	88	79	262	115	94	76	59	42	45
29	71	59	48	102	77	363	109	106	106	80	51	45
30	81	64	48	93		385	107	108	118	77	45	45
31	77		47	87		319		100		76	39	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	109	106	180	173	123	126	96	138	96	133	278
2	44	111	95	178	162	131	137	92	142	100	64	257
3	43	116	86	147	141	120	131	93	108	140	15	222
4	43	119	90	139	144	125	134	94	117	132	43	203
5	45	117	83	131	137	118	134	93	124	131	79	190
6	62	105	80	126	126	108	144	96	124	127	78	188
7	75	110	82	117	124	114	154	101	116	108	74	186
8	67	113	86	111	140	120	152	122	108	92	59	159
9	66	207	75	138	177	125	152	133	101	83	58	141
10	58	350	77	127	198	130	140	175	101	78	57	126
11	60	310	84	154	178	123	134	194	96	73	76	126
12	54	365	88	157	170	118	164	241	89	74	73	125
13	50	305	89	162	163	107	210	283	84	72	81	124
14	47	260	94	151	157	139	271	283	81	69	91	129
15	45	221	93	128	145	157	257	248	79	67	105	153
16	47	175	90	116	152	182	229	227	74	72	119	164
17	57	171	90	113	167	182	222	234	78	79	123	146
18	105	145	92	108	148	167	222	214	92	83	113	145
19	101	221	92	115	167	167	222	200	83	82	97	138
20	110	247	94	108	213	201	222	174	77	74	96	128
21	114	355	89	104	202	278	193	167	74	67	150	121
22	100	332	88	104	215	295	159	161	72	66	328	111
23	91	280	93	104	215	274	151	146	66	64	627	105
24	† 85	231	102	103	196	240	136	148	63	61	824	100
25	† 75	178	109	105	154	220	124	152	61	62	734	94
26	† 75	164	111	197	158	208	116	178	63	79	614	97
27	† 85	153	124	272	151	181	109	184	76	85	464	96
28	† 95	144	139	307	135	180	103	171	88	88	366	94
29	95	135	165	272		160	100	147	90	84	344	96
30	92	116	206	230		142	99	142	88	75	366	99
31	88		219	203		140		135		70	278	

† Estimated.

Batsto River at Batsto
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	129	84	75	95	88	† 81	200	115	117	86	65	62
2	135	85	70	95	94	† 86	277	114	108	84	65	61
3	113	80	75	92	94	108	256	139	100	85	93	63
4	111	80	76	96	94	199	235	192	94	88	105	67
5	109	85	77	113	91	290	187	220	92	100	123	70
6	103	101	77	129	‡ 88	380	173	206	90	110	117	76
7	104	111	79	170	‡ 85	357	174	199	87	99	91	72
8	102	122	77	206	‡ 83	297	173	180	84	78	74	153
9	96	128	84	206	‡ 81	234	165	155	83	78	71	165
10	92	126	81	180	‡ 80	234	158	135	79	72	69	207
11	92	115	78	170	† 80	213	160	139	92	71	68	256
12	93	108	77	154	‡ 80	186	148	144	92	71	73	214
13	95	102	77	144	‡ 82	157	140	130	104	85	83	187
14	93	103	75	137	‡ 80	154	156	143	100	94	74	153
15	91	99	74	139	† 80	160	149	172	92	86	83	130
16	89	98	78	125	† 82	173	173	156	87	82	86	128
17	91	95	87	122	† 80	160	157	256	79	74	110	124
18	102	92	95	115	† 79	146	206	298	79	67	103	122
19	105	92	93	106	† 79	131	199	291	93	66	97	131
20	105	90	113	101	† 87	152	192	235	102	63	86	142
21	102	85	124	100	† 90	124	173	174	123	67	76	139
22	97	80	133	100	† 86	133	165	161	126	61	74	125
23	93	77	115	102	† 103	120	154	174	111	60	67	111
24	91	75	108	104	† 90	114	137	170	123	61	66	108
25	89	86	103	110	† 82	113	142	181	181	68	65	115
26	86	84	105	110	† 80	113	123	165	164	66	68	135
27	84	88	‡ 100	108	† 80	116	142	171	138	64	71	152
28	84	83	‡ 97	107	† 80	128	132	166	112	67	72	133
29	85	82	‡ 94	103		134	128	145	104	74	† 78	119
30	89	77	‡ 93	96		140	124	130	96	71	85	115
31	86		97	89		164		130		66	76	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	136	83	97.5	1.39	1.60
November	103	81	91.6	1.31	1.46
December	109	80	92.5	1.32	1.52
Calendar year, 1928	361	65	132	1.89	25.72
January, 1929	169	80	120	1.71	1.97
February	441	87	146	2.09	2.18
March	422	103	200	2.86	3.30
April	378	99	175	2.50	2.79
May	233	101	168	2.40	2.77
June	163	39	91.0	1.30	1.45
July	88	32	58.3	.833	.96
August	94	51	60.4	.863	.99
September	75	51	60.1	.859	.96
Year ending Sept. 30, 1929	441	32	113	1.61	21.95
October	115	63	82.0	1.17	1.35
November	167	84	112	1.60	1.78
December	109	59	79.5	1.14	1.31
Calendar year, 1929	441	32	112	1.60	21.81
January, 1930	118	69	93.9	1.34	1.54
February	194	97	133	1.90	1.98
March	230	91	124	1.77	2.04
April	101	72	87.0	1.24	1.38
May	238	65	106	1.51	1.74
June	218	22	94.4	1.35	1.51
July	123	59	83.1	1.19	1.37
August	86	49	60.7	.867	1.00
September	79	46	55.3	.790	.88
Year ending Sept. 30, 1930	238	22	92.3	1.32	17.88

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Batsto River at Batsto
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	75	47	53.7	0.767	0.88
November	69	52	59.9	.856	.96
December	77	47	57.6	.823	.95
Calendar year, 1930	238	22	83.7	1.20	16.23
January, 1931	87	62	73.1	1.04	1.20
February	101	60	75.9	1.08	1.12
March	173	74	96.9	1.38	1.59
April	213	73	113	1.61	1.80
May	198	78	115	1.64	1.89
June	303	63	113	1.61	1.80
July	72	46	59.0	.843	.97
August	201	45	89.5	1.28	1.48
September	83	49	63.0	.900	1.00
Year ending Sept. 30, 1931	303	45	80.7	1.15	15.64
October	81	52	61.8	.883	1.02
November	94	52	61.8	.883	.99
December	80	47	62.6	.894	1.03
Calendar year, 1931	303	45	82.0	1.17	15.89
January, 1932	194	59	106	1.51	1.74
February	104	75	87.5	1.25	1.35
March	385	71	161	2.30	2.65
April	369	107	185	2.64	2.94
May	211	94	134	1.91	2.20
June	118	61	84.8	1.21	1.35
July	111	52	65.9	.941	1.08
August	70	39	54.0	.771	.89
September	65	37	49.0	.700	.78
Year ending Sept. 30, 1932	385	37	92.8	1.33	18.02
October	114	42	71.5	1.02	1.18
November	365	105	199	2.84	3.17
December	219	75	104	1.49	1.72
Calendar year, 1932	385	37	108	1.54	21.05
January, 1933	307	103	152	2.17	2.50
February	215	124	165	2.36	2.46
March	295	107	164	2.34	2.70
April	271	99	162	2.31	2.58
May	283	92	165	2.36	2.72
June	142	61	91.8	1.31	1.46
July	140	61	84.9	1.21	1.40
August	824	15	217	3.10	3.57
September	278	94	145	2.07	2.31
Year ending Sept. 30, 1933	824	15	143	2.04	27.77
October	135	84	97.9	1.40	1.61
November	128	75	93.8	1.34	1.50
December	133	70	89.9	1.28	1.48
Calendar year, 1933	824	15	135	1.93	26.29
January, 1934	206	89	123	1.76	2.03
February	103	79	84.9	1.21	1.26
March	380	81	171	2.44	2.81
April	277	123	170	2.43	2.71
May	298	114	174	2.49	2.87
June	181	79	104	1.49	1.66
July	110	60	76.3	1.09	1.26
August	123	65	81.7	1.17	1.35
September	256	61	128	1.83	2.04
Year ending Sept. 30, 1934	380	60	116	1.66	22.58

East Branch of Wading River at Harrisville

LOCATION.- Water-stage recorder 50 feet downstream from highway bridge in Harrisville, Burlington County, and half a mile upstream from confluence with West Branch.

DRAINAGE AREA.- 64 square miles.

RECORDS AVAILABLE.- January 1931 to September 1934.

AVERAGE DISCHARGE.- 3 years, 83.6 second-feet.

EXTREMES.- 1931-34: Maximum discharge, about 859 second-feet Aug. 24, 1933; practically no flow for several hours on Oct. 26, 1932, while pond above station was filling.

Daily discharge, in second-feet, 1931

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					42	56	136	52	57	38	35	56
2					42	64	168	56	65	36	35	46
3				42	40	59	170	56	56	36	35	42
4				44	40	57	132	54	44	36	33	42
5				49	40	56	114	50	48	36	29	42
6				66	40	55	110	74	49	38	27	40
7				64	38	54	113	86	38	42	27	38
8				57	42	86	110	89	65	42	27	36
9				55	52	114	98	82	62	40	27	36
10				55	66	97	90	85	58	42	29	35
11				54	59	86	76	91	68	63	58	35
12				62	54	81	67	71	59	54	98	33
13				79	54	75	65	64	55	52	87	33
14				74	56	67	64	62	50	49	63	33
15				68	56	65	64	60	49	46	86	33
16				70	54	68	63	58	75	44	105	33
17				57	56		62	59	105	44	124	33
18				55	74		63	59	97	50	110	35
19				66	72		62	56	80	54	79	35
20				75	67	†70	60	57	64	46	54	33
21				68	64		50	56	55	40	50	33
22				58	60		50	59	60	40	54	33
23				52	58	69	57	62	49	40	63	33
24				46	55	67	57	57	48	38	125	31
25				46	54	65	55	50	46	36	166	31
26				44	52	64	58	63	44	36	155	58
27				44	52	64	65	55	42	36	126	63
28				44	50	62	59	49	40	42	94	55
29				44		120	55	46	40	44	66	44
30				44		144	52	44	38	38	58	44
31				44		130		40		36	59	

†- Estimated.

East Branch of Wading River at Harrisville
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	59	† 36	55	63	40	204	65	62	60	38	
2	40	50	† 40	79	59	29	188	65	85	55	36	
3	35	46	† 38	71	59	38	153	65	58	50	38	
4	33	42	† 36	59	69	40	109	64	50	52	48	
5	36	38	† 55	54	85	40	101	62	40	56	46	
6	38	44	† 44	54	80	67	87	62	40	55	40	
7	36	44	† 40	75	71	142	77	64	44	54	42	
8	40	36	† 38	89	66	179	74	85	42	50	44	
9	50	42	† 60	134	62	142	78	87	42	48	42	
10	49	35	60	185	57	113	144	74	50	46	40	
11	49	33	52	204	57	92	226	63	42	44	48	
12	48	33	49	181	56	82	298	74	56	44	14	
13	40	33	50	143	56	76	293	122	87	48	53	
14	36	31	48	112	54	69	266	140	88	49	31	
15	35	31	44	88	50	62	230	176	84	49		† 36
16	46	† 30	40	75	49	58	186	123	78	49		
17	48	† 30	36	69	55	† 65	135	81	80	51		
18	42	† 30	36	66	62	† 84	123	80	101	60		
19	38	† 34	35	62	58	† 82	100	79	79	63		
20	49	† 42	35	58	55	† 75	85	69	64	57		
21	55	† 36	35	57	52	† 70	76	72	57	54		
22	50	† 30	54	56	50	† 142	70	92	54	54		
23	44	† 30	65	56	50	224	69	84	49	50	† 34	
24	38	† 28	57	56	48	220	68	72	46	49		
25	36	† 28	50	55	46	181	67	67	44	46		
26	35	† 28	48	54	46	150	69	59	44	44		
27	33	† 26	42	62	46	132	71	55	46	44		
28	33	† 26	38	63	46	229	70	57	77	58		
29	71	† 30	38	63	46	298	67	58	90	62		
30	91	† 36	38	68		264	65	57	71	52		
31	84		38	69		224		55		44		

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	55	64	114	111	81	84	60	108	67	46	218
2	56	68	62	102	106	76	86	60	94	66	44	192
3	58	74	60	93	101	71	89	60	89	74	43	166
4	59	63	58	88	92	68	99	60	104	78	51	138
5	60	52	56	84	88	67	106	59	92	68	52	128
6	67	48	54	76	80	64	106	64	75	59	49	120
7	84	56	53	71	79	64	128	89	68	55	46	113
8	66	78	53	66	116	69	135	122	69	50	44	105
9	52	99	52	84	131	69	123	124	68	47	43	93
10	48	204	51	111	117	65	108	153	86	46	43	84
11	43	250	52	111	114	60	93	174	92	47	62	80
12	43	230	60	100	117	57	108	161	62	46	59	87
13	42	185	63	96	108	58	172	147	65	46	57	89
14	42	140	63	88	104	80	198	148	58	45	90	93
15	37	114	63	82	107	111	185	113	55	44	88	100
16	38	98	60	77	114	118	163	105	54	48	84	119
17	44	88	51	76	113	56	156	119	54	52	69	144
18	84	76	‡ 44	72	110	77	166	108	53	50	72	153
19	81	111	‡ 55	69	101	150	153	99	51	47	93	148
20	67	172	55	69	117	144	66	90	49	45	171	135
21	57	211	53	67	147	188	89	99	48	44	244	123
22	55	183	53	66	146	224	91	105	47	43	498	112
23	50	143	54	66	128	218	96	79	46	42	733	100
24	48	119	64	65	113	196	69	84	45	41	823	80
25	45	105	72	64	105	163	102	119	45	41	715	74
26	47	98	75	148	104	150	110	134	45	63	571	72
27	59	90	75	211	97	135	89	128	47	91	409	72
28	66	81	110	211	88	131	70	128	48	81	263	72
29	63	72	136	178		118	64	123	47	77	301	78
30	53	68	135	150		102	63	116	46	58	301	87
31	48		124	126		85		117		50	250	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

East Branch of Wading River at Harrisville
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	86	57	82	67	† 58	166	78	67	73	51	64
2	84	82	56	87	73	60	192	79	64	67	37	54
3	79	72	59	79	70	90	186	123	63	64	56	49
4	78	65	73	69	67	166	154	158	63	62	66	58
5	76	62	70	91	65	265	135	156	63	67	82	59
6	75	85	62	143	64	265	124	139	60	77	68	54
7	75	98	60	148	63	237	115	133	57	68	57	63
8	77	92	59	134	62	204	117	119	55	62	53	118
9	77	81	57	125	† 61	170	105	125	53	59	50	244
10	74	77	57	113	† 60	153	92	107	59	58	48	345
11	69	73	55	99	† 59	135	89	110	72	56	69	304
12	66	70	55	89	59	117	104	116	65	56	117	251
13	65	68	55	87	60	112	106	98	48	57	62	192
14	65	68	55	91	59	123	103	86	52	62	67	136
15	66	68	55	90	59	133	101	88	111	69	58	112
16	69	65	62	86	60	127	104	105	91	66	84	94
17	68	† 63	69	77	58	117	163	101	99	54	154	88
18	70	† 62	72	69	58	103	173	100	68	51	173	94
19	72	† 61	66	68	59	94	156	91	78	49	134	76
20	70	† 60	86	68	66	90	147	88	91	50	97	69
21	68	† 58	123	68	66	91	130	98	78	52	70	67
22	66	† 56	138	67	64	88	109	101	72	50	54	64
23	65	† 54	122	77	75	80	95	95	85	49	51	65
24	65	60	103	80	‡ 66	78	90	76	80	49	50	63
25	69	60	84	74	† 60	79	99	84	70	67	49	59
26	68	60	88	73	† 58	82	97	124	70	73	65	62
27	66	60	‡‡‡‡‡ 84	68	† 58	82	91	92	106	58	67	63
28	64	60	80	67	† 58	101	91	77	80	53	62	63
29	73	58	76	66		119	84	92	67	56	64	72
30	95	58	76	64		112	78	85	79	59	60	70
31	91		76	63		116		79		54	56	

Monthly and annual discharge, in second-feet, 1931-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930 3-31					
November					
December					
Calendar year, 1930					
January, 1931	79	42	56.1	0.877	0.95
February	74	38	53.2	.831	.87
March	144	54	75.6	1.18	1.36
April	170	50	81.5	1.27	1.42
May	91	40	61.4	.959	1.11
June	105	38	56.9	.889	.99
July	63	36	42.4	.662	.76
August	166	27	70.5	1.10	1.27
September	63	31	39.1	.611	.68
Year ending Sept. 30, 1931					
October	91	33	45.4	.709	.82
November	59	26	35.4	.553	.62
December	65	35	44.4	.694	.80
Calendar year, 1931					
January, 1932	204	54	83.0	1.30	1.50
February	85	46	57.0	.891	.96
March	298	29	120	1.88	2.17
April	298	65	128	2.00	2.23
May	176	55	78.3	1.22	1.41
June	101	40	61.7	.964	1.08
July	63	44	51.5	.805	.93
August	53		36.7	.573	.66
September			36	.562	.63
Year ending Sept. 30, 1932	298		64.8	1.01	13.81

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

East Branch of Wading River at Harrisville
(Continued)

Monthly and annual discharge, in second-feet, 1931-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1932	84	37	55.4	0.866	1.00
November	250	48	114	1.78	1.99
December	136	44	67.1	1.05	1.21
Calendar year, 1932	298		74.1	1.16	15.77
January, 1933	211	64	99.4	1.55	1.79
February	147	79	109	1.70	1.77
March	224	56	107	1.67	1.92
April	198	63	112	1.75	1.95
May	174	59	108	1.69	1.95
June	108	45	63.7	.995	1.11
July	91	41	55.2	.862	.99
August	823	43	207	3.23	3.72
September	218	72	112	1.75	1.95
Year ending Sept. 30, 1933	823	37	101	1.58	21.35
October	95	64	72.8	1.14	1.31
November	98	54	68.1	1.06	1.18
December	138	55	73.9	1.15	1.33
Calendar year, 1933	823	41	99.1	1.55	20.97
January, 1934	148	63	85.9	1.34	1.54
February	75	58	62.6	.978	1.02
March	265	58	124	1.94	2.24
April	192	78	120	1.88	2.10
May	158	76	103	1.61	1.86
June	111	48	72.2	1.13	1.26
July	77	49	59.6	.931	1.07
August	173	37	72.0	1.12	1.29
September	345	49	106	1.66	1.85
Year ending Sept. 30, 1934	345	37	85.1	1.33	18.05

Absecon Creek at Absecon

LOCATION.- Weir and water-stage recorder below dam of Atlantic City Water Department, 1 mile west of Absecon, Atlantic County, and 3 miles above mouth.

DRAINAGE AREA.- 16.6 square miles.

RECORDS AVAILABLE.- December 1923 to April 1929, June 1933 to September 1934.

AVERAGE DISCHARGE.- 6 years, 26.4 second-feet, corrected for storage and diversions.

REMARKS.- Daily discharge includes diversions to Atlantic City waterworks and to duck farm.
Part of monthly and annual discharge table corrected for storage in reservoir.
Recorder operated and diversion figures furnished by Atlantic City Water Department.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	24	29	21	† 26	41	20					
2	34	24	29	22	† 27	47	20					
3	32	25	30	19	† 27	48	20					
4	32	26	30	17	† 27	48	20					
5	30	26	30	28	† 27	48	21					
6	32	25	28	† 33	† 29	51	40					
7	30	25	29	† 34	31	47	44					
8	29	28	25	† 34	32	38	31					
9	28	25	25	† 37	34	† 45	25					
10	28	33	24	† 43	33	† 47	27					
11	27	50	25	† 45	32	† 47	24					
12	26	60	25	† 48	32	† 47	25					
13	26	44	26	44	29	† 45	† 23					
14	27	42	26	† 29	28	† 44	23					
15	26	50	28	† 34	27	44	24					
16	25	46	28	† 34	23	42	† 25					
17	25	39	28	† 34	31	40	† 41					
18	26	37	28	27	32	38	61					
19	27	37	29	24	31	35	57					
20	29	34	29	23	31	† 34	63					
21	25	32	31	24	32	† 33	48					
22	25	32	38	24	34	† 33	49					
23	26	31	41	24	† 32	35	68					
24	30	28	37	24	† 31	39	† 77					
25	27	26	24	29	† 31	38	† 73					
26	27	26	27	30	32	29	† 67					
27	24	28	29	26	35	18	† 49					
28	24	25	31	27	37	18	† 36					
29	25	23	37	† 27		† 20	37					
30	24	24	28	† 22		† 20	40					
31	24		21	† 24		20						

† Estimated.

Absecon Creek at Absecon
(Continued)

Daily discharge, in second-feet, 1933

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										40	18.6	43
2										35	19.2	39
3										41	20	39
4										37	24	44
5										29	21	42
6										27	21	39
7										23	21	36
8										23	21	36
9										21	18.8	35
10										23	17.2	34
11										23	37	31
12										23	36	37
13										22	26	34
14										19.5	40	35
15										22	36	43
16										22	34	50
17										22	26	63
18										22	36	58
19									22	23	38	45
20									21	20	32	40
21									22	20	† 36	36
22									24	22	† 63	30
23									23	20	†104	33
24									21	19.3	130	35
25									21	19.1	88	30
26									24	28	62	35
27									24	34	55	35
28									25	27	49	32
29									23	25	46	39
30									22	23	42	36
31										20	40	

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	26	9.0	28	10.2	† 17.0	60	12.1	31	24	24	18.4
2	32	25	7.6	26	† 24	22	46	16.1	29	21	17.8	18.5
3	29	24	7.8	23	† 20	40	52	43	27	20	41	17.7
4	30	23	6.7	23	† 18.0	60	71	50	27	18.4	40	20
5	33	25	8.7	30	† 16.0	73	69	42	28	16.4	29	19.5
6	34	108	8.0	35	† 15.5	53	69	35	27	21	21	19.2
7	32	163	7.8	32	† 15.0	40	68	40	27	17.7	19.7	23
8	31	148	8.1	30	† 14.5	36	67	25	26	19.8	19.5	97
9	32	126	7.7	28	† 14.2	34	64	29	25	19.5	17.1	137
10	30	69	7.8	27	† 14.2	35	43	30	26	18.8	16.7	70
11	28	9.1	9.0	24	14.4	33	24	34	27	16.9	25	46
12	29	8.8	7.6	23	15.9	29	26	31	26	16.5	38	35
13	31	9.5	8.2	26	14.2	32	27	30	32	22	31	30
14	28	10.0	8.5	25	15.5	38	28	32	28	34	25	30
15	27	9.6	16.3	24	13.3	37	26	38	26	31	23	27
16	28	8.3	25	24	14.0	34	26	44	26	26	35	27
17	30	27	27	25	15.0	31	27	39	23	20	57	36
18	32	53	26	19.6	14.6	34	27	35	21	18.5	39	34
19	28	56	20	24	15.9	28	28	31	31	17.4	29	27
20	29	52	42	22	18.3	32	29	31	33	17.5	23	26
21	29	43	44	23	18.2	31	37	30	28	19.1	19.3	28
22	29	42	33	22	18.9	34	42	30	23	21	21	28
23	28	40	28	32	24	28	22	35	24	17.2	21	27
24	29	20	26	24	† 18.5	30	16.3	31	23	17.6	19.6	27
25	35	9.4	25	21	† 16.0	32	24	36	25	21	20	27
26	16.2	8.0	30	24	† 14.5	33	23	43	21	26	26	27
27	23	7.8	37	24	† 14.5	33	24	35	21	19.4	22	26
28	31	8.4	27	27	† 14.5	50	24	32	24	20	18.8	23
29	22	11.2	28	32		42	26	31	22	28	19.3	25
30	26	10.5	29	13.3		34	17.6	33	25	37	† 17.2	32
31	26		30	10.6		44		32		28	† 16.8	

† Estimated.

Absecon Creek at Absecon
(Continued)

Monthly and annual discharge, in second-feet, 1928-29 and 1933-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	37	24	27.6	26.9	1.62	1.87
November	60	23	32.5	22.7	1.37	1.53
December	41	21	28.9	28.5	1.72	1.98
Calendar year, 1928	79	21	29.8	29.1	1.76	23.91
January, 1929	48	17	29.4	30.7	1.85	2.13
February	37	23	30.5	33.6	2.02	2.10
March	51	18	38.0	36.6	2.20	2.54
April	77	20	39.3	40.5	2.44	2.72
May						
June						
July						
August						
September						
Year ending Sept.30, 1929						
October						
November						
December						
Calendar year, 1929						
January, 1933						
February						
March						
April						
May						
June 19-30	25	21	22.7	23.8	1.43	.64
July	41	19.1	25.0	24.6	1.48	1.71
August	130	17.2	40.6	41.0	2.47	2.85
September	63	30	38.8	38.7	2.33	2.60
Year ending Sept.30, 1933						
October	35	16.2	29.1	28.8	1.73	1.99
November	163	7.8	39.4	30.5	1.84	2.05
December	44	6.7	19.5	28.3	1.70	1.96
Calendar year, 1933						
January, 1934	35	10.6	24.9	24.6	1.48	1.71
February	24	10.2	16.1	16.1	.970	1.01
March	73	17.0	36.4	37.0	2.23	2.57
April	71	16.3	37.8	36.8	2.22	2.48
May	50	12.1	33.4	34.1	2.05	2.36
June	33	21	26.1	25.9	1.56	1.74
July	37	16.4	21.6	21.8	1.31	1.51
August	57	16.7	25.5	25.4	1.53	1.76
September	137	17.7	34.3	34.4	2.07	2.31
Year ending Sept.30, 1934	163	6.7	28.7	28.7	1.73	23.45

Great Egg River at Folsom

LOCATION.- Water-stage recorder at highway bridge, 1 mile south of Folsom, Atlantic County, and 2 miles above mouth of Pennypot Stream.

DRAINAGE AREA.- 56 square miles.

RECORDS AVAILABLE.- September 1925 to September 1934.

AVERAGE DISCHARGE.- 9 years, 73.2 second-feet.

EXTREMES.- 1925-34: Maximum discharge, about 370 second-feet Aug. 25, 1933 (gage height, 7.56 feet); minimum, 19 second-feet Aug. 5, 1931.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	52	70	67	80	206	80	160	† 55	107	34	36
2	101	54	80	70	74	206	80	160	† 48	107	34	36
3	101	62	80	72	72	† 199	74	153	44	72	32	34
4	89	67	77	70	70	† 181	74	146	50	60	36	34
5	77	72	72	64	67	† 181	72	133	42	54	34	34
6	72	74	70	74	67	† 181	77	127	47	52	44	47
7	† 70	72	67	95	89	† 199	80	114	60	50	34	44
8	† 65	67	64	107	107	† 199	83	107	54	47	32	42
9	† 65	64	64	101	120	199	80	101	67	44	32	42
10	62	60	64	107	133	181	77	101	72	42	30	44
11	60	† 60	62	120	140	167	77	95	72	40	34	44
12	57	† 55	62	120	140	153	83	89	64	40	60	42
13	57	† 55	62	120	127	140	101	89	57	40	47	40
14	54	57	67	107	114	127	127	89	54	40	44	38
15	54	57	83	74	101	127	146	95	52	40	83	40
16	52	57	95	77	89	127	167	95	52	40	114	40
17	52	54	101	74	89	127	206	95	52	38	140	38
18	52	54	107	83	83	127	221	80	50	38	140	44
19	64	57	101	89	83	114	229	83	47	40	114	42
20	67	67	95	95	80	107	221	89	52	40	67	40
21	64	72	89	101	80	101	214	95	70	40	52	38
22	64	74	80	95	80	95	206	95	62	38	47	36
23	62	72	74	83	80	95	199	95	57	38	44	36
24	62	67	67	83	80	95	199	77	52	38	44	36
25	60	64	64	89	80	95	181	80	52	38	42	34
26	57	62	60	101	95	95	181	89	54	40	40	34
27	57	60	60	114	146	89	174	80	54	38	38	34
28	54	57	64	120	181	89	167	74	54	36	38	32
29	54	57	70	120		83	160	67	83	36	38	32
30	54	60	72	101		80	160	† 60	101	36	38	34
31	52		70	89		77		† 60		36	38	

† Estimated.

Great Egg River at Folsom
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	83	52	80	62	114	62	50	42	40	28	28
2	72	89	54	77	62	114	62	50	42	40	26	28
3	89	89	60	74	64	101	62	52	50	40	26	28
4	101	95	60	80	70	89	62	47	42	40	26	28
5	114	107	57	77	83	83	60	44	42	40	24	28
6	120	120	57	74	101	77	60	44	40	40	24	† 26
7	114	120	57	67	114	77	72	44	40	50	24	† 26
8	80	120	60	64	114	107	83	44	42	52	24	† 28
9	60	107	60	62	114	133	89	44	44	47	23	† 30
10	52	89	60	60	95	153	89	42	70	50	23	† 28
11	50	77	60	54	83	153	74	42	89	42	23	† 28
12	50	72	57	54	77	153	67	44	80	40	23	† 28
13	47	67	57	54	77	140	64	44	83	38	23	26
14	47	72	60	60	101	120	62	52	77	38	23	32
15	44	72	† 62	80	127	101	60	64	64	36	28	34
16	47	72	† 64	89	140	89	60	74	57	36	30	32
17	52	† 72	† 62	95	146	83	57	83	52	34	28	32
18	50	† 80	† 62	101	140	77	57	67	50	34	28	30
19	50	† 89	† 67	101	133	77	60	72	47	34	28	28
20	47	95	† 70	101	120	83	62	70	42	32	28	28
21	47	89	70	107	114	83	67	80	42	30	26	28
22	47	83	† 70	107	120	74	70	64	38	30	26	28
23	60	74	† 67	95	120	72	57	70	38	30	34	28
24	67	70	† 67	83	114	70	54	57	36	30	36	26
25	72	67	† 70	72	107	70	62	54	38	34	34	26
26	64	64	† 70	67	107	70	54	50	38	32	32	26
27	62	64	67	62	107	72	52	47	52	30	30	26
28	60	62	67	62	107	70	50	47	47	28	30	26
29	52	60	67	62		64	52	52	42	28	30	26
30	50	54	74	64		64	50	47	40	28	30	26
31	74		80	64		64		50		28	28	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	36	41	48	42	50	110	50	48	28	22	41
2	32	33	44	45	41	56	120	49	47	28	23	38
3	26	32	41	43	40	56	127	50	42	28	24	36
4	24	32	39	40	40	53	124	51	41	28	22	35
5	24	32	38	41	40	50	117	46	38	28	22	34
6	24	34	36	49	40	48	104	44	38	28	22	32
7	23	34	35	52	40	47	83	† 48	35	30	22	31
8	23	32	35	50	40	58	82	† 50	44	47	22	30
9	24	31	34	48	42	78	82	† 65	48	63	22	28
10	24	32	34	46	52	83	78	† 55	46	51	25	28
11	24	32	34	42	55	79	67	49	62	52	36	27
12	24	32	34	44	54	69	† 65	50	59	46	57	26
13	24	32	34	53	51	57	† 65	50	52	38	51	25
14	24	32	32	53	52	54	† 60	50	47	35	40	25
15	40	43	32	50	56	51	† 55	51	44	32	52	25
16	40	48	32	48	54	51	† 50	50	42	30	78	24
17	32	48	32	45	53	61	† 50	48	49	30	63	25
18	31	48	32	42	64	69	† 46	46	47	30	46	† 24
19	30	44	32	54	71	69	† 44	45	43	32	41	† 24
20	28	42	31	60	70	71	† 44	44	39	30	37	† 24
21	28	41	30	60	64	71	44	57	† 36	29	38	24
22	28	48	30	56	59	66	44	72	34	28	38	23
23	28	66	30	52	55	60	46	64	34	27	47	22
24	28	44	31	48	52	55	50	58	36	26	95	22
25	29	40	31	47	50	50	48	49	35	26	104	21
26	28	38	32	46	48	46	48	46	34	26	98	27
27	27	37	50	45	48	44	66	61	32	25	76	36
28	27	36	67	44	46	43	70	50	31	24	69	34
29	28	35	68	44		72	56	46	30	24	59	33
30	31	34	61	44		92	50	42	28	24	52	28
31	34		52	42		98		40		23	46	

† Estimated.

Great Egg River at Folsom
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	36	34	40	65	45	216	64	48	53	38	35
2	26	34	33	58	61	44	202	67	46	47	36	34
3	25	34	31	60	60	44	188	70	44	43	37	32
4	25	33	32	55	64	43	167	69	42	43	44	30
5	25	32	35	50	82	42	146	63	41	43	41	29
6	25	31	34	49	92	50	124	64	42	42	33	30
7	24	30	† 34	64	92	86	104	72	46	42	36	28
8	26	30	† 36	76	83	107	89	77	43	40	44	27
9	33	30	† 40	92	75	120	79	68	42	38	44	26
10	34	30	50	114	68	124	86	61	40	36	38	25
11	30	30	49	130	64	114	110	59	39	35	38	25
12	28	30	45	133	63	92	136	66	40	34	38	25
13	27	30	42	127	62	73	153	92	52	32	35	24
14	27	29	40	120	59	64	153	110	55	32	33	24
15	27	29	38	110	56	58	153	114	64	32	32	24
16	36	28	36	92	53	54	140	110	104	32	31	27
17	40	28	36	79	55	55	127	95	114	32	30	30
18	35	28	36	69	63	70	107	81	114	36	30	28
19	32	28	34	63	64	81	95	76	101	33	34	26
20	30	30	34	58	60	86	86	70	83	32	32	† 26
21	30	30	34	55	56	83	81	64	71	38	30	† 24
22	28	30	37	54	54	95	77	61	60	46	30	† 24
23	28	29	44	52	52	124	71	57	52	52	28	† 24
24	28	28	42	52	50	146	63	55	48	62	28	† 24
25	28	28	40	51	48	153	60	52	44	48	27	† 24
26	27	28	38	50	48	160	61	50	42	42	27	† 24
27	27	28	36	55	48	153	66	48	41	40	26	† 24
28	27	30	35	60	46	167	66	54	58	39	28	† 24
29	38	30	35	60	46	195	66	55	70	47	29	† 24
30	46	32	36	66		209	65	52	66	46	27	† 26
31	40		37	69		216		49		41	27	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	† 26	58	86	150	136	92	104	74	66	79	43	170
2	† 26	81	81	142	124	86	98	72	62	101	40	164
3	† 26	95	78	130	110	83	95	70	58	127	38	156
4	† 26	101	75	114	101	81	98	69	55	143	50	150
5	† 26	101	73	101	95	78	104	67	52	150	55	153
6	† 32	89	70	89	89	75	114	70	51	146	48	156
7	† 50	86	67	83	86	74	124	81	49	124	44	153
8	† 60	98	66	79	95	83	127	92	50	83	40	143
9	38	117	62	80	114	95	127	101	50	63	38	130
10	34	156	60	95	127	101	127	117	47	58	37	117
11	32	188	60	110	127	101	120	130	46	52	54	101
12	30	209	63	117	120	92	120	136	44	49	66	98
13	30	209	68	117	107	86	146	136	43	46	57	101
14	29	188	71	107	98	92	164	127	43	44	72	107
15	28	174	73	98	95	117	170	114	42	42	98	120
16	29	160	71	86	98	136	167	101	42	50	107	133
17	32	143	66	79	104	143	164	107	43	61	95	140
18	61	130	60	75	107	140	160	110	44	55	77	143
19	77	127	61	71	110	136	156	107	42	50	81	143
20	79	150	59	68	120	140	153	98	40	46	76	136
21	67	167	57	66	136	156	146	89	40	44	89	120
22	55	167	56	65	146	170	140	82	38	42	150	101
23	48	164	57	65	150	174	127	75	38	39	238	89
24	44	156	62	63	146	170	110	69	36	38	338	82
25	42	143	73	63	136	164	101	74	36	46	370	79
26	40	133	86	98	124	153	95	76	38	79	346	75
27	48	117	98	140	110	146	89	72	77	77	298	72
28	60	107	117	156	101	136	83	71	81	75	238	69
29	61	101	143	160		127	80	70	80	64	202	72
30	58	92	153	156		120	77	67	67	54	181	82
31	51		153	150		110		67		48	174	

† Estimated.

Great Egg River at Folsom
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	56	58	82	64	61	126	89	71	47	55	55
2	95	55	57	86	65	59	137	83	65	47	50	51
3	89	55	57	86	66	72	141	92	60	45	89	50
4	80	54	60	89	66	101	137	116	56	43	123	56
5	74	54	64	98	65	140	130	153	54	45	168	57
6	74	67	67	117	64	174	116	168	52	77	180	54
7	73	82	67	143	63	203	110	168	51	101	164	54
8	70	95	66	156	62	203	110	160	49	101	120	79
9	68	107	64	164	60	194	113	145	48	69	71	120
10	64	110	62	160	62	180	113	120	50	55	60	160
11	61	104	60	153	61	164	107	104	71	49	56	168
12	60	95	57	143	54	149	104	95	78	46	67	160
13	59	86	55	130	57	137	104	92	86	53	83	145
14	61	81	54	120	57	130	104	86	83	68	98	113
15	61	81	54	114	55	130	101	83	70	70	116	89
16	60	79	59	107	55	134	98	92	59	71	134	78
17	62	75	69	104	54	137	107	101	54	80	176	83
18	73	72	76	95	52	134	123	107	50	77	198	98
19	76	72	82	89	52	126	141	104	69	60	180	110
20	74	72	92	83	54	120	141	92	89	52	164	110
21	70	72	107	79	57	113	134	80	95	48	137	104
22	66	71	124	76	60	104	123	72	95	45	101	95
23	62	70	133	81	65	95	110	73	72	43	76	98
24	60	68	133	89	67	89	101	76	60	41	67	113
25	60	66	124	92	66	86	95	83	54	44	62	141
26	60	64	114	92	64	89	95	95	49	58	64	164
27	59	63	114	89	65	89	98	107	49	55	72	160
28	59	61	120	86	62	98	98	110	51	49	67	145
29	58	60	114	81		107	95	101	49	61	68	123
30	58	59	101	74		113	95	92	47	66	62	98
31	57		89	67		120		80		62	57	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	101	52	64.7	1.16	1.34
November	74	52	62.1	1.11	1.24
December	107	60	74.6	1.33	1.53
Calendar year, 1928	188	38	90.4	1.61	21.94
January, 1929	120	64	93.0	1.66	1.91
February	181	67	98.1	1.75	1.82
March	206	77	137	2.45	2.82
April	229	72	140	2.50	2.79
May	160	60	99.1	1.77	2.04
June	101	42	57.7	1.03	1.15
July	107	36	46.6	.832	.96
August	140	30	53.0	.946	1.09
September	47	32	38.2	.682	.76
Year ending Sept. 30, 1929	229	30	80.2	1.43	19.45
October	120	42	64.0	1.14	1.31
November	120	54	82.5	1.47	1.64
December	80	52	63.5	1.13	1.30
Calendar year, 1929	229	30	80.9	1.44	19.59
January, 1930	107	54	75.8	1.35	1.56
February	146	62	104	1.86	1.94
March	153	64	93.5	1.67	1.92
April	89	50	63.1	1.13	1.26
May	83	42	54.5	.973	1.12
June	89	36	50.2	.896	1.00
July	52	28	36.5	.652	.75
August	36	23	27.3	.487	.56
September	34	26	28.1	.502	.56
Year ending Sept. 30, 1930	153	23	61.6	1.10	14.92

Great Egg River at Folsom
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	40	23	27.8	0.496	0.57
November	66	31	38.3	.684	.76
December	68	30	38.2	.682	.79
Calendar year, 1930	153	23	52.8	.943	12.79
January, 1931	60	40	47.8	.854	.98
February	71	40	50.7	.905	.94
March	98	43	61.5	1.10	1.27
April	127	44	69.8	1.25	1.40
May	72	40	50.8	.907	1.05
June	62	28	41.4	.739	.82
July	63	23	32.1	.573	.66
August	104	22	46.7	.834	.96
September	41	21	28.4	.507	.57
Year ending Sept. 30, 1931	127	21	44.4	.793	10.77
October	46	24	29.9	.534	.62
November	36	28	30.1	.538	.60
December	50	31	37.5	.670	.77
Calendar year, 1931	127	21	43.9	.784	10.64
January, 1932	133	40	73.0	1.30	1.50
February	92	46	61.7	1.10	1.19
March	216	42	102	1.82	2.10
April	216	60	111	1.98	2.21
May	114	48	69.2	1.24	1.43
June	114	39	58.4	1.04	1.16
July	62	32	40.6	.725	.84
August	44	26	33.3	.595	.69
September	35	24	26.6	.475	.53
Year ending Sept. 30, 1932	216	24	56.1	1.00	13.64
October	79	26	43.4	.775	.89
November	209	58	134	2.39	2.67
December	153	56	78.2	1.40	1.61
Calendar year, 1932	216	24	69.1	1.23	16.82
January, 1933	160	63	102	1.82	2.10
February	150	86	115	2.05	2.14
March	174	74	118	2.11	2.43
April	170	77	123	2.20	2.46
May	136	67	90.0	1.61	1.86
June	81	36	50.0	.893	1.00
July	150	38	70.2	1.25	1.44
August	370	37	124	2.21	2.55
September	170	69	118	2.11	2.35
Year ending Sept. 30, 1933	370	26	96.9	1.73	23.50
October	95	57	67.5	1.21	1.40
November	110	54	73.5	1.31	1.46
December	133	54	82.4	1.47	1.70
Calendar year, 1933	370	36	94.4	1.69	22.89
January, 1934	164	67	104	1.86	2.14
February	67	52	60.5	1.08	1.12
March	203	59	124	2.21	2.55
April	141	95	114	2.04	2.28
May	168	72	104	1.86	2.14
June	95	47	62.9	1.12	1.25
July	101	41	59.0	1.05	1.21
August	198	50	103	1.84	2.12
September	168	50	104	1.86	2.08
Year ending Sept. 30, 1934	203	41	88.4	1.58	21.45

Maurice River at Norma

LOCATION.- Water-stage recorder at Almond Road Bridge in Norma, Salem County, three-quarters of a mile below Blackwater Branch. Zero of gage is 46.43 feet above mean sea level.

DRAINAGE AREA.- 113 square miles.

RECORDS AVAILABLE.- June 1932 to September 1934.

EXTREMES.- 1932-34: Maximum discharge, 687 second-feet Aug. 26, 1933 (gage height, 5.14 feet); minimum daily discharge, 27 second-feet Sept. 25, 1932.

REMARKS.- Diurnal flunctuation caused by water power upstream.

Daily discharge, in second-feet, 1932

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										83	77	60
2										82	71	60
3										69	59	48
4										77	60	38
5										78	63	37
6										98	76	40
7										88	63	53
8										64	56	68
9										69	72	62
10										65	75	48
11										71	84	36
12										79	81	34
13										71	60	52
14										72	55	60
15										51	76	54
16										49	67	50
17										40	70	44
18										51	71	29
19										69	71	35
20										48	63	50
21										58	45	61
22										71	47	51
23										79	63	50
24										67	67	47
25										70	68	27
26										91	48	28
27										88	51	35
28										89	40	52
29										78	42	48
30									95	57	63	47
31										58	54	

Maurice River at Norma
(Continued)

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	149	150	291	257	207	254	192	168	261	74	318
2	30	160	196	303	273	220	250	200	190	252	114	345
3	38	140	178	272	269	215	246	230	144	325	112	327
4	34	153	143	197	239	170	263	187	127	328	108	354
5	42	142	155	215	234	195	249	199	178	323	126	354
6	65	138	139	215	169	186	280	233	135	286	95	291
7	91	194	144	192	217	154	286	243	131	268	114	309
8	112	215	146	181	233	218	300	191	177	230	91	300
9	120	222	150	186	261	234	306	308	110	136	88	249
10	62	302	142	199	252	184	283	287	155	176	86	225
11	73	364	126	209	254	220	259	294	101	111	97	233
12	71	382	168	222	243	225	301	302	169	122	145	210
13	46	381	134	234	235	173	373	295	84	120	101	189
14	60	374	122	222	239	237	380	293	117	121	163	218
15	51	305	181	203	216	274	394	281	117	93	117	282
16	35	308	127	198	210	288	391	262	90	103	146	282
17	74	288	131	184	235	286	393	285	88	170	140	300
18	138	245	128	131	228	282	389	282	149	106	120	291
19	114	262	118	199	248	284	380	265	104	100	176	282
20	154	306	154	160	256	308	386	244	103	98	266	225
21	164	312	150	159	276	342	360	224	133	137	176	257
22	163	293	146	164	281	358	329	236	84	81	266	203
23	109	270	140	158	297	364	320	194	87	109	361	196
24	110	271	105	138	282	374	301	205	102	82	582	203
25	111	264	142	124	286	353	247	228	73	87	645	119
26	94	261	211	243	274	349	273	225	81	148	666	163
27	74	168	174	300	231	332	268	235	101	146	561	134
28	100	248	262	326	229	295	246	240	171	172	460	182
29	141	211	300	340		280	240	221	139	141	383	132
30	90	193	281	330		274	227	198	161	131	383	196
31	143		299	302		262		201		129	291	

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	189	† 122		† 135	112	136	268	177	127	87	141	103
2	135	† 117		† 150	127	130	268	146	141	87	146	94
3	140	† 107		† 135	146	130	251	191	117	110	311	89
4	179	† 125		121	136	228	235	294	130	79	356	96
5	169	† 114		177	141	302	235	311	146	92	294	112
6	152	† 176		228	129	347	220	311	88	98	320	127
7	140	† 182		243	136	356	220	311	95	79	243	126
8	140			268	118	356	212	294	121	71	243	127
9	140			276	‡ 110	366	177	260	77	71	158	158
10	108			268	‡ 108	338	177	235	87	75	164	191
11	140			235	110	285	228	184	130	74	125	158
12	115			243	122	235	205	220	127	82	158	141
13	144			235	‡ 110	260	191	212	158	128	170	164
14	152			212	107	260	220	164	177	198	130	115
15	134			205	106	212	205	177	128	294	123	107
16	130			205	‡ 96	212	205	220	130	228	164	104
17	115			198	96	212	235	205	130	243	268	170
18	146			146	100	235	235	205	125	164	311	228
19	146			152	119	228	235	228	152	93	294	108
20	140			205	141	212	235	152	235	95	251	128
21	140			152	130	170	251	152	191	106	228	136
22	140			146	123	191	251	158	177	97	198	146
23	135			141	116	191	228	164	146	89	146	158
24	134			141	112	177	198	136	115	83	141	158
25	135			191	‡ 110	170	198	164	136	105	103	228
26	125			141	111	170	212	228	103	103	119	228
27	128			170	‡ 110	177	205	205	106	102	164	205
28	120			158	111	198	205	191	97	101	119	205
29	119			158		205	191	152	109	115	130	177
30	121			107		198	184	191	95	158	170	164
31	† 122			129		212		136		120	128	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Maurice River at Norma
(Continued)

Monthly and annual discharge, in second-feet, 1932-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1931					
November					
December					
Calendar year, 1931					
January, 1932					
February					
March					
April					
May					
June					
July	98	40	70.3	0.622	0.72
August	84	40	63.2	.559	.64
September	68	27	46.8	.414	.46
Year ending Sept. 30, 1932					
October	164	30	88.5	.783	.90
November	382	138	251	2.22	2.48
December	300	105	166	1.47	1.70
Calendar year, 1932					
January, 1933	340	124	219	1.94	2.24
February	297	169	247	2.19	2.28
March	374	154	263	2.33	2.69
April	394	227	306	2.71	3.02
May	308	187	241	2.13	2.46
June	190	73	126	1.12	1.25
July	328	81	164	1.45	1.67
August	666	74	234	2.07	2.39
September	354	119	246	2.18	2.43
Year ending Sept. 30, 1933	666	30	212	1.88	25.51
October	189	108	138	1.22	1.41
November					
December					
Calendar year, 1933					
January, 1934	276	107	183	1.62	1.87
February	146	96	118	1.04	1.08
March	366	130	229	2.03	2.34
April	268	177	219	1.94	2.16
May	311	136	206	1.82	2.10
June	235	77	130	1.15	1.28
July	294	71	117	1.04	1.20
August	356	103	194	1.72	1.98
September	228	89	148	1.31	1.46
Year ending Sept. 30, 1934					
October					
November					
December					
Calendar year,					
January,					
February					
March					
April					
May					
June					
July					
August					
September					
Year ending Sept. 30,					

Manantico Creek near Millville

LOCATION.- Water-stage recorder at Millville-Milmay highway bridge 4 miles northeast of Millville, Cumberland County, and 6 miles above mouth of creek.

DRAINAGE AREA.- 22.3 square miles.

RECORDS AVAILABLE.- June 1931 to September 1934.

AVERAGE DISCHARGE.- 3 years, 33.9 second-feet.

EXTREMES.- 1931-34: Maximum discharge, about 379 second-feet Aug. 24, 1933 (gage height, 5.22 feet); minimum, about 4 second-feet July 15, 16, 1932 (gage height, 1.19 feet).

Daily discharge, in second-feet, 1931

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										10.9	7.1	21
2										12.3	7.1	19.0
3										11.4	7.1	17.3
4										10.9	7.1	17.3
5										10.9	7.5	16.8
6										10.5	7.1	16.3
7										10.9	7.1	16.3
8										11.4	7.1	15.7
9										10.9	7.5	14.7
10										14.4	10.5	12.3
11										20	13.6	12.3
12										14.7	29	12.3
13										12.3	21	12.3
14										11.8	15.2	12.3
15										10.9	14.7	11.8
16										10.0	16.8	11.8
17										9.6	14.7	11.8
18										10.0	13.3	11.8
19										11.4	11.8	11.4
20										10.0	11.4	11.4
21										9.6	15.0	11.4
22									11.4	10.5	20	11.8
23									11.4	9.6	37	11.8
24									12.8	9.2	59	11.4
25									12.3	8.7	56	10.9
26									11.8	8.3	36	18.8
27									11.8	7.9	29	25
28									11.8	7.5	47	22
29									11.4	7.5	42	19.0
30									10.5	7.1	33	16.3
31										7.1	25	

Manantico Creek near Millville
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.7	16.8	17.3	20	44	21	64	† 32	23	18.4	23	16.8
2	14.7	15.7	16.8	28	41	22	56	† 30	23	17.9	15.0	15.2
3	14.2	15.2	15.7	26	39	20	50	28	22	16.8	8.3	15.2
4	13.3	15.2	15.7	22	40	21	44	28	21	17.9	8.3	14.2
5	12.8	14.7	15.7	19.5	40	21	41	28	21	21	8.7	13.7
6	12.8	14.7	16.3	19.5	41	26	40	28	32	17.9	10.9	24
7	12.8	14.2	15.7	28	39	32	38	28	27	17.9	13.7	17.3
8	14.1	14.2	15.2	33	32	33	37	28	23	17.9	14.7	15.7
9	21	13.7	17.1	45	32	35	36	28	23	20	15.2	14.7
10	18.4	13.7	23	56	28	35	46	28	22	21	15.2	14.2
11	15.2	13.7	23	54	25	54	56	26	20	16.3	15.2	13.7
12	14.2	13.7	21	46	25	59	60	31	24	15.2	15.2	13.3
13	13.7	13.7	19.0	40	25	30	60	59	39	13.5	15.2	13.3
14	13.3	13.7	18.4	35	25	29	54	64	36	4.7	14.7	13.5
15	14.2	13.7	17.3	32	25	27	46	57	32	4.4	14.7	13.6
16	16.8	13.7	16.8	29	25	25	42	42	32	4.4	14.2	15.2
17	17.3	13.7	16.3	28	24	28	40	36	32	6.3	13.7	19.0
18	16.3	13.7	16.3	27	26	33	38	34	39	10.0	15.2	17.3
19	15.2	13.7	15.7	25	38	30	38	33	38	10.9	17.3	16.3
20	14.2	14.2	15.2	25	28	26	37	32	37	38	17.3	16.8
21	13.3	14.2	15.2	24	23	27	36	29	32	34	42	15.7
22	13.3	14.2	19.8	23	25	40	35	29	28	16.8	27	14.7
23	12.8	13.7	26	23	23	56	34	28	22	22	15.7	14.7
24	12.8	13.7	23	23	21	63	33	26	20	23	15.2	14.2
25	12.8	13.7	21	23	21	66	33	25	19.0	23	14.7	13.7
26	12.8	13.7	18.4	22	24	43	34	24	18.4	20	14.2	13.3
27	12.3	13.7	17.3	23	22	39	36	23	19.5	20	13.7	13.3
28	12.3	13.7	16.8	25	21	62	35	27	22	26	13.3	13.7
29	22	13.7	16.3	25	23	72	33	27	24	26	13.3	13.7
30	28	15.2	15.7	35		77	32	25	21	25	12.8	13.7
31	21		15.7	50		73		23		28	13.0	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.2	30	32	48	45	42	43	39	41	46	19.2	53
2	12.2	41	32	43	44	42	45	39	36	48	† 19.0	57
3	12.2	36	31	40	45	41	46	38	33	53	19.8	72
4	12.2	30	31	38	44	41	51	38	31	57	21	100
5	12.2	25	30	38	42	40	53	38	30	50	19.8	114
6	24	23	30	37	41	39	53	41	29	33	20	99
7	30	31	29	35	40	39	51	45	29	28	19.2	73
8	19.2	38	28	34	57	45	50	46	32	25	15.8	59
9	16.8	37	27	41	62	46	47	50	31	23	15.3	53
10	15.8	79	27	52	61	44	44	61	28	23	15.3	48
11	15.3	107	27	50	51	40	42	55	24	22	35	45
12	14.7	104	30	45	50	38	54	49	23	22	33	52
13	14.2	72	31	41	46	38	70	46	23	22	25	55
14	13.7	47	31	38	44	47	79	43	23	21	45	53
15	13.7	40	30	37	48	54	79	41	22	20	52	48
16	13.7	38	27	36	53	58	74	43	24	22	38	78
17	17.7	35	25	34	53	57	69	52	25	24	30	71
18	44	34	25	34	52	49	67	50	25	22	29	28
19	38	50	25	34	50	47	65	44	23	20	30	42
20	29	76	25	33	53	56	62	41	21	20	28	46
21	23	83	25	33	62	65	55	53	21	19.8	26	44
22	19.8	65	25	33	63	69	49	41	21	19.2	40	39
23	18.6	48	25	32	56	69	46	38	17.9	17.9	222	37
24	17.9	42	29	32	49	61	40	38	17.3	17.3	352	37
25	16.8	39	39	33	47	52	48	44	17.9	17.4	250	29
26	16.8	38	42	66	46	49	44	42	18.6	34	166	29
27	25	38	30	85	46	42	43	34	19.8	38	116	32
28	24	35	49	91	44	55	41	42	22	34	94	38
29	19.2	34	62	74		47	41	41	22	26	79	44
30	31	34	63	58		44	40	38	22	22	28	44
31	21		54	49		43		38		20	47	

† Estimated.

Manantico Creek near Millville
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	25	24	32	28	† 23	61	33	30	19.8	21	22
2	31	24	25	34	31	† 25	67	34	31	25	23	19.8
3	31	24	24	32	31	† 28	55	51	30	28	78	21
4	32	25	23	29	29	155	47	83	29	21	113	22
5	34	24	26	36	28	165	43	80	29	19.2	63	24
6	31	36	23	53	28	135	41	61	29	17.3	37	24
7	28	43	24	59	26	92	43	51	29	17.3	25	24
8	24	41	24	53	‡ 24	71	41	43	26	17.9	22	41
9	27	35	26	48	‡ 23	56	40	39	26	21	23	66
10	27	32	26	43	‡ 23	50	38	38	24	14.9	23	59
11	27	29	26	39	24	48	38	39	22	12.0	25	44
12	26	28	14.0	35	23	43	40	40	22	17.9	30	35
13	27	26	7.4	34	‡ 23	40	40	38	28	20	34	30
14	29	29	16.8	36	‡ 22	46	37	37	39	40	32	27
15	29	30	19.6	36	‡ 22	51	35	37	34	46	31	27
16	28	28	24	33	‡ 21	51	39	43	27	38	67	25
17	30	26	29	32	‡ 21	48	58	47	21	29	120	32
18	37	25	29	29	‡ 22	44	63	41	22	22	111	34
19	41	24	26	29	23	43	54	39	43	20	65	30
20	40	24	39	29	24	41	50	34	53	19.8	38	27
21	31	24	54	29	24	39	46	32	44	18.6	31	25
22	26	25	54	28	23	39	42	31	35	18.6	30	36
23	27	26	44	33	‡ 22	37	38	36	30	19.2	29	63
24	26	26	38	38	‡ 22	34	36	35	25	18.6	26	62
25	27	28	34	34	‡ 22	36	45	43	25	22	25	46
26	26	25	39	33	‡ 22	39	44	53	22	18.6	25	37
27	26	26	51	32	22	40	43	50	20	19.8	25	33
28	26	25	48	31	22	51	41	42	22	19.2	25	30
29	25	24	43	30		54	38	37	11.9	20	24	29
30	25	22	36	17.3		48	35	34	18.6	25	24	36
31	26		29	31		48		32		25	22	

Monthly and annual discharge, in second-feet, 1931-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930					
November					
December					
Calendar year,					
January, 1931					
February					
March					
April					
May					
June 22-30	12.8	10.5	11.7	0.525	0.18
July	20	7.1	10.6	.475	.55
August	59	7.1	20.5	.919	1.06
September	25	10.9	14.8	.664	.74
Year ending Sept. 30, 1931					
October	28	12.3	15.3	.686	.79
November	16.8	13.7	14.2	.637	.71
December	26	15.2	17.8	.798	.92
Calendar year, 1931					
January, 1932	56	19.5	30.1	1.35	1.56
February	44	21	29.1	1.30	1.40
March	77	20	39.5	1.77	2.04
April	64	32	42.1	1.89	2.11
May	64	23	31.8	1.43	1.65
June	39	18.4	26.4	1.18	1.32
July	38	4.4	18.5	.830	.96
August	42	8.3	15.5	.695	.80
September	24	13.3	15.1	.677	.76
Year ending Sept. 30, 1932	77	4.4	24.6	1.10	15.02

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Manantico Creek near Millville
(Continued)

Monthly and annual discharge, in second-feet, 1931-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1932	44	12.2	19.8	0.888	1.02
November	107	23	47.6	2.13	2.38
December	63	25	32.8	1.47	1.70
Calendar year, 1932	107	4.4	29.0	1.30	17.70
January, 1933	91	32	44.3	1.99	2.29
February	63	40	49.8	2.23	2.32
March	69	38	48.4	2.17	2.50
April	79	40	53.0	2.38	2.66
May	61	34	43.5	1.95	2.25
June	41	17.3	25.1	1.13	1.26
July	57	17.3	28.0	1.26	1.45
August	352	15.3	62.9	2.82	3.25
September	114	28	54.0	2.42	2.70
Year ending Sept. 30, 1933	352	12.2	42.3	1.90	25.78
October	41	24	29.3	1.31	1.51
November	43	22	27.6	1.24	1.38
December	54	7.4	30.5	1.37	1.58
Calendar year, 1933	352	7.4	41.3	1.85	25.15
January, 1934	59	17.3	35.1	1.57	1.81
February	31	21	24.1	1.08	1.12
March	165	23	55.5	2.49	2.87
April	67	35	44.6	2.00	2.23
May	83	31	43.0	1.93	2.22
June	53	11.9	28.2	1.26	1.41
July	46	12.0	22.3	1.00	1.15
August	120	21	40.9	1.83	2.11
September	66	19.8	34.4	1.54	1.72
Year ending Sept. 30, 1934	165	7.4	34.7	1.56	21.11

Delaware River at Port Jervis, N. Y.

LOCATION.- Water-stage recorder near highway bridge at Port Jervis, Orange County, 1½ miles above mouth of Neversink River. Zero of gage 415.605 feet above mean sea level.

DRAINAGE AREA.- 3 076 square miles (revised, 3 070 square miles used prior to Oct. 1, 1933).

RECORDS AVAILABLE.- October 1904 to September 1934.

AVERAGE DISCHARGE.- 29 years (1905-34), 5 513 second-feet.

EXTREMES.- 1904-34: Maximum discharge, 92 700 second-feet Mar. 28, 1914 (gage height, 16.0 feet); minimum, 175 second-feet Sept. 22, and 23, 1908 (gage height, 0.60 foot). Maximum discharge known, about 155 000 second-feet Oct. 10-11, 1903 (gage height, 23.3 feet).

REMARKS.- Large diurnal fluctuation at medium and low stages due to operation of power plants on tributary streams. Part of monthly and annual discharge table corrected for storage in Wallenpaupack, Toronto, and Swinging Bridge reservoirs; combined capacity, 12 200 000 000 cubic feet. Records of storage in Wallenpaupack Reservoir furnished by Pennsylvania Power & Light Co., those for Toronto and Swinging Bridge reservoirs furnished by Chas. H. Tenney & Co.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 940	1 390	2 680	1 690	‡1 700	10 900	7 280	11 800	5 340	3 600	1 210	728
2	2 330	1 340	5 020	1 920	‡2 000	8 060	6 900	10 200	4 420	3 340	922	623
3	2 230	1 390	4 870	‡2 000	‡2 000	5 660	6 360	12 900	4 280	3 340	890	594
4	2 230	1 260	3 730	‡2 000	‡2 000	5 830	5 830	18 900	3 730	2 600	879	835
5	2 310	1 180	3 340	2 170	‡2 000	6 540	7 180	13 600	3 340	2 200	697	734
6	2 160	1 360	2 980	3 220	‡2 200	12 400	12 900	12 600	3 220	2 020	963	850
7	1 670	1 200	2 750	4 940	2 980	13 100	16 500	12 800	3 100	2 000	917	907
8	1 720	1 420	2 400	4 870	4 220	9 090	12 600	12 100	2 860	2 180	963	882
9	2 250	1 390	2 020	3 730	5 660	6 540	10 200	9 960	2 550	1 970	900	720
10	2 020	1 460	1 900	2 980	5 180	5 340	9 520	8 260	2 530	1 560	878	990
11	1 720	1 360	2 060	2 860	‡4 600	5 500	11 800	7 470	2 310	1 550	676	1 200
12	1 860	1 340	1 900	3 100	‡4 000	5 180	15 900	6 360	2 120	1 440	682	1 120
13	1 900	1 220	2 350	2 860	3 470	8 260	31 300	6 540	2 100	1 460	1 280	1 110
14	1 520	1 490	2 380	2 200	3 340	27 600	24 200	7 470	1 770	1 110	1 580	1 250
15	1 340	1 420	2 120	2 310	2 980	56 500	18 300	7 860	1 720	1 070	1 750	1 480
16	1 860	1 260	1 770	1 860	2 750	52 500	15 900	8 060	1 550	1 330	1 890	2 100
17	1 700	1 180	1 900	2 100	2 530	41 300	20 100	7 090	1 620	1 180	1 980	2 110
18	1 400	1 020	2 100	2 330	2 710	25 100	18 300	6 180	1 700	1 290	1 440	1 740
19	1 460	1 160	2 330	6 900	2 750	17 100	14 100	5 500	1 620	1 640	1 090	1 740
20	1 430	1 490	3 220	11 300	‡2 600	13 600	13 800	8 270	1 710	1 570	1 220	1 810
21	1 290	1 810	2 530	6 480	‡2 400	11 800	30 500	9 740	1 660	1 260	1 150	1 490
22	1 200	1 900	1 980	4 420	‡2 400	10 600	44 500	12 400	2 000	1 130	1 040	1 250
23	1 390	1 860	1 360	4 000	‡2 400	11 600	31 600	11 100	1 690	1 260	1 090	1 010
24	1 430	1 860	1 260	3 600	1 990	13 600	22 800	9 090	1 430	1 240	1 110	1 200
25	1 370	1 430	1 570	3 340	2 650	12 600	18 300	9 300	2 090	1 220	996	1 140
26	1 550	1 500	2 120	2 860	3 000	11 800	25 800	8 880	2 780	1 210	931	999
27	1 570	1 520	2 140	2 340	4 980	14 400	26 000	7 660	2 770	1 220	1 290	1 080
28	1 540	1 440	2 270	‡2 200	12 400	11 600	17 700	6 720	2 530	922	1 050	934
29	1 500	1 360	2 020	‡2 200		9 740	17 100	7 860	3 220	933	1 040	898
30	1 880	1 520	2 040	‡2 000		8 460	15 300	6 900	3 720	1 200	1 060	779
31	1 620		2 140	‡1 900		7 470		6 900		1 340	981	

‡- Estimated, stage-discharge relation affected by ice.

Delaware River at Port Jervis, N. Y.
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 110	2 350	2 320	4 040	‡ 2 800	11 000	4 640	2 930	4 000	1 960	1 080	872
2	1 740	2 380	‡2 400	4 210	2 470	9 300	4 570	2 990	3 870	2 180	930	1 080
3	9 870	2 460	‡2 600	5 580	2 710	8 880	4 540	2 840	3 520	2 150	1 020	1 450
4	9 790	3 700	‡2 800	7 910	3 390	7 280	4 580	2 830	3 080	1 930	647	1 300
5	6 240	4 100	‡2 800	5 810	3 180	6 720	4 200	2 860	2 800	1 750	1 050	1 370
6	4 360	3 470	‡3 000	4 850	‡ 2 800	6 100	3 560	2 740	2 620	1 640	1 000	1 470
7	3 630	3 130	3 050	5 040	‡ 2 600	5 840	8 480	2 610	2 580	1 700	1 080	1 160
8	2 960	3 080	3 200	6 130	‡ 2 400	13 100	15 200	2 800	2 580	2 080	1 290	936
9	2 550	2 980	3 600	7 680	‡ 2 200	26 600	11 900	2 700	2 570	1 840	1 010	1 210
10	2 250	2 420	4 390	8 640	‡ 2 400	17 600	9 520	2 520	6 080	1 830	818	1 250
11	2 190	2 380	4 050	7 600	‡ 2 400	13 500	8 260	2 170	17 000	2 440	662	1 250
12	2 100	2 580	3 390	6 160	‡ 2 260	15 300	7 280	1 940	12 100	2 100	1 150	1 170
13	1 560	2 580	3 040	7 740	2 360	14 600	6 720	2 080	7 960	1 790	929	1 140
14	1 590	2 580	4 430	15 200	2 500	12 100	7 280	1 950	6 180	1 580	942	1 200
15	1 670	3 100	9 000	15 800	2 700	10 400	7 280	2 190	5 020	2 200	1 210	968
16	1 570	4 900	8 680	13 600	‡ 2 600	8 370	6 540	2 720	4 420	2 690	756	1 490
17	1 570	4 630	7 380	10 300	‡ 2 400	8 060	6 540	3 160	3 860	2 210	876	3 150
18	1 550	7 860	10 200	8 030	‡ 2 400	8 570	6 540	2 500	3 230	1 950	857	2 710
19	1 450	18 800	19 700	6 400	2 350	11 200	6 180	2 220	2 960	1 690	1 400	2 010
20	1 210	14 600	23 200	5 300	2 890	12 800	5 500	2 690	3 040	1 460	1 280	1 550
21	1 140	10 600	17 900	‡4 800	5 520	10 400	5 020	2 860	2 770	1 390	1 220	1 400
22	1 500	8 470	11 300	‡4 400	‡11 000	8 680	4 720	2 920	2 580	1 860	1 310	1 020
23	3 430	6 790	‡9 000	‡4 000	‡13 000	6 720	4 910	2 590	2 280	1 730	1 670	1 310
24	6 730	5 260	‡7 500	‡3 600	13 400	6 360	4 720	2 470	2 260	1 850	1 990	949
25	5 230	5 500	6 460	‡3 400	12 700	6 180	4 360	3 180	2 250	1 780	2 120	1 000
26	3 880	4 780	6 640	‡3 200	22 300	6 460	4 300	4 840	2 330	1 470	2 460	1 080
27	3 270	4 410	5 670	‡3 200	20 300	7 280	3 630	4 360	2 430	1 200	1 970	964
28	3 170	3 840	5 870	‡3 200	13 700	6 360	3 670	4 030	2 920	1 060	1 670	886
29	2 680	3 960	5 290	‡3 400		5 230	3 210	4 200	2 450	1 440	1 610	943
30	2 580	3 230	5 350	‡3 200		4 720	2 940	5 180	1 950	1 250	1 530	1 160
31	2 490		4 450	‡3 000		4 790		4 570		1 100	1 430	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 110	1 090	1 150	‡1 200	‡ 1 200	2 680	16 200	8 760	6 490	2 150	3 290	1 680
2	1 220	714	2 410	‡1 100	‡ 1 100	2 600	18 700	7 690	5 390	1 910	2 720	1 190
3	1 170	832	2 560	‡1 100	‡ 1 100	2 720	19 800	6 680	4 560	1 810	2 750	1 540
4	1 210	809	2 440	‡1 100	‡ 1 100	2 630	18 000	6 680	3 960	1 740	2 790	1 550
5	939	1 070	2 630	‡1 100	‡ 1 100	2 520	18 600	5 920	3 550	1 350	2 740	1 490
6	841	974	2 290	‡1 300	‡ 1 100	2 440	16 200	5 220	3 180	1 590	2 520	1 490
7	982	961	2 040	‡1 600	‡ 1 000	2 300	15 200	4 880	3 110	2 000	2 190	1 200
8	834	936	1 770	‡1 600	‡ 1 000	2 380	15 700	5 050	6 840	3 110	1 990	1 210
9	1 050	765	1 790	‡1 500	‡ 1 000	2 820	14 700	10 000	7 640	6 360	1 890	1 490
10	824	676	1 770	‡1 300	‡ 1 000	3 250	14 700	11 700	6 300	7 710	1 670	1 330
11	767	924	1 690	‡1 200	‡ 1 000	3 480	17 700	9 950	5 920	23 200	2 340	1 300
12	816	1 040	1 710	‡1 200	‡ 1 000	3 160	22 200	14 100	5 560	23 900	2 130	1 060
13	572	794	1 690	‡1 200	‡ 1 000	2 680	16 900	13 900	4 720	13 900	2 150	1 120
14	881	798	1 490	‡1 100	‡ 1 100	2 480	13 200	13 800	4 110	9 560	2 070	837
15	701	937	1 330	‡1 100	‡ 1 200	2 600	11 200	13 700	3 550	7 280	2 080	1 140
16	720	970	1 230	‡1 100	‡ 1 200	3 100	9 950	11 200	3 950	5 920	1 740	1 120
17	646	862	‡1 200	‡1 000	‡ 1 200	3 180	8 320	10 400	5 760	5 400	1 510	1 260
18	700	1 340	‡1 200	‡1 100	‡ 1 600	3 480	7 280	11 200	6 760	4 710	2 050	1 460
19	752	1 620	‡1 300	‡1 200	‡ 2 400	4 450	6 490	8 540	5 600	4 410	1 820	1 480
20	663	1 590	‡1 300	‡1 300	‡ 3 400	4 340	6 110	7 690	4 340	4 560	1 560	1 460
21	821	1 420	‡1 300	‡1 300	‡ 3 600	3 960	5 560	7 340	3 820	4 140	1 590	1 110
22	823	1 330	‡1 300	‡1 200	‡ 3 400	4 570	5 050	9 950	4 240	8 340	1 530	1 180
23	828	1 280	‡1 300	‡1 200	‡ 3 200	5 800	6 460	9 410	4 440	18 500	1 400	1 100
24	797	970	‡1 200	‡1 100	‡ 3 000	8 060	10 200	9 220	3 470	11 900	976	1 060
25	956	1 050	‡1 200	‡1 100	‡ 3 000	13 300	8 940	9 700	3 460	8 760	1 500	922
26	880	1 230	‡1 300	‡1 100	‡ 2 800	16 800	7 480	12 700	3 190	6 680	1 080	1 090
27	602	1 170	‡1 500	‡1 200	‡ 2 800	20 800	8 990	13 700	2 830	5 740	1 350	968
28	829	1 020	‡1 500	‡1 200	‡ 2 800	21 600	9 220	10 300	2 850	4 890	1 340	854
29	755	1 230	‡1 400	‡1 300		29 500	8 320	8 320	2 740	4 290	1 660	1 120
30	792	1 160	‡1 300	‡1 200		32 100	10 100	6 690	2 550	4 190	2 070	957
31	1 040		‡1 300	‡1 200		21 600		6 880		3 880	1 560	

‡- Estimated, stage-discharge relation affected by ice.

Delaware River at Port Jervis, N. Y.
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	887	1 360	1 850	† 2 760	11 300	3 820	34 500	3 960	3 380	2 760	1 050	1 250
2	838	1 260	2 270	2 440	9 120	3 550	35 000	5 220	3 340	3 170	1 360	2 160
3	970	1 330	2 400	2 770	8 470	3 680	28 400	6 280	3 450	4 690	1 740	1 840
4	1 010	1 020	2 300	2 900	7 840	4 110	29 400	5 050	2 560	4 260	1 630	1 630
5	660	1 290	1 940	2 680	7 040	4 260	21 000	4 410	2 240	4 360	1 670	928
6	1 330	1 310	† 1 700	3 010	6 100	3 820	18 000	4 260	2 520	4 730	1 460	860
7	1 380	1 120	† 2 000	8 340	5 390	3 960	15 700	4 260	2 590	3 820	1 300	1 210
8	1 120	969	2 040	17 200	4 880	3 680	14 000	7 090	2 240	3 960	1 260	962
9	1 210	948	1 550	11 100	5 390	2 820	15 700	14 600	2 160	3 370	2 010	776
10	1 010	1 160	1 920	8 470	5 740	2 810	19 200	12 700	1 910	2 870	2 220	808
11	968	1 100	2 230	† 6 660	11 000	3 410	21 600	10 000	1 780	2 650	2 170	747
12	696	860	3 020	† 5 560	16 200	3 430	21 000	8 470	1 670	2 800	1 560	658
13	848	1 110	3 420	4 880	19 200	3 330	20 400	7 440	2 510	2 430	1 330	794
14	934	1 140	5 820	5 560	14 300	2 940	16 200	6 470	3 480	2 140	1 030	936
15	961	874	9 140	5 560	11 000	2 900	13 000	5 390	3 480	2 130	939	573
16	949	1 140	8 700	6 660	8 260	2 650	10 500	4 880	2 960	2 200	1 180	720
17	1 030	1 560	6 440	8 170	7 840	2 960	9 120	4 560	4 860	1 820	1 720	980
18	1 060	2 200	5 220	8 210	7 440	2 940	8 050	4 260	14 100	1 610	1 600	586
19	742	1 800	4 340	11 400	6 100	2 840	7 440	3 550	9 740	2 040	1 480	526
20	1 130	1 920	3 820	9 120	5 390	2 900	6 850	3 350	6 850	1 840	1 150	796
21	869	1 570	† 3 400	8 050	4 260	2 990	6 100	3 060	5 740	1 490	1 570	806
22	1 080	1 280	† 3 200	9 120	3 820	2 700	5 740	2 650	6 450	1 480	1 220	644
23	949	1 260	3 260	13 700	4 560	3 550	5 390	2 570	11 200	1 780	1 430	788
24	726	1 640	4 210	17 400	3 550	4 410	5 390	2 820	7 050	1 730	1 430	732
25	718	1 590	3 960	15 400	3 070	4 410	5 390	2 740	5 390	1 320	933	809
26	588	1 410	4 110	11 700	3 150	4 410	5 390	2 760	4 180	1 740	1 010	523
27	951	1 320	† 3 800	9 790	3 680	6 720	5 050	3 300	3 960	1 430	889	1 140
28	1 090	1 620	3 150	10 200	3 820	12 600	4 880	5 750	4 140	1 600	966	1 430
29	1 280	1 890	3 110	9 120	4 110	11 000	4 410	4 880	3 930	1 880	908	925
30	1 110	1 420	3 230	8 740		9 400	4 110	3 680	3 080	1 560	1 280	827
31	1 340		† 3 040	16 200		12 600		3 380		1 680	1 430	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	757	5 230	4 660	6 590	3 760	4 220	8 880	4 350	2 560	1 160	1 550	4 410
2	614	20 000	4 420	4 890	3 920	4 230	16 600	4 440	2 400	1 430	1 200	3 900
3	606	15 400	3 910	4 880	3 880	4 260	22 800	4 400	2 160	1 190	830	3 550
4	794	10 700	3 520	5 020	3 420	3 820	23 500	5 140	1 900	2 040	946	10 100
5	905	8 470	3 670	5 720	2 870	2 400	19 800	5 920	1 950	1 990	769	20 400
6	9 960	7 040	3 790	4 960	2 490	3 410	15 700	4 980	4 670	1 480	1 340	12 600
7	52 200	6 850	3 210	4 400	2 410	3 820	14 800	4 730	5 720	1 270	1 440	8 660
8	24 400	6 660	3 200	3 510	3 460	6 200	18 800	5 290	4 070	1 160	1 680	6 720
9	11 500	6 660	3 050	3 790	4 400	11 200	15 500	4 790	3 210	863	1 360	6 200
10	7 440	12 000	3 010	3 530	3 920	9 440	12 400	5 010	2 590	754	1 200	5 310
11	5 740	24 900	2 470	3 680	2 900	5 960	11 000	5 740	2 120	1 460	1 360	4 460
12	4 560	17 300	2 360	4 260	2 460	4 540	10 800	5 390	2 120	1 510	901	4 280
13	3 820	12 700	2 680	4 120	‡2 600	5 170	12 400	4 670	2 290	1 330	973	3 740
14	3 420	10 500	2 780	4 100	‡3 000	6 910	16 700	3 880	1 770	760	804	3 660
15	3 010	8 900	2 560	2 960	3 580	11 800	17 400	3 890	1 530	823	939	6 720
16	2 720	7 640	‡ 2 200	3 250	3 680	14 300	17 200	3 990	1 630	754	1 500	15 400
17	2 530	8 490	‡ 2 000	3 830	3 610	11 000	17 800	3 480	1 680	664	1 780	26 900
18	3 520	11 000	‡ 1 900	3 980	3 510	10 000	29 700	3 470	1 410	1 260	1 680	18 900
19	3 960	12 400	‡ 1 900	4 100	3 290	10 000	24 200	3 320	1 220	917	1 690	13 200
20	4 560	31 900	‡ 2 000	5 290	4 050	10 000	18 000	3 010	1 350	868	1 180	10 400
21	4 260	23 600	‡ 2 400	6 010	5 410	14 500	14 200	2 520	1 240	751	1 350	8 260
22	3 550	16 800	‡ 2 600	5 130	5 410	24 800	11 300	2 960	1 270	1 410	2 770	7 860
23	3 130	13 000	2 290	10 100	5 350	18 800	9 360	3 200	1 400	680	8 500	6 990
24	3 040	9 790	2 380	9 870	5 860	13 500	8 210	3 010	1 190	626	42 300	6 260
25	3 230	8 900	2 840	7 890	6 100	10 900	7 120	3 010	1 470	1 680	70 100	5 570
26	2 910	7 540	4 260	7 160	4 720	10 000	6 660	2 750	742	1 670	32 200	5 320
27	3 000	5 910	4 260	6 360	4 410	9 560	6 470	2 520	1 060	1 120	17 300	4 660
28	3 190	5 070	4 260	5 570	4 170	9 340	6 100	2 010	1 190	1 340	11 300	4 120
29	3 350	4 710	4 560	4 660		8 470	5 220	1 980	1 280	1 150	8 370	3 690
30	2 790	4 570	4 950	4 340		7 440	4 460	2 400	1 200	1 090	6 280	3 040
31	2 840		5 640	3 930		7 240		2 370		924	5 050	

†- Estimated.
‡- Estimated, stage discharge relation affected by ice.

Delaware River at Port Jervis, N. Y.
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 700	4 230	3 480	‡ 3 600	‡3 400	‡ 1 300	12 700	4 150	2 130	1 800	3 650	2 020
2	2 600	3 970	3 690	‡15 000	‡3 200	‡ 1 500	17 300	3 680	1 910	1 200	2 810	1 460
3	2 930	3 790	3 530	13 100	‡3 200	‡ 2 400	14 300	4 040	1 440	1 400	2 470	1 240
4	2 720	3 240	3 880	9 460	3 040	‡ 6 000	13 600	5 460	1 870	1 680	2 160	1 400
5	2 780	2 890	5 380	7 910	3 270	‡20 000	14 600	6 470	2 520	1 120	1 930	2 060
6	2 620	3 220	5 760	7 440	‡3 200	35 500	13 100	5 830	2 100	1 200	1 640	1 990
7	2 550	3 570	5 220	9 240	‡3 400	15 000	15 700	5 530	1 730	940	1 570	2 160
8	2 310	3 950	5 060	15 400	‡3 200	9 860	13 200	4 890	1 440	1 020	1 720	2 490
9	2 050	3 910	5 020	15 600	†2 800	7 360	11 000	4 110	1 240	1 410	1 260	6 910
10	2 680	3 880	3 930	11 600	†2 800	5 100	9 910	3 960	1 020	1 310	1 400	6 340
11	2 600	3 170	2 530	9 900	†3 000	4 460	8 920	5 580	1 200	1 170	1 670	4 270
12	2 500	2 900	‡2 600	8 480	†2 600	4 120	17 700	6 100	1 310	1 060	976	3 140
13	2 260	3 070	‡2 800	7 340	†2 400	4 310	20 800	4 720	1 410	979	1 160	2 700
14	2 290	4 140	‡3 000	6 420	†2 600	4 810	15 000	4 410	1 320	1 400	1 120	2 820
15	1 850	5 080	‡3 400	6 190	†3 000	4 360	12 700	4 470	1 440	1 380	1 120	5 400
16	1 680	4 670	‡4 000	5 520	†3 000	4 050	11 700	4 080	1 130	1 450	1 770	8 680
17	2 610	3 720	‡4 400	4 930	†2 800	4 040	14 500	3 820	926	1 250	1 740	15 500
18	3 320	4 000	‡6 500	4 130	†2 400	4 530	14 000	3 350	986	1 040	1 220	18 600
19	3 730	3 780	7 430	3 380	†1 800	5 240	11 700	2 860	2 510	1 000	1 100	11 100
20	3 090	3 370	6 420	3 240	†1 500	5 220	11 700	2 640	5 040	1 570	1 100	7 900
21	2 450	3 620	5 890	3 490	†2 400	4 660	10 700	2 710	5 110	1 480	1 530	6 100
22	2 530	3 560	5 600	3 390	†2 400	4 470	8 910	2 960	3 310	796	1 310	4 960
23	2 360	5 330	5 400	3 740	†2 600	4 020	7 840	3 520	2 450	750	990	4 040
24	4 180	5 880	4 770	4 420	†2 200	3 050	7 440	3 220	1 850	1 320	1 060	5 150
25	8 400	5 320	5 470	5 700	†1 900	2 590	7 710	3 370	1 870	1 110	2 440	5 020
26	11 200	4 420	‡8 000	4 530	†1 500	3 070	6 660	3 620	2 240	1 200	2 920	3 820
27	7 560	4 360	‡6 000	4 150	†1 300	3 570	6 070	2 660	1 620	907	2 500	3 440
28	6 110	4 900	‡4 400	3 790	†1 200	9 750	5 180	2 770	1 560	9 040	2 760	3 210
29	5 140	4 350	‡3 400	‡ 3 800		11 100	4 490	2 650	1 540	16 800	2 420	3 270
30	4 680	3 880	‡3 200	‡ 3 400		8 060	4 340	2 190	1 490	7 640	2 000	14 000
31	4 540		‡3 400	‡ 3 200		8 100		2 040		5 000	2 420	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	2 330	1 200	1 720	0.550	0.65
November	1 900	1 020	1 420	.463	.52
December	5 020	1 260	2 430	.792	.91
Calendar year, 1928	43 800	1 020	6 700	2.18	29.75
January, 1929	11 300	1 690	3 310	1.08	1.24
February	12 400	1 700	3 350	1.09	1.14
March	56 500	5 180	14 800	4.82	5.56
April	44 500	5 830	17 600	5.73	6.39
May	18 900	5 500	9 370	3.05	3.52
June	5 340	1 430	2 580	.840	.94
July	3 600	922	1 660	.541	.62
August	1 980	676	1 110	.362	.42
September	2 110	594	1 140	.371	.41
Year ending Sept. 30, 1929	56 500	594	5 050	1.64	22.32
October	9 870	1 110	3 130	1.02	1.18
November	18 800	2 350	5 030	1.64	1.83
December	23 200	2 320	6 730	2.19	2.52
Calendar year, 1929	56 500	594	5 830	1.90	25.77
January, 1930	15 800	3 000	6 300	2.05	2.36
February	22 300	2 200	5 850	1.91	1.99
March	26 600	4 720	9 690	3.16	3.64
April	15 200	2 940	6 030	1.96	2.19
May	5 180	1 940	2 990	.974	1.12
June	17 000	1 950	4 120	1.34	1.50
July	2 690	1 060	1 780	.580	.67
August	2 460	647	1 260	.410	.47
September	3 150	872	1 310	.427	.48
Year ending Sept. 30, 1930	26 600	647	4 510	1.47	19.95

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Delaware River at Port Jervis, N. Y.
(Continued)

Monthly and annual discharge in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	1 220	572	856	512	0.167	0.19
November	1 620	676	1 050	880	.287	.32
December	2 630	1 150	1 600	1 440	.469	.54
Calendar year, 1930	26 600	572	3 560			
January, 1931	1 600	1 000	1 210	1 160	.378	.44
February	3 600	1 000	1 800	1 910	.622	.65
March	32 100	2 300	7 660	8 540	2.78	3.20
April	22 200	5 050	12 200	13 140	4.28	4.78
May	14 100	4 880	9 400	9 750	3.18	3.67
June	7 640	2 550	4 500	4 380	1.43	1.60
July	23 900	1 350	6 900	6 800	2.21	2.55
August	3 290	976	1 940	1 630	.531	.61
September	1 680	837	1 230	982	.320	.36
Year ending Sept. 30, 1931	32 100	572	4 210	4 280	1.39	18.91
October	1 380	588	982	633	.206	.24
November	2 200	860	1 350	925	.301	.34
December	9 140	1 550	3 570	3 240	1.06	1.22
Calendar year, 1931	32 100	588	4 410	4 440	1.45	19.66
January, 1932	17 400	2 440	8 480	8 690	2.83	3.26
February	19 200	3 070	7 310	7 680	2.50	2.70
March	12 600	2 650	4 570	4 740	1.54	1.78
April	35 000	4 110	13 900	14 800	4.82	5.38
May	14 600	2 570	5 280	5 480	1.79	2.06
June	14 100	1 670	4 430	4 400	1.43	1.60
July	4 730	1 320	2 490	2 130	.694	.80
August	2 220	889	1 380	992	.323	.37
September	2 160	523	945	502	.164	.18
Year ending Sept. 30, 1932	35 000	523	4 550	4 500	1.47	19.93
October	52 200	606	5 880	6 050	1.97	2.27
November	31 900	4 570	11 500	12 200	3.97	4.43
December	5 640	1 900	3 220	2 890	.941	1.08
Calendar year, 1932	52 200	523	5 750	5 660	1.84	25.91
January, 1933	10 100	2 960	5 090	4 850	1.58	1.82
February	6 100	2 410	3 880	3 830	1.25	1.30
March	24 800	3 400	8 980	9 560	3.11	3.58
April	29 700	4 460	14 100	14 800	4.82	5.38
May	5 920	1 980	3 830	3 620	1.18	1.36
June	5 720	742	2 010	1 560	.508	.57
July	2 040	626	1 170	771	.251	.29
August	70 100	769	7 440	8 230	2.68	3.09
September	26 900	3 040	8 180	8 330	2.71	3.02
Year ending Sept. 30, 1933	70 100	606	6 260	6 380	2.08	28.19
October	11 200	1 680	3 581	3 095	1.01	1.16
November	5 880	2 890	4 006	3 344	1.08	1.21
December	8 000	2 530	4 631	4 182	1.36	1.57
Calendar year, 1933	70 100	626	5 570	5 509	1.79	24.35
January, 1934	15 600	3 200	6 822	6 967	2.27	2.62
February	3 400	1 200	2 575	1 875	.61	.64
March	35 500	1 300	6 826	6 814	2.22	2.56
April	20 800	4 340	11 450	12 370	4.02	4.49
May	6 470	2 040	3 931	4 090	1.33	1.53
June	5 110	926	1 924	1 699	.552	.62
July	16 800	750	2 304	2 289	.744	.86
August	3 650	976	1 804	1 391	.452	.52
September	18 600	1 240	5 373	5 591	1.81	2.02
Year ending Sept. 30, 1934	35 500	750	4 607	4 481	1.46	19.80

Delaware River at Belvidere

LOCATION.- Water-stage recorder at Belvidere, Warren County, just below mouth of Pequest River. Prior to Jan. 1, 1929, staff gage 200 feet upstream was used.

DRAINAGE AREA.- 4 540 square miles.

RECORDS AVAILABLE.- October 1922 to September 1934.

AVERAGE DISCHARGE.- 12 years, 7 704 second-feet, corrected for storage.

EXTREMES.- 1922-34: Maximum discharge, about 125 000 second-feet Aug. 25, 1933 (gage height, 19.90 feet); minimum, 838 second-feet Sept. 28, 1932 (gage height, 2.37 feet). The stage of 28.6 feet, from authentic high-water mark, was reached in October 1903.

REMARKS.- Part of monthly and annual discharge table corrected for effect of storage on Wallenpaupack Creek and in Toronto and Swinging Bridge Reservoirs on Mongaup River.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3 370	2 360	3 600	† 2 800	‡3 200	16 900	10 200	17 900	8 680	5 120	1 780	1 430
2	3 370	2 180	5 120	† 3 800	‡3 400	14 100	10 200	15 500	7 270	4 580	1 930	1 200
3	3 600	2 180	6 620	† 3 000	3 600	10 600	9 430	15 500	6 300	4 580	1 630	1 100
4	3 370	2 270	5 990	† 2 800	3 600	9 810	8 680	23 600	5 990	4 070	1 560	1 100
5	3 370	2 360	5 120	† 3 000	3 150	12 300	8 680	21 000	5 400	3 370	1 560	1 200
6	3 600	2 180	4 580	† 6 500	3 150	19 900	12 800	16 900	5 120	3 150	1 500	1 310
7	3 370	2 360	4 070	†10 000	6 020	23 300	20 500	17 400	5 120	2 940	1 500	1 430
8	2 940	2 100	3 830	† 8 500	7 610	17 400	17 900	17 400	4 850	2 740	1 560	1 700
9	2 940	2 180	3 150	6 620	7 610	12 800	14 600	15 000	4 580	2 940	1 560	2 180
10	3 370	2 180	2 940	6 300	8 320	9 810	13 200	12 800	4 070	2 740	1 500	1 850
11	2 940	2 180	2 740	6 620	7 610	9 050	14 100	11 000	4 070	2 360	1 430	1 850
12	2 740	2 180	2 740	5 690	6 940	9 430	17 400	10 200	3 600	2 180	1 560	2 010
13	2 740	2 180	2 940	4 850	5 690	11 000	35 300	9 810	3 370	2 180	1 430	1 930
14	2 740	2 010	3 370	3 600	5 120	21 000	37 600	10 200	3 370	2 100	1 780	1 850
15	2 360	2 180	3 150	‡ 3 600	4 580	64 100	26 900	11 000	3 150	1 780	3 370	2 270
16	2 180	2 180	2 940	3 600	4 580	74 000	22 700	11 900	3 370	1 630	2 740	2 740
17	2 740	2 100	2 740	3 600	4 320	61 500	26 200	11 000	2 940	1 930	2 740	3 150
18	2 550	1 850	3 370	3 370	4 070	38 800	26 900	9 810	2 940	1 780	2 550	3 370
19	2 460	1 850	3 150	4 850	4 070	25 000	22 700	9 050	2 940	2 740	2 180	2 740
20	2 460	2 460	3 830	11 900	4 070	19 900	18 400	9 810	2 940	3 150	1 700	2 270
21	2 360	2 940	3 830	10 600	3 370	17 400	22 900	13 200	3 150	2 740	1 780	2 460
22	2 180	2 940	2 550	6 940	3 150	15 000	53 100	15 000	3 150	2 270	1 700	2 180
23	2 100	2 940	2 010	5 990	3 600	15 000	45 700	15 900	3 370	2 010	1 560	2 010
24	2 270	2 940	1 850	5 400	3 370	17 900	31 900	13 200	2 940	2 010	1 630	1 700
25	2 360	2 740	1 560	4 580	3 370	17 400	25 000	12 300	3 150	2 010	1 630	1 850
26	2 360	2 360	2 100	4 320	4 580	15 500	26 400	12 800	4 070	1 930	1 500	1 850
27	2 460	2 360	2 740	4 070	9 050	16 900	36 000	11 000	4 580	1 930	1 370	1 700
28	2 360	2 180	3 150	3 830	12 800	15 900	25 800	9 810	4 070	1 930	1 850	1 700
29	2 460	2 270	2 940	‡ 3 200		13 700	22 700	9 810	4 320	1 630	1 630	1 630
30	2 360	2 800	2 360	‡ 3 000		11 900	22 700	10 600	4 850	1 560	1 500	1 630
31	2 740		2 270	‡ 3 000		10 600		9 810		1 850	1 500	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Delaware River at Belvidere
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 500	3 830	4 320	6 940	5 120	15 500	7 270	4 850	5 990	2 940	1 560	1 700
2	2 370	3 600	3 830	6 620	4 850	13 700	6 940	5 400	5 120	3 830	1 430	1 370
3	7 290	4 070	3 830	6 940	4 580	12 300	6 940	5 690	5 120	3 830	1 310	1 500
4	14 100	4 580	‡ 4 000	9 050	4 580	11 000	6 940	5 120	4 580	3 370	1 370	1 850
5	10 200	5 990	‡ 4 400	9 810	5 120	9 430	6 620	4 850	4 070	2 940	1 100	1 630
6	7 270	5 990	‡ 4 400	7 270	4 850	8 680	5 990	4 850	3 830	2 740	1 260	1 560
7	5 690	5 120	4 580	6 940	4 320	8 680	9 140	4 580	3 830	2 550	1 370	1 780
8	4 850	4 850	4 850	7 610	4 070	12 200	20 400	4 320	3 830	2 550	1 310	1 500
9	4 070	4 580	4 850	8 680	4 070	33 600	18 900	4 320	3 830	2 740	1 500	1 310
10	3 600	4 320	5 400	10 600	3 830	28 800	15 000	4 070	6 000	2 940	1 310	1 430
11	3 150	3 830	5 990	10 600	3 830	20 500	12 800	3 830	20 800	2 740	1 200	1 500
12	3 150	3 600	5 400	9 050	3 600	20 500	11 400	3 370	21 600	3 150	970	1 560
13	2 940	3 830	4 580	8 680	3 600	21 000	10 600	3 370	14 100	2 740	1 370	1 500
14	2 550	3 830	4 850	13 100	4 320	17 900	10 600	3 370	10 600	2 460	1 260	1 500
15	2 360	4 070	8 490	19 900	4 320	15 500	11 000	4 070	8 680	2 460	1 310	1 560
16	2 460	5 120	11 900	18 400	4 320	13 200	10 600	5 120	7 270	2 940	1 560	1 370
17	2 360	6 620	10 600	15 000	4 070	11 400	10 200	5 400	6 300	3 150	1 260	2 060
18	2 360	8 770	10 200	12 300	4 320	11 400	11 000	5 120	5 990	2 740	1 260	3 830
19	2 270	20 300	18 000	9 430	4 320	13 200	10 600	4 320	5 400	2 460	1 200	3 150
20	2 180	22 100	26 200	6 620	4 850	16 400	9 810	4 580	4 850	2 180	1 700	2 460
21	2 010	16 900	25 000	6 620	6 620	15 000	8 680	4 850	4 580	1 930	1 630	2 010
22	1 930	13 200	16 900	7 610	10 600	12 800	8 320	4 580	4 320	1 850	1 560	1 780
23	3 860	11 000	12 800	7 610	18 000	10 600	7 960	4 580	3 830	2 180	1 850	1 560
24	8 320	9 050	10 200	6 940	16 900	9 050	7 610	4 070	3 600	2 180	2 550	1 560
25	9 430	7 960	9 050	5 690	20 900	9 050	7 270	4 850	3 370	2 360	2 940	1 430
26	6 940	7 960	8 320	5 400	21 000	10 200	6 940	5 690	3 370	2 360	2 740	1 430
27	5 400	6 940	8 320	4 850	28 100	10 600	6 620	6 940	3 600	1 930	2 740	1 560
28	4 850	6 620	8 320	5 120	19 900	10 600	5 990	5 990	3 830	1 700	2 360	1 370
29	4 580	5 990	9 050	5 690		9 050	5 690	5 990	4 070	1 500	2 100	1 200
30	4 070	5 400	8 320	5 400		7 960	5 120	6 300	3 370	1 780	1 930	1 150
31	4 070		7 960	5 120		7 270		6 620		1 630	1 850	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 450	1 330	1 930	1 840	1 800	4 560	23 300	11 900	8 680	3 470	4 820	2 180
2	1 330	1 420	2 090	1 700	1 740	4 690	22 700	10 200	7 780	3 040	4 180	2 230
3	1 450	1 190	2 940	1 480	1 520	4 430	26 200	9 430	6 780	2 830	3 700	2 440
4	1 400	1 100	3 250	1 590	1 660	4 560	23 300	8 680	6 030	2 630	3 940	2 730
5	1 450	1 310	3 140	1 550	1 480	4 430	23 300	8 320	5 340	2 630	3 820	2 440
6	1 220	1 680	3 140	2 630	1 640	4 180	21 000	7 610	4 820	2 440	3 700	2 210
7	1 060	1 620	2 940	3 250	1 460	4 060	18 900	6 940	4 430	2 830	3 250	2 090
8	1 320	1 480	2 730	3 140	1 420	4 430	19 400	7 270	7 640	4 060	3 040	1 820
9	1 080	1 370	2 440	3 360	1 590	6 030	18 400	10 400	11 400	4 950	2 730	1 700
10	1 310	† 1 270	† 2 400	3 580	1 510	6 030	17 400	15 900	10 200	10 400	2 730	1 950
11	1 190	1 110	† 2 400	3 140	1 620	6 030	18 400	14 100	10 000	19 600	2 730	1 740
12	1 100	† 1 260	† 2 200	2 940	1 680	6 030	24 400	15 000	9 050	32 800	3 250	1 740
13	1 200	1 400	† 2 200	2 730	1 820	5 480	22 100	17 900	7 780	19 900	3 040	1 450
14	1 000	1 240	2 250	2 440	2 140	4 950	16 900	16 400	6 470	14 100	3 040	1 550
15	1 240	† 1 260	† 1 800	‡ 1 700	2 340	4 690	14 600	17 400	5 620	10 600	2 940	1 370
16	1 200	† 1 450	† 1 400	‡ 1 700	2 180	5 080	12 800	15 500	5 620	8 680	2 940	1 480
17	1 200	1 800	1 360	‡ 1 900	2 340	5 480	11 400	12 800	7 610	7 270	2 540	1 530
18	1 140	2 250	1 380	2 200	4 560	5 480	10 000	13 700	9 620	6 940	2 340	1 620
19	1 170	2 830	1 740	2 250	5 340	6 030	9 050	11 900	9 050	6 320	2 630	1 880
20	1 190	2 830	1 840	2 250	5 080	6 940	8 320	10 000	7 440	5 890	2 540	1 880
21	1 090	2 540	1 980	2 250	5 210	6 780	7 780	9 810	6 030	6 030	2 250	1 930
22	1 100	2 230	1 870	1 930	5 210	6 470	7 270	11 900	5 340	6 180	2 160	1 620
23	1 210	2 110	1 740	1 740	4 950	7 610	7 780	12 300	6 030	15 300	2 110	1 590
24	1 200	2 000	2 120	2 040	4 690	9 050	12 800	12 800	5 750	15 900	1 930	1 480
25	1 180	1 700	1 580	1 920	4 430	12 800	13 200	11 900	4 950	11 900	1 560	1 380
26	1 260	1 760	1 660	1 840	4 560	18 900	11 000	12 300	4 820	9 050	1 970	1 380
27	1 250	1 900	1 870	1 740	4 690	22 700	11 900	15 900	4 300	7 270	1 680	1 480
28	1 040	1 820	2 730	2 340	4 430	25 000	13 200	13 200	4 060	6 620	2 250	1 400
29	1 150	1 510	2 440	2 250		32 200	11 400	10 800	3 940	5 750	2 250	1 270
30	1 150	1 450	2 250	1 950		45 200	11 400	9 240	3 820	5 620	2 440	1 450
31	1 180		1 930	1 930		33 500		8 320		5 210	2 630	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Delaware River at Belvidere
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 330	1 740	1 880	3 470	15 500	6 030	33 900	6 470	4 430	4 060	2 090	1 770
2	1 190	1 700	2 340	3 470	11 400	5 480	52 200	8 680	4 430	3 940	1 490	1 600
3	1 220	1 620	2 730	3 580	10 400	5 210	37 400	9 430	4 430	4 690	1 680	2 280
4	1 200	1 740	2 940	3 820	10 000	5 480	37 500	8 500	4 300	5 890	2 070	2 440
5	1 310	1 350	2 940	3 940	10 000	6 030	29 400	7 270	3 470	5 480	2 120	1 970
6	1 100	1 560	2 630	3 940	8 680	‡ 5 750	22 700	6 470	3 250	5 750	2 110	1 410
7	1 430	1 660	2 440	6 320	7 780	‡ 5 500	20 500	6 470	3 470	5 480	1 950	1 260
8	1 640	1 400	2 440	17 800	7 100	‡ 5 000	17 400	7 130	3 360	4 820	1 740	1 400
9	1 460	1 320	2 340	15 900	7 270	4 690	17 900	14 700	3 040	4 690	1 720	1 220
10	1 440	1 240	2 140	11 900	7 440	4 060	20 500	16 400	2 830	4 180	2 340	1 060
11	1 270	1 460	2 630	9 810	10 100	4 430	24 400	13 700	2 630	3 580	2 630	1 100
12	1 260	1 420	3 250	8 320	19 400	4 820	20 500	11 400	2 540	3 360	2 630	1 130
13	1 100	1 240	3 940	7 270	22 100	4 950	25 600	10 200	2 830	3 360	2 040	895
14	1 030	1 320	5 210	7 270	19 900	4 430	22 100	9 050	4 010	3 040	1 720	1 030
15	1 170	1 400	7 960	8 140	15 500	4 060	17 400	7 960	4 690	2 630	1 420	1 170
16	1 450	1 280	10 200	7 440	12 300	3 940	14 600	6 940	4 950	2 630	1 300	994
17	1 330	1 280	8 500	9 620	10 400	4 180	12 800	6 470	5 500	2 630	1 350	954
18	1 320	1 800	6 620	9 050	10 200	4 430	11 000	6 180	11 600	2 440	2 040	1 120
19	1 350	2 440	5 750	11 900	9 050	4 430	10 200	5 620	14 800	2 140	2 250	1 010
20	1 170	2 090	5 080	11 400	7 960	4 430	9 430	4 950	9 620	2 540	2 040	874
21	1 320	2 230	4 560	9 810	6 620	4 690	8 680	4 690	7 610	2 340	1 710	946
22	1 190	1 880	4 430	9 430	6 030	4 820	8 140	4 430	7 100	2 090	1 950	1 060
23	1 320	1 660	4 300	12 800	6 030	5 210	7 780	3 820	10 900	2 160	1 620	1 010
24	1 310	1 480	4 180	17 400	5 890	6 030	7 440	3 820	10 000	2 250	1 650	994
25	1 100	1 930	5 210	18 900	4 690	6 620	7 100	3 940	7 270	2 230	1 850	1 030
26	1 010	1 820	4 820	15 000	4 820	6 470	7 440	3 700	6 180	1 820	1 260	1 080
27	954	1 770	4 950	12 300	4 950	7 270	7 270	3 940	5 210	2 110	1 220	986
28	1 040	1 660	4 180	11 900	5 620	14 900	6 940	5 460	5 340	1 900	1 240	1 220
29	1 400	1 850	3 820	11 900	5 890	18 900	6 470	7 270	5 480	2 210	1 310	1 740
30	1 710	2 250	3 700	10 400		15 500	6 030	5 890	4 820	2 340	1 300	1 300
31	1 600		3 820	15 000		15 900		4 690		1 970	1 510	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 130	6 980	7 100	8 680	5 890	6 780	11 900	6 940	4 060	† 1 840	1 310	6 940
2	1 160	23 200	7 270	7 440	5 620	6 780	17 400	6 940	3 820	† 1 930	1 900	6 180
3	1 010	25 600	6 780	6 780	5 890	6 780	26 200	7 100	3 580	† 3 800	1 620	5 750
4	970	16 900	6 180	6 620	5 750	6 620	29 400	7 610	3 470	† 4 400	1 270	16 400
5	1 120	13 700	5 890	7 100	4 950	6 030	26 900	8 140	3 250	† 3 600	1 450	30 800
6	5 330	11 400	6 030	7 440	3 940	5 480	21 600	8 140	4 080	† 3 400	1 150	22 700
7	65 700	11 000	5 750	6 470	3 940	5 750	19 900	7 960	7 520	† 3 000	1 680	15 500
8	43 000	11 000	5 480	5 890	5 750	7 960	22 100	7 440	6 940	† 2 400	1 770	11 400
9	17 800	10 200	5 080	5 340	6 780	12 800	21 600	7 610	5 340	† 2 000	2 040	9 810
10	11 000	16 700	5 080	5 620	5 620	14 600	17 400	7 440	4 690	† 1 800	1 820	8 860
11	8 140	32 200	4 690	5 340	4 560	10 000	15 500	8 140	3 940	† 1 600	1 850	7 440
12	6 780	28 800	4 180	5 890	4 560	7 780	15 900	8 140	3 250	1 900	1 920	6 780
13	5 480	19 900	4 430	6 470	4 180	7 440	19 400	7 440	3 250	2 020	1 520	6 180
14	4 950	15 900	4 430	5 890	4 820	9 620	21 600	6 940	3 250	1 800	1 840	5 890
15	4 560	13 700	4 060	5 620	5 890	13 700	23 300	6 180	2 730	1 310	1 710	14 000
16	3 940	11 900	3 250	4 820	5 890	17 900	23 300	6 320	2 540	1 380	1 510	29 100
17	3 820	11 000	3 040	5 340	5 750	16 400	24 400	6 320	2 440	1 410	1 840	43 600
18	4 780	13 200	3 040	5 750	5 890	13 700	39 200	5 750	2 540	1 220	2 250	34 900
19	7 610	16 900	3 250	5 890	5 750	14 100	39 900	5 480	2 230	1 700	2 210	23 300
20	7 610	37 300	2 940	6 470	6 780	14 100	28 800	5 340	2 040	1 450	2 210	17 900
21	7 270	38 000	3 470	7 780	9 620	19 400	22 100	5 340	2 110	1 420	1 760	14 600
22	6 320	26 200	4 180	7 960	9 430	32 800	18 400	4 690	1 950	1 320	3 380	12 800
23	5 340	19 900	4 180	†9 000	9 240	32 200	15 000	4 950	1 980	1 770	7 500	11 400
24	4 820	15 900	4 060	13 200	9 240	22 700	13 200	4 950	2 040	1 280	42 400	10 400
25	4 690	13 200	4 820	11 000	9 430	17 900	11 400	4 950	1 870	1 060	109 000	9 050
26	4 690	12 300	6 030	9 810	9 050	15 900	10 600	4 690	2 090	2 110	57 600	8 500
27	4 820	10 600	7 100	9 050	7 270	15 000	10 200	4 430	1 450	2 140	28 100	7 780
28	5 080	8 140	7 440	8 320	6 940	14 600	9 430	3 940	1 720	1 640	17 900	7 100
29	5 210	7 610	7 610	7 440		13 700	8 860	3 470	1 820	1 790	13 200	6 470
30	4 950	7 440	7 440	6 470		11 900	7 780	3 940	1 900	1 620	10 200	5 750
31	4 300		7 780	6 180		11 000		4 060		1 510	8 140	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Delaware River at Belvidere
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5 080	5 890	4 820	5 750	5 080 ‡	2 160	15 900	7 440	4 180	2 540	5 620	2 830
2	4 950	5 480	4 820	8 270	4 820	2 440	23 300	6 940	4 060	2 630	4 300	2 340
3	4 820	5 340	4 820	17 400 ‡	4 820	3 140	20 500	7 100	3 580	2 120	3 820	1 970
4	4 820	5 080	4 560	10 800 ‡	4 820	5 480	18 900	8 860	3 040	2 440	3 360	1 820
5	4 560	4 560	5 480	9 620 ‡	4 820	12 800	18 900	10 800	3 700	2 540	2 940	1 970
6	4 560	4 300	6 780	10 200 ‡	4 560	55 000	17 900	10 200	3 940	1 970	2 630	2 540
7	4 300	4 820	6 620	11 900 ‡	4 690	25 200	18 900	8 860	3 470	1 980	2 250	2 540
8	4 060	5 210	6 320	18 400 ‡	4 300	15 500	18 900	8 500	3 140	1 980	2 250	3 540
9	3 820	5 340	6 030	23 300 ‡	3 820	11 400	15 900	7 440	2 730	2 070	2 250	6 620
10	3 700	5 340	5 750	18 900 ‡	3 940	8 680	14 100	6 940	2 630 †	2 160	1 850	9 620
11	4 060	5 080	4 180	15 000	3 940	6 940	13 200	9 430	2 630 †	2 070	2 070	7 270
12	3 940	4 430 ‡	2 730	13 200	3 470	5 750	19 500	10 600	2 630 †	1 930	2 180	5 340
13	3 700	4 180 ‡	3 040	11 400	3 360	6 030	30 800	9 240	2 830 †	1 820	1 720	4 180
14	3 580	4 690 ‡	3 470	10 600 ‡	3 470	6 470	23 300	7 610	2 730 †	1 900	1 870	3 700
15	3 360	5 620 ‡	3 940	9 430	3 940	6 620	18 900	7 960	2 540	2 250	1 790	4 820
16	3 040	6 180 ‡	4 430	8 860	3 820	6 180	16 900	8 320	2 540	2 630	1 740	10 100
17	3 480	5 210 ‡	5 210	7 960	3 700	6 030	18 400	7 270	2 180	2 340	2 440	14 800
18	5 340	4 820	6 180	6 620	3 250	6 320	19 900	6 620	1 880	1 970	2 340	26 200
19	5 750	5 210	9 430	5 890	2 730	6 940	21 600	6 030	4 220	1 720	1 880	17 400
20	5 480	4 690	8 860	5 340	2 340	7 440	16 400	5 340	7 960	1 600	1 650	12 300
21	4 430	4 820	8 140	5 210	3 250	6 940	16 400	5 080	8 860	2 070	1 650	9 430
22	4 060	4 820	8 140	5 210	3 250	6 620	14 100	5 080	6 620	2 040	1 930	7 780
23	3 820	4 950	7 610	6 320	3 360	5 890	12 300	6 180	5 080	1 420	1 840	6 780
24	4 530	6 940	7 100	6 780	2 940	5 480	11 400	6 180	3 940	1 260	1 560	5 890
25	6 940	6 780	6 780	7 270 ‡	2 630	4 300	13 200	6 030	3 250	1 820	1 770	7 100
26	13 200	6 180	8 320	7 610 ‡	2 250	4 180	12 800	7 610	3 250	1 710	3 360	6 320
27	11 000	5 340 ‡	7 960	6 320 ‡	2 000	5 340	11 000	6 470	3 360	1 720	3 580	5 340
28	8 500	5 890 ‡	5 340	6 180 ‡	1 980	8 510	10 000	5 620	2 940	1 810	3 250	4 820
29	7 270	5 750 ‡	4 300	5 750		17 900	8 500	5 340	2 830	19 800	3 250	4 950
30	6 470	5 480 ‡	4 060 ‡	4 820		12 800	7 610	5 080	2 630	12 500	2 940	10 300
31	6 030		4 430 ‡	4 820		11 400		4 430		7 610	2 630	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	3 600	2 100	2 750		0.606	0.70
November	2 940	1 850	2 330		.513	.57
December	6 620	1 560	3 330		.733	.85
Calendar year, 1928	63 200	1 560	9 934		2.19	29.77
January, 1929	11 900	2 800	5 160		1.14	1.31
February	12 800	3 150	5 140		1.13	1.18
March	74 000	9 050	20 900		4.60	5.30
April	53 100	8 680	22 900		5.04	5.62
May	23 600	9 050	13 200		2.91	3.36
June	8 680	2 940	4 260		.938	1.05
July	5 120	1 560	2 580		.568	.65
August	3 370	1 370	1 780		.392	.45
September	3 370	1 100	1 910		.421	.47
Year ending Sept. 30, 1929	74 000	1 100	7 200		1.59	21.51
October	14 100	1 500	4 590	4 770	1.05	1.21
November	22 100	3 600	7 330	7 430	1.64	1.83
December	26 200	3 830	8 870	8 800	1.94	2.24
Calendar year, 1929	74 000	1 100	8 235		1.81	24.67
January, 1930	19 900	4 850	8 700	8 640	1.90	2.19
February	28 100	3 600	8 180	8 210	1.81	1.88
March	33 600	7 270	13 800	14 300	3.15	3.63
April	20 400	5 120	9 430	9 660	2.13	2.38
May	6 940	3 370	4 870	4 840	1.07	1.23
June	21 600	3 370	6 320	6 590	1.45	1.62
July	3 830	1 500	2 540	2 150	.474	.55
August	2 940	970	1 640	995	.219	.25
September	3 830	1 150	1 710	1 330	.293	.33
Year ending Sept. 30, 1930	33 600	970	6 490	6 470	1.43	19.34

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.
Note.- Data prior to October 1929 not corrected for effect of storage.

Delaware River at Belvidere
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	1 450	1 040	1 210	862	0.190	0.22
November	2 830	1 100	1 670	1 500	.330	.37
December	3 250	1 360	2 190	2 030	.447	.52
Calendar year, 1930	33 600	970	5 166	5 071	1.12	15.17
January, 1931	3 580	1 480	2 240	2 190	.482	.56
February	5 340	1 420	2 970	3 080	.678	.71
March	45 200	4 060	10 400	11 300	2.49	2.87
April	26 200	7 270	15 700	16 600	3.66	4.08
May	17 900	6 940	11 900	12 300	2.71	3.12
June	11 400	3 820	6 680	6 560	1.44	1.61
July	32 800	2 440	8 590	8 490	1.87	2.16
August	4 820	1 560	2 810	2 500	.551	.64
September	2 730	1 270	1 770	1 520	.335	.37
Year ending Sept. 30, 1931	45 200	1 040	5 690	5 760	1.27	17.23
October	1 710	954	1 280	933	.206	.24
November	2 440	1 240	1 650	1 230	.271	.30
December	10 200	1 880	4 260	3 930	.866	1.00
Calendar year, 1931	45 200	954	5 873	5 903	1.30	17.66
January, 1932	18 900	3 470	9 970	10 200	2.25	2.59
February	22 100	4 690	9 760	10 100	2.22	2.39
March	18 900	3 940	6 570	6 730	1.48	1.71
April	52 200	6 030	17 700	18 500	4.07	4.54
May	16 400	3 700	7 280	7 480	1.65	1.90
June	14 800	2 540	5 670	5 700	1.26	1.41
July	5 890	1 820	3 250	2 890	.637	.73
August	2 630	1 220	1 790	1 400	.308	.36
September	2 440	874	1 270	826	.182	.20
Year ending Sept. 30, 1932	52 200	874	5 840	5 800	1.28	17.37
October	43 000	970	8 500	8 670	1.91	2.20
November	38 000	6 980	16 900	17 600	3.88	4.33
December	7 780	2 940	5 230	4 900	1.08	1.24
Calendar year, 1932	52 200	874	7 783	7 879	1.74	23.60
January, 1933	13 200	4 820	7 130	6 890	1.52	1.75
February	9 620	3 940	6 370	6 320	1.39	1.45
March	32 800	5 480	13 300	13 900	3.06	3.53
April	39 900	7 780	19 800	20 400	4.49	5.01
May	8 140	3 470	6 150	5 950	1.31	1.51
June	7 520	1 450	3 130	2 680	.590	.66
July	4 400	1 060	1 990	1 590	.350	.40
August	109 000	1 150	10 800	11 600	2.56	2.95
September	43 600	5 750	13 900	14 100	3.11	3.47
Year ending Sept. 30, 1933	109 000	970	9 410	9 520	2.10	28.50
October	13 200	3 040	5 247	4 761	1.05	1.21
November	6 940	4 180	5 281	4 619	1.02	1.14
December	9 430	2 730	5 795	5 346	1.18	1.36
Calendar year, 1933	109 000	1 060	8 224	8 163	1.80	24.44
January, 1934	23 300	4 820	9 520	9 665	2.13	2.46
February	5 080	1 980	3 620	2 919	.643	.67
March	55 000	2 160	9 545	9 532	2.10	2.42
April	30 800	7 610	16 650	17 560	3.87	4.32
May	10 800	4 430	7 245	7 404	1.63	1.88
June	8 860	1 880	3 646	3 421	.754	.84
July	19 800	1 260	3 110	3 095	.682	.79
August	5 620	1 560	2 539	2 126	.468	.54
September	26 200	1 820	7 020	7 218	1.59	1.77
Year ending Sept. 30, 1934	55 000	1 260	6 609	6 483	1.43	19.40

Delaware River at Riegelsville

LOCATION.- Water-stage recorder at suspension bridge at Riegelsville, Warren County, 600 feet above mouth of Musconetcong River, flow of which is included in records subsequent to Oct. 1, 1931. Zero of gage is 125.29 feet above mean sea level.

DRAINAGE AREA.- 6 340 square miles (includes drainage area of Musconetcong River). 6 190 square miles used prior to Oct. 1, 1931.

RECORDS AVAILABLE.- July 1906 to September 1934.

AVERAGE DISCHARGE.- 28 years, 10 750 second-feet, corrected for storage and diversions.

EXTREMES.- 1906-34: Maximum discharge, about 144 000 second-feet Mar. 28, 1913 (gage height, 25 feet); minimum, not including flow in canal, 870 second-feet Sept. 20, 1908 (gage height, 1.55 feet).

Maximum stage known, 35.9 feet, from authentic high-water marks, Oct 10-11, 1903 (discharge, about 275 000 second-feet).

REMARKS.- Part of monthly and annual discharge table corrected for diversion in Delaware Division Canal and for effect of storage on Wallenpaupack Creek, in Swinging Bridge and Toronto reservoirs on Mongaup River, and in Lake Hopatcong. Records for Oct. 1, 1925 to Sept. 30, 1928, supercede those published in Bulletin 33, Department of Conservation and Development, 1929.

Daily discharge, in second-feet, 1925-26

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 720	7 440	10 400	5 860	10 800	21 700	18 600	12 500	4 960	3 040	5 560	4 400
2	2 620	7 120	9 700	6 170	9 390	22 600	16 900	12 200	7 120	2 720	3 860	4 400
3	2 720	6 800	11 100	6 170	10 400	20 400	14 900	11 800	8 410	2 520	2 930	6 480
4	2 820	6 480	17 700	6 170	8 740	16 900	14 500	11 100	7 440	2 420	2 520	5 260
5	3 150	6 170	24 000	6 170	6 800	14 500	14 100	10 400	6 480	2 320	2 720	4 680
6	3 150	5 860	33 200	6 480	6 800	11 800	14 500	9 390	5 560	2 420	2 520	10 000
7	3 150	5 860	38 900	6 480	7 120	14 900	14 900	8 740	5 260	2 720	2 320	13 700
8	2 930	7 120	31 400	5 560	7 120	24 300	16 100	8 080	5 260	2 320	2 130	12 500
9	2 720	8 740	25 000	5 560	6 800	17 700	27 400	7 440	5 560	2 130	2 130	10 000
10	2 820	14 100	21 200	4 960	6 480	17 300	46 300	6 800	5 260	2 130	2 130	8 740
11	2 720	13 700	17 700	4 680	6 480	16 500	38 900	6 800	4 680	2 130	2 040	7 440
12	2 720	11 400	15 300	4 400	5 860	14 100	32 400	6 480	4 400	1 940	2 130	6 480
13	2 720	17 500	14 100	4 120	6 170	12 500	26 400	5 560	4 120	1 760	2 720	5 860
14	2 720	33 000	12 900	3 860	6 170	10 800	22 200	5 260	4 120	1 680	2 930	4 960
15	2 930	30 400	11 400	3 860	8 080	10 000	20 400	5 260	4 400	1 850	4 680	4 680
16	3 150	30 400	10 000	4 400	10 400	9 700	19 900	4 960	5 860	2 040	5 560	4 400
17	3 380	42 200	9 390	4 400	9 070	8 410	18 600	4 960	5 860	2 130	9 390	4 120
18	3 380	36 200	8 080	5 860	9 700	8 080	16 500	4 680	5 260	1 940	11 800	3 860
19	3 380	25 900	7 760	15 800	17 200	8 080	14 500	4 400	4 680	2 420	10 000	3 610
20	3 380	21 200	8 080	18 400	15 700	8 740	12 200	4 680	4 120	2 130	11 800	3 610
21	3 040	17 700	7 760	20 400	14 100	10 800	11 100	4 960	3 610	1 760	8 410	3 150
22	2 930	15 300	8 740	18 100	14 100	12 500	10 400	5 260	3 150	1 850	6 800	3 150
23	2 930	13 300	9 700	12 900	13 700	16 500	11 100	5 260	3 380	1 940	5 860	3 150
24	2 930	11 800	9 700	10 400	11 800	22 600	17 700	4 680	3 380	2 130	7 500	3 150
25	4 600	10 800	8 410	8 740	15 100	28 400	20 400	4 400	3 380	2 320	9 070	3 380
26	9 540	9 700	7 120	8 080	36 300	30 400	25 900	4 120	3 610	2 130	9 390	3 610
27	17 800	9 700	4 960	8 410	27 400	33 000	22 600	3 860	3 860	1 760	8 740	3 610
28	13 600	11 100	3 610	7 440	21 700	25 400	17 300	3 610	4 120	1 590	7 760	3 610
29	10 800	13 700	4 680	5 560		20 400	15 300	3 380	3 610	1 760	6 800	4 400
30	9 070	12 500	4 680	5 860		17 300	14 500	3 150	5 380	2 520	5 860	4 960
31	8 410		4 960	6 480		16 900		3 380		3 240	4 960	

Delaware River at Riegelsville
(Continued)

Daily discharge, in second-feet, 1926-27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5 260	12 900	15 300	6 800	17 300	18 100	13 300	12 500	14 100	6 170	6 480	16 500
2	4 680	13 300	14 900	6 170	16 900	16 100	12 900	10 800	13 300	5 560	10 000	23 400
3	4 120	12 500	12 900	5 860	16 100	13 700	12 500	10 400	11 800	4 960	10 400	37 300
4	3 860	11 400	11 100	6 170	15 300	12 500	11 400	10 000	10 400	4 400	8 410	28 400
5	3 380	10 400	9 700	7 120	14 500	11 800	11 400	9 700	10 400	4 120	7 120	19 900
6	4 400	9 390	7 760	6 800	12 200	11 100	11 800	9 390	10 800	3 860	5 860	†15 000
7	8 870	8 740	7 120	6 170	11 400	11 400	11 800	8 740	10 000	3 610	5 260	†12 000
8	14 100	8 080	8 410	5 260	11 100	12 900	12 500	7 760	9 070	3 860	5 260	†11 000
9	10 400	8 410	9 390	4 960	10 800	19 400	12 200	7 120	7 760	3 610	5 560	† 9 480
10	8 410	13 700	9 700	4 680	10 400	27 900	10 800	8 410	7 120	3 610	5 260	8 080
11	7 120	21 200	9 700	4 120	† 9 500	24 500	9 390	13 300	6 800	3 380	4 960	7 120
12	6 800	19 000	9 390	4 680	† 9 000	25 900	9 390	16 900	6 480	3 150	4 680	6 800
13	7 120	15 300	9 070	4 960	† 9 000	30 400	9 700	14 100	6 170	3 040	4 400	6 800
14	6 800	13 300	9 070	5 860	† 8 500	42 200	9 070	11 800	5 860	2 930	5 860	6 480
15	6 480	11 800	9 390	6 170	† 9 000	64 500	8 410	12 200	6 480	3 150	10 800	6 170
16	6 480	20 500	8 410	4 120	† 8 500	58 200	7 760	14 100	5 860	3 150	11 400	5 560
17	5 860	91 700	7 120	4 120	† 9 500	43 900	7 440	14 100	5 260	4 850	9 390	5 260
18	5 560	89 400	6 800	4 680	13 700	36 700	7 120	12 200	4 680	4 960	7 760	4 960
19	6 170	54 800	5 260	5 860	15 700	35 700	7 120	11 800	4 900	3 860	7 440	4 960
20	6 800	45 100	5 560	7 760	13 300	38 900	7 440	12 900	13 200	3 380	7 120	5 260
21	8 410	35 700	5 860	14 100	11 800	35 700	7 120	11 800	11 800	3 150	6 480	5 560
22	9 390	27 900	7 440	12 900	12 500	45 600	9 070	10 400	9 070	3 040	5 860	4 960
23	9 390	23 600	7 120	21 900	13 300	42 200	11 800	9 390	8 410	5 830	4 960	4 400
24	8 740	20 400	6 800	32 200	14 100	31 400	12 500	11 800	8 080	9 700	4 960	3 860
25	16 500	17 700	6 800	24 000	18 600	25 900	11 100	32 600	6 800	9 700	4 680	4 120
26	24 000	15 700	8 410	18 100	25 900	22 200	10 400	42 700	7 120	7 440	4 400	3 860
27	23 600	17 700	6 480	12 200	25 900	19 900	10 800	37 200	8 740	6 480	5 860	3 380
28	19 000	19 400	6 170	10 400	21 200	17 300	14 900	30 400	9 390	5 860	9 070	3 380
29	15 700	17 300	8 410	12 200		16 500	16 100	24 000	7 760	5 260	13 900	3 150
30	13 700	15 300	7 760	14 500		15 300	14 500	19 000	6 480	4 680	24 000	3 150
31	12 500		7 120	15 700		14 500		16 100		4 680	20 400	

Daily discharge, in second-feet, 1927-28

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3 040	10 000	25 900	20 400	8 080	12 500	24 500	43 300	10 000	78 000	10 800	14 100
2	2 930	9 390	23 600	21 200	7 760	11 800	19 900	42 200	9 390	50 000	10 000	12 500
3	2 720	13 800	27 400	16 500	7 440	11 100	17 700	35 100	8 740	35 300	9 700	12 500
4	5 260	38 300	29 900	11 100	7 440	9 700	16 100	29 400	8 080	26 900	9 700	20 400
5	15 600	59 800	26 400	9 700	9 700	9 070	15 700	25 400	10 400	24 000	9 700	19 400
6	15 300	45 100	24 500	10 000	10 800	8 080	15 700	22 600	24 100	39 800	11 800	15 700
7	10 000	33 300	22 200	10 800	9 390	7 760	17 300	23 600	44 300	40 000	12 900	13 300
8	7 760	26 400	41 900	11 800	15 000	7 440	19 000	22 600	38 000	28 400	13 700	11 800
9	7 120	22 200	78 200	12 200	17 300	7 440	23 600	19 000	27 900	21 700	12 200	10 800
10	6 800	19 400	57 400	12 200	17 700	6 800	22 200	16 900	26 900	18 600	11 100	9 390
11	6 170	17 300	39 300	11 800	17 300	7 120	18 100	14 900	26 900	16 900	12 500	8 740
12	5 560	16 500	33 500	11 100	13 700	7 440	18 100	13 700	21 700	15 700	15 300	8 410
13	11 500	16 900	31 400	9 700	10 800	8 740	21 700	12 200	17 700	16 500	12 200	7 440
14	25 200	14 900	38 200	9 390	10 700	12 200	22 600	10 800	15 700	28 800	10 400	7 760
15	25 000	13 700	48 000	9 390	26 800	19 800	25 900	10 400	15 700	42 000	9 070	7 120
16	17 700	12 900	41 000	9 390	37 000	18 800	28 900	9 390	13 700	32 400	7 760	7 120
17	14 100	13 300	36 700	9 070	26 900	13 700	24 000	9 070	11 400	23 600	10 200	6 480
18	17 600	41 300	31 900	8 740	19 900	12 200	20 400	8 740	10 000	18 600	16 500	6 170
19	57 900	71 000	25 400	8 080	16 100	11 100	17 700	10 400	10 000	15 300	14 100	6 170
20	102 000	47 600	22 200	10 400	13 300	10 800	15 700	14 500	12 500	13 700	11 400	6 800
21	75 400	34 400	19 900	7 760	11 800	10 000	14 100	19 900	15 700	12 200	9 720	7 120
22	53 600	28 400	18 100	5 860	9 700	9 700	14 900	19 900	15 700	11 100	10 400	6 800
23	39 200	24 500	16 900	5 860	17 800	10 000	22 200	17 300	17 700	16 500	11 100	6 480
24	29 900	21 700	15 300	6 170	28 400	10 400	37 500	27 400	18 100	14 100	10 000	5 860
25	24 500	20 800	12 500	13 700	27 900	12 300	43 900	21 700	16 500	14 100	10 000	5 260
26	20 400	21 700	10 800	15 600	22 900	22 600	34 500	16 900	23 400	11 800	12 200	5 260
27	17 700	19 400	10 000	14 500	16 500	25 900	28 400	14 900	29 900	11 100	24 200	5 260
28	15 300	21 700	10 400	11 100	14 500	28 900	30 900	12 900	27 900	14 500	31 900	5 260
29	13 700	26 400	11 400	7 760	13 300	23 100	38 400	12 500	25 500	19 000	23 600	4 960
30	12 200	27 900	12 500	7 440		21 200	42 700	11 400	62 500	15 700	19 000	4 960
31	10 800		15 300	7 760		28 400		10 800		12 500	15 300	

† Estimated.

Delaware River at Riegelsville
(Continued)

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4 960	3 150	† 5 000	3 610	4 120	22 600	12 000	24 000	11 100	6 170	2 040	1 760
2	4 400	3 150	† 6 500	4 960	3 860	19 900	11 000	20 400	9 390	5 860	2 130	1 590
3	4 680	2 930	8 080	3 610	3 860	15 300	11 000	21 700	8 080	5 260	1 850	1 430
4	4 680	3 150	7 440	3 610	4 120	14 100	10 800	29 400	7 760	4 960	1 940	1 360
5	4 400	3 610	6 170	3 860	3 860	18 400	10 800	28 900	7 120	4 400	1 940	1 430
6	4 680	3 150	5 560	9 250	4 120	33 500	15 300	23 600	6 800	3 860	1 940	1 590
7	4 680	3 380	4 960	13 300	15 000	33 000	24 500	23 600	6 480	3 610	1 850	1 940
8	4 120	2 930	4 680	9 390	13 300	24 500	23 100	22 600	6 480	3 610	2 040	3 150
9	3 860	3 040	4 400	8 740	10 400	19 400	19 000	19 900	6 170	3 610	2 040	3 860
10	4 120	2 930	3 610	9 390	10 000	14 100	16 500	17 300	5 560	3 610	1 940	2 930
11	4 120	2 930	3 610	10 400	9 070	12 900	17 300	14 900	5 260	3 040	1 940	2 620
12	3 610	2 930	3 860	8 410	7 760	12 900	22 200	13 700	4 960	2 820	2 420	2 720
13	3 610	2 720	3 610	7 440	6 480	14 100	38 400	12 900	4 400	2 720	2 220	2 520
14	3 610	2 820	4 120	4 960	5 860	22 900	44 500	13 300	4 400	2 620	2 320	2 520
15	3 610	2 930	4 120	4 960	5 860	61 600	33 000	14 500	4 400	2 520	8 020	3 860
16	3 150	2 930	4 120	5 260	5 560	80 200	29 400	14 900	4 400	2 220	5 560	3 860
17	3 380	2 820	3 610	4 960	5 260	70 100	36 200	13 700	4 120	2 320	3 860	4 120
18	3 610	2 620	3 860	4 680	5 260	49 900	35 700	12 200	3 610	2 320	3 610	5 260
19	3 610	2 620	4 400	6 480	4 960	33 500	30 400	11 800	3 860	3 380	3 150	4 120
20	3 380	3 380	4 680	11 300	4 960	25 900	25 400	12 500	3 860	4 400	2 620	3 610
21	3 150	† 3 800	4 960	12 900	4 400	22 600	27 400	15 700	4 400	3 610	2 420	3 380
22	3 150	† 4 200	4 120	8 740	3 610	19 900	56 100	17 700	4 400	2 930	2 320	2 930
23	2 820	† 4 400	3 150	7 760	4 400	19 000	54 200	19 000	4 120	2 520	2 130	2 720
24	3 150	† 4 200	2 930	7 120	4 120	21 200	39 500	16 500	4 120	2 420	2 130	2 320
25	3 150	† 4 200	2 620	6 480	4 120	21 700	31 900	14 900	4 680	2 320	2 130	2 320
26	3 040	† 3 800	2 930	5 260	10 500	19 000	35 700	15 300	5 560	2 220	1 940	2 130
27	3 150	† 3 400	3 150	4 960	22 600	19 400	43 900	13 300	5 860	2 220	1 850	1 940
28	3 150	† 3 200	3 610	4 680	23 600	19 900	34 500	12 200	5 260	2 130	2 420	1 940
29	3 380	† 3 400	3 860	4 120		16 500	29 400	11 800	5 860	1 940	2 040	1 850
30	3 040	† 4 000	3 610	4 120		14 500	28 900	12 500	6 170	1 850	1 940	1 760
31	3 380		3 150	4 120		13 300		12 200		2 040	1 850	

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 760	5 260	4 960	9 700	6 170	20 400	10 200	7 170	8 480	4 280	2 140	2 320
2	3 990	4 960	5 560	9 070	6 170	18 100	9 840	7 820	7 490	4 710	1 990	1 900
3	16 800	5 260	4 960	9 390	6 800	16 100	9 500	8 480	7 170	5 920	1 900	1 970
4	20 400	6 480	5 260	11 400	6 480	14 500	9 500	7 660	6 380	5 160	1 940	2 180
5	14 900	7 440	5 560	12 900	7 440	12 500	9 160	7 170	5 920	4 710	1 800	2 200
6	11 100	7 440	5 860	10 000	7 120	11 800	8 480	6 850	5 460	4 140	1 640	2 010
7	8 410	6 800	5 860	9 700	6 170	11 100	14 300	6 700	5 610	3 880	1 900	2 210
8	7 120	5 860	6 480	10 000	5 860	17 200	27 400	6 380	5 610	3 760	1 800	2 110
9	5 860	5 860	7 120	11 400	5 560	36 200	28 200	6 230	5 760	3 880	1 990	1 990
10	5 260	5 560	7 120	13 600	5 560	39 300	22 100	5 920	7 920	5 610	1 850	1 970
11	4 680	4 960	7 440	13 300	4 960	29 300	18 400	5 610	23 600	5 310	1 690	2 080
12	4 400	4 680	6 170	11 800	5 260	28 200	16 300	5 310	30 100	4 860	1 550	2 090
13	4 120	4 680	5 260	11 400	5 560	28 800	15 000	4 710	20 200	4 420	1 520	1 850
14	3 860	4 680	6 480	15 200	6 800	24 500	15 000	5 010	15 000	3 880	1 720	1 900
15	3 380	4 960	9 390	24 500	7 120	21 100	15 000	6 850	12 000	3 630	1 820	2 060
16	3 380	5 860	14 500	23 600	6 170	18 400	14 600	8 480	10 200	3 880	2 130	2 080
17	3 150	7 760	12 900	19 900	5 560	16 300	15 400	8 150	8 820	4 420	2 010	2 440
18	3 150	12 500	12 500	16 100	5 560	15 800	16 300	7 660	8 150	4 010	1 740	3 880
19	3 040	28 000	19 800	12 200	6 480	17 500	15 800	7 170	7 660	3 510	1 770	4 010
20	2 930	29 900	29 900	9 390	7 120	21 100	15 000	7 170	7 010	3 280	1 990	3 280
21	2 820	22 600	29 900	9 070	9 700	19 700	13 500	7 170	6 540	2 940	2 140	2 630
22	2 720	17 300	22 000	10 400	13 300	16 700	12 400	7 010	6 080	2 840	2 090	2 250
23	6 240	14 500	16 500	9 700	21 000	14 200	11 600	6 700	5 610	3 160	2 300	2 140
24	10 800	12 200	13 300	9 070	21 700	12 400	11 200	6 230	5 010	3 630	2 940	2 060
25	11 800	10 400	11 400	7 760	20 600	12 400	10 500	8 480	5 010	3 510	3 760	1 900
26	9 070	10 400	10 400	7 440	24 100	13 500	9 840	9 500	4 710	3 390	3 280	1 740
27	7 120	9 070	10 800	6 800	34 000	14 200	9 500	10 200	5 160	2 840	3 630	1 920
28	6 480	8 740	10 800	6 800	26 900	13 900	8 820	9 160	5 460	2 440	3 160	1 820
29	5 860	7 760	11 800	7 760		12 400	8 150	8 820	5 610	2 210	2 730	1 640
30	5 260	6 170	11 400	7 120		10 900	7 660	8 820	4 860	2 300	2 630	1 480
31	4 960		10 800	6 800		10 500		9 160		2 340	2 440	

† Estimated.

Delaware River at Riegelsville
(Continued)

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 660	1 680	2 090	2 440	2 200	6 080	32 600	14 600	11 200	4 420	5 520	2 870
2	1 640	1 820	2 440	2 110	2 250	6 230	31 000	12 700	10 200	3 880	4 920	2 910
3	1 690	1 760	2 940	1 920	2 060	6 230	34 100	12 000	8 820	3 510	4 500	3 480
4	1 660	1 480	3 630	2 160	2 080	6 080	31 500	10 900	7 820	3 280	4 500	3 840
5	1 710	1 680	3 510	2 140	2 040	6 080	30 000	10 500	7 170	3 390	4 640	3 480
6	1 630	1 870	3 510	5 160	2 020	6 000	28 500	9 500	6 540	3 160	4 230	3 000
7	1 420	2 160	3 510	5 310	2 020	6 000	25 500	8 820	6 080	3 760	3 970	2 870
8	1 470	2 020	3 280	4 010	1 890	7 000	25 000	9 840	9 730	5 460	3 480	2 560
9	1 470	1 820	2 940	4 140	2 230	8 500	24 000	15 000	15 000	6 150	3 250	2 270
10	1 480	1 800	2 940	4 420	2 530	8 500	22 600	21 100	13 100	15 000	3 720	2 480
11	1 550	1 520	2 940	3 880	2 340	8 500	23 000	18 800	12 400	26 400	3 840	2 310
12	1 360	1 500	2 840	3 630	2 340	8 000	28 000	18 800	11 600	39 200	4 100	2 210
13	1 440	1 680	2 730	3 390	2 840	7 500	27 500	23 500	10 200	25 900	3 970	2 020
14	1 360	1 720	2 730	3 160	5 160	6 850	21 600	22 600	8 480	17 700	3 720	2 060
15	1 410	1 690	2 630	2 630	3 570	6 540	18 400	23 500	7 490	13 400	3 720	1 980
16	1 660	1 790	1 840	2 270	3 510	6 850	15 800	21 100	7 840	11 200	3 600	1 890
17	1 480	2 280	1 800	2 440	3 630	7 330	14 200	17 500	10 900	9 180	3 250	2 150
18	1 480	3 950	1 770	2 730	12 600	7 490	12 700	17 100	12 400	8 520	3 000	2 250
19	1 410	3 280	1 990	3 390	9 160	7 820	11 600	15 800	11 600	7 870	2 980	2 500
20	1 470	3 280	2 180	3 510	7 490	9 160	10 500	13 500	9 840	7 550	3 070	2 270
21	1 400	3 050	2 340	3 280	7 170	9 160	10 200	12 700	7 820	7 550	2 730	2 580
22	1 420	2 730	2 340	2 530	7 010	8 820	9 500	15 000	7 010	7 550	2 580	2 270
23	1 600	2 530	2 250	2 440	6 850	9 500	9 500	16 300	7 170	14 700	2 560	2 110
24	1 530	2 440	2 530	2 530	6 540	10 900	14 200	16 300	7 170	19 000	2 410	2 080
25	1 550	2 200	2 110	2 530	6 230	14 600	16 300	15 400	6 380	14 100	2 150	1 850
26	1 580	2 110	2 080	2 440	6 230	23 000	13 900	15 400	6 080	10 800	2 210	1 890
27	1 660	2 200	2 530	2 440	6 230	27 500	15 000	18 800	5 610	8 850	2 190	1 840
28	1 560	2 140	4 010	3 050	6 080	30 500	16 300	17 100	5 310	7 870	3 450	1 930
29	1 380	1 970	3 510	3 160		39 500	14 200	13 900	5 160	6 910	3 480	1 760
30	1 630	1 690	3 160	2 730		55 000	13 500	12 000	4 560	6 290	3 000	1 800
31	1 690		2 530	2 530		44 500		10 500		6 140	3 600	

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 990	2 300	2 320	4 280	19 300	7 660	41 100	8 820	5 920	5 460	2 530	2 140
2	1 840	2 180	2 730	4 710	14 600	7 170	62 800	12 700	5 920	5 310	2 250	2 020
3	1 760	2 200	3 050	5 010	13 100	6 850	49 400	12 700	5 760	5 760	2 060	2 530
4	1 760	2 270	3 390	5 460	12 700	7 170	46 300	12 000	5 920	7 170	2 630	2 530
5	1 840	2 040	3 630	5 310	13 100	7 490	40 300	10 200	5 310	7 170	2 630	2 630
6	1 850	1 960	3 390	5 460	11 600	7 490	31 500	9 160	4 710	7 010	2 730	2 130
7	1 870	2 060	2 940	10 600	10 200	7 820	28 000	9 160	4 710	7 010	2 530	1 790
8	2 290	1 900	3 050	21 600	9 840	7 010	24 000	9 500	4 710	6 080	2 940	1 800
9	2 320	1 840	2 940	22 900	9 500	6 380	23 500	16 600	4 280	5 760	2 340	1 820
10	2 020	1 770	2 530	16 700	9 840	5 460	26 500	20 700	4 140	5 160	2 530	1 630
11	1 890	1 820	3 390	13 500	11 400	5 610	31 000	18 000	3 760	4 560	3 280	1 470
12	1 740	1 970	3 510	11 200	22 300	6 540	32 600	15 400	3 510	4 010	3 160	1 580
13	1 660	1 850	4 560	10 200	26 000	6 230	31 500	14 200	4 140	4 140	2 730	1 320
14	1 500	1 790	5 760	9 840	24 500	6 080	28 500	12 700	5 160	3 760	2 290	1 240
15	1 560	1 890	8 480	10 900	18 800	4 860	23 500	11 200	6 380	3 510	2 140	1 500
16	1 960	1 850	11 200	10 200	15 400	4 860	19 300	10 200	6 380	3 050	1 900	1 460
17	2 160	1 680	9 840	11 200	13 100	5 610	16 700	9 500	7 790	3 390	1 820	1 170
18	1 900	2 080	8 150	11 600	12 400	6 230	14 600	8 480	12 500	3 280	2 290	1 350
19	1 990	2 730	6 850	13 100	11 200	6 230	13 500	8 150	19 000	2 630	2 940	1 460
20	1 990	2 730	6 080	14 200	9 840	6 230	12 400	7 330	13 300	2 940	2 940	1 230
21	1 770	2 730	5 610	12 000	8 480	6 540	11 200	6 700	10 500	3 050	2 530	1 200
22	1 890	2 340	5 160	11 600	7 820	6 850	10 900	6 380	9 160	3 160	2 440	1 400
23	1 690	2 160	5 310	13 900	7 330	7 660	10 200	5 920	11 400	3 160	2 250	1 470
24	1 770	1 990	5 160	19 300	7 660	8 480	9 840	5 310	12 700	3 760	1 970	1 300
25	1 690	2 210	5 920	22 600	6 230	9 160	9 500	5 310	9 500	3 280	2 320	1 350
26	1 530	2 340	5 760	18 400	6 080	9 160	9 500	5 310	7 820	2 730	1 850	1 350
27	1 420	2 250	5 610	15 400	6 230	9 960	9 500	5 310	7 010	2 730	1 660	1 400
28	1 410	2 080	5 310	14 200	7 010	20 700	9 160	7 010	7 490	2 530	1 740	1 400
29	1 820	2 290	4 420	14 200	7 660	30 700	8 820	9 500	7 330	2 530	1 640	2 020
30	2 140	2 630	4 140	13 100		24 500	8 150	8 150	6 700	2 840	1 710	1 920
31	2 340		4 420	16 200		23 100		6 700		2 530	1 770	

Delaware River at Riegelsville
(Continued)

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 560	9 120	10 500	12 000	8 480	10 900	17 100	12 000	7 660	3 630	2 140	11 200
2	1 640	32 900	10 500	10 900	8 480	10 500	22 600	11 200	7 170	3 390	2 530	9 840
3	1 470	36 000	10 200	9 840	8 480	10 200	32 000	11 600	6 700	5 760	2 530	9 160
4	1 320	25 500	9 500	9 500	8 480	10 200	36 300	12 400	6 380	6 380	2 440	29 400
5	1 500	19 700	8 820	9 840	7 820	9 500	35 700	12 400	5 920	5 310	2 440	46 900
6	6 410	16 300	8 820	10 200	6 230	8 820	30 000	12 400	6 080	4 860	2 160	36 300
7	42 000	16 300	8 480	9 500	5 920	8 480	28 500	13 100	9 430	4 140	2 250	25 000
8	54 300	16 300	8 150	8 820	9 840	12 000	30 000	12 400	9 840	3 510	2 530	18 400
9	25 100	14 600	7 660	8 150	11 200	17 100	31 000	12 700	8 150	3 160	2 840	15 400
10	14 700	24 900	7 170	8 150	8 820	20 200	26 000	13 100	7 660	2 940	2 840	13 900
11	10 500	39 200	6 850	7 820	8 480	15 000	22 600	13 500	6 540	2 530	3 630	12 000
12	8 480	41 000	6 540	8 480	7 660	12 400	25 000	13 500	5 610	2 840	3 510	10 500
13	6 850	30 500	6 380	9 500	7 490	11 200	31 500	12 700	5 010	3 160	2 940	9 500
14	6 080	24 000	6 850	8 150	7 660	14 600	31 500	12 000	5 160	2 940	3 880	9 500
15	5 460	19 700	6 230	8 480	9 500	19 700	33 600	11 200	4 560	2 530	3 760	22 200
16	5 010	17 100	5 010	7 170	8 820	26 000	33 100	10 500	4 140	2 630	2 840	42 100
17	4 860	16 300	4 560	7 170	8 820	25 000	36 800	11 200	4 010	4 010	2 840	64 500
18	6 200	18 000	4 280	7 820	9 160	21 100	55 700	10 200	4 140	2 940	3 390	51 200
19	9 500	23 400	4 860	8 150	9 160	20 700	58 300	9 500	3 880	2 730	3 390	36 500
20	10 200	48 200	4 560	8 820	11 600	23 000	43 300	9 160	3 390	2 630	3 510	28 000
21	9 500	51 900	5 010	10 200	16 300	32 100	34 700	9 500	3 510	2 340	3 050	22 600
22	8 150	38 400	5 760	10 500	15 800	43 900	29 000	8 820	3 390	2 340	4 940	19 300
23	7 010	29 500	6 230	11 600	14 600	45 700	24 000	8 150	3 390	2 530	15 100	17 100
24	6 380	24 500	5 760	16 300	14 200	35 200	20 700	8 480	3 280	2 340	78 100	15 800
25	5 920	19 700	7 330	14 600	14 600	28 500	18 400	9 840	2 940	1 990	133 000	14 200
26	5 920	18 400	9 160	13 100	14 200	25 000	16 700	8 820	3 390	2 530	84 300	12 700
27	6 230	15 800	10 200	12 400	12 000	23 000	15 800	7 820	2 940	3 160	42 700	11 600
28	7 170	12 700	11 200	11 600	10 900	21 600	14 600	7 170	2 940	2 730	28 000	10 500
29	7 010	11 200	11 600	10 500		20 200	14 200	6 540	3 050	2 530	20 700	9 840
30	6 850	11 200	11 200	9 500		18 000	13 100	8 150	3 050	2 530	15 800	9 160
31	6 080		11 200	8 820		16 300		8 150		2 300	13 100	

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8 150	8 150	6 540	7 490	6 850	‡ 3 760	27 500	10 500	6 540	4 010	7 330	3 510
2	8 150	7 660	6 230	8 480	7 490	4 140	33 600	9 840	6 230	4 010	5 760	3 160
3	7 490	7 330	6 230	20 200	7 010	5 900	30 500	9 840	5 760	3 390	4 860	2 730
4	7 170	7 170	6 230	14 600	7 010	13 100	27 500	13 500	5 160	3 630	4 560	2 630
5	7 010	6 380	6 540	12 700	7 010	22 000	27 500	15 800	5 460	4 010	4 010	2 630
6	6 850	6 230	8 150	13 900	6 540	57 200	26 000	14 600	6 080	3 280	3 630	3 160
7	6 850	6 380	8 480	17 100	6 850	34 100	26 000	13 100	5 160	3 280	3 160	3 160
8	6 540	7 010	7 820	29 500	6 540	21 600	27 500	12 400	4 710	3 880	2 840	5 880
9	6 380	7 170	7 660	32 600	5 760	15 800	23 000	10 900	4 280	3 880	3 280	9 500
10	5 610	7 330	7 170	28 000	5 160	12 400	20 700	10 200	3 880	3 510	2 730	13 100
11	6 230	7 170	5 920	22 100	5 610	9 840	19 300	13 500	5 610	3 390	2 730	9 840
12	5 920	6 380	3 880	19 300	5 610	8 150	25 500	15 000	5 010	3 160	3 390	7 490
13	5 920	6 230	4 280	16 700	5 460	8 150	37 300	13 100	4 560	2 940	3 880	5 920
14	5 310	6 230	5 010	15 800	5 010	9 160	33 100	11 600	4 420	2 840	3 160	5 160
15	5 310	7 490	5 010	13 900	5 610	9 160	27 000	11 200	4 010	3 390	2 940	6 700
16	4 710	8 150	5 610	13 100	5 610	8 820	24 500	13 100	3 630	3 880	2 840	11 600
17	5 160	7 170	7 330	11 600	5 160	8 480	26 000	11 200	3 390	3 630	3 050	23 500
18	9 160	6 700	8 150	9 500	4 710	8 820	27 500	10 200	2 940	3 050	3 390	34 700
19	8 820	6 850	10 900	9 160	4 420	9 500	24 000	9 160	5 920	2 630	2 730	25 000
20	8 150	6 700	11 200	8 150	3 760	9 840	23 500	8 480	13 900	2 530	2 730	17 100
21	7 330	6 230	10 900	7 820	4 010	9 500	23 500	7 820	13 100	2 840	2 440	13 100
22	6 080	6 540	10 900	7 820	4 710	8 820	21 100	7 490	10 500	3 160	2 630	10 900
23	6 380	6 700	10 200	9 500	5 010	8 150	18 400	9 500	8 820	2 340	2 630	9 500
24	6 540	8 480	9 500	11 600	4 010	7 490	16 700	10 200	6 850	2 060	2 440	8 480
25	9 500	8 820	8 820	10 900	‡ 3 630	6 540	18 800	8 820	5 610	2 630	2 530	9 160
26	15 400	8 150	10 200	11 200	‡ 3 390	6 230	18 800	11 600	4 860	3 050	3 760	8 480
27	15 000	7 330	11 200	9 840	‡ 3 390	6 700	16 300	10 900	5 160	2 730	4 560	7 330
28	11 600	7 330	7 820	9 160	‡ 3 390	12 000	14 600	9 160	4 710	2 530	3 880	6 850
29	10 200	7 660	6 380	8 820		23 000	12 700	8 150	4 560	14 800	4 140	7 330
30	9 160	7 010	‡ 5 610	6 700		18 000	11 600	7 820	4 140	16 400	3 880	17 500
31	8 480		5 760	6 850		15 800		7 330		9 840	3 050	

‡ Estimated, stage-discharge relation affected by ice.

Delaware River at Riegelsville
(Continued)

Monthly and annual discharge, in second-feet, 1925-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1925	17 800	2 620	4 680	4 910	0.793	0.91
November	42 200	5 860	15 400	15 700	2.54	2.83
December	38 900	3 610	13 300	13 300	2.15	2.48
Calendar year, 1925	99 800	1 770	9 879	10 040	1.62	22.02
January, 1926	20 400	3 860	7 800	7 800	1.26	1.45
February	36 300	5 860	11 800	11 800	1.91	1.99
March	33 000	8 080	16 900	17 000	2.75	3.17
April	46 300	10 400	19 600	19 800	3.20	3.57
May	12 500	3 150	6 370	6 600	1.07	1.23
June	8 410	3 150	4 810	5 040	.814	.91
July	3 240	1 590	2 190	2 420	.391	.45
August	11 800	2 040	5 580	5 810	.939	1.08
September	13 700	3 150	5 510	5 740	.927	1.03
Year ending Sept. 30, 1926	46 300	1 590	9 450	9 610	1.55	21.10
October	24 000	3 380	9 470	9 700	1.57	1.81
November	91 700	8 080	23 400	23 600	3.81	4.25
December	15 300	5 260	8 530	8 530	1.38	1.59
Calendar year, 1926	91 700	1 590	10 110	10 270	1.66	22.53
January, 1927	32 200	4 120	9 690	9 690	1.57	1.81
February	25 900	8 500	13 800	13 800	2.23	2.32
March	64 500	11 100	27 200	27 200	4.39	5.06
April	16 100	7 120	10 700	11 000	1.78	1.99
May	42 700	7 120	15 300	15 500	2.50	2.88
June	14 100	4 680	8 470	8 700	1.41	1.57
July	9 700	2 930	4 690	4 920	.795	.92
August	24 000	4 400	8 000	8 230	1.33	1.53
September	37 800	3 150	9 360	9 590	1.55	1.73
Year ending Sept. 30, 1927	91 700	2 930	12 400	12 500	2.02	27.46
October	102 000	2 720	21 700	21 900	3.54	4.08
November	71 000	9 390	26 300	26 500	4.28	4.78
December	78 200	10 000	27 700	27 700	4.47	5.15
Calendar year, 1927	102 000	2 720	15 260	15 410	2.49	33.82
January, 1928	21 200	5 860	10 900	10 900	1.76	2.03
February	37 000	7 440	16 100	16 100	2.60	2.80
March	28 900	6 800	13 400	13 500	2.18	2.51
April	43 900	14 100	23 700	24 000	3.88	4.33
May	43 300	8 740	18 700	18 900	3.05	3.52
June	62 500	8 080	20 500	20 800	3.36	3.75
July	78 000	11 100	23 800	24 100	3.89	4.48
August	31 900	7 760	13 200	13 400	2.16	2.49
September	20 400	4 960	8 980	9 210	1.49	1.66
Year ending Sept. 30, 1928	102 000	2 720	18 800	18 900	3.05	41.58
October	4 960	2 820	3 700	3 930	.635	.73
November	4 400	2 620	3 290	3 470	.561	.63
December	8 080	2 620	4 340	4 340	.701	.81
Calendar year, 1928	78 000	2 620	13 360	13 520	2.18	29.74
January, 1929	13 300	3 610	6 740	6 740	1.09	1.26
February	23 600	3 610	7 540	7 540	1.22	1.27
March	80 200	12 900	26 000	26 000	4.20	4.84
April	56 100	10 800	28 300	28 500	4.60	5.13
May	29 400	11 800	17 000	17 200	2.78	3.20
June	11 100	3 610	5 620	5 850	.945	1.05
July	6 170	1 850	3 210	3 440	.556	.64
August	8 020	1 850	2 540	2 770	.447	.52
September	5 260	1 360	2 650	2 880	.465	.52
Year ending Sept. 30, 1929	80 200	1 360	9 250	9 400	1.52	20.61

Delaware River at Riegelsville
(Continued)

Monthly and annual discharge, in second-feet, 1925-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1929	20 400	1 760	6 610	7 020	1.13	1.30
November	29 900	4 680	9 600	9 870	1.59	1.77
December	29 900	4 960	11 000	11 000	1.78	2.05
Calendar year, 1929	80 200	1 360	10 580	10 730	1.73	23.55
January, 1930	24 500	6 800	11 400	11 300	1.83	2.11
February	34 000	4 960	10 500	10 600	1.71	1.78
March	39 300	10 500	18 400	18 900	3.05	3.52
April	28 200	7 660	13 600	14 000	2.26	2.52
May	10 200	4 710	7 350	7 540	1.22	1.41
June	30 100	4 710	8 750	9 250	1.49	1.66
July	5 920	2 210	3 830	3 670	.593	.68
August	3 760	1 520	2 190	1 780	.288	.33
September	4 010	1 480	2 200	2 060	.333	.37
Year ending Sept.30, 1930	39 300	1 480	8 780	8 900	1.44	19.50
October	1 710	1 360	1 530	1 410	.228	.26
November	3 950	1 480	2 130	2 070	.334	.37
December	4 010	1 770	2 700	2 540	.410	.47
Calendar year, 1930	39 300	1 360	7 025	7 071	1.14	15.48
January, 1931	5 310	1 920	3 050	3 000	.485	.56
February	12 600	1 890	4 510	4 620	.746	.78
March	55 000	6 000	13 400	14 300	2.31	2.66
April	34 100	9 500	20 000	21 000	3.39	3.78
May	23 500	8 820	15 500	16 100	2.60	3.00
June	15 000	4 560	8 690	8 800	1.42	1.58
July	39 200	3 160	10 600	10 700	1.73	1.99
August	5 520	2 150	3 490	3 420	.553	.64
September	3 840	1 760	2 380	2 360	.381	.43
Year ending Sept.30, 1931	55 000	1 360	7 350	7 540	1.22	16.52
October	2 340	1 410	1 850	1 640	.259	.30
November	2 730	1 680	2 130	1 770	.279	.31
December	11 200	2 320	4 990	4 740	.748	.86
Calendar year, 1931	55 000	1 410	7 570	7 726	1.24	16.89
January, 1932	22 900	4 280	12 500	12 800	2.02	2.33
February	26 000	6 080	12 200	12 600	1.99	2.15
March	30 700	4 860	9 220	9 440	1.49	1.72
April	62 800	8 150	23 100	24 000	3.79	4.23
May	20 700	5 310	9 950	10 200	1.61	1.86
June	19 000	3 510	7 430	7 560	1.19	1.33
July	7 170	2 530	4 180	3 900	.615	.71
August	3 280	1 640	2 340	2 050	.323	.37
September	2 630	1 170	1 650	1 300	.205	.23
Year ending Sept.30, 1932	62 800	1 170	7 600	7 630	1.20	16.40
October	54 300	1 320	9 660	9 920	1.56	1.80
November	51 900	9 120	24 100	24 900	3.93	4.38
December	11 600	4 280	7 760	7 410	1.17	1.35
Calendar year, 1932	62 800	1 170	10 290	10 450	1.65	22.46
January, 1933	16 300	7 170	9 920	9 660	1.52	1.75
February	16 300	5 920	10 200	10 200	1.61	1.68
March	45 700	8 480	19 900	20 500	3.23	3.72
April	58 300	13 100	28 700	29 500	4 65	5.19
May	13 500	6 540	10 600	10 500	1.66	1.91
June	9 840	2 940	5 110	4 730	.746	.83
July	6 380	1 990	3 200	2 870	.453	.52
August	133 000	2 140	16 000	16 900	2.67	3.08
September	64 500	9 160	21 500	21 700	3.42	3.82
Year ending Sept. 30, 1933	133 000	1 320	13 800	14 000	2.21	30.03

Delaware River at Riegelsville
(Continued)

Monthly and annual discharge, in second-feet, 1925-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1933	15 400	4 710	7 760	7 268	1.15	1.33
November	8 820	6 230	7 138	6 466	1.02	1.14
December	11 200	3 880	7 601	7 145	1.13	1.30
Calendar year, 1933	133 000	1 990	12 280	12 260	1.93	26.27
January, 1934	32 600	6 700	13 680	13 830	2.18	2.51
February	7 490	3 390	5 311	4 599	.725	.76
March	57 200	3 760	12 970	13 020	2.05	2.36
April	37 300	11 600	23 670	24 640	3.89	4.34
May	15 800	7 330	10 840	11 060	1.74	2.01
June	13 900	2 940	5 832	5 663	.893	1.00
July	16 400	2 060	4 216	4 245	.670	.77
August	7 330	2 440	3 514	3 148	.497	.57
September	34 700	2 630	9 837	10 080	1.59	1.77
Year ending Sept.30, 1934	57 200	2 060	9 373	9 275	1.46	19.86

Note.- Data prior to October 1929 corrected for diversions, but not for effect of storage.

Delaware River at Trenton

LOCATION.- Water-stage recorder 200 feet above Calhoun Street Bridge, Trenton, Mercer County, half a mile above the mouth of Assupink Creek. Zero of gage is 7.46 feet above mean sea level. Chain gage on bridge used prior to Oct. 2, 1928.

DRAINAGE AREA.- 6 800 square miles.

RECORDS AVAILABLE.- February 1913 to September 1934.

AVERAGE DISCHARGE.- 21 years, 11 250 second-feet, corrected for storage and diversions.

EXTREMES.- 1913-34: Maximum discharge, about 160 000 second-feet Mar. 28, 29, 1913 (gage height, 13.3 feet); maximum stage, 14.2 feet Mar. 5, 1934, due to ice jam; minimum discharge 1 220 second-feet Sept. 18, 19, 1932. Flow in canals not included.

REMARKS.- Part of monthly and annual discharge table corrected for diversions in Delaware Division Canal, Trenton Power Race, and Delaware & Raritan Canal, and for effect of storage on Wallenpaupack Creek, Swinging Bridge and Toronto reservoirs on Mongaup River, and in Lake Hopatcong.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5 280	3 710	4 570	3 710	‡ 4 900	23 800	13 600	26 500	12 200	6 380	2 350	2 230
2	5 280	3 540	6 010	5 640	‡ 4 900	22 900	13 600	22 100	10 200	6 760	2 350	2 230
3	5 280	3 380	7 160	5 280	‡ 5 500	18 900	12 900	22 100	9 040	6 010	2 480	2 000
4	5 280	3 540	8 030	4 570	‡ 5 500	16 500	12 200	28 000	8 030	5 640	2 230	1 890
5	4 920	3 710	7 160	4 570	‡ 5 500	20 500	11 500	31 400	7 580	5 280	2 110	1 780
6	5 280	3 880	6 380	7 720	‡ 4 900	36 600	14 300	25 600	7 160	4 570	2 230	1 890
7	5 280	3 880	6 010	16 500	‡14 000	34 400	22 900	25 600	6 760	4 220	2 110	2 110
8	4 920	3 540	5 280	11 500	18 100	27 400	25 600	24 700	6 760	4 050	2 000	5 960
9	4 570	3 210	4 920	9 040	11 500	21 300	21 300	22 100	6 760	4 050	2 230	7 160
10	4 570	3 380	4 570	10 800	11 500	16 500	18 100	18 900	6 010	4 050	2 110	4 920
11	4 920	3 380	4 050	12 200	10 200	13 600	18 100	16 500	5 640	3 710	2 110	3 710
12	4 570	3 380	4 050	10 200	8 520	13 600	24 700	15 000	5 640	3 380	2 350	3 210
13	4 220	3 380	4 220	8 520	8 030	13 600	35 200	14 300	5 280	3 210	2 610	3 210
14	4 220	3 210	4 220	7 580	7 580	20 200	46 900	13 600	4 920	3 060	2 480	3 210
15	4 220	3 210	4 570	‡ 7 500	6 380	52 800	36 500	15 000	4 920	3 060	6 800	3 880
16	4 050	3 210	4 570	‡ 8 000	6 010	81 800	35 400	15 700	4 920	2 760	7 900	4 920
17	3 880	3 380	4 570	‡ 7 500	6 010	74 800	38 700	15 000	4 920	2 480	5 280	4 570
18	4 220	3 210	4 570	‡ 7 500	5 640	55 800	38 700	13 600	4 220	2 610	4 570	6 380
19	4 570	3 060	4 920	‡ 7 500	5 640	36 500	33 400	14 300	4 220	2 900	4 220	6 010
20	4 050	3 210	5 280	9 790	5 640	27 400	27 400	15 000	4 220	4 570	3 710	4 570
21	3 880	4 050	5 280	15 000	5 280	23 800	27 400	16 500	4 920	4 570	2 900	4 220
22	3 710	4 570	5 280	11 500	4 570	21 300	50 700	18 900	4 920	4 050	2 760	3 880
23	3 710	4 220	4 220	8 520	4 570	20 500	59 700	20 500	4 570	3 380	2 760	3 540
24	3 380	4 220	3 540	7 580	4 920	21 300	43 300	18 900	4 570	2 900	2 480	3 210
25	3 540	4 220	3 380	7 160	4 570	22 900	33 400	16 500	4 920	2 900	2 480	2 760
26	3 540	4 050	2 900	6 380	11 200	21 300	36 500	15 700	6 380	2 760	2 350	2 760
27	3 380	3 540	3 210	5 640	30 400	19 700	43 300	15 000	6 010	2 760	2 350	2 760
28	3 710	3 380	3 880	5 640	27 400	21 300	37 600	13 600	6 010	2 610	2 760	2 480
29	3 540	3 540	4 220	‡ 5 500		18 900	31 400	12 200	6 380	2 610	2 900	2 480
30	3 710	3 710	4 570	‡ 5 500		16 500	30 400	13 600	6 380	2 350	2 480	2 480
31	3 380		3 880	‡ 4 900		15 000		12 900		2 230	2 230	

‡- Estimated, stage-discharge relation affected by ice.

Delaware River at Trenton
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2 480	6 010	6 760	11 500	‡ 8 000	23 900	10 600	7 560	8 850	4 890	2 580	2 640
2	5 700	6 010	‡ 6 000	10 200	‡ 7 500	20 300	10 000	7 560	7 800	4 530	2 360	2 640
3	19 700	7 600	‡ 6 000	10 200	‡ 8 500	18 200	10 000	8 580	7 100	5 640	2 170	2 140
4	21 300	9 600	‡ 6 500	11 500	‡ 9 000	16 500	9 700	8 310	6 660	5 840	2 070	2 120
5	18 900	8 520	‡ 6 500	13 600	‡ 9 500	14 200	9 410	7 560	6 240	5 080	2 040	2 360
6	13 600	8 520	‡ 7 000	12 200	‡ 9 000	12 800	9 130	7 100	5 640	4 530	1 920	2 330
7	10 200	8 030	‡ 7 000	10 200	‡ 8 000	12 500	13 800	6 870	5 450	4 180	1 730	2 140
8	8 030	7 160	‡ 7 000	10 200	‡ 7 500	23 800	26 500	6 660	5 640	3 940	1 970	2 440
9	7 160	6 760	‡ 7 500	11 500	‡ 7 000	35 500	30 000	6 440	5 640	4 040	1 900	2 200
10	6 380	6 380	‡ 7 500	13 600	‡ 7 000	43 000	23 900	6 240	7 230	6 650	2 040	2 090
11	5 640	6 010	8 030	14 300	‡ 6 500	31 500	20 300	6 030	18 900	6 240	1 940	2 020
12	5 280	5 640	7 580	12 900	‡ 6 000	28 500	17 800	5 640	31 500	5 080	1 730	2 140
13	4 920	5 640	6 380	12 200	7 160	29 500	16 100	5 080	23 000	5 080	1 650	2 140
14	4 570	5 640	6 760	14 600	9 040	26 600	15 700	5 080	16 900	4 360	1 650	2 090
15	4 220	6 010	8 520	25 600	8 520	22 100	16 100	5 840	13 100	4 010	1 920	2 140
16	4 050	6 010	14 300	25 600	7 580	19 900	15 700	8 310	10 900	3 940	2 020	2 250
17	4 050	7 580	15 000	22 100	7 160	17 400	16 500	8 580	9 410	4 360	2 300	2 330
18	3 880	12 300	15 500	18 900	‡ 7 000	16 500	17 400	8 060	8 310	4 530	2 170	2 800
19	3 710	26 500	21 300	15 000	6 760	17 400	17 800	7 560	8 060	3 980	1 900	4 710
20	3 710	33 400	30 400	11 500	7 580	20 300	16 100	7 100	7 100	3 680	1 870	4 010
21	3 540	25 600	31 400	9 600	9 600	21 200	14 500	7 320	6 660	3 350	2 250	3 380
22	3 710	20 500	24 700	10 800	12 900	17 800	13 400	7 100	6 240	3 100	2 250	2 820
23	5 890	16 500	18 900	12 200	21 200	15 300	12 200	6 870	5 840	3 290	2 580	2 410
24	10 200	14 300	15 700	‡11 000	22 900	13 100	11 600	6 660	5 260	3 480	2 790	2 250
25	12 900	12 200	12 900	‡ 9 500	28 800	12 500	11 200	7 100	5 080	4 580	3 480	2 200
26	10 800	10 800	12 200	‡ 8 500	25 700	13 400	10 600	9 700	4 710	3 680	3 980	2 070
27	8 520	10 800	11 500	‡ 8 000	36 600	14 500	10 000	10 000	4 890	3 540	3 740	1 850
28	7 160	9 600	11 500	‡ 9 000	31 500	14 500	9 700	10 000	5 080	3 040	3 770	1 990
29	6 760	9 040	12 200	‡10 000		13 400	8 580	8 850	5 450	2 730	3 290	1 970
30	6 380	8 030	13 600	‡ 9 500		12 200	8 310	9 130	5 260	2 790	2 940	1 800
31	6 010		12 200	‡ 8 500		10 900		9 130		2 700	2 730	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 670	1 800	2 040	3 070	2 940	5 840	35 500	14 500	11 600	4 890	6 240	3 770
2	1 820	1 800	2 360	2 970	2 580	6 240	32 500	13 800	10 900	4 360	5 840	3 220
3	1 870	1 970	2 850	2 580	2 670	6 240	33 500	12 500	9 410	3 940	5 080	3 740
4	1 940	1 870	3 640	2 330	2 410	6 030	33 500	11 600	8 310	3 710	4 890	4 530
5	1 970	1 690	4 110	2 580	2 500	6 030	30 500	10 900	7 320	3 580	5 080	4 360
6	2 040	1 730	3 980	5 410	2 360	5 840	29 500	10 000	6 870	3 710	4 890	3 810
7	1 920	1 970	3 980	7 320	2 360	5 640	26 600	9 130	6 240	3 710	4 710	3 350
8	1 690	2 300	3 740	5 260	2 330	6 930	25 700	9 410	9 730	5 080	4 180	3 220
9	1 690	2 170	3 450	5 080	2 520	9 930	25 700	13 400	14 400	6 240	3 940	2 820
10	1 780	1 990	3 190	5 080	3 640	10 300	23 000	20 300	14 500	14 500	4 200	2 610
11	1 690	1 940	3 190	4 890	3 410	8 850	23 000	20 800	13 800	28 500	5 260	2 790
12	1 800	1 690	3 100	4 530	3 040	8 310	25 700	19 100	12 800	38 700	4 890	2 640
13	1 710	1 600	2 970	4 180	3 130	7 800	29 500	23 000	11 200	32 500	4 890	2 500
14	1 690	1 870	2 940	†3 840	6 080	7 100	23 900	23 900	9 410	21 200	4 530	2 250
15	1 870	2 120	3 040	‡3 200	5 560	6 660	19 500	23 900	8 060	16 900	4 360	2 360
16	1 800	1 940	3 220	‡3 000	4 080	6 440	16 900	22 100	9 770	13 100	4 180	2 220
17	1 970	2 140	2 200	‡3 000	4 180	6 870	14 900	19 100	13 400	10 900	4 080	2 200
18	1 800	3 910	2 410	‡3 200	12 300	6 870	13 400	17 400	13 100	9 410	3 680	2 440
19	1 710	4 110	1 990	‡3 600	11 900	7 320	12 200	17 400	12 500	8 580	3 350	2 520
20	1 690	3 870	2 200	‡4 200	8 850	8 310	11 200	14 200	10 900	8 310	3 510	2 730
21	1 690	3 710	2 360	‡4 200	7 800	8 310	10 300	13 800	8 850	8 310	3 450	2 580
22	1 650	3 450	2 520	‡3 600	7 560	†11 000	9 700	14 900	7 560	8 060	3 190	2 880
23	1 600	3 100	2 550	‡3 200	7 100	8 850	9 410	17 800	6 870	10 400	3 100	2 470
24	1 710	2 910	2 470	‡3 000	6 870	10 000	11 700	16 900	7 560	22 100	3 100	2 300
25	1 690	2 730	2 940	‡3 000	6 440	12 500	16 900	16 100	6 870	16 500	2 880	2 220
26	1 650	2 410	2 410	‡2 800	6 030	18 700	14 900	15 700	6 240	13 100	2 550	2 120
27	1 690	2 360	3 580	2 880	6 030	25 700	14 900	18 200	6 030	10 300	2 730	2 140
28	1 760	2 470	5 260	3 000	6 030	30 500	16 100	18 700	5 640	8 850	2 670	2 090
29	1 710	2 440	4 890	3 680		38 700	15 700	14 900	5 260	8 060	4 420	2 120
30	1 540	2 170	4 180	3 480		50 800	14 200	12 500	4 890	6 870	3 740	1 970
31	1 760		3 770	3 040		47 400		10 900		6 660	3 680	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Delaware River at Trenton
(Continued)

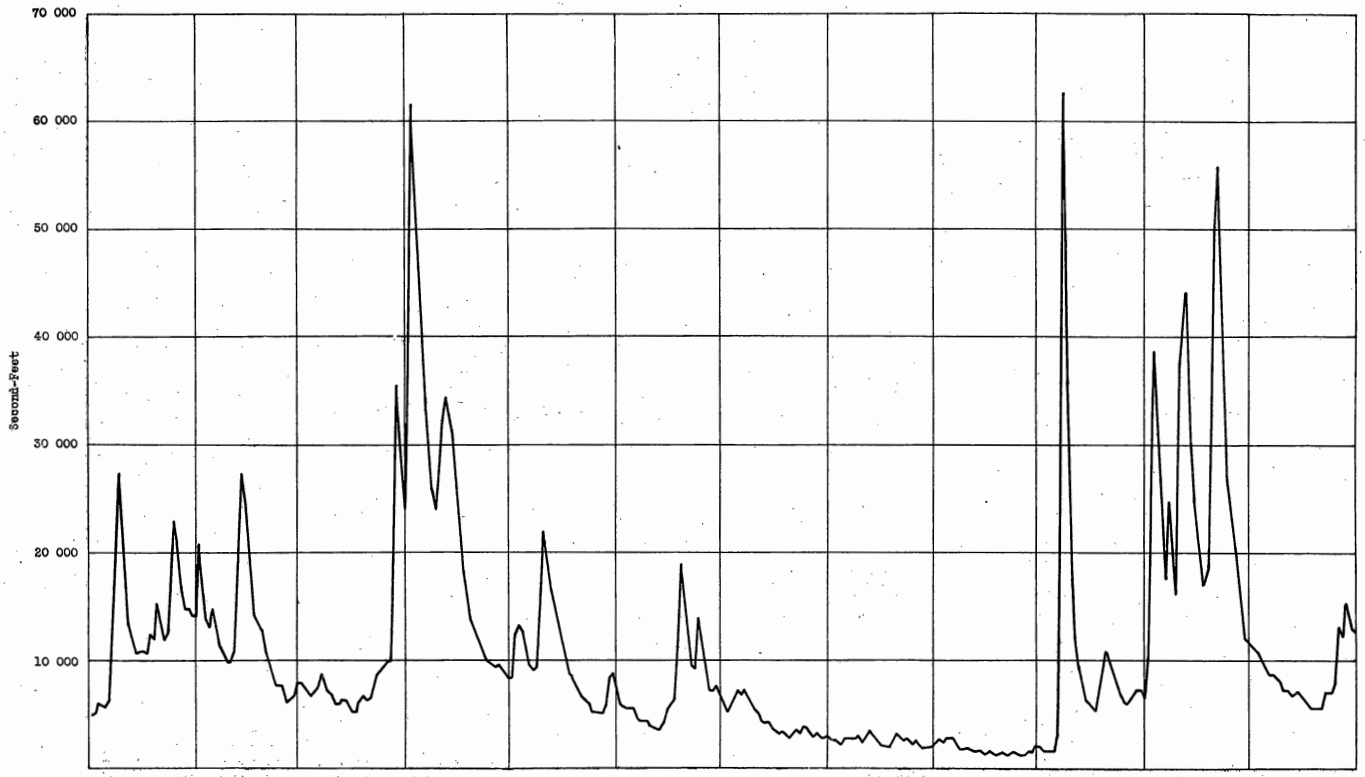
Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 970	2 360	2 910	4 890	20 800	8 060	37 500	8 310	6 030	6 030	2 700	2 520
2	1 970	2 360	2 470	5 080	16 100	7 560	61 500	12 500	5 840	5 260	2 700	2 640
3	1 850	2 250	2 940	6 030	13 800	7 100	53 100	13 400	5 640	5 450	2 360	2 360
4	1 760	2 250	3 380	5 840	13 100	6 660	46 300	12 800	5 640	6 440	2 170	2 850
5	1 760	2 360	3 840	5 640	14 900	7 100	43 000	11 200	5 640	7 320	2 730	2 880
6	1 850	2 070	4 080	6 240	13 100	7 800	33 500	9 700	4 710	6 870	2 790	2 940
7	1 850	1 970	3 250	13 600	11 200	8 850	29 500	9 130	4 360	7 320	2 820	2 250
8	1 920	2 170	3 100	18 500	10 600	7 800	25 700	9 410	4 530	6 660	2 760	1 820
9	2 640	1 990	3 250	27 500	10 000	7 100	23 900	13 000	4 360	6 030	3 040	1 820
10	2 410	1 870	3 220	20 800	10 000	6 660	26 600	22 100	3 910	5 450	2 440	1 850
11	2 120	1 760	2 880	16 100	10 600	6 030	32 500	19 500	3 810	5 080	2 910	1 690
12	1 970	1 870	3 610	13 100	19 600	6 030	34 500	16 500	3 540	4 360	3 350	1 540
13	1 820	1 990	4 110	11 600	25 700	6 440	32 500	15 700	3 680	4 180	3 320	1 620
14	1 760	1 900	5 260	10 600	27 500	6 440	30 800	13 800	4 360	4 180	2 670	1 480
15	1 600	1 800	6 870	10 900	22 100	5 640	25 700	11 900	5 640	3 740	2 330	1 330
16	1 730	1 970	10 600	10 900	17 400	5 260	21 200	10 600	6 030	3 450	2 120	1 540
17	2 090	1 920	11 200	10 600	14 200	5 260	17 800	9 410	6 660	3 250	1 900	1 460
18	2 220	1 760	8 850	12 500	13 400	6 440	15 700	8 580	10 400	3 410	1 940	1 250
19	1 940	2 220	7 320	11 900	12 800	6 660	13 800	8 060	19 000	3 250	2 700	1 340
20	2 040	2 970	6 440	15 300	10 900	6 440	13 100	7 320	15 400	2 730	3 290	1 440
21	1 970	2 820	5 840	13 100	10 000	6 440	12 200	6 660	11 200	3 220	3 000	1 330
22	1 760	2 850	5 450	11 900	8 310	7 800	11 200	6 440	9 410	3 510	2 640	1 250
23	1 870	2 500	5 450	12 500	7 800	8 850	10 600	6 030	9 130	3 250	2 670	1 380
24	1 710	2 250	5 450	18 200	7 800	9 130	10 000	5 260	14 000	3 770	2 440	1 460
25	1 800	2 090	5 260	23 000	7 320	9 410	9 700	5 260	10 600	3 840	2 220	1 290
26	1 690	2 330	6 030	20 800	6 240	10 000	9 410	5 260	8 310	3 410	2 580	1 330
27	1 500	2 470	5 640	16 900	6 440	10 000	9 700	5 080	7 320	2 910	2 090	1 340
28	1 440	2 380	5 840	14 900	6 660	26 000	9 130	5 840	7 320	3 070	1 920	1 460
29	1 620	2 170	4 890	14 900	7 800	35 500	8 850	8 310	7 560	2 850	1 970	1 420
30	1 970	2 470	4 530	14 200		27 500	8 310	8 850	7 100	2 790	1 900	1 990
31	2 250		4 710	14 200		23 900		7 100		3 040	2 090	

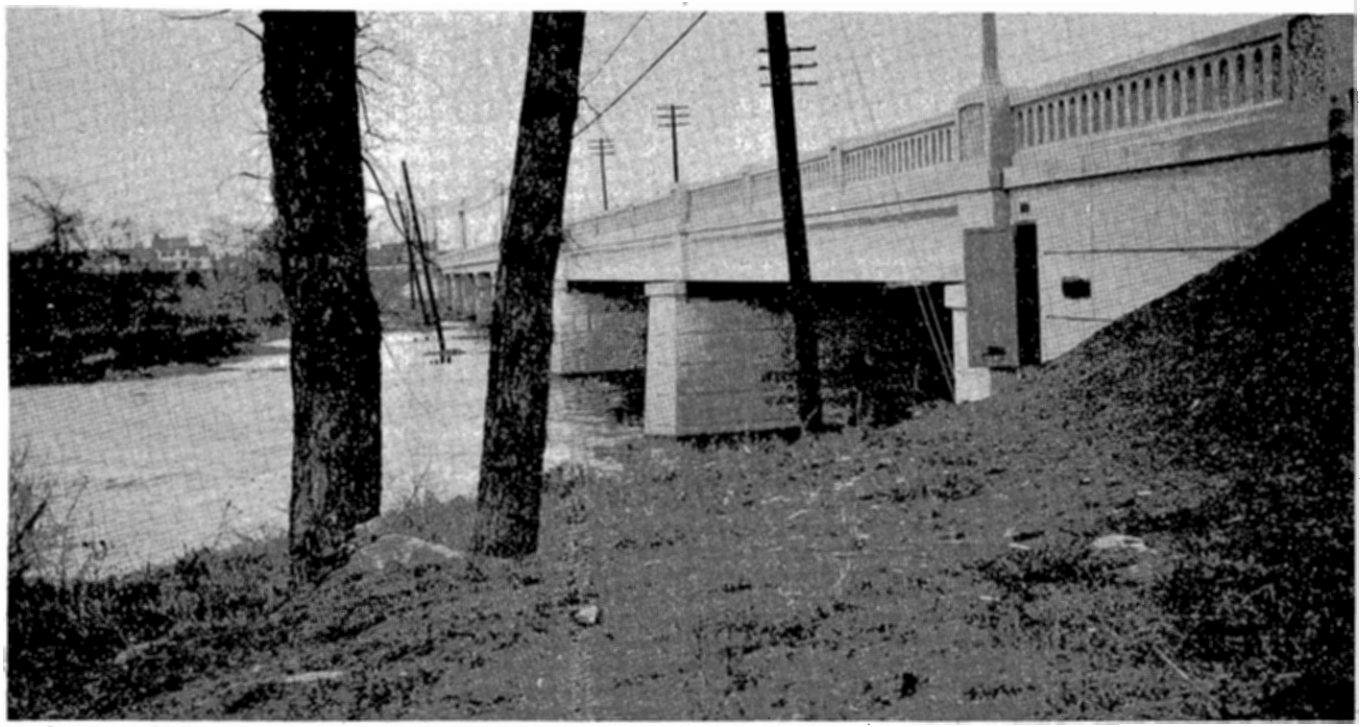
Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1 970	10 200	11 200	12 800	8 850	10 600	17 400	11 900	8 310	3 580	2 610	12 800
2	1 650	29 900	10 900	12 800	8 310	10 600	22 100	10 600	7 560	3 770	2 440	11 200
3	1 620	38 700	10 600	10 600	8 310	10 300	33 500	11 200	7 100	4 600	3 040	10 300
4	1 500	28 200	9 700	10 000	8 060	10 000	37 700	12 200	6 870	7 560	3 740	19 000
5	1 480	21 200	9 130	10 300	7 800	9 410	36 600	11 900	6 440	5 840	2 820	48 500
6	2 550	17 400	8 580	10 600	6 660	8 580	31 500	12 500	6 440	5 450	2 790	40 800
7	26 900	24 700	8 850	10 000	5 840	8 310	30 500	13 100	7 560	4 890	2 520	28 500
8	62 600	20 300	8 310	9 410	9 160	11 500	30 500	13 100	11 200	4 110	2 880	21 200
9	30 400	16 100	8 060	9 130	12 200	16 500	32 500	13 100	9 410	3 740	3 250	16 900
10	17 400	34 900	7 320	9 130	9 700	20 300	27 500	16 100	7 800	3 450	3 680	14 900
11	11 900	42 200	7 320	8 580	‡ 9 000	16 100	23 900	14 500	7 560	3 220	4 360	13 100
12	9 130	44 100	6 660	8 580	‡ 8 500	12 800	30 200	13 800	6 240	2 760	5 080	11 200
13	7 560	32 500	6 660	9 410	‡ 8 000	11 600	35 500	13 100	5 640	3 160	4 530	10 300
14	6 440	25 700	7 100	9 410	‡ 8 000	15 700	32 500	12 500	5 450	3 410	4 710	10 600
15	5 840	21 200	6 660	8 580	‡ 8 500	20 300	34 500	11 600	5 080	3 130	5 640	17 500
16	5 450	18 700	6 440	8 060	‡ 9 500	26 600	33 500	10 600	4 530	3 290	4 710	39 700
17	5 080	16 900	‡6 000	7 100	‡ 9 000	26 600	38 700	11 600	4 360	6 280	3 910	64 800
18	6 870	18 200	‡5 500	7 800	‡ 9 500	22 100	55 800	10 900	4 180	5 200	4 110	55 800
19	9 130	30 200	‡5 500	8 310	‡13 000	22 100	60 900	9 700	4 180	3 350	4 710	39 700
20	10 900	47 500	‡5 500	8 850	17 100	29 500	46 300	9 130	3 940	3 290	6 240	30 500
21	10 000	55 800	‡5 500	9 410	20 300	37 700	36 600	10 300	3 610	2 940	4 890	24 800
22	8 850	41 900	‡7 000	10 900	17 800	45 200	30 500	9 130	3 680	2 760	10 700	21 200
23	7 800	31 500	‡7 000	11 200	15 700	48 500	25 700	8 310	3 450	2 610	24 100	19 100
24	6 660	25 700	‡7 000	15 400	14 900	37 700	22 100	8 310	3 410	2 970	80 800	17 400
25	6 240	22 100	‡8 000	16 100	14 900	29 500	19 500	12 200	3 380	2 640	136 000	15 700
26	6 030	19 900	13 100	14 200	15 700	25 700	17 400	9 410	3 250	2 300	104 000	13 400
27	6 240	17 800	12 200	13 400	13 100	24 800	16 100	8 060	3 610	3 190	49 600	12 800
28	6 870	14 200	15 300	12 500	11 200	23 000	15 300	8 060	3 000	3 510	33 500	11 900
29	7 320	11 900	13 800	11 600		21 200	14 200	7 100	3 100	3 040	23 900	10 900
30	7 100	11 600	12 800	10 300		19 500	13 100	7 800	3 290	2 880	18 700	10 300
31	6 440		12 500	8 850		17 400		9 130		2 820	14 900	

‡- Estimated, stage-discharge relation affected by ice.



Discharge of Delaware River at Trenton for 1932



Gaging station on Raritan River at Manville

Door shown in bridge abutment is entrance to shelter for water-stage recorder incorporated in the structure

Delaware River at Trenton
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9 460	8 560	6 970	‡ 8 860	‡7 220	‡ 4 010	29 500	11 600	6 740	4 180	8 560	3 540
2	9 770	8 280	6 280	‡11 000	‡8 000	‡ 5 080	34 500	11 000	6 500	4 040	6 740	3 740
3	8 860	7 740	6 500	‡23 900	‡7 470	‡ 7 470	32 500	12 200	6 060	4 110	5 460	3 320
4	8 000	7 470	6 500	‡17 500	‡7 470	‡16 300	28 500	16 000	5 460	3 680	4 890	3 070
5	7 740	6 970	6 280	‡14 600	‡7 470	‡30 500	28 500	17 100	5 080	3 980	4 530	2 910
6	7 470	6 740	7 740	‡17 500	‡6 970	‡64 800	27 500	16 700	5 650	3 980	3 910	2 970
7	7 220	6 500	8 860	‡22 100	‡7 740	42 600	25 700	14 600	5 650	3 320	3 610	3 770
8	6 970	7 220	8 560	33 500	‡6 970	25 700	28 500	12 800	5 080	3 770	3 190	11 400
9	6 500	7 470	8 280	33 500	‡6 500	17 900	24 800	11 900	4 710	4 010	3 100	12 800
10	6 280	7 470	7 740	31 500	‡5 260	13 800	22 100	11 000	4 360	3 940	3 410	13 500
11	6 280	7 470	6 970	23 900	‡5 860	11 600	20 300	11 900	4 710	3 680	2 850	12 200
12	6 280	6 970	5 460	20 800	‡6 060	9 770	24 800	15 200	5 460	3 410	3 070	9 150
13	6 280	6 500	‡ 4 710	18 300	‡5 860	8 560	36 600	14 600	5 080	3 290	4 530	6 970
14	5 860	6 060	‡ 5 080	17 500	‡5 650	10 100	34 500	12 500	4 890	3 040	3 810	5 860
15	5 650	6 970	‡ 5 650	15 600	‡6 060	10 400	28 500	11 900	4 530	3 040	3 380	6 060
16	5 260	7 740	‡ 6 500	14 200	‡6 060	10 100	25 700	13 200	4 110	3 870	3 100	10 100
17	5 260	8 280	‡ 7 740	12 800	‡5 650	9 460	27 500	12 500	3 910	4 080	3 000	23 300
18	8 750	6 970	‡ 8 860	11 000	‡5 260	9 460	28 500	11 000	3 610	3 580	3 410	34 200
19	9 460	6 740	9 770	9 770	‡4 890	10 100	25 700	10 100	4 710	3 130	3 450	30 000
20	9 150	7 220	12 800	9 150	‡4 180	10 700	23 900	9 150	13 200	2 820	2 850	20 300
21	8 280	6 280	12 200	8 280	‡4 010	10 400	24 800	8 280	14 200	2 670	2 730	15 600
22	6 740	6 500	11 300	8 000	‡5 080	9 460	22 100	8 000	12 500	2 940	2 520	12 800
23	6 740	6 500	11 300	8 860	‡5 460	9 150	19 100	8 860	11 000	3 070	2 760	11 300
24	6 280	7 220	10 400	11 900	‡4 530	8 280	17 500	9 770	8 000	2 470	2 730	10 400
25	8 280	9 150	9 770	11 300	‡4 010	7 470	18 700	9 460	6 280	2 250	2 520	9 460
26	13 000	8 560	9 770	11 600	‡3 840	6 280	19 900	11 300	5 460	2 700	2 730	9 770
27	17 100	8 000	11 900	11 000	‡3 680	6 500	17 500	12 200	5 260	2 940	4 360	8 560
28	13 500	7 220	‡10 400	9 770	‡3 680	15 600	16 000	10 100	5 080	2 790	4 530	7 470
29	11 300	8 000	‡ 8 280	9 770		22 100	14 200	8 560	4 890	9 070	4 180	6 970
30	10 100	7 470	‡ 6 970	‡ 7 220		21 200	12 500	8 000	4 530	20 900	4 180	22 200
31	9 150		‡ 7 220	‡ 6 740		17 900		7 740		12 000	3 870	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	5 280	3 380	4 290	4 620	0.679	0.78
November	4 570	3 060	3 600	3 920	.576	.64
December	8 030	2 900	4 820	5 130	.754	.87
Calendar year, 1928	59 700	2 900	13 880	14 240	2.09	28.48
January, 1929	16 500	3 710	8 030	8 210	1.21	1.40
February	30 400	4 570	8 890	9 070	1.33	1.38
March	81 800	13 600	27 500	27 700	4.07	4.69
April	59 700	11 500	29 800	30 100	4.43	4.94
May	31 400	12 200	18 400	18 700	2.75	3.17
June	12 200	4 220	6 150	6 450	.949	1.06
July	6 760	2 230	3 740	4 040	.594	.68
August	7 900	2 000	2 990	3 290	.484	.56
September	6 380	1 780	3 550	3 850	.566	.63
Year ending Sept. 30, 1929	81 800	1 780	10 100	10 400	1.53	20.80
October	21 300	2 480	7 720	8 170	1.20	1.38
November	33 400	5 640	10 900	11 200	1.65	1.84
December	31 400	6 000	12 200	12 400	1.82	2.10
Calendar year, 1929	81 800	1 780	11 670	11 980	1.76	23.83
January, 1930	25 600	8 000	12 700	12 800	1.88	2.17
February	36 600	6 000	12 300	12 400	1.82	1.90
March	43 000	10 900	19 700	20 500	3.01	3.47
April	30 000	8 310	14 400	14 900	2.19	2.44
May	10 000	5 080	7 480	7 750	1.14	1.31
June	31 500	4 710	8 930	9 500	1.40	1.56
July	6 650	2 700	4 220	4 100	.603	.70
August	3 980	1 650	2 380	1 930	.284	.33
September	4 710	1 800	2 420	2 240	.329	.37
Year ending Sept. 30, 1930	43 000	1 650	9 590	9 810	1.44	19.57

‡- Estimated, stage-discharge relation affected by ice.
Note.- Corrected monthly discharge not adjusted for effect of storage prior to October 1929.

Delaware River at Trenton
(Continued)

Monthly and annual discharge in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	2 040	1 540	1 760	1 610	0.237	0.27
November	4 110	1 600	2 410	2 420	.356	.40
December	5 260	1 990	3 150	3 160	.465	.54
Calendar year, 1930	43 000	1 540	7 618	7 744	1.14	15.46
January, 1931	7 320	2 330	3 720	3 730	.549	.63
February	12 300	2 330	5 100	5 270	.775	.81
March	50 800	5 640	13 100	14 200	2.09	2.41
April	35 500	9 410	20 700	21 800	3.21	3.58
May	23 900	9 130	16 000	16 600	2.44	2.81
June	14 500	4 890	9 330	9 460	1.39	1.55
July	38 700	3 580	11 600	11 800	1.74	2.01
August	6 240	2 550	4 110	4 050	.596	.69
September	4 530	1 970	2 770	2 770	.407	.45
Year ending Sept. 30, 1931	50 800	1 540	7 830	8 090	1.19	16.15
October	2 640	1 440	1 900	1 750	.257	.30
November	2 970	1 760	2 200	1 950	.287	.32
December	11 200	2 470	5 120	4 980	.732	.84
Calendar year, 1931	50 800	1 440	7 988	8 217	1.21	16.40
January, 1932	27 500	4 890	13 300	13 800	2.03	2.34
February	27 500	6 240	13 000	13 500	1.99	2.15
March	35 500	5 260	10 000	10 500	1.54	1.78
April	61 500	8 310	23 900	25 000	3.68	4.11
May	22 100	5 080	10 100	10 600	1.56	1.80
June	19 000	3 540	7 370	7 670	1.13	1.26
July	7 320	2 730	4 390	4 200	.618	.71
August	3 350	1 900	2 530	2 280	.335	.39
September	2 940	1 250	1 760	1 440	.212	.24
Year ending Sept. 30, 1932	61 500	1 250	7 930	8 100	1.19	16.24
October	62 600	1 480	9 870	10 200	1.50	1.73
November	55 800	10 200	26 400	27 300	4.01	4.47
December	15 300	5 500	8 720	8 550	1.26	1.45
Calendar year, 1932	62 600	1 250	10 890	11 190	1.65	22.43
January, 1933	16 100	7 100	10 400	10 300	1.51	1.74
February	20 300	5 840	11 000	11 100	1.63	1.70
March	48 500	8 310	21 000	21 700	3.19	3.68
April	60 900	13 100	30 100	30 900	4.54	5.06
May	16 100	7 100	11 000	10 900	1.60	1.84
June	11 200	3 000	5 450	5 130	.754	.84
July	7 560	2 300	3 730	3 460	.509	.59
August	136 000	2 440	18 700	19 500	2.87	3.31
September	64 800	10 300	22 500	22 700	3.34	3.73
Year ending Sept. 30, 1933	136 000	1 480	14 900	15 100	2.22	30.14
October	17 100	5 260	8 289	7 827	1.15	1.33
November	9 150	6 060	7 341	6 855	1.01	1.13
December	12 800	4 710	8 283	8 037	1.18	1.36
Calendar year, 1933	136 000	2 300	13 130	13 190	1.94	26.31
January, 1934	33 500	6 740	15 210	15 540	2.29	2.64
February	8 000	3 680	5 746	5 214	.767	.80
March	64 800	4 010	14 930	15 190	2.23	2.57
April	36 600	12 500	24 680	25 840	3.80	4.24
May	17 100	7 740	11 590	11 930	1.75	2.02
June	14 200	3 610	6 223	6 214	.914	1.02
July	20 900	2 250	4 411	4 600	.676	.78
August	8 560	2 520	3 805	3 589	.528	.61
September	34 200	2 910	11 120	11 520	1.69	1.89
Year ending Sept. 30, 1934	64 800	2 250	10 150	10 210	1.50	20.39

Flat Brook near Flatbrookville

LOCATION.- Water-stage recorder 1 mile above Flatbrookville, Sussex County, and 1½ miles above mouth.

DRAINAGE AREA.- 65 square miles.

RECORDS AVAILABLE.- July 1923 to September 1934.

AVERAGE DISCHARGE.- 11 years, 104 second-feet.

EXTREMES.- 1923-34: Maximum discharge, about 2 350 second-feet Apr. 7, 1924 and Feb. 11, 1925 (gage height, 7.1 feet, from high-water marks); minimum, 4 second-feet Sept. 6, 7, 1923 (gage height, 1.35 feet).

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	53	34	96	‡ 46	38	167	100	184	91	49	21	14
2	52	34	76	74	‡ 32	148	107	169	78	46	21	14
3	50	34	56	156	‡ 26	140	93	304	73	41	20	13
4	47	42	48	93	‡ 26	133	89	286	70	39	25	13
5	48	53	48	89	‡ 24	344	104	216	68	38	23	14
6	56	46	48	186	25	620	145	199	76	49	19	20
7	47	38	38	151	235	403	128	232	68	42	19	19
8	41	37	42	113	235	235	107	190	63	36	18	24
9	41	41	42	102	135	189	98	161	62	34	17	66
10	40	38	38	98	109	143	104	147	57	32	17	34
11	37	36	33	107	89	148	128	134	53	34	17	47
12	34	34	33	85	91	156	365	134	49	31	17	29
13	36	34	33	70	78	235	597	184	46	28	19	24
14	37	36	32	‡ 65	68	466	342	166	44	26	28	28
15	36	34	32	‡ 65	76	575	267	199	56	25	149	53
16	38	33	32	‡ 70	70	424	304	163	63	24	74	36
17	38	32	33	62	62	324	444	147	50	23	36	32
18	40	32	50	55	53	235	342	128	44	28	26	33
19	42	52	55	81	53	204	267	181	45	214	23	27
20	41	116	42	76	50	183	216	286	65	80	† 19	24
21	40	68	36	‡ 65	‡ 34	167	250	232	97	49	† 18	21
22	38	56	34	‡ 55	‡ 48	156	286	267	60	39	† 17	20
23	38	46	‡ 32	50	76	153	250	193	49	34	17	19
24	38	40	31	‡ 42	93	148	199	169	56	31	16	19
25	37	36	30	42	48	130	196	163	87	28	16	19
26	37	32	30	76	98	123	323	141	95	28	15	18
27	37	32	28	80	324	118	250	124	65	25	15	18
28	38	30	32	62	286	111	216	110	57	23	15	17
29	38	28	34	‡ 55		102	267	106	63	24	15	16
30	37	32	‡ 36	‡ 55		98	216	101	54	22	15	19
31	34		‡ 34	53		102		101		21	14	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Flat Brook near Flatbrookville
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18.1	33	‡ 44	87	58	127	99	83	69	37	15.7	15.1
2	49	32	‡ 44	‡ 89	58	130	97	109	62	58	15.1	16.3
3	138	37	43	109	58	119	87	130	55	50	15.1	32
4	73	58	43	109	‡ 60	101	85	104	50	39	14.5	22
5	46	50	43	73	‡ 55	97	81	87	46	35	14.5	17.5
6	43	43	42	79	55	94	79	83	46	34	14.0	16.3
7	43	39	43	83	55	92	227	77	53	33	14.0	15.7
8	37	36	47	85	53	300	245	75	47	30	13.4	18.1
9	28	35	50	87	50	366	176	69	57	29	13.4	18.1
10	25	34	46	81	52	245	144	64	288	36	12.9	16.9
11	23	33	42	67	50	214	130	60	369	34	12.9	15.1
12	23	32	34	73	50	282	122	58	201	29	16.8	15.1
13	23	32	42	97	58	224	124	57	138	26	9.1	15.1
14	22	32	58	122	97	179	144	55	111	30	12.4	18.1
15	21	33	87	170	87	155	124	109	89	32	16.3	18.8
16	21	35	79	135	‡ 50	147	135	124	77	26	20	18.1
17	21	34	64	‡ 90	‡ 50	141	161	94	67	24	17.5	37
18	20	164	71	75	‡ 60	138	211	77	81	23	19.5	34
19	20	234	133	‡ 65	69	155	179	81	85	21	20	23
20	20	150	122	‡ 65	111	135	155	109	65	20	15.7	18.8
21	19.5	114	83	‡ 75	205	119	138	89	57	19.5	15.1	16.3
22	26	92	‡ 50	‡ 70	231	109	135	73	53	20	14.5	15.7
23	124	81	‡ 50	‡ 65	192	101	124	67	47	21	36	14.5
24	71	77	‡ 50	‡ 65	176	99	116	62	44	21	89	18.1
25	50	71	‡ 50	‡ 60	161	152	109	138	42	25	36	12.9
26	42	65	‡ 55	‡ 60	167	201	101	133	40	21	24	30
27	36	64	64	‡ 60	161	158	97	94	83	18.8	20	25
28	32	62	71	‡ 65	135	133	92	87	65	18.1	18.1	19.5
29	30	53	106	‡ 60		119	87	106	46	18.1	16.9	16.9
30	29	‡ 44	99	‡ 50		111	83	92	40	16.9	16.3	15.7
31	33		87	‡ 45		104		79		16.3	15.7	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.3	19.0	33	‡ 32	37	117	244	115	90	46	35	25
2	14.7	17.7	32	‡ 30	‡ 36	117	302	107	90	44	34	24
3	14.7	18.3	25	‡ 28	‡ 34	110	237	105	78	45	42	83
4	14.2	12.0	24	‡ 26	‡ 34	107	206	95	72	45	60	56
5	14.2	28	24	42	‡ 34	98	179	90	65	44	58	36
6	14.2	63	24	128	‡ 34	88	160	84	60	54	40	31
7	14.2	36	24	145	33	82	163	80	68	63	31	26
8	14.2	27	23	100	‡ 34	129	189	150	412	54	32	23
9	13.6	23	23	‡ 80	‡ 34	274	160	259	220	50	31	23
10	13.6	21	23	‡ 65	‡ 34	195	139	195	206	254	34	22
11	14.7	19.6	22	‡ 55	‡ 34	154	131	166	220	456	35	21
12	12.0	19.0	23	‡ 48	‡ 34	134	123	145	169	192	40	20
13	14.7	18.3	25	‡ 42	‡ 38	120	112	145	131	117	45	19.6
14	11.0	16.3	22	‡ 40	‡ 44	115	102	174	107	90	36	23
15	15.9	19.6	20	‡ 40	‡ 50	131	93	237	93	80	35	22
16	19.0	30	‡16	‡ 38	‡ 60	142	88	172	107	68	38	21
17	18.3	66	‡14	‡ 38	‡ 70	134	84	145	448	61	32	20
18	17.7	76	‡16	‡ 40	‡ 150	145	84	126	263	61	28	21
19	19.6	54	19.0	‡ 44	237	163	78	112	172	76	27	20
20	19.6	42	19.0	‡ 65	172	154	74	102	128	63	34	18.3
21	16.5	34	19.0	‡ 55	131	151	72	176	107	60	31	23
22	15.8	32	17.7	‡ 46	100	160	68	252	90	107	26	23
23	14.7	28	‡16	‡ 42	90	157	190	274	90	84	25	21
24	16.1	26	‡14	‡ 40	88	172	270	248	98	110	24	19.6
25	16.6	26	‡13	‡ 38	93	226	169	189	80	88	23	17.7
26	11.5	27	‡15	‡ 38	102	267	166	176	70	65	23	19.0
27	15.3	25	46	‡ 40	110	220	237	145	68	56	23	23
28	14.2	22	74	58	107	189	172	120	60	50	74	22
29	14.7	19.6	58	54		456	145	107	54	48	48	20
30	15.3	21	51	46		403	128	95	50	51	32	18.3
31	17.1		40	45		274		88		51	27	

‡- Estimated, stage-discharge relation affected by ice.

Flat Brook near Flatbrookville
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18.3	23	31	18.5	70	84	737	142	42	36	16.5	15.3
2	18.9	21	25	24	74	80	438	231	41	61	17.1	19.6
3	17.1	19.6	19.6	38	76	84	306	148	42	48	17.1	18.3
4	17.1	19.0	22	44	82	78	241	123	40	45	19.4	15.3
5	17.1	17.7	31	38	86	70	202	107	35	58	12.9	15.6
6	17.0	17.7	27	59	74	72	176	98	33	44	15.3	16.5
7	16.8	17.1	25	202	78	74	160	100	36	36	21	15.3
8	15.9	16.5	21	148	88	70	148	157	32	33	23	15.7
9	18.9	17.5	21	110	112	61	142	192	31	31	17.0	13.1
10	17.1	15.9	23	93	100	56	154	148	30	28	15.9	11.8
11	17.1	17.1	33	78	511	56	186	126	28	26	23	10.8
12	16.5	17.1	40	68	432	58	244	117	29	28	22	12.5
13	15.9	15.9	48	74	278	54	230	110	67	24	18.3	13.1
14	16.5	15.9	68	93	209	51	179	98	56	23	16.5	12.0
15	21	14.7	50	78	169	44	154	90	55	23	15.9	12.0
16	17.7	16.8	38	68	142	46	136	84	172	23	15.3	12.5
17	22	15.3	32	63	139	53	126	80	323	25	15.3	13.3
18	18.3	15.9	28	61	139	63	120	70	182	29	17.4	11.0
19	18.3	15.9	26	58	112	63	110	86	112	21	35	14.0
20	18.7	15.9	25	53	110	80	100	63	88	20	26	9.4
21	16.5	15.9	25	53	88	76	95	61	74	15.4	19.0	12.4
22	15.3	15.9	25	86	100	86	90	58	106	12.9	17.7	10.0
23	16.5	17.3	27	93	95	136	82	54	82	24	16.5	10.6
24	19.6	13.6	27	134	76	123	78	50	61	25	15.9	12.8
25	13.6	15.3	25	107	72	115	76	48	51	21	15.3	9.0
26	16.5	14.7	23	88	80	112	82	45	48	19.0	18.0	10.6
27	15.3	15.3	19.6	88	80	134	88	46	46	19.0	15.4	12.8
28	16.5	15.9	20	88	82	371	82	82	54	18.3	10.6	12.6
29	21	16.5	20	78	86	413	76	63	46	18.9	18.9	13.8
30	34	19.6	19.6	95		302	70	53	40	16.6	8.2	13.3
31	28		21	105		352		46		16.5	14.1	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14.0	318	110	110	82	134	216	112	60	27	13.6	58
2	11.7	772	105	88	90	126	452	107	51	43	13.6	54
3	8.2	293	100	88	95	120	332	120	48	56	14.2	57
4	12.0	200	95	88	84	117	284	131	47	50	15.4	774
5	16.0	154	93	88	82	110	249	107	56	34	16.0	585
6	294	128	84	80	63	100	214	110	527	28	14.8	265
7	471	199	82	78	78	105	301	164	268	24	14.2	186
8	123	196	80	76	172	269	284	128	148	24	13.6	142
9	65	158	74	74	153	242	228	112	102	21	14.2	120
10	47	625	68	72	100	177	206	131	84	20	14.2	112
11	38	585	66	74	100	131	183	128	66	19.4	22	98
12	33	336	72	112	100	128	343	112	56	19.4	21	84
13	30	249	74	100	98	134	527	107	51	19.4	17.7	74
14	27	200	68	82	107	206	425	102	47	17.7	47	92
15	26	170	61	84	117	246	336	95	43	17.1	32	538
16	25	151	51	74	115	228	284	93	41	17.7	22	992
17	28	170	60	78	105	190	716	102	43	21	18.5	1 200
18	192	158	‡ 55	† 80	100	170	498	88	38	20	18.5	499
19	208	393	‡ 60	† 90	105	167	355	78	35	17.7	21	314
20	123	1 050	58	† 100	212	204	284	74	34	18.5	20	242
21	88	436	58	† 95	327	602	246	110	32	18.5	18.5	196
22	70	301	58	† 100	220	726	214	90	29	17.7	154	177
23	60	238	58	† 110	196	469	193	76	27	17.1	176	148
24	56	206	68	† 100	196	350	177	70	26	16.5	1 450	134
25	51	183	122	† 90	180	289	164	88	26	16.7	850	120
26	47	170	177	† 95	161	272	161	82	25	22	276	110
27	66	139	128	† 110	136	257	145	70	25	19.4	158	102
28	70	120	187	105	129	246	131	65	25	17.1	115	93
29	56	112	161	98		220	123	60	24	16.0	93	86
30	50	115	131	90		196	117	66	24	15.4	74	80
31	45		126	84		180		68		14.2	65	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Flat Brook near Flatbrookville
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	56	37	78	66	‡ 26	381	126	74	41	43	16.0
2	93	54	34	123	63	‡ 25	302	120	66	38	37	16.0
3	76	53	37	100	66	100	237	155	61	37	37	15.4
4	68	51	47	86	65	‡241	234	234	56	40	34	17.1
5	65	48	48	93	60	‡541	234	201	58	36	30	21
6	63	53	54	123	58	400	208	167	54	33	28	17.7
7	60	60	50	281	56	202	245	142	58	33	26	17.7
8	58	68	43	506	53	142	215	126	63	71	† 24	60
9	56	65	40	311	45	117	180	115	53	65	† 24	132
10	53	60	29	230	50	100	161	117	56	44	† 24	60
11	51	54	35	187	48	93	171	194	53	36	† 26	37
12	48	53	37	158	50	85	598	151	50	34	† 28	29
13	47	51	34	148	51	93	411	126	58	33	† 26	† 26
14	45	54	34	164	51	105	307	117	51	58	25	† 24
15	43	54	34	142	54	88	269	139	44	102	25	26
16	43	42	38	123	48	95	241	164	39	60	24	37
17	102	45	48	105	50	100	281	131	36	47	27	302
18	162	48	72	84	47	117	222	117	35	38	27	241
19	88	47	72	90	44	110	197	102	261	34	24	139
20	68	47	61	84	47	100	253	95	357	32	24	100
21	58	45	80	82	47	90	222	90	164	29	22	80
22	54	47	98	76	‡ 41	84	187	88	105	28	19.4	68
23	60	45	93	140	‡ 27	68	164	112	84	26	19.4	61
24	70	44	82	148	‡ 26	72	164	90	72	25	24	60
25	134	43	86	112	‡ 20	72	302	117	60	25	27	53
26	98	43	68	105	‡ 23	72	234	194	51	28	24	47
27	78	43	‡ 48	88	‡ 21	91	190	142	53	27	22	44
28	70	40	‡ 41	95	‡ 26	354	170	112	66	134	20	41
29	63	38	‡ 36	76		270	148	98	54	214	19.4	54
30	60	38	‡ 35	60		198	136	88	47	81	19.4	193
31	58		‡ 45	66		180		82		54	18.5	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	56	34	40.8	0.628	0.724
November	116	28	21.2	.634	.707
December	96	28	40.8	.628	.724
Calendar year, 1928	1 380	28	156	2.40	32.74
January, 1929	186	42	80.0	1.23	1.42
February	324	25	92.2	1.42	1.48
March	620	98	222	3.42	3.94
April	597	89	229	3.49	3.89
May	304	101	178	2.74	3.16
June	97	44	63.5	.977	1.09
July	214	21	40.1	.617	.71
August	149	14	25.2	.388	.45
September	66	13	25.0	.385	.43
Year ending Sept. 30, 1929	620	13	896	1.38	18.72
October	138	18.1	38.9	.598	.69
November	234	32	63.3	.974	1.09
December	133	34	62.6	.963	1.11
Calendar year, 1929	620	13	93.1	1.43	19.46
January, 1930	170	45	81.2	1.25	1.44
February	231	50	95.1	1.46	1.52
March	366	92	156	2.40	2.77
April	245	79	130	2.00	2.23
May	138	55	87.9	1.35	1.56
June	369	40	85.8	1.32	1.47
July	58	16.3	27.8	.428	.49
August	89	9.1	19.5	.300	.35
September	37	12.9	19.5	.300	.33
Year ending Sept. 30, 1930	369	9.1	72.1	1.11	15.05

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Flat Brook near Flatbrookville
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	19.6	11.0	15.3	0.235	0.27
November	76	12.0	29.6	.455	.51
December	74	13	26.3	.405	.47
Calendar year, 1930	369	9.1	64.2	.988	13.41
January, 1931	145	26	52.5	.808	.93
February	237	33	73.4	1.13	1.18
March	456	82	174	2.68	3.09
April	302	68	152	2.34	2.61
May	274	80	151	2.32	2.68
June	448	50	132	2.03	2.26
July	456	44	88.2	1.36	1.57
August	74	23	35.6	.548	.63
September	83	17.7	25.4	.391	.44
Year ending Sept. 30, 1931	456	11.0	79.6	1.22	16.64
October	34	13.6	18.4	.283	.33
November	23	13.6	16.8	.258	.29
December	68	19.6	28.6	.440	.51
Calendar year, 1931	456	13.6	79.0	1.22	16.52
January, 1932	202	18.5	80.1	1.23	1.42
February	511	70	132	2.03	2.19
March	413	44	113	1.74	2.01
April	737	70	170	2.62	2.92
May	231	45	95.4	1.47	1.70
June	323	28	69.4	1.07	1.19
July	61	12.9	28.0	.431	.50
August	35	8.2	17.7	.272	.31
September	19.6	9.0	13.2	.203	.23
Year ending Sept. 30, 1932	737	8.2	64.9	1.00	13.60
October	471	8.2	79.1	1.22	1.41
November	1 050	112	284	4.37	4.88
December	187	51	90.0	1.38	1.59
Calendar year, 1932	737	8.2	97.2	1.50	20.35
January, 1933	112	72	90.1	1.39	1.60
February	327	63	132	2.03	2.11
March	726	100	229	3.52	4.06
April	716	117	280	4.31	4.81
May	164	60	98.3	1.51	1.74
June	527	24	70.3	1.08	1.20
July	56	14.2	22.8	.351	.40
August	1 450	13.6	123	1.89	2.18
September	1 200	54	258	3.97	4.43
Year ending Sept. 30, 1933	1 450	8.2	146	2.25	30.41
October	162	43	70.0	1.08	1.24
November	68	38	49.6	.763	.85
December	98	29	51.5	.792	.91
Calendar year, 1933	1 450	13.6	122	1.88	25.53
January, 1934	506	60	138	2.12	2.44
February	66	20	46.5	.715	.74
March	541	25	143	2.20	2.54
April	598	136	242	3.72	4.15
May	234	82	131	2.02	2.33
June	357	35	78.0	1.20	1.34
July	214	25	51.1	.786	.91
August	43	18.5	25.7	.395	.46
September	302	15.4	67.8	1.04	1.16
Year ending Sept. 30, 1934	598	15.4	91.3	1.40	19.07

Paulins Kill at Blairstown

LOCATION.- Water-stage recorder 1 200 feet above highway bridge in Blairstown, Warren County, 1 400 feet above mouth of Blairs Creek and 9 miles above mouth. Prior to Aug. 1, 1931, recorder at highway bridge.

DRAINAGE AREA.- 126 square miles (128 square miles before relocating station on July 31, 1931).

RECORDS AVAILABLE.- October 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years, 174 second-feet.

EXTREMES.- 1921-34: Maximum discharge, about 2 300 second-feet Aug. 24, 1933; minimum daily discharge, 5 second-feet Aug. 13, 14, 1930.

REMARKS.- Flow regulated by storage in Swartswood Lake and by operation of power plants above station.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100	61	180	73	75	524	163	312	114	120	33	24
2	96	61	156	132	122	422	200	287	103	106	27	25
3	92	63	120	95	73	345	174	426	95	91	28	36
4	86	83	104	86	71	402	159	399	80	80	30	29
5	87	100	95	70	66	809	197	332	80	74	35	34
6	† 85	92	93	245	60	1 260	310	312	106	88	30	58
7	† 85	79	84	247	715	890	296	391	95	77	26	51
8	† 85	78	80	159	732	524	235	335	98	72	32	64
9	† 80	73	79	157	482	430	204	275	98	66	17	108
10	† 80	75	72	153	273	310	201	243	89	59	29	88
11	† 78	72	75	210	193	296	223	214	81	58	25	76
12	77	68	73	161	158	278	526	206	80	58	43	65
13	76	73	72	129	159	313	825	252	73	45	44	50
14	77	67	73	133	152	460	618	249	70	44	† 50	71
15	73	67	73	107	139	593	503	299	115	51	† 100	121
16	70	66	75	110	125	524	524	251	122	49	† 85	111
17	72	66	75	92	100	460	644	214	96	30	† 70	87
18	74	68	99	91	97	344	569	184	90	41	53	100
19	84	85	104	150	98	312	482	211	92	192	54	87
20	85	129	92	158	91	287	404	309	120	175	47	70
21	75	108	77	109	84	264	414	275	109	102	43	59
22	69	98	72	100	104	261	493	304	96	77	† 40	52
23	69	95	72	102	110	271	466	238	83	65	† 40	51
24	67	89	75	90	100	268	368	205	81	57	† 35	44
25	69	86	70	92	98	239	342	199	311	52	31	42
26	69	82	58	106	223	221	524	176	294	49	28	43
27	64	77	55	117	766	205	460	158	191	46	† 30	40
28	65	74	61	92	825	187	377	149	155	44	† 30	40
29	67	77	63	97		173	441	138	178	45	† 30	39
30	62	84	59	115		162	366	133	144	38	35	50
31	63		56	95		163		126		29	17	

†- Estimated.

Paulins Kill at Blairstown
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	68	† 90	220	131	280	144	124	76	58	22	27
2	69	69	† 90	208	112	268	144	164	73	72	22	34
3	244	95	† 90	220	107	244	131	186	66	64	26	46
4	186	154	† 90	232	111	208	124	154	62	58	24	43
5	131	144	† 90	175	131	186	114	125	59	51	23	39
6	94	114	† 90	154	‡ 110	175	112	120	56	55	23	24
7	84	99	† 90	154	‡ 95	175	303	112	58	60	24	24
8	76	91	† 90	154	‡ 90	463	374	110	60	48	20	28
9	66	86	† 90	186	92	644	280	103	61	48	26	35
10	57	78	† 90	186	99	503	220	93	214	54	19	24
11	56	76	† 85	133	89	431	197	84	402	51	41	24
12	52	78	† 85	144	87	482	186	79	232	48	35	25
13	52	76	† 95	186	99	402	197	76	144	42	5	21
14	51	76	† 120	232	175	332	232	79	124	52	5	32
15	48	81	† 180	402	186	280	208	124	105	51	27	36
16	46	83	† 140	374	144	256	232	144	91	46	36	33
17	45	74	† 120	256	‡ 110	244	293	124	82	40	24	43
18	46	220	133	232	‡ 110	244	346	107	93	38	30	31
19	34	374	319	197	131	268	319	107	100	32	37	36
20	39	† 260	402	‡ 180	232	232	268	131	82	37	33	25
21	40	† 220	256	‡ 160	402	208	232	118	72	55	28	21
22	44	† 160	197	‡ 150	431	175	220	98	65	24	34	48
23	164	† 140	175	‡ 140	360	154	208	89	64	14	60	15
24	175	† 130	144	‡ 130	346	154	186	86	54	34	139	13
25	127	† 120	175	‡ 130	360	220	175	120	50	37	95	26
26	95	† 110	154	‡ 120	374	268	164	133	51	44	61	30
27	81	† 110	144	‡ 120	374	220	154	101	158	32	44	40
28	72	† 100	144	125	319	197	144	93	115	36	37	31
29	65	† 95	208	129		175	131	116	74	26	31	24
30	62	† 90	220	114		164	124	110	62	27	35	20
31	63		208	124		154		93		24	24	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	41	61	‡ 60	61	† 220	332		197		† 90	48
2	36	33	66	‡ 58	‡ 60	† 200	431		197		† 85	49
3	34	42	46	‡ 55	‡ 60	† 190	374		154		† 80	196
4	29	25	‡ 36	56	‡ 55	† 170	319		129		† 75	153
5	34	42	‡ 34	62	‡ 55	† 160	280		114		† 70	101
6	33	76	33	149	‡ 55	144	256		105		† 65	76
7	30	70	39	178	‡ 55	133	256		133		† 60	68
8	33	52	47	137	‡ 55	191	280		560		60	58
9	29	38	40	‡ 100	‡ 55	460	256		460		60	53
10	35	45	41	‡ 65	‡ 55	360	220		360		62	48
11	30	48	42	‡ 55	‡ 55	256	208		346		68	54
12	34	50	39	‡ 50	58	220	197		293		78	41
13	28	47	39	‡ 48	61	197	175		232		77	41
14	27	49	39	‡ 44	96	186	164		197		74	44
15	32	54	‡ 20	‡ 42	150	186	154		164		66	55
16	41	68	‡ 15	‡ 41	125	186	144		203		68	57
17	35	131	17	41	106	175	118		524		63	49
18	47	193	21	59	388	164	133		431		58	51
19	45	160	29	70	460	154	124		306		53	47
20	38	116	29	77	268	164	114	144	244		71	44
21	39	90	38	65	197	175	109	164	208		65	46
22	25	74	36	‡ 50	186	175	107	208	175		56	44
23	32	56	31	46	197	164	154	256	186		50	42
24	32	50	‡ 26	‡ 42	208	154	232	256	186		50	40
25	33	53	‡ 26	‡ 40	220	175	175	208			45	40
26	30	47	37	‡ 38	244	208	186	197			47	38
27	21	48	68	‡ 38	244	186	280	175			50	38
28	29	48	123	75	220	164	220	154			84	45
29	31	35	104	98		414	† 190	133			82	44
30	31	27	95	82		503	† 160	124			67	40
31	35		74	‡ 65		374		124			56	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Paulins Kill at Blairstown
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	46	44	32	142	181	931	206	63	56	22	17.3
2	36	45	45	49	146	172	748	327	60	87	18.3	40
3	28	44	40	87	138	154	578	243	56	90	20	59
4	34	36	37	109	150	150	457	185	53	77	24	36
5	35	34	49	94	190	142	370	167	51	88	24	30
6	33	35	53	128	176	150	335	154	51	71	21	29
7	27	29	44	348	172	150	300	146	61	58	20	17.9
8	34	27	39	309	185	134	275	200	52	51	23	29
9	43	35	31	276	209	127	270	247	45	42	17.6	11.9
10	34	25	46	261	181	112	296	200	39	39	15.8	11.2
11	35	34	69	223	651	100	327	167	42	41	20	18.7
12	40	32	73	192	748	109	382	163	38	35	33	19.4
13	31	28	87	191	538	116	374	154	72	32	20	20
14	31	27	121	190	390	105	311	138	68	36	16.8	22
15	32	29	101	174	323	89	275	127	58	24	17.7	22
16	41	23	74	156	279	86	247	116	128	31	15.6	19.3
17	45	29	62	146	261	102	224	112	380	24	15.8	21
18	40	26	57	137	261	127	191	102	266	41	14.7	18.4
19	39	28	50	133	228	134	195	92	187	28	33	21
20	40	29	49	118	200	163	176	87	150	29	38	18.0
21	30	28	50	116	167	159	163	83	120	25	23	18.3
22	32	28	49	138	172	167	154	84	140	29	25	18.6
23	37	29	58	159	167	252	146	75	122	40	12.7	22
24	20	28	62	261	146	219	134	69	89	32	16.0	15.6
25	30	29	56	181	134	195	130	64	73	35	16.6	18.9
26	37	26	49	150	134	185	130	71	68	27	15.3	19.4
27	24	27	40	159	138	219	154	64	69	20	15.8	17.9
28	25	26	43	167	154	634	150	109	96	25	13.5	28
29	35	26	45	146	172	967	136	93	78	26	12.7	30
30	42	36	38	181		802	123	77	63	24	15.2	24
31	48		41	190		654		67		23	10.0	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	329	233	252	177	266	375	186	120	19	22	150
2	20	635	228	209	181	252	770	167	92	27	23	122
3	17.9	398	219	195	181	252	686	164	79	31	20	162
4	18.4	292	214	190	168	238	576	261	89	52	28	1 630
5	24	247	209	195	160	219	519	212	195	54	26	1 620
6	279	219	195	186	138	200	429	209	224	47	29	1 050
7	410	353	186	177	151	204	519	270	186	42	22	737
8	224	410	186	168	320	406	515	233	173	37	22	500
9	118	339	168	177	308	382	418	200	147	33	21	386
10	74	830	156	177	‡ 170	300	375	219	147	37	21	320
11	66	931	147	177	‡ 180	238	344	205	85	34	37	261
12	60	711	164	233	‡ 170	233	592	181	70	37	37	219
13	57	503	173	228	‡ 170	233	975	177	81	18	28	190
14	50	386	168	186	‡ 180	386	786	177	70	33	50	226
15	42	331	156	173	‡ 190	507	632	173	51	32	42	1 400
16	46	288	‡ 110	168	‡ 180	468	538	164	30	27	38	1 920
17	49	315	‡ 120	168	‡ 180	386	686	181	37	40	34	1 800
18	173	300	‡ 120	181	190	355	737	160	33	39	33	1 280
19	224	674	‡ 120	195	209	347	595	137	33	36	41	937
20	167	1 400	‡ 120	219	458	445	480	136	30	24	40	703
21	130	975	‡ 120	195	703	1 220	410	173	29	28	40	557
22	109	737	‡ 130	224	484	1 480	367	125	29	27	209	453
23	95	538	136	292	422	1 130	324	120	28	32	† 240	375
24	95	437	147	256	394	1 010	292	117	29	28	†2 200	340
25	87	379	243	228	359	668	275	117	25	25	†1 500	300
26	82	375	300	233	340	595	270	109	20	26	† 950	270
27	120	296	261	252	288	557	247	99	27	27	† 600	247
28	134	270	328	233	270	480	228	96	22	24	† 420	228
29	109	252	312	214		410	214	92	24	21	† 320	209
30	92	233	279	195		355	200	128	21	22	† 220	190
31	83		275	181		324		128		25	169	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Paulins Kill at Blairstown
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	177	102	66	‡ 110	‡ 118	51	580	204	107	50	44	24
2	219	96	58	147	‡ 114	48	538	195	95	45	39	28
3	186	96	58	136	‡ 110	136	425	247	91	45	35	25
4	160	96	75	123	‡ 105	494	429	336	84	60	33	39
5	151	89	77	136	‡ 100	1 230	414	284	82	49	† 31	33
6	139	99	75	151	‡ 95	896	359	238	67	43	† 29	30
7	136	109	77	203	‡ 92	425	410	209	69	40	† 28	33
8	† 125	128	70	901	‡ 91	296	382	179	62	65	† 28	135
9	† 118	120	70	737	‡ 82	233	328	161	61	62	† 27	229
10	† 112	109	‡ 48	538	‡ 86	204	300	168	70	48	† 28	133
11	† 106	101	‡ 56	503	‡ 88	190	303	278	70	42	† 30	98
12	102	98	‡ 57	347	‡ 89	195	726	229	85	38	† 36	76
13	102	102	‡ 53	324	‡ 91	195	600	180	133	37	† 39	64
14	99	98	‡ 52	355	‡ 92	200	468	161	94	51	† 35	65
15	96	96	‡ 52	320	‡ 94	190	414	225	72	121	34	170
16	92	† 75	‡ 54	279	‡ 93	181	410	271	63	96	35	196
17	168	† 78	‡ 64	247	92	186	557	216	57	62	37	361
18	284	80	82	204	89	204	429	183	54	47	35	346
19	204	82	83	190	86	200	359	158	122	40	33	223
20	160	82	89	173	79	177	406	149	161	36	33	165
21	136	83	106	164	89	160	367	145	115	39	27	135
22	120	84	113	156	86	151	312	148	89	32	24	119
23	117	87	117	209	53	139	284	207	81	36	27	109
24	124	82	117	243	50	124	266	170	71	33	31	104
25	190	82	117	200	38	117	453	203	65	29	26	99
26	168	78	102	186	45	120	375	269	57	33	28	100
27	139	80	‡ 90	168	39	144	304	220	57	32	29	95
28	128	71	‡ 77	164	51	560	279	151	67	46	32	110
29	117	63	‡ 72	‡ 158		475	243	129	61	118	32	146
30	109	62	‡ 69	‡ 100		344	219	123	53	70	30	359
31	106		‡ 72	‡ 120		320		115		52	31	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	100	62	76.8	0.600	0.69
November	129	61	79.9	.624	.70
December	180	55	83.6	.653	.75
Calendar year, 1928	1 410	55	233	1.82	24.77
January, 1929	247	70	125	.977	1.13
February	825	60	225	1.76	1.83
March	1 260	162	393	3.07	3.54
April	825	159	390	3.05	3.40
May	426	126	252	1.97	2.27
June	311	70	118	.922	1.03
July	192	29	70.3	.549	.63
August	100	17	39.3	.307	.35
September	121	24	60.5	.473	.53
Year ending Sept. 30, 1929	1 260	17	159	1.24	16.85
October	244	34	80.9	.632	.73
November	374	68	122	.953	1.06
December	402	85	149	1.16	1.34
Calendar year, 1929	1 260	17	168	1.31	17.84
January, 1930	402	114	183	1.43	1.65
February	431	87	193	1.51	1.57
March	644	154	271	2.12	2.44
April	374	112	205	1.60	1.78
May	186	76	113	.883	1.02
June	402	50	100	.781	.87
July	72	14	43.8	.342	.39
August	139	5	35.2	.275	.32
September	48	13	29.9	.234	.26
Year ending Sept. 30, 1930	644	5	127	.992	13.43

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Paulins Kill at Blairstown
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	47	21	32.8	0.256	0.30
November	193	25	63.6	.497	.55
December	123	15	44.9	.351	.40
Calendar year, 1930	644	5	109	.852	11.55
January, 1931	178	38	67.3	.526	.61
February	460	55	145	1.13	1.18
March	503	133	220	1.72	1.98
April	431	107	212	1.66	1.85
May .20-31	256	124	179	1.40	.62
June 1-24	560	105	254	1.98	1.77
July					
August	90	45	65.6	.521	.60
September	196	38	58.3	.463	.52
Year ending Sept. 30, 1931					
October	48	24	34.5	.274	.32
November	46	23	30.8	.244	.27
December	121	31	54.9	.436	.50
Calendar year, 1931	560				
January, 1932	348	32	168	1.33	1.53
February	748	134	240	1.90	2.05
March	967	86	228	1.81	2.09
April	931	123	289	2.29	2.56
May	327	64	135	1.07	1.23
June	380	38	94.6	.751	.84
July	90	20	41.5	.329	.38
August	38	10.0	19.6	.156	.18
September	59	11.2	23.1	.183	.20
Year ending Sept. 30, 1932	967	10.0	113	.897	12.15
October	410	17.9	106	.841	.97
November	1 400	219	479	3.80	4.24
December	328	110	191	1.52	1.75
Calendar year, 1932	1 400	10.0	167	1.33	18.02
January, 1933	292	168	205	1.63	1.88
February	703	138	261	2.07	2.16
March	1 480	200	469	3.72	4.29
April	975	200	479	3.80	4.24
May	270	92	165	1.31	1.51
June	224	20	74.2	.589	.66
July	54	18	31.7	.252	.29
August	2 200	20	241	1.91	2.20
September	1 920	122	626	4.97	5.54
Year ending Sept. 30, 1933	2 200	17.9	276	2.19	29.73
October	284	92	142	1.13	1.30
November	128	62	90.3	.717	.80
December	117	48	76.4	.606	.70
Calendar year, 1933	2 200	18	237	1.88	25.57
January, 1934	901	100	258	2.05	2.36
February	118	38	83.5	.663	.69
March	1 230	48	277	2.20	2.54
April	726	219	398	3.16	3.53
May	336	115	198	1.57	1.81
June	161	53	80.5	.639	.71
July	121	29	51.5	.409	.47
August	44	24	31.8	.252	.29
September	361	24	128	1.02	1.14
Year ending Sept. 30, 1934	1 230	24	152	1.21	16.34

Pequest River at Pequest

LOCATION.- Water-stage recorder at Pequest, Warren County, 100 feet above Lehigh & Hudson River Railway bridge, and 300 feet below mouth of Furnace Brook.

DRAINAGE AREA.- 108 square miles.

RECORDS AVAILABLE.- November 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years, 138 second-feet.

EXTREMES.- 1921-34: Maximum discharge, 830 second-feet July 10, 1931 (gage height, 3.59 feet); minimum, 16 second-feet Sept. 20, 21, 1924 and Aug. 7, 1926 (gage height, 0.31 foot).

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	119	69	140	77	62	470	149	280	128	128	40	34
2	119	68	119	150	58	510	149	250	117	117	58	32
3	109	65	100	91	55	470	138	312	108	98	37	36
4	100	84	89	84	56	470	128	280	104	89	41	33
5	100	109	82	62	54	510	149	250	102	82	39	37
6	100	100	77	262	56	550	235	250	108	80	37	59
7	100	87	71	248	433	510	210	330	104	77	36	56
8	91	80	68	129	360	470	172	280	104	72	36	74
9	91	77	66	† 130	343	510	160	235	109	69	36	91
10	89	76	60	† 120	378	435	149	222	100	67	35	98
11	84	71	64	† 200	213	382	160	198	91	64	36	74
12	84	71	61	† 170	129	295	302	198	84	60	† 37	† 65
13	82	71	62	† 150	100	265	400	222	78	58	† 40	† 60
14	80	71	62	76	109	295	382	222	77	55	† 40	† 70
15	80	69	62	84	100	348	312	235	98	52	† 80	† 110
16	80	66	64	91	100	348	330	210	10	50	† 65	† 95
17	80	65	62	89	91	330	418	185	87	49	† 46	† 80
18	79	66	91	91	87	280	400	172	84	50	† 40	† 100
19	79	69	91	129	91	235	365	185	82	91	† 47	† 90
20	80	91	77	129	80	222	312	235	115	93	54	† 70
21	79	89	64	100	54	210	295	235	117	72	48	† 65
22	76	86	49	91	76	210	330	235	111	60	43	† 65
23	74	80	59	100	100	210	330	210	102	56	42	† 55
24	76	72	54	91	82	210	295	185	104	54	41	† 50
25	77	69	54	82	82	198	288	185	222	51	37	† 50
26	76	64	50	68	203	198	510	172	235	49	36	† 50
27	72	62	52	82	489	185	418	160	149	48	39	† 48
28	72	60	56	79	489	172	348	149	138	46	46	† 48
29	71	61	60	59		160	365	138	210	43	38	† 49
30	68	74	55	65		160	312	138	160	42	36	† 50
31	68		50	64		160		128		41	37	

†- Estimated.

Pequest River at Pequest
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	70	76	164	† 95	223	135	124	76	50	30	32
2	97	68	† 75	156	† 95	214	133	133	70	52	31	37
3	233	97	† 70	172	† 95	189	126	133	67	51	31	42
4	172	137	68	172	† 190	167	122	124	61	50	29	41
5	124	116	68	126	156	162	118	114	58	48	27	37
6	100	95	70	118	137	156	116	108	56	47	27	36
7	93	86	73	120	† 130	156	325	106	55	47	26	35
8	83	80	83	128	† 110	373	347	104	55	47	25	35
9	75	75	90	151	† 100	458	258	100	58	47	24	34
10	62	72	86	151	104	429	204	95	153	58	25	35
11	62	68	78	118	91	369	184	90	204	61	24	34
12	61	68	51	128	† 90	373	169	84	178	56	23	32
13	60	68	70	164	† 200	322	169	81	137	51	24	32
14	60	67	97	236	230	279	192	83	108	55	24	34
15	56	72	124	356	192	244	178	99	93	56	30	36
16	52	75	122	276	133	227	192	104	83	52	32	39
17	48	75	110	184	† 120	217	230	102	76	48	27	40
18	48	199	146	159	† 120	207	254	93	75	46	27	36
19	48	220	295	110	† 120	230	233	100	78	43	26	39
20	46	162	276	128	† 160	220	207	112	73	41	26	27
21	45	133	167	† 130	† 240	198	184	106	67	38	27	24
22	64	116	139	† 120	† 280	172	178	95	62	38	27	26
23	181	106	133	† 120	† 300	156	169	86	58	40	54	23
24	149	100	104	† 110	† 300	151	159	83	56	42	67	24
25	116	97	122	† 110	† 300	178	151	118	55	42	61	24
26	95	93	110	† 110	† 300	198	146	112	54	41	46	25
27	84	91	120	† 100	† 260	178	142	97	55	43	38	26
28	75	93	133	† 100	† 240	169	133	86	55	35	35	25
29	68	86	167	† 100		159	128	91	54	37	32	24
30	66	46	167	† 100		146	124	93	51	36	31	22
31	68		156	† 95		137		84		31	30	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	28	68	64		114	236	102	104	93	95	64
2	22	27	68	51		114	266	95	114	86	91	60
3	22	28	52	† 48		110	233	95	100	83	90	66
4	22	26	66	† 46		104	208	91	88	83	88	67
5	22	42	61	† 46	† 50	99	185	88	80	80	83	67
6	22	52	64	† 85		99	170	83	73	84	80	61
7	22	50	64	110		95	179	83	102	93	75	55
8	22	40	66	83		122	202	132	349	95	72	52
9	22	35	66	83		221	185	157	290	100	73	51
10	21	32	62	76		208	165	147	250	525	78	50
11	22	31	50	72		176	160	142	263	705	83	48
12	23	31	50	66		147	155	138	221	630	84	47
13	22	31	48	66		131	140	152	188	582	84	47
14	22	29	46	54		124	131	150	157	536	83	46
15	27	31	35	48	† 75	122	120	147	133	471	81	47
16	27	38	31	† 44		122	116	131	215	387	76	48
17	26	60	† 30	† 40		118	112	114	458	283	73	50
18	28	100	† 32	† 38	297	114	108	100	406	227	73	48
19	27	97	† 34	45	310	112	102	95	328	202	72	47
20	27	73	† 38	56	205	116	99	91	250	185	70	46
21	26	62	37	52	150	133	95	106	199	173	72	46
22	24	55	34	40	136	140	91	133	165	160	72	45
23	25	51	35	† 38	133	129	114	155	155	145	72	43
24	24	47	35	† 36	129	120	133	160	155	142	67	42
25	23	46	34	† 38	126	126	126	142	142	140	62	41
26	22	46	40	† 38	122	140	129	124	136	138	60	43
27	24	42	77	† 42	120	133	152	110	129	129	64	45
28	23	32	106	† 80	114	126	136	99	116	120	76	45
29	24	36	91	76		322	120	90	104	112	78	42
30	25	37	83	61		318	110	81	97	110	76	42
31	29		64	62		253		80		104	70	

†- Estimated.

Pequest River at Pequest
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	46	45		66	110	418	159	61	50	26	25
2	38	42	43		83	106	383	256	60	52	23	22
3	37	41	38		81	99	365	205	60	64	26	23
4	34	38	45		90	93	332	157	56	62	27	25
5	35	37	60		145	91	286	138	54	66	26	25
6	36	36	55		131	91	259	124	52	62	25	26
7	36	† 36	44		114	106	240	126	50	60	28	29
8	38	† 36	33		116	88	205	131	51	55	28	25
9	42	† 34	43		122	78	190	163	48	50	25	23
10	42	† 34	55		110	77	233	147	46	45	27	24
11	41	† 36	62	†85	150	84	250	129	43	41	31	20
12	37	† 36	62		185	86	263	133	46	38	27	21
13	38	† 38	64		168	84	246	133	58	38	24	20
14	38	† 36	75		142	76	218	120	66	37	21	21
15	38	† 36	68		124	56	190	110	60	34	22	19.2
16	45	† 34	60		114	66	170	100	62	31	23	20
17	54	† 32	55		112	84	157	93	90	39	22	20
18	42	† 34	51		114	99	147	88	84	38	25	19.2
19	41	† 36	50		106	99	140	83	70	36	25	19.2
20	38	38	47		100	106	133	78	61	35	26	19.2
21	36	36	47	67	90	104	126	76	56	30	23	19.2
22	35	36	46	† 73	91	122	124	75	75	35	25	19.2
23	35	38	60	81	91	160	120	68	80	37	22	19.2
24	37	30	62	100	86	140	114	66	64	34	23	18.4
25	36	34	55	† 90	76	126	110	64	54	35	25	18.4
26	34	35	48	80	86	131	112	61	50	31	20	19.2
27	34	36	37	93	86	152	131	64	56	32	21	19.2
28	35	36	41	99	90	366	120	83	67	27	23	21
29	38	35	† 42	86	104	418	112	80	60	29	22	22
30	41	41	† 44	104		387	102	72	55	27	21	20
31	43		† 40	106		380		64		25	29	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	130	165	193	126	202	332	208	147	60	32	140
2	20	240	157	152	133	190	416	199	126	64	34	126
3	22	176	155	157	133	188	426	221	112	83	34	126
4	18.4	133	163	147	126	179	422	246	110	83	40	272
5	22	112	163	155	117	170	449	221	108	72	40	339
6	102	102	155	152	87	157	436	230	120	64	36	335
7	157	206	152	145	126	159	422	273	126	56	35	318
8	123	243	147	142	271	281	422	240	118	52	34	256
9	75	202	138	140	225	273	399	208	104	51	35	208
10	55	499	129	145	129	221	368	240	100	50	35	179
11	46	368	120	152	138	151	328	224	102	47	51	160
12	40	339	138	196	133	179	426	208	99	46	47	145
13	36	310	145	170	136	175	523	199	91	46	51	136
14	34	259	136	145	142	291	501	199	84	45	69	147
15	32	230	120	138	155	380	496	199	81	42	56	395
16	32	211	81	133	147	365	479	196	78	47	51	532
17	34	224	104	131	160	335	536	221	76	54	45	559
18	75	218	95	133	160	293	536	188	72	51	45	680
19	93	326	102	150	170	307	514	165	68	47	42	730
20	78	446	102	163	328	391	484	157	66	45	46	705
21	62	399	95	150	418	611	450	214	64	43	52	630
22	56	399	100	160	350	630	402	250	62	42	140	559
23	51	383	106	188	300	630	346	157	60	41	212	496
24	47	361	120	173	276	630	307	142	55	38	462	438
25	46	324	218	147	256	606	286	147	54	36	422	383
26	45	304	233	157	259	582	276	140	54	40	391	321
27	63	246	190	170	204	532	263	131	54	41	380	266
28	73	208	253	163	188	488	246	120	54	40	361	236
29	64	188	240	152		447	230	114	52	40	304	218
30	56	176	205	138		410	218	155	56	34	205	202
31	52		208	133		361		163		31	163	

† Estimated.

Pequest River at Pequest
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	188	† 96	70	88	100	64	414	196	118	61	52	32
2	190	† 97	66	116	95	64	383	188	112	60	46	32
3	185	† 94	67	106	93	116	342	243	106	61	51	31
4	170	† 92	76	97	† 86	311	354	297	99	70	47	35
5	163	† 93	81	125	† 80	559	346	263	93	66	43	38
6	152	† 98	83	193	† 75	559	304	224	91	60	41	36
7	147	†110	81	284	† 73	559	324	199	90	56	38	38
8	140	†104	81	387	† 70	523	310	173	81	86	41	116
9	136	†101	78	387	† 68	342	276	160	78	78	36	188
10	129	† 92	58	354	† 68	218	253	163	89	66	37	145
11	124	† 88	64	310	† 68	165	243	221	106	58	40	97
12	120	† 88	58	263	† 68	157	339	211	97	54	46	76
13	116	† 86	61	246	† 68	165	328	176	108	51	55	64
14	112	† 83	60	269	† 68	193	297	163	97	51	52	62
15	110	† 80	60	250	† 70	185	276	202	81	67	50	78
16	106	† 68	61	221	68	176	297	243	75	80	50	102
17	† 158	† 65	70	196	66	179	365	208	72	72	51	202
18	† 250	† 68	86	140	64	190	314	176	68	60	47	179
19	† 180	† 71	93	165	67	190	276	155	126	52	43	139
20	† 153	† 74	97	145	61	170	300	145	138	50	42	99
21	† 140	† 74	131	138	56	157	286	145	112	47	37	88
22	† 130	† 70	140	128	‡ 66	150	256	147	90	45	37	80
23	† 126	† 73	129	163	‡ 66	131	240	150	80	43	36	76
24	† 132	† 72	122	188	‡ 57	122	233	142	76	41	38	72
25	† 168	† 63	120	168	‡ 51	118	332	168	72	47	38	70
26	† 138	† 65	93	155	‡ 50	120	300	230	64	47	37	67
27	† 124	† 68	70	142	‡ 50	140	263	208	67	46	35	64
28	† 114	68	62	140	‡ 54	396	246	170	80	66	34	62
29	† 110	72	60	136		387	224	147	72	81	35	86
30	† 105	73	60	72		321	208	138	66	66	34	291
31	† 100		‡ 64	101		297		131		56	32	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	119	68	85.0	0.787	0.91
November	109	60	74.7	.692	.77
December	140	49	70.0	.648	.75
Calendar year, 1928	735	49	208	1.93	26.25
January, 1929	262	59	111	1.03	1.19
February	489	54	162	1.50	1.56
March	550	160	322	2.98	3.44
April	510	128	284	2.63	2.93
May	330	128	216	2.00	2.31
June	235	77	118	1.09	1.22
July	128	41	66.5	.616	.71
August	80	35	42.0	.389	.45
September	110	32	63.1	.584	.65
Year ending Sept. 30, 1929	550	32	134	1.24	16.89
October	233	45	85.1	.788	.91
November	220	46	97.7	.905	1.01
December	295	51	118	1.09	1.26
Calendar year, 1929	550	32	140	1.30	17.64
January, 1930	356	95	146	1.35	1.56
February	300	90	175	1.62	1.69
March	458	137	228	2.11	2.43
April	347	116	180	1.67	1.86
May	133	81	101	.935	1.08
June	204	51	79.4	.735	.82
July	61	31	46.1	.427	.49
August	67	23	31.8	.294	.34
September	42	22	31.9	.295	.33
Year ending Sept. 30, 1930	458	22	110	1.02	13.78

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Pequest River at Pequest
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	29	21	23.8	0.220	0.25
November	100	26	44.5	.412	.46
December	106	30	53.8	.498	.57
Calendar year, 1930	458	21	94.5	.875	11.88
January, 1931	110	36	57.5	.532	.61
February	310		102	.944	.98
March	322	95	145	1.34	1.54
April	266	91	149	1.38	1.54
May	160	80	117	1.08	1.24
June	458	73	186	1.72	1.92
July	705	80	226	2.09	2.41
August	95	60	76.5	.708	.82
September	67	41	50.0	.463	.52
Year ending Sept. 30, 1931	705	21	103	.954	12.86
October	54	34	38.5	.356	.41
November	46	30	36.4	.337	.38
December	75	33	50.9	.471	.54
Calendar year, 1931	705		103	.954	12.91
January, 1932			86.4	.800	.92
February	185	66	109	1.01	1.09
March	418	56	138	1.28	1.48
April	418	102	200	1.85	2.06
May	256	61	111	1.03	1.19
June	90	43	59.8	.554	.62
July	66	25	41.1	.381	.44
August	31	20	24.5	.227	.26
September	29	18.4	21.4	.198	.22
Year ending Sept. 30, 1932	418	18.4	76.2	.706	9.61
October	157	18.4	55.8	.517	.60
November	499	102	265	2.45	2.73
December	253	81	150	1.39	1.60
Calendar year, 1932	418	18.4	105	.972	13.21
January, 1933	196	131	154	1.43	1.65
February	418	87	193	1.79	1.86
March	630	151	349	3.23	3.72
April	536	218	398	3.69	4.12
May	273	114	193	1.79	2.06
June	147	52	85.1	.788	.88
July	83	31	49.4	.457	.53
August	462	32	127	1.18	1.36
September	730	126	341	3.16	3.53
Year ending Sept. 30, 1933	730	18.4	196	1.81	24.64
October	250	100	142	1.31	1.51
November	110	63	81.5	.755	.84
December	140	58	80.8	.748	.86
Calendar year, 1933	730	31	182	1.69	22.92
January, 1934	387	72	189	1.75	2.02
February	100	50	68.8	.637	.66
March	559	64	239	2.21	2.55
April	414	208	298	2.76	3.08
May	297	131	187	1.73	1.99
June	138	64	90.1	.834	.93
July	86	41	59.5	.551	.64
August	55	32	42.0	.389	.45
September	291	31	91.2	.844	.94
Year ending Sept. 30, 1934	559	31	131	1.21	16.47

Beaver Brook near Belvidere

LOCATION.- Water-stage recorder 500 feet above mouth and 2 miles east of Belvidere, Warren County.

DRAINAGE AREA.- 36 square miles.

RECORDS AVAILABLE.- May 1922 to September 1934.

AVERAGE DISCHARGE.- 12 years, 47.7 second-feet.

EXTREMES.- 1922-34: Maximum discharge, about 826 second-feet July 15, 1928 (gage height, 3.92 feet); minimum daily discharge, 1.6 second-feet Sept. 25, 26, 1932.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	14	44	‡ 20	19	174	52	93	38	29	6.7	5.9
2	29	14	34	49	‡ 17	166	50	88	34	26	7.0	5.6
3	29	16	27	48	‡ 16	141	45	122	32	20	6.2	5.4
4	27	23	23	34	‡ 14	152	43	123	26	18	8.0	5.0
5	26	27	21	46	‡ 13	231	52	112	26	17	7.3	5.6
6	26	22	20	73	11	366	86	102	30	16	7.0	7.3
7	25	19	18	61	298	295	67	119	27	15	6.2	7.7
8	23	18	16	‡ 46	218	175	52	98	28	14	5.9	16
9	23	18	16	‡ 40	134	162	52	91	29	15	5.6	17
10	21	16	16	61	98	111	57	82	25	14	5.4	16
11	20	17	15	65	74	102	64	75	23	13	6.4	13
12	19	17	15	50	64	86	115	72	22	12	9.1	9.1
13	19	17	14	46	‡ 34	86	192	80	19	12	9.1	8.0
14	19	16	15	‡ 28	48	97	160	80	19	11	11	11
15	18	15	15	‡ 28	32	106	132	84	37	9.5	28	19
16	18	15	15	‡ 34	30	106	141	75	39	9.5	18	15
17	18	14	15	‡ 30	29	104	177	65	27	9.1	10	20
18	18	14	23	30	29	97	154	60	23	9.2	8.4	26
19	19	16	23	45	28	89	141	61	24	32	10	17
20	22	25	20	40	27	84	121	64	20	20	14	12
21	19	21	‡ 14	37	‡ 20	78	117	65	19	13	9.5	10
22	18	18	‡ 13	39	‡ 26	78	123	64	18	12	7.7	7.7
23	18	18	‡ 13	29	32	78	110	55	17	13	7.0	10
24	17	15	‡ 12	26	‡ 30	75	100	50	29	12	6.4	8.4
25	17	15	‡ 10	25	29	70	100	54	125	11	5.9	7.7
26	16	14	‡ 10	33	97	62	141	49	40	10	5.4	7.7
27	15	13	‡ 10	38	251	54	112	46	26	9.1	11	7.0
28	15	14	‡ 12	26	269	55	104	44	33	8.7	13	7.0
29	15	12	13	‡ 24		54	121	43	56	8.7	8.4	7.0
30	14	17	13	‡ 20		53	100	40	34	8.0	7.3	7.3
31	14		‡ 10	‡ 20		54		39		7.3	6.4	

‡- Estimated, stage-discharge relation affected by ice.

Beaver Brook near Belvidere
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.3	16	† 34	59	‡ 38	84	46	40	19	9.1	4.0	3.7
2	36	16	† 32	56	‡ 38	82	45	43	19	11	3.5	3.7
3	67	23	† 30	60	37	76	43	43	16	10	3.3	† 6
4	41	40	29	60	39	72	42	38	15	† 10	3.1	† 5
5	33	29	25	54	52	64	35	35	15	† 10	2.9	† 4
6	27	26	26	52	50	65	33	33	14	† 10	4.9	† 4
7	25	24	26	46	48	64	101	32	13	† 11	3.1	† 4
8	20	22	28	49	41	140	97	37	13	† 11	2.9	† 4
9	18	22	33	55	38	207	80	33	16	† 13	2.7	† 4
10	16	19	29	54	35	177	69	27	53	† 16	2.6	† 4
11	15	19	26	47	† 34	157	66	25	57	† 15	2.4	† 4
12	15	18	‡ 26	47	† 34	157	61	25	38	† 11	2.4	† 4
13	15	18	‡ 28	62	† 40	137	61	23	30	10	2.6	† 5
14	14	18	32	72	† 60	117	69	22	26	10	2.6	3.5
15	12	19	39	106	56	95	60	37	22	15	5.6	3.3
16	12	19	41	98	53	91	65	37	19	11	4.5	3.7
17	11	19	36	86	‡ 46	86	76	32	16	8.7	3.5	5.9
18	10	60	50	74	‡ 46	82	80	29	17	8.0	3.5	3.7
19	11	86	93	‡ 65	48	91	74	35	17	† 7	3.3	3.3
20	9.5	66	88	‡ 60	74	81	68	38	14	† 6	4.7	2.9
21	9.5	59	77	‡ 55	93	72	62	31	13	† 5	4.5	3.1
22	14	54	‡ 65	‡ 50	95	57	61	26	11	† 5	4.2	2.6
23	46	49	59	50	93	56	59	25	11	† 5	13	2.2
24	29	46	‡ 44	50	95	57	54	22	10	† 7	13	3.1
25	22	46	‡ 46	‡ 50	93	66	53	43	11	† 8	7.7	3.3
26	19	43	‡ 46	‡ 48	100	72	50	36	10	† 6	7.8	4.0
27	17	41	47	48	104	62	48	29	17	† 4	5.6	3.3
28	16	41	48	‡ 48	93	60	46	26	13	4.0	5.9	3.9
29	14	† 38	61	48		56	42	30	10	5.3	5.1	2.6
30	13	† 26	60	45		50	40	26	8.7	4.0	5.6	2.6
31	16		56	‡ 42		49		25		3.5	4.2	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	6.5	‡ 18	‡ 20	‡ 26	52	102	28	29	26	26	14
2	2.9	4.5	‡ 14	‡ 19	‡ 24	50	117	26	25	24	25	15
3	2.9	3.5	‡ 12	17	‡ 24	46	108	28	21	23	25	22
4	2.9	3.3	‡ 11	16	‡ 22	45	97	27	19	23	26	19
5	2.7	7.3	11	21	‡ 22	42	84	25	18	21	24	17
6	2.6	12	10	59	‡ 22	40	78	23	17	26	22	16
7	3.4	7.9	11	57	‡ 22	37	80	23	23	27	20	15
8	2.7	6.3	12	35	‡ 22	39	82	32	82	25	19	14
9	2.6	5.3	11	‡ 38	‡ 22	66	72	40	66	25	20	12
10	2.4	4.2	11	‡ 36	‡ 20	57	65	33	54	166	24	13
11	2.2	4.5	10	‡ 32	‡ 22	50	64	34	59	636	30	12
12	2.0	4.0	11	35	‡ 26	47	59	34	50	452	29	11
13	2.0	4.0	12	33	29	44	54	40	44	298	27	11
14	2.0	4.0	10	‡ 30	‡ 32	43	49	† 40	37	214	23	10
15	3.5	5.3	‡ 9	‡ 24	‡ 40	41	46	† 36	33	168	22	11
16	4.0	5.3	‡ 8	‡ 22	‡ 42	42	45	33	53	137	24	8.7
17	3.5	19	‡ 8	‡ 20	‡ 61	40	42	29	181	115	21	9.5
18	5.6	40	8.0	21	‡ 167	38	40	26	180	95	17	10
19	5.8	32	7.7	31	141	38	36	24	134	65	16	9.1
20	3.7	22	6.3	38	93	42	36	23	102	70	15	10
21	3.5	19	‡ 8	33	75	44	33	30	80	66	14	8.0
22	4.5	17	‡ 8	‡ 30	68	45	32	38	66	60	12	10
23	3.5	13	7.7	24	66	44	40	39	60	54	12	7.7
24	3.7	13	‡ 8	24	64	39	39	37	59	52	12	7.8
25	3.5	12	‡ 7	‡ 24	61	44	35	33	49	50	13	6.3
26	2.9	12	‡ 8	23	59	49	37	29	44	49	11	7.3
27	2.6	10	21	28	56	44	46	26	43	44	15	9.2
28	2.6	‡ 9	36	33	52	42	37	24	37	40	20	7.0
29	3.6	‡ 9	36	34		98	35	22	33	36	21	8.6
30	4.2	‡ 7	29	33		117	31	19	29	34	17	8.7
31	6.0		38	27		104		18		32	16	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Beaver Brook near Belvidere
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	7.0	8.7	10	† 30	38	171	57	15	8.4	2.9	6.5
2	7.7	5.3	6.3	17	† 40	34	154	93	16	8.7	3.7	3.2
3	5.6	6.0	5.3	20	† 50	32	132	66	16	8.4	3.5	2.4
4	5.6	6.6	7.7	18	† 55	30	112	56	14	8.7	3.1	2.4
5	4.5	6.0	15	18	† 60	27	98	50	13	11	3.3	2.4
6	5.6	5.6	9.4	30	55	28	89	47	13	9.5	2.7	6.4
7	5.1	5.3	8.1	70	53	39	81	46	13	8.4	3.7	3.5
8	5.1	5.6	‡10	66	57	‡ 34	75	48	11	7.8	3.1	2.7
9	7.9	4.2	8.8	65	54	‡ 26	74	53	11	6.3	2.6	2.2
10	5.3	4.5	12	61	50	‡ 26	88	46	10	6.6	2.8	2.1
11	6.0	6.5	12	55	61	‡ 28	98	43	10	5.1	3.3	2.0
12	4.2	5.9	12	49	57	27	95	46	9.5	5.3	2.7	2.0
13	4.5	6.0	15	47	56	25	84	44	17	4.2	2.4	1.8
14	6.0	5.7	22	45	52	25	76	38	17	4.5	2.2	1.8
15	6.8	5.3	20	43	47	‡ 22	70	33	15	4.0	2.2	1.8
16	8.6	4.2	15	40	44	‡ 22	65	34	12	4.5	2.1	2.0
17	7.7	5.3	14	34	42	24	60	29	16	5.4	2.1	1.8
18	6.6	4.8	12	37	47	33	57	25	15	4.2	2.7	1.8
19	5.3	6.0	12	32	40	33	53	25	12	5.0	3.1	1.8
20	7.2	5.3	10	30	38	34	47	23	12	5.7	2.6	1.8
21	5.1	5.1	11	29	35	34	47	23	11	4.2	2.4	1.9
22	5.1	4.0	12	32	36	42	43	20	22	5.3	2.2	2.1
23	5.1	3.3	18	32	35	49	42	18	20	5.4	2.1	1.8
24	5.3	3.7	17	38	‡ 30	† 48	37	15	12	4.2	2.1	1.7
25	4.8	4.5	12	36	‡ 28	† 42	37	16	11	3.5	2.1	1.6
26	4.2	3.7	12	32	30	45	38	15	10	4.7	2.0	1.6
27	6.0	3.7	‡ 9	36	31	46	47	18	11	3.3	2.0	2.0
28	5.1	5.1	‡10	34	34	125	41	26	15	3.1	2.0	2.5
29	5.6	4.5	‡12	31	42	189	35	21	12	3.8	1.8	2.1
30	7.6	5.0	‡11	40		171	33	19	10	2.9	1.7	2.0
31	7.7		‡10	† 48		152		18		3.6	7.3	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	52	68	73	44	79	119	54	37	9.8	3.8	43
2	2.1	108	67	63	47	73	158	52	31	11.7	4.3	39
3	2.0	86	64	59	44	68	145	69	27	19.0	3.7	39
4	2.0	68	60	59	42	64	135	71	29	16.6	4.6	119
5	2.5	59	59	62	39	58	125	56	29	13.6	4.3	246
6	62	53	55	56	‡ 34	54	112	64	34	10.0	4.1	221
7	66	101	52	53	39	56	125	76	29	8.8	3.3	177
8	30	123	51	52	89	97	119	60	26	7.7	4.2	137
9	18.2	102	47	52	‡ 55	82	104	55	23	7.7	4.5	104
10	14.6	194	43	53	‡ 44	67	97	67	31	6.9	4.2	84
11	12.2	250	39	54	‡ 48	‡ 50	89	58	30	6.6	7.2	70
12	9.4	201	47	63	‡ 44	54	146	53	25	6.3	6.0	62
13	8.5	163	47	51	‡ 46	62	224	53	22	6.0	5.8	53
14	7.7	130	44	46	‡ 48	104	195	55	19.4	5.4	12.2	64
15	6.9	112	41	44	‡ 50	125	171	54	18.2	6.1	9.2	191
16	6.6	97	‡36	44	‡ 50	125	152	54	16.0	6.3	6.6	469
17	8.6	100	‡34	44	‡ 55	117	183	63	16.6	8.2	6.0	421
18	27	89	‡28	45	55	108	198	51	13.6	8.1	5.4	302
19	25	142	‡32	51	58	112	171	45	13.2	6.3	6.2	224
20	19.9	294	‡32	52	110	150	147	44	12.7	5.2	11.3	180
21	16.0	254	‡30	46	163	342	128	65	11.3	5.8	10.3	152
22	14.1	201	‡30	54	140	529	115	51	10.4	5.2	50	125
23	13.2	163	‡34	62	133	379	102	44	10.4	5.2	83	106
24	13.6	137	36	54	125	281	93	42	8.8	4.3	176	102
25	12.7	123	63	51	‡ 110	218	84	44	8.5	5.5	211	91
26	12.2	123	68	56	‡ 95	195	82	40	8.8	4.9	158	81
27	22	103	60	58	94	177	73	37	10.5	5.0	119	65
28	23	84	84	55	87	152	67	35	9.7	4.6	88	62
29	18.2	71	81	52		130	62	34	8.5	3.8	64	59
30	15.5	70	78	48		110	58	46	8.8	3.5	56	54
31	14.6		79	46		100		42		3.5	47	

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Beaver Brook near Belvidere
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	23	14.6	‡ 20	‡ 30	20	152	53	32	12.2	9.2	4.3
2	56	23	14.1	29	‡ 29	25	150	50	29	11.7	8.5	3.7
3	48	22	13.2	25	‡ 28	146	133	72	26	14.3	8.5	3.5
4	44	22	19.4	23	‡ 26	316	140	84	25	17.3	8.1	3.8
5	41	19.4	† 21	38	‡ 24	330	145	65	23	15.2	6.6	4.4
6	40	23	† 21	60	‡ 23	204	128	56	21	11.7	5.4	3.4
7	37	26	† 20	86	‡ 22	112	133	51	19.9	10.4	6.7	4.2
8	36	25	† 19.0	159	‡ 21	76	125	44	17.7	19.6	5.5	26
9	34	24	† 16.0	171	‡ 21	65	108	41	17.2	18.8	5.8	42
10	33	21	‡ 12.0	152	‡ 21	52	95	45	19.4	13.5	5.4	27
11	29	21	‡ 11.3	133	21	48	96	75	26	10.4	6.0	17.1
12	29	19.4	‡ 10.5	110	21	47	163	55	25	9.8	6.7	13.7
13	28	21	11.3	100	21	46	152	48	36	8.5	8.1	10.6
14	27	20	10.4	106	‡ 20	53	137	45	29	8.8	10.0	10.4
15	23	18.8	11.3	93	22	46	130	60	23	10.6	8.4	14.6
16	24	15.5	12.4	81	18.2	45	123	67	19.4	14.1	7.1	18.2
17	41	15.5	11.6	70	21	45	155	53	16.6	11.4	6.6	42
18	60	16.2	19.2	‡ 48	17.7	48	133	47	15.9	8.8	6.3	38
19	43	14.6	18.2	54	19.9	46	117	42	32	8.1	5.7	27
20	37	17.2	18.5	50	17.7	44	128	39	33	7.3	4.9	23
21	33	17.7	30	46	‡ 24	42	112	40	23	7.3	5.2	19.4
22	30	16.6	34	43	‡ 23	40	97	38	19.4	6.3	4.6	16.6
23	30	17.2	33	62	18.8	34	88	43	18.2	4.9	4.6	15.5
24	31	17.2	29	60	‡ 17.5	33	82	37	16.0	6.6	4.3	15.5
25	40	15.0	30	52	16.6	31	100	47	14.1	5.7	4.7	12.7
26	33	14.6	‡ 17.0	50	15.0	34	81	72	11.7	6.0	5.1	12.7
27	30	16.6	‡ 11.0	44	17.7	41	73	54	12.2	7.6	3.7	10.8
28	27	16.0	‡ 10.2	‡ 43	18.2	113	68	45	18.8	13.5	5.0	10.4
29	25	15.5	‡ 10.0	‡ 41		98	60	40	16.0	24	4.3	19.6
30	25	14.1	‡ 10.0	‡ 22		86	56	38	14.1	15.5	4.2	63
31	24		‡ 14.0	‡ 31		88		35		11.3	3.8	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	32	14	20.3	0.564	0.65
November	27	12	17.0	.472	.53
December	44	10	17.3	.481	.55
Calendar year, 1928	740	10	79.4	2.21	30.03
January, 1929	73	20	38.4	1.07	1.23
February	298	11	71.0	1.97	2.05
March	368	53	118	3.28	3.78
April	192	43	103	2.86	3.19
May	123	39	74.0	2.06	2.38
June	125	17	31.5	.875	.98
July	32	7.3	14.0	.389	.45
August	28	5.4	8.95	.249	.29
September	26	5.0	10.7	.297	.33
Year ending Sept. 30, 1929	368	5.0	43.4	1.21	16.41
October	67	6.3	20.3	.564	.65
November	86	16	34.1	.947	1.06
December	93	25	43.9	1.22	1.41
Calendar year, 1929	368	2.0	47.1	1.31	17.80
January, 1930	106	42	58.3	1.62	1.87
February	104	34	59.8	1.66	1.73
March	207	49	89.7	2.49	2.87
April	101	33	59.5	1.65	1.84
May	43	22	31.7	.881	1.02
June	57	8.7	18.8	.522	.58
July	16	3.5	8.70	.242	.28
August	13	2.4	4.67	.130	.15
September	6.0	2.2	3.75	.104	.12
Year ending Sept. 30, 1930	207	2.2	36.0	1.00	13.60

†- Estimated.
‡- Estimated, stage-discharge relation affected by ice.

Beaver Brook near Belvidere
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	6.0	2.0	3.31	0.092	0.11
November	40	3.3	10.7	.297	.33
December	38	6.3	13.5	.375	.43
Calendar year, 1930	207	2.0	30	.833	11.33
January, 1931	59	16	29.6	.822	.95
February	167	20	49.3	1.37	1.43
March	117	37	50.6	1.41	1.63
April	117	31	57.4	1.59	1.77
May	40	18	29.6	.822	.95
June	181	17	57.6	1.60	1.78
July	636	21	102	2.83	3.26
August	30	11	19.9	.553	.64
September	22	6.3	11.3	.314	.35
Year ending Sept. 30, 1931	636	2.0	36.1	1.00	13.63
October	8.6	4.2	5.97	.166	.19
November	7.0	3.3	5.12	.142	.16
December	22	5.3	11.9	.331	.38
Calendar year, 1931	636	3.3	35.8	.994	13.49
January, 1932	70	10	37.9	1.05	1.21
February	61	28	44.4	1.23	1.33
March	189	22	49.4	1.37	1.58
April	171	33	72.6	2.02	2.25
May	93	15	35.8	.994	1.15
June	22	9.5	13.4	.372	.42
July	11	2.9	5.67	.158	.18
August	7.3	1.7	2.73	.076	.09
September	6.5	1.6	2.39	.066	.07
Year ending Sept. 30, 1932	189	1.6	23.8	.661	9.01
October	66	2.0	16.4	.456	.53
November	294	52	128	3.56	3.97
December	84	28	51.3	1.42	1.64
Calendar year, 1932	294	1.6	38.2	1.06	14.42
January, 1933	73	44	53.5	1.49	1.72
February	163	34	71.0	1.97	2.05
March	529	50	139	3.86	4.45
April	224	58	126	3.50	3.90
May	76	34	52.7	1.46	1.68
June	37	8.5	19.3	.536	.60
July	19.0	3.5	7.34	.204	.24
August	211	3.3	38.0	1.06	1.22
September	469	39	138	3.83	4.27
Year ending Sept. 30, 1933	529	2.0	69.7	1.94	26.27
October	60	23	35.1	.975	1.12
November	26	14.1	18.9	.525	.59
December	34	10.0	17.2	.478	.55
Calendar year, 1933	529	3.3	59.4	1.65	22.39
January, 1934	171	20	67.8	1.88	2.17
February	30	15.0	21.3	.592	.62
March	330	20	79.2	2.20	2.54
April	163	56	115	3.19	3.56
May	84	35	51.0	1.42	1.64
June	36	11.7	21.6	.600	.67
July	24	4.9	11.3	.314	.36
August	10.0	3.7	6.10	.169	.19
September	63	3.4	17.8	.494	.55
Year ending Sept. 30, 1934	330	3.4	38.6	1.07	14.56

Musconetcong River at outlet of Lake Hopatcong

LOCATION.- Water-stage recorder at highway bridge 300 feet downstream from Lake Hopatcong Dam, in Landing, Morris County.

DRAINAGE AREA.- 25.6 square miles.

RECORDS AVAILABLE.- July 1928 to September 1934.

AVERAGE DISCHARGE.- 6 years, 36.6 second-feet.

EXTREMES.- 1928-34: Maximum discharge, 344 second-feet Aug. 27, 1928 (gage height, 2.61 feet); minimum daily discharge, 9.2 second-feet Jan. 3, 1932.

REMARKS.- Flow regulated by storage in Lake Hopatcong. Station built and maintained by Morris Canal & Banking Co.

Daily discharge, in second-feet, 1928

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	97	110	148	11	127	67	44	21	52	118	44
2	66	127	89	12	118	74	44	22	31	118	40
3	14.2	127	105	13	118	67	44	23	84	118	31
4	15.1	89	101	14	137	67	44	24	94	118	31
5	21	127	67	15	157	67	43	25	90	163	30
6	60	144	59	16	147	45	43	26	56	282	30
7	66	138	45	17	120	60	43	27	43	344	29
8	70	81	45	18	52	112	43	28	104	316	29
9	88	67	44	19	23	118	44	29	178	302	29
10	137	67	44	20	38	118	44	30	167	302	29
								31	147	209	

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	27	25	24	36	27	11.2	147	25	27	12.0	11.6
2	29	27	25	24	31	42	11.6	147	22	26	12.0	11.6
3	29	28	25	24	27	58	11.6	127	18.3	21	17.0	26
4	29	28	24	24	27	60	11.2	102	16.9	16.4	19.7	31
5	29	28	24	24	27	68	11.2	100	15.5	16.4	19.7	31
6	29	27	23	24	27	86	11.6	102	17.8	16.9	18.0	31
7	29	27	23	42	27	80	12.0	108	16.4	16.0	12.0	31
8	29	27	28	51	27	46	13.3	102	20	15.5	12.0	31
9	28	27	31	55	27	29	16.0	86	21	15.5	12.0	31
10	28	27	31	57	27	29	24	60	20	14.6	12.0	31
11	28	27	31	57	27	29	27	50	16.9	14.2	12.0	31
12	28	27	31	57	27	28	75	34	15.5	12.9	12.0	30
13	28	27	31	58	27	28	119	42	14.6	12.5	12.0	30
14	28	26	37	58	27	28	127	74	14.2	12.5	12.0	30
15	28	26	41	60	27	29	127	82	15.5	12.5	12.0	30
16	28	26	41	60	27	29	178	78	16.9	11.6	11.6	30
17	24	26	41	58	27	18	188	70	16.9	11.6	11.6	30
18	28	26	41	58	27	11.2	178	63	18.8	11.6	11.6	30
19	28	25	41	58	27	11.2	167	70	19.2	12.0	12.0	30
20	28	24	46	58	27	11.2	118	80	21	12.5	12.0	30
21	28	24	44	58	27	11.2	127	84	19.7	12.0	12.0	30
22	28	24	42	58	27	11.2	147	80	19.2	12.0	11.6	30
23	28	24	42	58	27	11.2	137	74	17.8	12.0	11.6	30
24	28	25	42	58	27	11.2	108	68	16.9	12.0	11.6	30
25	28	25	42	58	27	11.2	102	71	21	12.0	11.6	30
26	28	25	42	57	27	11.2	167	66	31	12.0	11.6	30
27	28	24	42	57	27	11.2	167	61	28	12.0	11.6	30
28	27	24	42	44	27	11.2	167	58	29	11.6	11.6	30
29	27	24	42	36		11.2	167	57	36	12.0	11.6	30
30	27	24	32	36		11.2	157	29	28	12.0	11.6	30
31	27		24	36		11.2		26		12.0	11.6	

Musconetcong River at outlet of Lake Hopatcong
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	28	29	29	32	62	11.2	31	12.0	14.6	13.3	11.6
2	29	29	29	29	31	62	11.2	34	12.0	16.4	13.3	25
3	31	30	29	29	31	62	11.2	34	11.6	16.0	13.3	29
4	32	31	29	29	31	62	11.2	31	11.6	15.6	12.9	30
5	31	32	29	29	31	62	11.2	26	11.6	13.7	12.9	30
6	31	31	29	29	31	41	11.6	24	11.6	14.2	12.9	31
7	31	31	29	29	31	33	11.6	24	11.6	13.7	12.9	31
8	31	31	29	29	31	32	11.6	25	12.0	12.9	12.0	31
9	30	31	29	29	31	32	11.6	25	12.0	12.5	12.0	31
10	30	30	29	29	31	17.9	11.6	22	35	16.0	12.0	31
11	30	30	29	29	31	10.8	13.7	19.2	55	13.7	12.0	31
12	30	30	29	29	31	10.4	14.6	16.0	60	13.3	12.0	31
13	30	30	29	29	31	10.4	17.3	15.5	57	12.0	12.0	31
14	30	30	29	30	31	10.4	24	19.5	53	14.2	12.0	31
15	30	30	29	48	31	10.4	27	20.0	48	13.7	12.0	31
16	30	30	29	57	31	10.4	35	17.3	41	12.9	12.0	30
17	30	29	29	58	31	11.2	45	16.4	40	12.0	12.0	20
18	30	29	29	58	31	11.2	50	16.9	47	11.6	12.0	11.6
19	30	30	29	58	42	11.2	54	17.8	47	11.6	12.0	22
20	30	30	29	58	61	11.2	53	17.8	41	11.6	12.0	31
21	30	29	29	58	61	11.2	52	16.0	36	11.6	12.0	31
22	30	29	29	58	61	11.2	51	15.1	30	11.6	12.0	31
23	30	29	29	58	62	11.2	48	14.6	25	11.6	12.0	31
24	29	29	28	58	62	11.2	43	16.4	21	12.0	12.0	31
25	29	29	28	58	62	11.2	41	18.8	21	12.0	11.6	31
26	29	29	28	58	62	11.2	39	16.0	18.8	12.0	11.6	31
27	29	29	28	58	62	11.2	37	13.7	21	12.0	11.6	31
28	29	29	29	57	62	11.2	36	13.7	18.8	11.6	11.6	31
29	29	29	29	57		11.2	33	14.2	16.9	11.6	11.6	31
30	29	29	29	56		11.2	31	13.7	14.2	11.6	11.6	33
31	29		29	40		11.2		13.3		12.9	11.6	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	26	24	10.0	25	25	12.0	70	52	24	13.7	11.2
2	35	26	24	10.0	15.3	25	11.2	67	46	21	12.9	11.2
3	31	26	24	10.0	10.4	25	11.6	64	40	17.8	13.3	11.6
4	31	27	24	10.0	10.4	15.5	11.6	58	34	16.9	15.5	11.6
5	31	27	24	14.7	10.4	10.8	11.2	54	32	17.3	14.6	11.6
6	31	25	24	24	10.4	10.8	14.5	51	27	18.8	13.7	11.6
7	29	25	24	24	10.0	10.4	13.8	51	28	20	13.3	11.6
8	29	27	28	24	10.0	10.4	12.5	64	57	20	13.3	27
9	29	44	31	24	10.0	10.8	15.5	77	55	30	12.0	33
10	29	45	31	24	19.3	10.4	16.9	80	55	136	13.3	33
11	29	32	28	26	24	10.4	23	86	55	299	15.5	33
12	28	17.8	23	26	24	10.4	25	83	50	302	16.0	32
13	28	17.8	23	26	24	10.4	24	83	43	255	13.7	32
14	27	17.8	23	26	25	10.8	27	77	39	257	13.3	31
15	27	22	23	26	25	10.8	27	74	36	268	14.6	33
16	27	25	23	26	25	10.8	25	64	54	242	18.3	32
17	27	24	23	26	25	10.8	24	64	108	203	16.4	31
18	27	24	23	25	25	10.8	25	56	112	175	14.6	31
19	27	24	23	25	25	10.8	24	51	102	153	14.2	31
20	27	24	23	25	25	10.8	23	46	92	129	14.6	31
21	27	24	23	25	25	10.8	22	60	84	116	14.6	31
22	27	24	23	25	25	10.8	24	66	67	106	15.1	31
23	27	24	23	25	25	10.8	46	80	63	87	14.6	31
24	26	24	23	25	25	10.8	49	76	58	62	12.0	31
25	26	24	14.1	25	25	10.8	45	70	50	33	11.2	31
26	26	24	10.4	25	25	10.8	58	67	44	22	11.2	31
27	26	24	10.4	25	25	10.8	76	62	42	20	11.2	31
28	26	24	10.4	25	25	10.8	76	55	37	18.8	11.2	31
29	26	24	10.4	25		10.8	78	50	32	16.9	11.2	31
30	26	24	10.4	25		10.8	76	47	27	17.3	11.2	31
31	26		10.0	25		10.8		45		15.5	11.2	

Musconetcong River at outlet of Lake Hopatcong
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	53	28	10.0	10.0	27	24	37	13.3	11.6	18.1	10.8
2	31	40	28	9.6	10.0	27	42	48	13.7	11.6	12.5	10.8
3	31	31	28	9.2	10.0	21	62	44	12.9	11.6	14.6	10.8
4	31	30	28	10.0	10.0	11.2	109	39	12.9	11.6	12.9	10.8
5	30	30	28	10.4	10.4	10.8	123	38	13.3	11.6	11.6	10.4
6	29	30	28	10.4	10.4	10.8	118	35	12.9	11.6	11.6	22
7	29	30	28	10.4	10.4	10.4	106	36	12.9	11.6	11.6	26
8	29	30	28	10.4	10.4	10.8	98	46	12.5	11.6	11.6	26
9	28	29	28	10.0	10.4	11.6	97	49	12.0	11.6	11.2	26
10	29	29	28	10.0	10.4	10.8	108	49	12.0	11.6	11.6	27
11	29	29	28	10.0	10.8	10.8	100	44	11.6	11.6	11.6	27
12	29	30	28	10.0	10.8	10.8	100	42	12.0	11.6	11.2	27
13	28	30	28	10.0	10.8	10.8	98	38	12.0	11.6	11.2	27
14	28	29	26	10.0	10.8	10.8	97	34	11.6	11.6	11.2	27
15	28	29	25	10.0	20	10.8	94	32	11.2	11.6	11.2	27
16	28	29	25	10.0	27	10.4	45	30	11.2	11.6	11.2	27
17	28	29	25	10.0	27	10.4	31	30	12.5	11.6	11.2	27
18	28	29	25	10.0	27	10.4	30	27	12.0	11.6	11.6	27
19	28	29	25	10.0	27	10.4	31	23	11.6	11.6	11.6	27
20	28	29	25	10.0	27	10.4	31	19.7	11.2	11.6	11.2	27
21	28	29	25	10.0	27	10.8	31	18.8	11.2	11.6	11.2	27
22	28	29	25	10.0	27	10.8	31	19.7	11.6	12.0	11.2	26
23	28	29	25	10.0	27	10.8	30	16.0	11.6	12.0	11.6	26
24	42	29	16.5	10.0	27	10.8	27	14.2	11.6	11.6	11.6	27
25	54	29	10.4	10.0	27	10.8	25	12.9	11.2	11.6	11.2	27
26	54	29	10.0	10.0	27	10.8	26	12.9	11.2	11.6	10.8	27
27	54	29	10.0	10.0	27	10.8	29	14.5	11.6	30	10.8	26
28	53	29	10.0	10.0	27	11.2	28	19.2	11.6	39	10.8	26
29	50	29	10.0	10.0	27	11.2	27	17.3	11.6	39	10.8	26
30	50	29	10.0	10.0		11.2	25	15.5	11.6	40	10.8	26
31	53		10.0	10.0		11.8		13.7		34	10.8	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	30	190	184	12.5	33	74	48	31	12.7	12.0	73
2	25	29	190	186	12.5	33	88	47	25	13.3	12.0	35
3	25	29	188	186	12.5	33	94	55	24	16.6	12.0	27
4	25	29	188	186	12.5	33	102	62	24	12.9	12.0	63
5	25	29	192	184	12.5	33	102	52	25	12.9	12.0	94
6	25	29	197	184	12.5	33	100	57	37	12.5	11.6	103
7	25	29	195	184	12.5	33	110	58	33	12.5	12.0	103
8	25	29	178	184	12.5	34	106	54	32	12.5	12.0	89
9	25	30	88	182	12.5	34	102	48	28	12.5	12.0	77
10	25	30	34	182	12.5	34	97	55	32	12.5	11.6	61
11	25	36	34	182	20	34	90	51	28	12.5	12.0	48
12	25	50	34	182	31	34	124	48	25	12.0	11.6	44
13	25	50	34	182	32	34	151	47	25	11.6	11.7	42
14	73	50	33	104	32	34	149	48	18.8	12.0	12.5	48
15	103	50	33	12.5	33	35	141	47	16.0	12.0	12.0	150
16	103	50	33	12.5	33	21	135	47	13.3	12.0	11.6	236
17	54	53	33	12.5	33	12.5	157	47	13.3	12.0	12.0	257
18	24	55	33	12.5	33	12.5	173	40	12.9	12.0	11.6	247
19	24	92	33	12.5	33	12.5	180	35	12.5	12.5	11.6	229
20	24	169	33	12.5	33	12.5	159	35	13.3	12.0	11.6	210
21	25	190	33	12.5	33	12.5	133	43	12.5	12.0	11.6	182
22	29	197	33	12.5	33	12.7	121	38	12.5	12.0	11.6	155
23	30	201	33	12.5	33	18.3	103	32	12.5	12.5	13.9	131
24	29	203	33	12.5	33	28	89	31	12.0	12.0	59	118
25	29	206	33	12.5	33	37	84	31	12.0	12.0	139	105
26	29	212	32	12.5	33	53	80	28	12.5	12.0	149	94
27	29	201	31	12.5	33	61	67	25	12.5	11.6	139	82
28	29	199	32	12.5	33	66	58	27	12.5	11.6	167	77
29	30	195	33	12.5		70	54	25	12.0	12.0	161	71
30	30	192	94	12.5		67	49	33	12.5	12.0	133	71
31	30		184	12.5		66		35		12.0	108	

Musconetcong River at outlet of Lake Hopatcong
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	73	51	33	28	28	27	11.6	45	47	19.7	12.0	12.0
2	74	50	31	28	28	27	11.6	45	40	17.8	12.0	12.6
3	74	50	30	28	28	27	11.6	62	39	16.9	12.0	11.6
4	74	50	29	28	28	27	11.2	76	36	21	11.6	24
5	73	49	29	28	28	28	11.6	71	29	18.3	11.6	30
6	73	49	29	28	28	28	11.6	67	26	16.0	11.6	30
7	73	49	29	28	28	28	11.6	64	27	15.8	11.6	30
8	73	49	29	28	28	18	11.6	55	21	24	11.6	31
9	73	49	29	28	28	12.0	11.6	47	16.0	20	12.0	31
10	73	49	29	28	28	12.0	11.2	45	17.8	17.3	12.0	30
11	71	49	29	42	28	11.6	11.6	63	19.2	14.6	12.0	30
12	71	49	29	49	27	11.6	11.6	60	29	12.9	12.0	30
13	71	49	29	49	27	11.6	11.6	52	39	12.0	12.0	29
14	71	49	28	76	27	11.6	12.9	48	35	12.5	12.0	29
15	71	44	28	100	27	11.2	18.3	62	28	12.9	11.6	30
16	71	41	28	100	27	11.6	28	68	26	13.3	12.0	30
17	71	37	28	100	27	12.0	42	60	22	12.5	12.0	31
18	71	33	28	100	27	12.0	48	56	19.7	12.0	12.0	30
19	71	33	28	100	27	12.0	51	51	60	11.6	11.6	56
20	71	33	28	100	27	12.0	61	49	77	11.6	11.2	85
21	71	33	28	100	27	12.0	63	53	68	12.2	11.6	115
22	70	32	28	65	27	11.6	60	49	63	12.9	11.6	143
23	70	32	28	49	27	11.6	56	58	61	12.5	11.6	165
24	70	32	28	47	27	11.6	57	49	51	12.0	12.0	160
25	70	32	28	49	27	11.6	73	63	44	12.0	11.6	133
26	70	33	28	49	27	11.6	63	82	37	12.0	11.6	149
27	70	33	28	50	28	11.6	63	76	31	12.0	11.6	197
28	70	33	28	50	28	11.6	58	67	28	12.0	12.0	206
29	70	33	28	50		11.6	52	61	25	11.6	12.0	206
30	68	33	28	50		11.6	48	55	22	11.6	12.0	148
31	62		28	35		11.2		51		12.0	12.0	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean
July 1928	178	14.2	87.7
August	344	45	137
September	148	29	50.1
October	29	24	28
November	28	24	25.9
December	46	23	34.7
Calendar year, 1928			
January, 1929	60	24	48
February	36	27	27.5
March	86	11.2	28.1
April	188	11.2	96.1
May	147	26	77.4
June	36	14.2	20.3
July	27	11.6	14.2
August	19.7	11.6	12.7
September	31	11.6	28.9
Year ending Sept. 30, 1929	188	11.2	36.8
October	32	29	29.9
November	32	28	29.7
December	29	28	28.9
Calendar year, 1929	188	11.2	36.7
January, 1930	58	29	43.9
February	62	31	41.3
March	62	10.4	22.5
April	54	11.2	28.6
May	34	13.3	19.9
June	60	11.6	28.4
July	16.4	11.6	13.0
August	13.3	11.6	12.2
September	33	11.6	28.7
Year ending Sept. 30, 1930	62	10.4	27.1

Musconetcong River at outlet of Lake Hopatcong
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean
October, 1930	38	26	28.3
November	45	17.8	25.5
December	31	10.0	21.3
Calendar year, 1930	62	10.0	26.0
January, 1931	26	10.0	22.8
February	25	10.0	20.6
March	25	10.4	12.2
April	78	11.2	30.9
May	86	45	64.5
June	112	27	54.0
July	302	15.5	101
August	18.3	11.2	13.6
September	33	11.2	26.7
Year ending Sept. 30, 1931	302	10.0	35.2
October	54	28	34.6
November	53	29	30.5
December	28	10.0	22.6
Calendar year, 1931	302	10.0	36.3
January, 1932	10.4	9.2	10.0
February	27	10.0	18.7
March	27	10.4	12.2
April	123	24	60.8
May	49	12.9	29.5
June	13.7	11.2	12.0
July	40	11.6	15.6
August	18.1	10.8	11.7
September	27	10.4	23.8
Year ending Sept. 30, 1932	123	9.2	23.4
October	103	24	33.9
November	212	29	98.1
December	197	31	82.1
Calendar year, 1932	212	9.2	34.0
January, 1933	186	12.5	87.2
February	33	12.5	25.1
March	70	12.5	34.4
April	180	49	109
May	62	25	42.9
June	37	12.0	19.8
July	16.6	11.6	12.4
August	167	11.6	42.9
September	257	27	111
Year ending Sept. 30, 1933	257	11.6	58.2
October	74	62	71.1
November	51	32	41.3
December	33	28	28.6
Calendar year, 1933	257	11.6	52.1
January, 1934	100	28	54.6
February	28	27	27.5
March	28	11.2	15.4
April	73	11.2	33.5
May	82	45	58.4
June	77	16.0	36.1
July	24	11.6	14.4
August	12.0	11.2	11.8
September	206	11.6	74.8
Year ending Sept. 30, 1934	206	11.2	39.0

Musconetcong River at Hackettstown

LOCATION.- Water-stage recorder 500 feet above Delaware, Lackawana & Western Railroad bridge and 3 miles above Hackettstown, Warren County.

DRAINAGE AREA.- 70 square miles.

RECORDS AVAILABLE.- September 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years, 107 second-feet.

EXTREMES.- 1921-34: Maximum discharge, about 1,080 second-feet Feb. 12, 1925 (gage height, 5.12 feet); minimum, about 2 second-feet July 8, 1927 (gage height, 1.02 feet).

REMARKS.- Part of monthly and annual discharge table corrected for effect of storage in Lake Hopatcong.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	48	93	61	65	214	78	346	86	86	22	18
2	67	48	79	108	61	192	79	383	71	71	22	18
3	65	49	66	79	56	214	75	320	61	58	20	17
4	64	66	59	66	52	225	70	295	59	48	24	23
5	61	86	54	64	5C	308	86	271	58	41	28	38
6	61	70	54	252	52	401	125	283	65	39	38	54
7	60	61	51	212	230	360	108	320	64	39	26	56
8	58	60	48	157	192	272	100	295	64	38	22	71
9	55	61	48	172	152	225	† 85	260	71	36	20	70
10	56	58	49	182	125	182	† 90	214	67	35	19	55
11	55	54	49	172	100	162	† 110	172	59	33	20	50
12	54	53	50	172	86	152	† 220	172	51	31	20	46
13	53	52	50	152	79	162	320	192	45	27	20	43
14	53	52	51	125	70	203	295	203	42	27	24	61
15	50	50	55	134	66	225	271	225	45	26	53	75
16	50	49	60	108	† 65	214	346	214	48	25	40	62
17	50	48	62	125	† 65	192	430	192	49	23	32	64
18	50	48	93	125	† 65	162	401	172	79	24	26	86
19	54	52	93	143	† 70	134	360	182	66	50	32	62
20	54	61	79	152	† 65	125	320	236	100	50	32	52
21	52	56	74	134	† 70	116	295	248	86	38	26	48
22	50	52	64	125	† 75	116	320	260	69	31	23	47
23	52	52	61	116	† 70	116	320	225	55	29	23	46
24	56	48	60	116	† 65	116	295	203	50	26	23	43
25	54	47	59	125	† 65	108	260	203	64	26	22	43
26	51	46	59	108	† 300	100	490	182	108	26	21	44
27	49	45	60	100	† 400	93	460	162	93	26	22	45
28	49	44	66	100	260	86	401	152	86	24	20	45
29	49	44	66	76		79	430	143	116	23	18	44
30	49	51	65	69		75	387	134	100	23	19	45
31	49		55	66		76		108		22	18	

† Estimated.

Musconetcong River near Hackettstown
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	64	64	116	‡ 85	172	66	93	39	35	† 29	26
2	91	64	59	116	93	172	66	100	34	40	26	40
3	143	86	‡‡ 60	116	86	172	67	100	32	40	28	39
4	100	108	‡ 60	116	86	152	65	93	29	39	26	47
5	79	93	60	108	125	143	60	79	28	42	32	45
6	70	79	58	100	‡ 110	134	60	67	28	39	29	44
7	71	75	58	100	‡ 85	125	172	71	28	38	30	49
8	71	72	60	100	‡ 80	225	214	79	26	33	† 29	49
9	69	71	66	100	‡ 75	271	172	72	32	31	30	46
10	62	70	65	100	‡ 75	260	134	61	172	42	32	42
11	55	67	65	93	79	214	116	55	260	45	27	39
12	52	66	‡ 65	93	76	225	116	48	203	36	26	35
13	51	66	66	108	86	192	116	44	172	31	24	34
14	52	65	75	134	134	172	116	43	152	43	22	60
15	52	66	86	225	116	143	125	56	134	65	39	58
16	51	70	79	214	‡ 95	134	134	66	108	61	53	48
17	47	71	78	182	‡ 95	125	162	59	86	52	45	59
18	47	116	106	182	93	116	182	55	100	42	32	100
19	48	134	225	162	93	125	182	59	108	37	24	100
20	49	108	225	143	125	125	172	67	93	33	27	93
21	51	93	192	‡‡ 140	182	108	162	64	79	29	22	62
22	89	86	130	‡‡ 130	192	93	152	54	† 69	30	23	79
23	182	79	‡ 120	‡ 134	192	79	143	48	60	29	79	51
24	134	76	‡‡ 120	‡‡ 120	192	75	134	45	49	30	116	39
25	108	74	‡‡ 110	‡‡ 120	203	86	125	65	48	38	93	44
26	93	72	‡ 110	‡‡ 120	203	93	116	71	44	41	70	51
27	79	72	108	‡‡‡ 110	214	86	108	55	46	42	52	40
28	70	‡‡‡‡ 70	108	‡‡‡‡ 100	192	86	100	48	49	35	38	33
29	62	70	125	‡‡‡‡ 100		86	100	54	47	34	29	32
30	60	‡‡‡‡ 65	134	‡‡‡‡ 95		79	93	54	39	33	25	30
31	62		125	‡‡ 95		71		47		32	22	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	50	59	‡‡‡ 44	48	76	180	151	118	66	49	35
2	30	36	56	‡‡‡ 42	47	80	184	141	123	59	46	29
3	30	27	53	‡‡‡ 40	‡ 34	72	168	139	108	50	47	32
4	34	26	50	36	32	70	151	132	93	48	55	38
5	35	41	46	39	29	64	136	122	71	48	54	36
6	37	55	47	99	28	55	120	105	71	66	53	32
7	80	43	46	113	26	52	122	102	74	76	49	29
8	80	44	45	90	28	79	134	125	225	59	42	26
9	53	39	34	‡ 80	34	190	127	172	250	66	44	29
10	44	28	32	69	‡ 48	160	110	172	230	271	48	42
11	38	25	32	67	‡‡ 48	120	108	170	232	675	48	46
12	38	41	32	67	‡ 48	99	108	162	214	625	59	47
13	39	58	32	71	49	90	98	160	172	490	65	46
14	37	99	32	‡‡ 65	86	83	90	156	156	401	56	47
15	39	64	29	‡‡ 60	76	83	86	154	141	610	50	54
16	39	62	24	‡ 60	69	78	85	143	171	490	53	53
17	39	75	24	55	66	72	78	129	295	373	56	52
18	45	118	24	52	172	67	76	116	308	308	51	51
19	41	100	25	65	149	69	72	104	283	283	49	51
20	39	87	30	78	113	74	65	98	243	250	47	47
21	39	70	33	‡‡ 70	96	76	61	106	203	223	46	47
22	37	44	35	‡‡‡ 60	89	80	60	141	174	203	42	49
23	35	36	39	‡‡‡ 60	85	76	100	170	166	176	39	47
24	35	34	41	53	82	74	129	184	151	152	39	47
25	36	33	‡ 40	‡ 50	79	82	120	172	130	125	36	44
26	38	35	35	50	79	96	125	160	118	99	33	48
27	38	47	82	51	78	89	199	145	111	79	37	53
28	40	43	100	56	78	79	186	125	99	62	54	51
29	41	40	76	56		196	170	113	87	56	49	46
30	41	44	‡‡ 60	56		225	162	104	74	56	39	45
31	50		‡‡ 48	53		190		102		54	46	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Musconetcong River near Hackettstown
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	75	30	28	‡ 55	94	346	109	33	24	17	32
2	45	74	28	38	64	93	320	172	35	26	43	19
3	46	60	27	59	60	89	283	151	37	24	41	29
4	73	54	35	61	65	76	266	127	32	27	33	27
5	132	53	48	56	94	66	271	113	34	37	29	29
6	130	40	52	70	93	70	264	105	36	32	14	48
7	111	36	53	139	87	96	246	105	30	30	29	43
8	55	40	45	149	86	88	221	118	25	28	53	38
9	32	44	48	145	87	71	218	145	22	21	32	38
10	26	45	56	115	80	64	232	141	19	17	13	37
11	23	50	62	87	116	60	246	127	17	16	25	34
12	22	49	69	72	143	56	257	122	21	16	25	32
13	19	49	71	66	136	53	260	115	39	14	22	32
14	20	49	75	65	115	52	243	105	43	14	16	32
15	24	48	82	59	100	47	225	99	35	14	44	32
16	32	48	76	55	94	46	195	90	44	15	43	33
17	46	49	65	50	96	52	138	85	32	16	15	32
18	138	48	59	48	100	67	127	76	33	18	27	33
19	122	49	55	47	93	64	120	69	33	18	86	35
20	39	49	53	44	90	65	111	62	30	18	151	38
21	23	48	49	44	86	66	108	53	27	26	66	38
22	19	46	49	47	83	76	106	51	55	19	36	37
23	22	45	54	50	82	102	96	48	59	15	21	37
24	105	44	55	51	82	98	87	40	46	16	48	36
25	118	30	44	51	78	89	86	36	35	18	30	34
26	113	19	35	50	76	86	87	34	28	18	18	30
27	108	19	30	54	79	94	105	37	28	23	16	30
28	92	22	30	61	86	256	100	53	37	22	16	39
29	79	22	31	61	96	360	86	56	36	20	16	37
30	100	25	30	69		308	79	51	29	16	16	32
31	75		28	72		283		44		15	40	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	132	260	253	61	129	243	154	115	28	21	152
2	28	264	243	241	61	125	295	147	96	71	20	111
3	28	197	241	239	61	122	320	162	82	74	21	90
4	28	156	241	234	60	118	308	207	78	62	33	182
5	46	134	241	232	59	110	308	180	76	47	24	271
6	118	120	239	212	51	105	271	174	94	38	14	232
7	203	158	243	205	56	106	295	197	105	32	13	201
8	129	190	246	207	100	184	308	180	100	28	16	174
9	98	164	230	207	111	201	283	162	89	25	15	152
10	75	260	115	214	98	176	264	170	82	24	18	127
11	59	295	89	221	104	† 120	246	168	79	22	35	110
12	48	260	102	230	‡ 100	† 120	295	156	70	22	36	83
13	40	230	113	230	‡ 110	† 130	445	149	65	20	30	80
14	41	197	111	212	111	† 200	416	149	58	18	52	98
15	90	170	102	89	113	† 240	387	149	48	18	49	401
16	120	168	‡ 85	69	‡ 110	† 220	360	145	43	24	30	692
17	118	182	80	66	111	† 190	401	151	39	36	22	675
18	139	180	† 100	69	105	† 190	475	136	32	29	22	580
19	145	253	† 110	75	105	† 200	445	116	41	23	21	490
20	102	445	† 95	80	143	† 240	416	106	32	24	22	416
21	82	387	† 85	75	210	† 320	360	129	26	29	24	360
22	71	373	† 90	80	203	† 300	333	125	25	24	79	308
23	65	333	† 90	93	190	† 280	308	110	24	22	111	269
24	61	320	86	86	180	† 260	283	98	24	19	401	241
25	59	308	106	78	164	† 240	248	96	23	19	505	218
26	56	308	127	78	160	† 240	250	90	26	24	387	178
27	75	308	127	94	143	† 240	223	82	26	21	333	172
28	82	269	147	80	132	† 240	199	76	24	19	283	156
29	72	269	151	82		239	180	75	24	22	266	145
30	66	269	149	67		225	166	118	25	22	230	139
31	64		246	61		210		127		22	188	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Musconetcong River near Hackettstown
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	132	96	58	‡ 82	‡ 103	‡ 42	241	126	119	47	24	17
2	156	85	57	‡ 82	‡ 103	‡ 50	243	131	110	45	24	18
3	152	83	58	80	‡ 100	‡ 100	213	177	97	42	26	22
4	138	86	65	78	‡ 90	154	202	250	89	49	24	43
5	134	83	67	103	‡ 84	326	193	222	81	51	20	51
6	152	86	61	131	‡ 82	340	167	193	72	47	18	56
7	170	87	62	181	‡ 80	252	165	169	65	45	16	65
8	134	86	60	271	‡ 76	189	160	148	59	68	15	103
9	118	83	60	271	‡ 60	142	154	133	52	69	15	187
10	99	81	‡ 49	234	‡ 63	119	137	128	50	57	17	135
11	98	81	52	198	‡ 64	106	130	179	52	46	26	103
12	102	82	‡ 53	187	‡ 65	97	198	175	62	39	32	87
13	104	81	‡ 53	185	‡ 65	92	195	154	111	36	43	78
14	104	81	‡ 52	198	‡ 64	94	177	139	96	35	43	73
15	100	77	‡ 53	218	‡ 64	94	173	165	78	41	41	90
16	100	71	57	209	‡ 63	92	165	200	66	45	40	103
17	141	66	61	195	61	92	206	177	58	39	42	158
18	184	66	72	177	59	99	202	154	50	35	39	158
19	148	65	69	173	‡ 56	96	191	139	133	28	32	123
20	131	63	72	165	‡ 54	92	209	126	220	25	27	121
21	133	62	87	160	‡ 58	85	213	139	171	21	22	142
22	130	62	85	148	‡ 60	78	195	142	139	19	15	139
23	114	62	83	156	‡ 59	72	181	154	121	19	19	163
24	111	61	82	160	‡ 54	66	175	139	106	19	19	173
25	121	63	81	133	‡ 49	63	218	148	87	21	26	163
26	113	62	80	131	‡ 44	62	206	229	74	26	22	139
27	108	63	‡ 70	124	‡ 41	69	189	215	68	30	17	160
28	106	61	‡ 58	‡ 123	‡ 40	177	179	185	71	34	23	200
29	105	60	‡ 54	‡ 126		187	163	162	63	35	21	218
30	103	59	‡ 52	‡ 96		165	130	146	53	34	19	321
31	102		‡ 58	‡ 103		160		133		27	18	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	71	49	54.9	24.0	0.343	0.40
November	86	44	53.7	41.0	.586	.65
December	93	48	62.3	42.9	.613	.71
Calendar year, 1928	675	44	157	153	2.19	29.76
January, 1929	252	61	126	137	1.96	2.26
February	400	50	110	123	1.76	1.83
March	401	75	174	237	3.39	3.91
April	490	70	254	276	3.94	4.40
May	346	108	223	217	3.10	3.57
June	116	42	69.2	70.1	1.00	1.12
July	86	22	35.5	17.4	.249	.29
August	53	18	24.7	4.52	.065	.08
September	86	17	49	19.8	.283	.32
Year ending Sept. 30, 1929	490	17	103	101	1.44	19.54
October	182	47	74.1	56.6	.809	.93
November	134	64	78.9	66.3	.947	1.06
December	225	58	98.8	113	1.61	1.86
Calendar year, 1929	490	17	110	111	1.59	21.63
January, 1930	225	93	125	128	1.83	2.11
February	214	75	124	133	1.90	1.98
March	271	71	140	188	2.69	3.10
April	214	60	124	147	2.10	2.34
May	100	43	63.6	56.4	.806	.93
June	260	26	79.8	81.1	1.16	1.29
July	65	29	38.6	30.4	.434	.50
August	116	22	38.0	24.1	.344	.40
September	100	26	50.5	18.9	.270	.30
Year ending Sept. 30, 1930	271	22	86.0	86.6	1.24	16.80

‡ Estimated, stage-discharge relation affected by ice.

Musconetcong River near Hackettstown
(Continued)

Monthly and annual discharge in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	80	30	41.2	8.7	0.124	0.14
November	118	26	51.5	47.4	.677	.76
December	100	24	43.3	44.4	.634	.73
Calendar year, 1930	271	22	76.2	75.2	1.07	14.58
January, 1931	113	36	61.5	61.5	.879	1.01
February	172	26	67.7	81.0	1.16	1.21
March	225	52	96.6	149	2.13	2.46
April	199	60	120	157	2.24	2.50
May	184	98	138	135	1.93	2.22
June	308	71	163	158	2.26	2.52
July	675	48	213	208	2.97	3.42
August	65	33	47.7	43.8	.626	.72
September	54	26	43.3	17.6	.251	.28
Year ending Sept. 30,1931	675	24	90.7	92.7	1.32	17.97
October	138	19	65.6	27.9	.399	.46
November	75	19	44.3	13.2	.189	.21
December	82	27	49.2	33.4	.477	.55
Calendar year, 1931	675	19	92.7	90.6	1.29	17.56
January, 1932	149	28	66.5	99.1	1.42	1.64
February	143	55	89.7	117	1.67	1.80
March	360	46	103	157	2.24	2.58
April	346	79	184	188	2.69	3.00
May	172	34	88.4	83.9	1.20	1.38
June	59	17	33.7	27.6	.394	.44
July	37	14	20.4	- 3.6	-.051	-.06
August	151	13	34.9	19.6	.280	.32
September	48	19	34.1	11.7	.167	.19
Year ending Sept. 30, 1932	360	13	67.6	64.4	.920	12.51
October	203	28	78.6	86.8	1.24	1.43
November	445	120	243	298	4.26	4.75
December	260	80	151	118	1.69	1.95
Calendar year, 1932	360	13	93.7	99.9	1.43	19.42
January, 1933	253	61	144	105	1.50	1.73
February	210	81	115	147	2.10	2.19
March	320	105	194	255	3.64	4.20
April	475	166	311	309	4.41	4.92
May	207	75	138	136	1.94	2.24
June	115	23	55.7	40.1	.573	.64
July	74	18	29.3	17.3	.247	.28
August	505	13	107	136	1.94	2.24
September	692	80	250	241	3.44	3.84
Year ending Sept. 30, 1933	692	13	151	157	2.24	30.41
October	184	98	124	67.9	.970	1.12
November	96	59	73.5	39.3	.561	.63
December	87	49	63.9	57.5	.821	.95
Calendar year, 1933	692	13	134	129	1.84	24.98
January, 1934	271	78	157	161	2.30	2.65
February	103	40	66.5	54.2	.774	.81
March	340	42	124	187	2.67	3.08
April	243	130	186	238	3.40	3.79
May	250	126	164	164	2.34	2.70
June	220	50	89.1	84.9	1.21	1.35
July	69	19	37.9	21.7	.310	.36
August	43	15	25.3	12.1	.173	.20
September	321	17	120	109	1.56	1.74
Year ending Sept. 30, 1934	340	15	103	99.9	1.43	19.38

Musconetcong River near Bloomsbury

LOCATION.- Water-stage recorder at highway bridge 1½ miles above Bloomsbury, Hunterdon County, and 9 miles above the mouth.

DRAINAGE AREA.- 143 square miles.

RECORDS AVAILABLE.- July 1903 to March 1907, July 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years (1921-34), 209 second-feet.

EXTREMES.- 1903-7, 1921-34: Maximum stage, 8.0 feet (old datum) on Oct. 10, or 11, 1903 (discharge, not determined); minimum daily discharge, 38 second-feet July 24, 1932.

REMARKS.- Part of monthly and annual discharge table corrected for effect of storage in Lake Hopatcong. Flow regulated by several small water power plants above station.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	201	138	224	148	136	390	178	522	194	201	69	60
2	194	139	184	244	130	412	172	485	170	181	67	60
3	192	138	160	177	127	471	170	483	168	159	69	64
4	191	179	144	153	124	420	163	440	153	136	72	68
5	185	207	137	129	117	649	179	422	152	140	78	63
6	189	180	130	523	118	717	267	438	162	111	74	94
7	169	156	127	492	1 310	607	231	527	158	105	71	262
8	173	152	117	334	394	478	211	450	164	114	74	209
9	171	157	120	329	276	407	186	406	163	101	72	238
10	168	144	127	422	239	321	189	373	161	98	56	126
11	168	144	130	375	203	298	205	309	147	92	78	103
12	162	149	124	316	172	287	382	305	136	92	82	101
13	162	141	133	278	156	289	467	354	129	84	76	97
14	167	141	128	230	151	357	438	350	121	80	83	101
15	153	140	121	253	141	386	406	367	130	98	125	134
16	160	137	130	221	134	374	488	355	127	80	104	118
17	159	123	140	220	135	332	605	321	134	82	77	151
18	158	129	177	225	136	294	585	297	135	81	71	182
19	166	142	181	250	141	258	531	329	150	118	80	129
20	159	156	161	248	135	240	483	364	227	105	83	114
21	149	149	148	228	115	230	434	405	221	96	76	92
22	150	147	127	206	155	223	490	406	172	96	70	93
23	158	142	129	209	148	231	466	360	162	92	69	100
24	161	129	131	199	135	229	428	329	208	78	70	99
25	150	128	129	197	144	223	421	322	411	82	64	92
26	146	128	135	198	678	211	870	302	273	76	71	99
27	142	125	133	180	859	207	723	281	226	75	95	92
28	142	124	139	185	543	186	633	266	204	69	82	76
29	146	114	138	162		176	651	249	242	84	68	86
30	139	138	131	144		173	581	236	213	79	65	102
31	142		131	142		173		220		70	60	

Musconetcong River near Bloomsbury
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	117	‡ 120	209	194	306	172	180	115	134	65	51
2	248	106	‡ 120	211	179	290	169	193	119	107	57	61
3	253	171	‡ 116	216	179	290	169	193	104	99	59	59
4	189	190	121	216	179	273	162	167	100	99	71	62
5	136	160	124	191	290	257	156	167	98	96	68	68
6	124	140	120	182	241	257	152	160	100	104	67	62
7	128	136	119	180	210	241	433	154	82	100	72	61
8	130	131	133	187	194	606	350	167	92	95	64	73
9	117	116	143	191	176	560	283	167	104	92	65	71
10	107	121	128	186	179	462	251	152	265	113	73	68
11	108	121	127	171	167	428	221	144	387	100	72	66
12	98	129	106	178	164	428	207	144	307	102	62	62
13	97	121	143	205	260	375	221	133	264	93	53	66
14	105	120	165	314	290	340	236	142	227	101	40	76
15	104	124	171	383	241	306	221	157	206	107	53	94
16	95	117	164	341	210	273	251	157	182	101	53	86
17	97	125	150	298	210	273	267	144	158	94	56	82
18	85	233	218	292	210	273	283	137	168	94	59	101
19	88	226	388	291	210	290	283	154	178	76	51	143
20	92	188	365	293	241	273	267	157	166	78	52	134
21	99	168	296	264	290	257	251	147	147	82	53	98
22	171	156	257	253	306	226	236	137	137	97	51	92
23	271	139	231	236	306	210	236	128	130	100	98	96
24	212	140	225	244	323	210	221	121	120	145	101	74
25	166	144	208	230	323	226	207	154	113	82	94	68
26	142	133	200	220	375	241	207	150	108	70	78	71
27	132	134	192	220	358	226	193	137	122	73	69	71
28	127	130	206	228	323	210	193	137	108	78	62	66
29	113	134	240	214		210	193	133	109	72	58	61
30	110	118	235	204		194	180	128	115	74	48	68
31	120		218	196		194		126		70	48	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	77	116	86	84	127	319	227	212	142	116	93
2	56	76	97	85	96	135	334	212	199	130	114	89
3	62	74	87	84	80	125	285	212	183	113	116	102
4	56	66	92	82	80	117	258	205	158	102	129	84
5	58	74	89	122	67	115	228	191	145	113	120	88
6	62	95	78	273	66	105	216	181	124	148	114	82
7	68	90	79	196	60	95	223	175	142	154	104	75
8	103	70	86	155	60	163	236	289	375	142	95	74
9	94	74	80	140	100	278	220	263	368	145	97	74
10	78	68	72	131	135	245	204	282	344	710	122	69
11	66	76	67	116	91	199	192	282	358	1 050	117	85
12	64	58	69	120	98	165	187	269	312	875	131	83
13	64	64	61	116	243	146	181	281	260	715	121	83
14	64	98	63	101	373	139	167	271	218	595	125	98
15	73	130	65	97	138	136	159	270	202	675	114	99
16	73	98	63	111	147	139	155	246	367	635	114	97
17	76	205	89	99	205	136	146	222	578	512	120	95
18	77	480	61	101	507	126	139	209	470	442	105	98
19	70	186	60	228	265	124	138	186	420	410	106	86
20	70	151	63	163	205	135	134	173	372	372	106	87
21	70	133	56	133	165	136	129	222	319	333	103	91
22	66	101	68	118	154	138	127	246	280	302	97	89
23	66	83	70	113	148	136	168	294	256	284	97	87
24	66	80	72	101	144	124	210	316	246	258	95	81
25	59	77	60	91	137	134	199	280	225	227	101	79
26	61	74	79	104	134	151	251	252	209	196	84	87
27	74	61	189	107	132	145	297	225	186	179	134	88
28	68	89	180	116	124	137	288	209	176	146	153	88
29	72	104	139	109		414	256	180	170	132	116	86
30	68	80	122	97		390	240	170	154	131	99	80
31	83		90	100		328		170		127	94	

‡- Estimated, stage-discharge relation affected by ice.

Musconetcong River near Bloomsbury
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	107	73	61	‡ 100	134	540	218	90	68	66	52
2	80	113	65	80	‡ 95	128	473	266	85	72	54	52
3	80	103	64	95	98	127	420	242	80	59	58	48
4	79	90	72	105	107	124	375	209	77	60	72	46
5	137	87	100	101	161	103	368	189	74	81	63	48
6	175	82	81	134	144	113	361	180	81	71	63	66
7	164	70	93	286	133	167	336	186	88	71	58	72
8	146	68	83	238	135	152	312	186	72	59	63	70
9	105	79	90	242	132	139	298	215	70	55	66	49
10	74	76	104	204	124	117	347	212	64	52	68	52
11	65	81	102	155	154	105	350	202	55	55	76	49
12	63	82	101	132	195	96	372	209	60	56	72	59
13	60	82	106	118	187	94	358	186	82	50	56	54
14	64	78	120	113	168	‡ 90	330	173	87	48	54	52
15	64	77	115	108	154	‡ 85	308	158	85	48	59	63
16	85	86	112	97	137	‡ 90	280	151	80	46	56	63
17	75	83	100	88	146	96	232	139	97	51	61	68
18	110	81	94	93	150	111	212	130	71	65	68	52
19	175	82	86	84	143	108	192	116	70	47	70	61
20	129	80	84	83	128	106	183	110	74	50	68	76
21	77	80	85	80	118	111	180	102	72	52	108	74
22	66	78	80	85	125	148	180	95	73	58	74	61
23	62	83	91	85	122	168	170	98	90	51	54	66
24	68	76	91	99	117	156	161	85	83	38	54	66
25	145	74	86	100	111	146	154	85	73	52	49	63
26	145	63	74	93	116	135	161	81	69	52	54	74
27	139	63	61	97	115	138	170	80	74	56	46	64
28	134	58	64	96	120	425	173	101	131	63	48	72
29	129	52	66	102	142	538	161	100	77	61	54	65
30	125	65	64	113		458	148	98	72	48	41	65
31	126		63	110		426		95		48	49	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	353	373	360	146	238	471	291	213	114	88	246
2	55	396	346	337	149	227	600	280	193	119	73	213
3	70	303	337	337	149	220	542	303	177	172	68	193
4	56	234	333	333	136	213	564	320	167	141	84	319
5	77	200	329	333	136	203	538	307	171	122	77	382
6	216	177	316	312	130	196	496	320	196	112	71	337
7	284	303	329	299	136	203	546	350	193	98	77	272
8	203	284	329	295	242	378	524	324	193	88	65	264
9	142	246	320	312	203	342	478	295	177	84	66	234
10	119	760	246	324	174	303	454	350	167	92	59	207
11	103	569	174	324	170	220	420	307	155	85	117	193
12	86	435	200	360	213	238	710	287	158	86	91	167
13	79	368	200	337	210	246	746	280	149	81	80	148
14	73	316	193	312	210	373	705	272	139	85	120	224
15	79	264	177	238	220	459	643	276	133	76	115	830
16	133	253	161	161	210	454	600	280	129	85	97	1 150
17	154	284	183	152	203	396	787	295	118	102	90	1 060
18	253	264	193	152	196	329	808	253	116	95	80	915
19	210	654	167	171	200	355	746	231	113	86	76	766
20	167	787	161	167	409	512	684	224	107	81	81	664
21	130	726	164	161	411	788	600	220	103	80	88	578
22	116	643	167	180	364	684	546	242	100	82	224	505
23	106	574	161	193	337	622	505	220	95	78	470	435
24	98	524	171	177	320	542	468	210	94	88	979	406
25	108	492	238	167	291	487	416	207	86	77	915	364
26	96	505	231	177	291	487	411	193	97	78	684	312
27	105	454	227	183	260	496	378	180	100	71	546	291
28	125	416	299	180	232	468	346	177	98	74	440	272
29	114	406	272	167		430	324	177	92	76	396	264
30	103	386	260	164		396	299	238	103	62	337	246
31	98		303	146		368		234		76	284	

‡- Estimated, stage-discharge relation affected by ice.

Musconetcong River near Bloomsbury
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	234	180	125	151	183	‡ 73	478	227	207	116	81	59
2	280	171	116	165	187	‡ 85	425	231	190	114	83	59
3	257	164	122	162	‡ 175	340	382	325	177	111	81	58
4	234	161	133	144	164	897	401	382	171	114	78	70
5	227	161	136	191	152	1 250	355	350	164	116	74	74
6	227	174	130	248	‡ 149	622	316	312	152	113	83	70
7	264	174	130	392	146	459	337	287	142	107	71	93
8	231	167	130	528	‡ 140	337	303	257	131	158	75	249
9	217	161	118	473	119	267	291	242	123	139	73	284
10	193	161	107	406	‡ 130	223	272	234	136	122	68	207
11	190	155	131	342	‡ 135	203	264	295	195	108	77	144
12	193	155	127	303	136	194	373	287	136	100	106	129
13	193	161	118	307	131	200	337	264	190	100	145	111
14	190	158	111	333	121	203	316	249	180	92	93	102
15	187	155	106	320	128	190	299	291	154	115	80	121
16	190	144	119	312	131	187	333	320	139	124	89	145
17	289	139	133	291	133	183	382	295	127	103	83	338
18	320	140	167	272	130	190	342	264	127	101	84	258
19	257	136	148	260	125	190	320	238	352	91	77	191
20	227	136	146	249	112	180	355	224	337	87	81	167
21	217	133	187	238	136	171	346	234	276	78	80	180
22	213	133	175	234	134	161	316	238	231	79	71	192
23	210	134	152	287	131	152	303	246	217	82	59	207
24	200	131	146	268	‡‡ 110	139	291	234	190	76	67	235
25	217	127	146	234	‡ 85	139	355	264	174	95	64	226
26	200	125	132	220	‡‡ 78	142	333	329	152	84	65	201
27	193	137	‡‡ 116	207	‡‡ 72	161	303	316	142	84	69	191
28	187	125	‡‡ 110	213	‡‡ 70	431	287	280	174	88	65	236
29	183	125	‡‡ 105	213		329	272	253	146	101	65	467
30	187	119	‡‡ 105	‡‡ 160		284	249	234	125	97	62	1 050
31	183		‡‡ 115	‡‡ 170		321		224		95	66	

Monthly and annual discharge, in second-feet, 1928-34

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1928	201	139	164	133	0.930	1.07
November	207	114	144	131	.916	1.06
December	224	117	141	121	.846	0.98
Calendar year, 1928	1 080	114	323	319	2.23	30.31
January, 1929	523	129	246	258	1.80	2.08
February	1 310	115	259	272	1.90	1.98
March	717	173	331	393	2.75	3.17
April	870	163	408	430	3.01	3.36
May	527	220	364	357	2.50	2.88
June	411	121	180	181	1.27	1.42
July	201	69	102	83.6	.585	.67
August	125	56	75.5	55.4	.387	.45
September	262	60	114	84.2	.589	.66
Year ending Sept. 30, 1929	1 310	56	210	208	1.45	19.78
October	271	85	134	117	.818	.94
November	233	106	143	130	.909	1.01
December	388	106	185	200	1.40	1.61
Calendar year, 1929	1 310	56	211	213	1.49	20.23
January, 1930	383	171	234	237	1.66	1.91
February	375	164	244	253	1.77	1.84
March	606	194	297	344	2.41	2.78
April	433	152	229	252	1.76	1.96
May	193	121	151	143	1.00	1.15
June	387	82	154	156	1.09	1.22
July	145	70	94.5	86.3	.603	.70
August	101	40	63.6	49.6	.347	.40
September	143	51	77.0	45.5	.318	.35
Year ending Sept. 30, 1930	606	40	167	167	1.17	15.87

‡- Estimated, stage-discharge relation affected by ice.

Musconetcong River near Bloomsbury
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Observed			Corrected		
	Maximum	Minimum	Mean	Mean	Per square mile	Run-off in inches
October, 1930	103	56	69.1	36.6	0.256	0.30
November	480	58	106	102	.713	.80
December	189	56	85.9	87.0	.608	.70
Calendar year, 1930	606	40	150	149	1.04	14.11
January, 1931	273	82	122	122	.853	.98
February	507	60	151	165	1.15	1.20
March	414	95	167	219	1.53	1.76
April	334	127	210	246	1.72	1.92
May	316	170	233	230	1.61	1.86
June	578	124	268	263	1.84	2.05
July	1 050	102	339	334	2.34	2.70
August	153	84	112	108	.755	.87
September	102	69	86.6	60.9	.426	.48
Year ending Sept. 30, 1931	1 050	56	162	164	1.15	15.62
October	175	60	104	66.3	.464	.53
November	113	52	79.3	48.2	.337	.38
December	120	61	86.1	70.4	.492	.57
Calendar year, 1931	1 050	52	163	161	1.13	15.30
January, 1932	286	61	119	151	1.06	1.22
February	195	95	134	161	1.13	1.22
March	538	85	166	220	1.54	1.78
April	540	148	277	280	1.96	2.19
May	266	80	152	147	1.03	1.19
June	131	55	78.5	72.5	.507	.57
July	81	38	56.2	32.2	.225	.26
August	108	41	61.4	46.1	.322	.37
September	76	46	60.7	38.4	.269	.30
Year ending Sept. 30, 1932	540	38	114	111	.776	10.58
October	284	55	123	131	.916	1.06
November	787	177	419	474	3.31	3.69
December	373	161	244	211	1.48	1.71
Calendar year, 1932	787	38	157	163	1.14	15.56
January, 1933	360	146	242	204	1.43	1.65
February	411	130	227	259	1.81	1.88
March	788	196	383	444	3.10	3.57
April	808	299	545	543	3.80	4.24
May	350	177	263	260	1.82	2.10
June	213	86	138	122	.853	.95
July	172	62	91.8	79.8	.558	.64
August	979	59	227	256	1.79	2.06
September	1 150	148	415	406	2.84	3.17
Year ending Sept. 30, 1933	1 150	55	276	282	1.97	26.72
October	320	183	219	163	1.14	1.31
November	180	119	148	114	.797	.89
December	187	105	130	124	.867	1.00
Calendar year, 1933	1 150	59	252	247	1.73	23.46
January, 1934	528	144	268	271	1.90	2.19
February	187	70	130	118	.825	.86
March	1 250	73	287	350	2.45	2.82
April	478	249	331	384	2.69	3.00
May	382	224	272	272	1.90	2.19
June	352	123	179	174	1.22	1.36
July	158	76	103	86.7	.606	.70
August	145	59	77.9	64.7	.452	.52
September	1 050	58	204	193	1.35	1.51
Year ending Sept. 30, 1934	1 250	58	196	193	1.35	18.35

Assunpink Creek at Trenton

LOCATION.- Water-stage recorder at Chambers Street Bridge in Trenton, Mercer County, 1½ miles above mouth. Zero of gage is 24.76 feet above mean sea level.

DRAINAGE AREA.- 89 square miles.

RECORDS AVAILABLE.- July 1923 to September 1934.

AVERAGE DISCHARGE.- 11 years, 108 second-feet.

EXTREMES.- 1923-34: Maximum discharge, 2 400 second-feet Apr. 7, 1924 (gage height, 7.85 feet); minimum daily discharge, 4 second-feet July 21, Aug. 8, and Sept. 2, 1929.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	106	57	110	85	72	465	102	197	56	80	19	6
2	93	56	103	139	51	370	106	173	41	55	23	4
3	93	45	103	108	50	367	78	152	80	47	11	5
4	85	83	96	106	71	293	90	117	64	15	9	6
5	83	105	95	93	55	528	80	127	43	47	31	11
6	55	78	85	218	59	665	79	131	39	21	24	39
7	63	102	84	180	182	450	93	159	45	15	9	26
8	78	74	64	133	186	308	103	139	48	56	4	242
9	72	78	64	134	191	251	101	131	28	48	32	218
10	58	54	83	168	224	146	78	133	58	50	16	165
11	48	56	69	163	169	158	96	89	60	45	11	180
12	57	80	65	138	133	145	153	95	38	36	26	180
13	40	78	66	126	106	140	186	117	46	28	11	128
14	37	55	65	90	90	157	173	102	31	24	33	112
15	71	53	57	82	83	167	169	92	24	46	45	97
16	48	56	62	75	73	145	338	102	39	39	38	93
17	47	40	83	71	69	117	525	92	60	27	19	73
18	64	48	108	80	81	120	435	74	47	19	12	68
19	95	82	108	114	77	116	334	435	45	18	33	67
20	139	62	90	129	74	108	209	315	48	20	39	67
21	139	70	84	115	73	100	179	270	21	4	18	47
22	141	76	74	102	69	95	385	192	107	7	15	36
23	109	76	63	102	62	93	379	145	99	13	13	54
24	108	64	57	104	65	95	300	116	61	11	18	61
25	70	60	55	140	88	102	229	91	51	26	13	56
26	73	76	76	186	408	108	243	87	91	33	30	45
27	52	61	64	150	809	112	202	89	101	16	24	60
28	54	59	68	147	660	104	191	80	50	8	12	61
29	94	29	72	122		101	258	72	32	24	10	52
30	55	83	78	96		82	226	25	46	11	21	70
31	57		91	83		81		75		9	17	

Assunpink Creek at Trenton
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	60	47	160	60	194	75	51	26	14	31	15
2	104	64	71	140	68	180	64	48	61	12	28	55
3	197	112	58	136	81	143	67	11	52	84	27	45
4	149	170	60	131	115	117	62	26	19	43	26	22
5	122	140	51	110	366	108	46	57	9	58	24	8
6	120	139	54	102	257	100	61	44	48	50	22	7
7	109	129	21	93	219	99	129	41	27	68	22	8
8	76	107	54	95	167	506	115	43	13	51	20	46
9	59	88	75	91	117	417	116	38	22	45	32	31
10	52	78	68	82	98	300	101	11	298	86	9	8
11	47	73	66	78	87	232	85	9	171	100	47	22
12	20	† 65	56	78	77	213	66	42	97	97	10	25
13	21	† 60	65	87	286	172	72	41	99	97	9	8
14	56	† 65	73	135	596	148	92	60	97	95	42	7
15	54	† 65	86	240	540	126	86	55	58	71	19	39
16	51	63	87	188	330	115	91	58	64	52	16	19
17	16	74	83	158	198	107	101	44	61	49	11	
18	52	145	174	250	169	107	101	50	25	39	11	
19	25	165	367	234	170	162	104	72	18	11	41	
20	40	146	212	172	171	149	104	50	63	10	12	
21	65	122	182	170	197	163	97	46	16	43	30	
22	65	114	151	149	199	142	87	50	21	56	16	
23	60	102	125	114	189	118	85	49	57	37	56	†20
24	† 70	92	107	88	185	104	78	33	38	21	63	
25	75	82	89	80	212	102	69	16	9	56	69	
26	74	72	84	74	215	107	58	50	17	33	55	
27	77	66	84	72	297	100	51	54	62	46	61	
28	81	49	86	80	214	93	70	29	40	78	59	
29	61	62	123	67		86	55	40	23	67	55	40
30	63	52	160	80		82	52	19	32	49	12	10
31	61		158	71		86		19		35	7	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	26	48	96	40	58	255	52	55	25	20	39
2	8	8	36	70	52	72	285	38	47	29	8	33
3	39	45	34	50	40	68	190	47	35	37	29	39
4	9	41	40	45	35	68	175	52	42	19	32	31
5	6	26	40	64	38	66	140	40	43	27	30	12
6	7	9	23	156	35	58	114	46	23	45	28	23
7	39	39	16	113	13	54	112	52	35	68	27	28
8	9	30	42	86	29	159	148	125	130	78	15	40
9	7	13	44	78	75	184	118	152	87	59	25	28
10	8	25	41	66	88	177	107	132	101	115	83	33
11	43	26	34	60	132	180	84	165	160	492	173	28
12	10	42	23	64	110	150	77	125	114	134	270	13
13	9	31	8	72	131	100	68	112	95	84	206	13
14	7	40	7	66	137	78	64	132	72	72	139	32
15	54	20	37	63	113	59	58	123	63	147	151	33
16	10	46	33	59	101	69	52	99	250	68	130	26
17	24	60	35	41	107	71	52	84	366	62	86	24
18	9	61	35	43	255	67	47	73	472	52	69	22
19	6	57	31	132	188	64	47	55	345	53	58	23
20	43	† 50	11	140	172	74	52	51	225	56	50	12
21	40	† 46	9	125	145	88	40	70	114	54	41	28
22	9	† 30	35	101	118	88	47	80	80	51	34	27
23	8	† 10	43	79	95	86	54	172	75	58	† 36	18
24	40	† 40	37	63	80	79	67	116	68	59	† 46	11
25	9	39	14	50	71	69	63	91	62	44	† 46	33
26	8	43	35	56	67	62	41	72	56	38	48	28
27	42	24	140	44	64	62	87	66	44	50	46	16
28	10	50	162	49	51	59	75	52	42	34	46	34
29	16	23	134	48		352	67	47	52	38	33	34
30	9	24	146	51		293	58	25	38	32	42	25
31	47		127	36		254		34		† 32	53	

†- Estimated.

Assunpink Creek at Trenton
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	33	43	21	63	51	340	105	38	14	42	119
2	12	33	45	91	55	46	204	118	37	17	65	499
3	11	39	39	118	60	38	189	82	42	15	53	242
4	8	51	41	98	86	40	129	67	23	17	42	161
5	9	41	25	98	175	27	106	52	23	27	34	88
6	16	19	45	112	132	83	91	50	46	23	14	105
7	20	19	60	322	126	267	77	52	51	23	19	51
8	28	16	21	239	110	192	78	56	49	21	19	34
9	28	48	61	327	86	185	76	76	26	12	28	29
10	23	34	51	379	76	159	211	72	24	12	25	14
11	21	13	68	327	72	120	400	56	24	23	19	14
12	25	35	55	242	69	78	412	63	33	27	27	21
13	23	30	63	214	80	69	358	161	55	11	11	33
14	23	25	63	155	73	62	285	140	52	10	9	37
15	24	13	45	120	70	51	200	115	46	24	10	22
16	33	28	56	99	62	52	146	96	39	15	21	28
17	31	27	28	87	57	59	108	63	73	17	16	13
18	34	11	51	82	76	92	90	52	39	9	62	12
19	34	42	22	66	79	92	83	41	44	21	35	23
20	31	20	39	67	64	92	72	51	37	10	44	21
21	31	22	52	55	52	78	65	35	36	12	28	22
22	28	11	32	63	58	148	63	51	14	41	31	22
23	25	43	60	60	57	165	57	58	9	11	12	21
24	26	40	52	67	49	174	54	39	23	8	22	11
25	29	12	47	70	46	122	56	38	11	7	25	11
26	30	9	43	63	46	104	61	43	11	24	18	23
27	30	39	38	93	36	101	72	46	37	45	11	27
28	30	17	50	91	49	1 100	66	30	39	15	9	31
29	47	10	18	82	62	952	57	40	39	54	21	15
30	55	47	47	73		528	51	36	35	33	18	9
31	63		39	75		308		58		39	50	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	354	91	206	102	102	140	73	154	42	15	89
2	6	330	89	152	102	89	135	68	112	45	31	81
3	24	173	85	133	97	87	149	78	93	131	42	78
4	16	150	83	119	89	83	332	65	93	118	47	107
5	25	124	81	117	85	81	276	65	99	89	20	121
6	65	106	75	108	70	74	264	104	188	75	32	117
7	88	167	72	102	81	82	462	167	150	67	43	116
8	56	162	68	95	198	190	312	174	130	45	29	119
9	51	138	61	168	198	150	227	260	112	37	33	99
10	45	1 010	58	236	124	148	198	394	78	51	36	76
11	30	503	58	165	124	106	145	291	57	48	57	82
12	27	435	94	192	102	87	504	236	82	37	44	64
13	21	285	113	140	83	110	563	188	207	40	55	66
14	23	192	138	117	85	328	422	150	99	38	81	191
15	10	135	119	106	104	309	309	122	103	25	68	358
16	16	110	87	95	106	279	230	144	130	30	57	413
17	47	106	75	91	110	233	357	189	103	60	44	317
18	317	95	66	87	148	168	352	137	65	54	80	240
19	163	586	61	93	184	264	273	114	64	41	83	201
20	117	767	62	95	400	608	204	99	58	37	48	160
21	99	546	61	89	422	843	170	104	47	38	95	120
22	81	382	63	87	344	680	133	82	41	22	351	90
23	64	236	73	85	243	472	122	73	46	23	525	69
24	50	178	99	82	189	330	110	68	28	33	990	76
25	39	142	189	81	138	224	104	84	22	30	785	90
26	41	160	215	201	145	258	106	86	48	31	630	65
27	47	133	219	218	117	243	93	69	45	32	409	61
28	63	110	435	215	110	221	85	82	33	29	†260	90
29	49	99	369	184		218	81	75	42	19	†180	147
30	51	95	318	148		150	77	74	40	14	†120	142
31	52		270	117		140		118		36	† 95	

†- Estimated.

Assunpink Creek at Trenton
(Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	169	51	54	77	54	55	396	77	60	28	26	22
2	132	54	39	158	57	55	294	70	52	29	26	10
3	113	44	43	122	54	164	267	250	46	29	32	11
4	93	44	59	128	55	475	212	484	51	33	14	28
5	84	46	60	335	57	860	173	517	43	40	16	31
6	76	80	60	590	56	880	135	409	41	33	36	31
7	57	78	63	575	59	536	162	273	39	28	29	38
8	65	81	58	660	50	361	170	178	45	37	26	184
9	76	77	58	489	† 50	227	142	119	29	42	23	238
10	51	77	52	361	† 50	201	128	93	34	35	30	127
11	58	72	56	270	† 50	152	124	81	52	31	13	150
12	53	63	53	198	† 50	128	240	72	120	33	22	204
13	57	64	42	198	† 50	192	165	70	202	33	44	152
14	53	58	43	236	† 50	240	145	71	96	20	41	89
15	56	60	33	184	† 50	227	133	73	73	29	40	42
16	60	53	50	170	† 50	218	177	95	46	48	40	44
17	78	48	72	150	† 50	201	286	86	38	31	36	545
18	99	49	103	117	† 48	184	206	81	45	35	21	1 230
19	87	52	98	106	† 46	170	184	61	138	26	28	1 120
20	78	61	165	95	† 44	148	192	60	141	55	41	536
21	76	59	246	87	44	126	158	55	99	24	29	314
22	69	56	187	85	46	115	131	97	86	20	29	193
23	65	55	201	141	56	91	110	267	118	38	29	169
24	61	47	145	160	54	79	106	134	79	36	30	239
25	65	48	117	133	60	81	145	184	66	37	24	128
26	60	48	97	140	59	91	113	258	47	35	24	104
27	57	56	79	108	52	95	108	152	44	34	27	98
28	57	48	69	106	55	216	106	120	45	18	40	86
29	56	47	60	98		184	95	97	51	16	30	72
30	57	39	54	67		150	89	73	16	34	30	404
31	61		52	63		192		70		27	30	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	141	37	77.0	0.865	1.00
November	105	29	66.5	.747	.83
December	110	55	78.8	.885	1.02
Calendar year, 1928	725	29	125	1.40	19.08
January, 1929	218	71	122	1.37	1.58
February	809	50	155	1.74	1.81
March	665	81	203	2.28	2.63
April	525	78	204	2.29	2.56
May	435	25	136	1.53	1.76
June	107	21	53.3	.599	.67
July	80	4	29.0	.326	.38
August	45	4	20.5	.230	.27
September	242	4	77.6	.872	.97
Year ending Sept. 30, 1929	809	4	101	1.13	15.48
October	197	16	70.7	.794	.92
November	170	49	94.0	1.06	1.18
December	367	21	102	1.15	1.33
Calendar year, 1929	809	4	105	1.18	16.06
January, 1930	250	67	123	1.38	1.59
February	596	60	210	2.36	2.46
March	506	82	157	1.76	2.03
April	129	38	80.7	.907	1.01
May	72	9	40.5	.455	.52
June	298	9	54.8	.616	.69
July	100	10	53.3	.599	.69
August	69	7	30.4	.342	.39
September	55	7	21.8	.245	.27
Year ending Sept. 30, 1930	596	7	85.8	.964	13.08

† Estimated.

Assunpink Creek at Trenton
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	54	6	19.1	0.215	0.25
November	61	8	34.1	.383	.43
December	162	7	48.4	.544	.63
Calendar year, 1930	596	6	71.9	.808	10.96
January, 1931	156	36	73.1	.821	.95
February	255	13	92.2	1.04	1.08
March	352	54	109	1.22	1.41
April	285	40	94.8	1.07	1.19
May	172	25	83.2	.935	1.08
June	472	23	113	1.27	1.42
July	492	19	71.4	.802	.92
August	270	8	67.7	.761	.88
September	40	11	26.2	.294	.33
Year ending Sept. 30, 1931	492	6	69.2	.778	10.57
October	63	8	27.2	.306	.35
November	51	9	27.6	.310	.35
December	68	18	45.1	.507	.58
Calendar year, 1931	492	8	69.0	.775	10.54
January, 1932	379	21	131	1.47	1.70
February	175	36	73.3	.824	.89
March	1 100	27	182	2.04	2.35
April	412	51	142	1.60	1.78
May	161	30	65.9	.740	.85
June	73	9	35.2	.396	.44
July	54	7	20.5	.230	.27
August	65	9	27.1	.304	.35
September	499	9	58.6	.658	.73
Year ending Sept. 30, 1932	1 100	7	69.6	.782	10.64
October	317	6	57.7	.648	.75
November	1 010	95	267	3.00	3.35
December	435	58	127	1.43	1.65
Calendar year, 1932	1 100	6	98.8	1.11	15.11
January, 1933	236	81	133	1.49	1.72
February	422	70	154	1.73	1.80
March	843	74	237	2.66	3.07
April	563	77	231	2.60	2.90
May	394	65	130	1.46	1.68
June	207	22	85.6	.962	1.07
July	131	14	45.7	.513	.59
August	990	15	174	1.96	2.26
September	413	61	135	1.52	1.70
Year ending Sept. 30, 1933	1 010	6	148	1.66	22.54
October	169	51	73.5	.826	.95
November	81	39	57.2	.643	.72
December	246	33	82.8	.930	1.07
Calendar year, 1933	990	14	128	1.44	19.53
January, 1934	660	63	207	2.33	2.69
February	60	44	52.0	.584	.61
March	880	55	229	2.57	2.96
April	396	89	170	1.91	2.13
May	517	55	152	1.71	1.97
June	202	16	68.1	.765	.85
July	55	16	32.1	.361	.42
August	44	13	29.2	.328	.38
September	1 230	10	221	2.48	2.77
Year ending Sept. 30, 1934	1 230	10	115	1.29	17.52

North Branch of Rancocas Creek at Pemberton

LOCATION.- Water-stage recorder 600 feet below highway bridge at Pemberton, Burlington County, 11 miles above confluence with South Branch. Zero of gage is 24.54 feet above mean sea level.

DRAINAGE AREA.- 111 square miles.

RECORDS AVAILABLE.- September 1921 to September 1934.

AVERAGE DISCHARGE.- 13 years, 148 second-feet.

EXTREMES.- 1921-34: Maximum daily discharge, 1 310 second-feet Oct. 20, 1927; minimum daily discharge, 9 second-feet Sept. 29, 1932.

Daily discharge, in second-feet, 1928-29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	199	102	143	127	152	477	127	288	98	143	46	46
2	112	91	161	120	152	451	120	300	112	152	49	52
3	143	105	105	127	143	451	112	264	98	105	70	46
4	112	135	112	120	135	425	91	209	80	94	84	40
5	120	152	98	105	135	518	102	230	88	98	58	46
6	127	152	112	179	135	675	112	209	161	94	64	112
7	143	135	91	230	348	690	112	209	112	88	52	161
8	179	127	94	209	336	532	112	252	120	84	55	288
9	143	127	112	† 220	312	† 460	112	230	143	77	† 60	348
10	105	120	94	† 260	312	† 400	135	219	120	64	† 65	300
11	98	120	94	† 260	300	336	105	300	135	64	67	230
12	91	112	102	† 260	276	† 320	161	288	105	77	170	209
13	91	105	102	† 240	209	† 300	209	252	91	61	127	179
14	98	94	120	189	209	276	189	199	80	49	127	152
15	120	120	120	179	189	252	209	241	88	55	94	135
16	94	102	120	161	179	219	412	230	105	61	80	120
17	105	105	112	161	179	209	602	219	120	55	74	120
18	127	105	135	179	170	189	720	189	91	58	67	112
19	170	102	135	209	170	189	412	170	80	† 60	74	98
20	143	127	135	209	161	170	425	120	94	† 60	52	98
21	135	152	127	189	161	170	373	179	189	58	49	91
22	120	120	105	179	170	161	412	179	179	58	49	105
23	105	120	105	179	152	127	425	189	120	52	52	105
24	120	105	94	170	170	135	324	170	105	64	49	84
25	143	112	98	230	161	143	324	189	112	61	46	74
26	135	98	98	264	373	143	300	170	105	94	43	70
27	105	102	94	264	451	143	219	219	112	84	38	67
28	112	98	135	209	602	135	189	209	135	67	30	64
29	102	88	127	199		127	276	152	179	67	46	67
30	102	105	135	189		120	312	112	161	46	43	74
31	84		94	161		112		102		49	40	

† Estimated.

North Branch of Rancocas Creek at Pemberton
(Continued)

Daily discharge, in second-feet, 1929-30

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	135	161	102	† 180	143	252	230	91	91	88	64	58
2	264	170	112	† 160	135	219	127	80	88	120	61	61
3	336	209	105	† 150	135	199	98	94	127	120	55	61
4	336	300	120	† 160	161	189	80	102	135	112	61	64
5	219	348	112	152	276	179	74	80	74	152	58	64
6	170	373	120	152	252	161	67	77	61	161	61	49
7	127	312	105	189	230	161	105	91	67	179	58	46
8	161	264	120	70	199	412	152	94	67	170	46	64
9	112	241	120	127	199	438	152	112	77	135	46	52
10	98	219	102	112	179	425	170	120	386	120	49	46
11	120	179	84	112	152	399	161	170	504	143	46	49
12	120	170	70	120	161	324	143	170	399	127	43	46
13	112	161	77	127	241	288	135	135	219	112	39	49
14	105	143	127	143	412	276	120	152	143	112	40	58
15	98	161	143	189	425	230	135	179	135	98	55	74
16	112	135	135	179	386	209	127	219	112	91	67	70
17	112	152	120	152	386	189	135	170	143	88	64	64
18	98	179	127	241	373	179	143	152	179	84	70	61
19	94	189	143	219	264	189	135	120	135	70	55	58
20	98	189	170	219	264	189	152	135	102	67	46	49
21	112	179	152	199	252	179	143	127	91	84	46	49
22	161	135	120	189	264	170	127	120	84	70	43	49
23	179	161	127	189	230	170	120	120	80	67	105	49
24	189	161	105	170	230	152	120	152	74	84	189	43
25	152	152	152	152	264	135	102	152	64	64	179	46
26	152	135	135	143	264	161	112	91	74	67	127	49
27	143	135	152	120	276	161	105	102	127	67	84	61
28	179	127	† 150	143	252	152	105	74	135	77	55	52
29	161	105	† 150	161		143	120	120	127	70	61	58
30	143	135	† 180	152		143	84	143	94	74	58	49
31	189		† 200	152		241		170		67	55	

Daily discharge, in second-feet, 1930-31

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	70	58	98	80	88	438	112	189	61	43	84
2	52	61	67	98	70	105	425	120	170	46	39	77
3	46	58	67	77	70	105	336	135	161	61	46	74
4	49	64	74	77	67	102	312	161	105	61	52	67
5	55	74	61	88	70	94	241	127	94	64	49	61
6	58	77	49	112	67	91	241	98	88	70	37	49
7	49	80	58	127	67	77	241	91	77	70	40	58
8	43	64	61	112	64	179	230	120	161	91	38	61
9	43	58	58	91	88	230	135	127	241	88	26	52
10	46	64	61	91	112	189	94	161	209	91	55	46
11	46	61	55	80	120	179	161	264	230	102	105	55
12	43	58	55	102	98	161	179	361	189	105	219	43
13	40	52	49	120	94	143	161	373	189	88	189	35
14	38	55	46	120	105	112	143	241	179	70	189	58
15	74	67	64	127	112	112	94	241	179	80	161	49
16	120	127	52	91	80	112	88	230	373	77	161	38
17	112	135	43	80	98	120	91	209	324	67	120	49
18	84	199	46	88	120	127	98	189	324	67	94	49
19	64	276	52	135	135	120	91	152	324	74	77	49
20	61	98	52	152	120	127	84	152	219	88	77	46
21	58	49	46	125	112	127	102	152	189	70	74	52
22	46	46	61	102	112	127	143	152	189	67	77	52
23	43	37	49	120	84	112	120	179	152	61	102	38
24	52	49	61	98	91	112	120	179	179	70	199	40
25	55	49	55	98	94	98	127	161	91	55	161	40
26	34	46	70	84	88	105	120	143	70	61	161	49
27	55	40	135	91	84	112	143	170	88	46	112	88
28	52	58	189	94	80	112	264	135	84	49	105	91
29	52	43	170	94		288	120	105	80	49	105	64
30	61	39	143	91		373	98	105	70	46	105	74
31	67		112	84		399		91		49	91	

† Estimated.

North Branch of Rancocas Creek at Pemberton
(Continued)

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	91	81	76	87	96	328	148	151	130	59	38
2	43	85	75	130	93	93	335	162	102	109	59	96
3	49	56	69	123	96	90	335	154	93	112	64	93
4	36	46	74	106	126	87	288	148	87	109	137	75
5	42	46	81	93	154	87	260	134	93	87	130	59
6	41	48	76	93	158	139	250	140	123	84	106	66
7	49	43	71	155	151	246	207	144	112	93	84	56
8	47	36	68	182	137	288	198	196	81	87	84	56
9	89	47	73	250	130	288	188	205	65	81	74	43
10	87	42	109	288	126	239	333	192	73	75	60	51
11	78	31	106	273	123	214	463	183	49	72	78	41
12	71	42	90	224	123	200	614	196	60	63	81	35
13	52	41	78	203	126	187	600	250	156	63	87	35
14	54	38	84	183	123	179	530	277	255	72	77	39
15	65	24	81	192	120	168	450	250	174	50	56	33
16	118	40	76	219	109	140	349	219	125	61	49	48
17	96	44	70	176	112	157	244	192	210	51	46	47
18	96	44	69	172	130	176	254	165	195	87	61	51
19	71	42	68	151	126	179	244	192	219	93	70	55
20	63	42	65	123	123	176	227	183	196	81	73	34
21	71	56	70	112	112	172	201	179	151	84	33	44
22	67	64	74	84	112	252	182	176	162	84	49	44
23	66	66	90	90	109	254	164	187	158	87	46	42
24	68	62	90	87	90	277	168	116	123	84	45	41
25	55	53	81	120	96	266	176	99	116	68	38	24
26	73	51	77	96	99	226	172	93	120	59	37	102
27	299	67	65	137	99	221	172	84	144	59	32	26
28	167	65	68	165	96	558	168	116	140	62	31	48
29	154	68	63	168	96	600	162	148	162	70	45	9
30	158	78	54	151		614	140	112	151	59	39	30
31	134		62	112		489		116		57	35	

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	154	166	206	202	150	174	150	166	81	51	323
2	27	136	111	198	190	142	211	146	142	87	45	243
3	45	154	139	178	186	139	174	146	154	142	45	216
4	37	150	136	190	174	136	202	139	198	122	67	228
5	37	136	108	162	178	158	194	139	162	97	72	194
6	71	118	111	166	150	114	194	139	158	97	61	190
7	125	166	104	146	154	142	265	174	132	87	56	178
8	81	190	111	146	270	158	216	228	132	75	55	150
9	78	222	100	206	254	170	276	248	146	70	40	154
10	67	530	118	228	202	166	282	347	139	81	46	146
11	57	476	104	182	211	154	243	476	114	75	72	186
12	67	424	108	178	216	162	323	476	111	68	94	139
13	58	372	132	186	182	122	385	335	114	75	84	132
14	61	238	136	186	186	174	476	287	104	54	150	146
15	63	186	132	166	186	254	359	238	104	55	128	190
16	51	194	125	146	174	216	287	260	94	63	100	182
17	54	174	118	146	190	254	335	206	108	94	81	211
18	190	150	132	150	190	190	323	194	100	87	87	94
19	166	398	118	154	222	233	335	182	97	78	90	154
20	136	530	118	146	276	287	299	190	90	66	84	154
21	108	558	128	132	287	323	254	228	75	68	154	142
22	84	437	132	139	228	323	238	178	72	55	398	114
23	87	265	122	136	243	311	216	170	64	38	614	111
24	72	248	142	132	206	287	216	178	66	104	985	114
25	63	202	178	128	216	222	194	216	63	37	970	299
26	70	194	182	372	216	248	186	202	78	34	730	202
27	111	194	211	276	162	243	174	178	75	78	437	136
28	128	166	282	385	166	305	158	182	75	75	260	100
29	122	154	186	323		198	150	166	81	70	323	104
30	111	150	270	186		174	150	154	75	58	372	142
31	78		216	233		178		178		55	411	

North Branch of Rancocas Creek at Pemberton (Continued)

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	132	90	81	136	90	† 108	311	158	139	94	61	52
2	139	125	75	162	97	104	311	146	125	114	66	50
3	104	118	78	150	108	221	311	254	118	100	64	50
4	114	87	90	128	100	287	254	385	111	87	70	61
5	114	78	97	190	100	502	216	398	108	87	62	63
6	108	125	94	287	97	502	206	411	100	94	61	62
7	104	146	94	323	100	463	194	323	84	94	51	53
8	114	150	87	335	94	347	206	248	122	84	52	128
9	136	136	84	248	97	299	194	238	70	84	47	182
10	132	125	81	186	84	282	182	254	84	78	46	142
11	114	114	81	198	87	265	178	238	136	75	46	150
12	64	108	78	162	97	238	226	206	150	72	48	125
13	56	104	78	198	111	232	186	170	186	69	125	94
14	100	108	75	202	111	265	150	154	162	62	84	104
15	81	108	78	146	97	248	178	166	128	64	57	72
16	65	104	90	174	100	232	243	228	125	71	90	84
17	75	94	108	158	97	216	282	182	111	70	114	347
18	87	78	118	139	87	190	265	178	97	68	108	118
19	78	94	108	136	81	139	270	178	166	61	90	154
20	75	97	154	132	100	211	254	186	198	53	71	108
21	70	97	206	118	104	186	216	162	206	58	65	97
22	64	97	146	125	118	158	206	142	190	51	64	94
23	72	94	118	146	146	150	202	146	154	55	58	90
24	66	90	132	158	94	132	186	154	142	52	53	87
25	87	87	122	158	78	132	248	174	186	55	54	87
26	97	84	122	150	122	114	238	202	71	81	54	81
27	97	87	122	146	122	122	182	186	81	84	62	78
28	108	84	122	142	† 118	158	182	178	100	78	60	75
29	94	81	125	122		170	186	136	100	70	64	75
30	87	78	118	90		174	162	166	94	68	62	182
31	84		108	104		226		162		64	58	

Monthly and annual discharge, in second-feet, 1928-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1928	199	84	122	1.10	1.27
November	152	88	115	1.04	1.16
December	161	91	113	1.02	1.18
Calendar year, 1928	650	84	206	1.86	25.32
January, 1929	264	105	193	1.74	2.01
February	602	135	230	2.07	2.16
March	690	112	292	2.63	3.03
April	720	91	258	2.32	2.59
May	300	102	209	1.89	2.17
June	189	80	117	1.05	1.17
July	152	46	74.2	.668	.77
August	170	30	65.2	.587	.68
September	348	40	123	1.11	1.24
Year ending Sept. 30, 1929	720	30	159	1.43	19.43
October	336	94	154	1.39	1.60
November	373	105	189	1.70	1.90
December	200	70	127	1.14	1.31
Calendar year, 1929	720	30	169	1.52	20.63
January, 1930	241	70	159	1.43	1.65
February	425	135	250	2.25	2.34
March	438	135	223	2.01	2.32
April	230	67	126	1.14	1.27
May	219	74	126	1.14	1.31
June	504	61	140	1.26	1.41
July	179	64	101	.910	1.05
August	189	39	67.3	.606	.70
September	74	43	54.9	.495	.55
Year ending Sept. 30, 1930	504	39	142	1.28	17.41

† Estimated.

North Branch of Rancocas Creek at Pemberton
(Continued)

Monthly and annual discharge, in second-feet, 1928-34
(Continued)

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
October, 1930	120	34	56.1	0.505	0.58
November	276	37	75.1	.677	.76
December	189	43	71.6	.645	.74
Calendar year, 1930	504	34	120	1.08	14.68
January, 1931	152	80	102	.919	1.06
February	135	64	92.2	.831	.87
March	399	77	146	1.32	1.52
April	438	84	175	1.58	1.76
May	373	91	169	1.52	1.75
June	373	70	174	1.57	1.75
July	105	46	69.2	.623	.72
August	219	26	100	.901	1.04
September	91	35	56.3	.507	.57
Year ending Sept. 30, 1931	438	26	107	.964	13.12
October	299	36	84.3	.759	.88
November	91	24	51.9	.468	.52
December	109	54	76.1	.686	.79
Calendar year, 1931	438	24	108	.973	13.23
January, 1932	288	76	153	1.38	1.59
February	158	87	117	1.05	1.13
March	614	87	237	2.14	2.47
April	614	140	280	2.52	2.81
May	277	84	166	1.50	1.73
June	255	49	135	1.22	1.36
July	130	50	78.5	.707	.82
August	137	31	63.4	.571	.66
September	102	9	48.7	.439	.49
Year ending Sept. 30, 1932	614	9	124	1.12	15.25
October	190	27	82.0	.739	.85
November	558	118	256	2.31	2.58
December	282	100	144	1.30	1.50
Calendar year, 1932	614	9	147	1.32	17.99
January, 1933	385	128	191	1.72	1.98
February	287	150	204	1.84	1.92
March	323	114	204	1.84	2.12
April	476	150	250	2.25	2.51
May	476	139	217	1.95	2.25
June	198	63	110	.991	1.11
July	142	34	75.0	.676	.78
August	985	40	231	2.08	2.40
September	323	94	169	1.52	1.70
Year ending Sept. 30, 1933	985	27	177	1.59	21.70
October	139	56	94.1	.848	.98
November	150	78	102	.919	1.03
December	206	75	105	.946	1.09
Calendar year, 1933	985	34	162	1.46	19.87
January, 1934	335	90	169	1.52	1.75
February	146	78	102	.919	.96
March	502	104	228	2.05	2.36
April	311	150	221	1.99	2.22
May	411	136	210	1.89	2.18
June	206	70	128	1.15	1.28
July	114	51	74.1	.668	.77
August	125	46	66.7	.601	.69
September	347	50	105	.946	1.06
Year ending Sept. 30, 1934	502	46	134	1.21	16.37

Oldmans Creek near Woodstown

LOCATION.- Water-stage recorder at Woodstown-Swedesboro highway bridge 2 miles north of Woodstown, Salem County, and 14 miles above the mouth.

DRAINAGE AREA.- 19.3 square miles.

RECORDS AVAILABLE.- June 1931 to September 1934.

AVERAGE DISCHARGE.- 3 years, 23.3 second-feet.

EXTREMES.- 1931-34: Maximum discharge, about 280 second-feet Aug. 23, 1933 (gage height, 8.22 feet); minimum, 4.5 second-feet Aug. 4-9, 1931 (gage height, 1.26 feet).

Daily discharge, in second-feet, 1931

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1		5.4	5.4	11.5	11		54	21	† 7	21	5.8	9.3	9.7	6.9
2		5.1	5.8	10.6	12		19.6	28	† 6	22	5.8	9.3	10.2	6.9
3		5.1	5.8	10.2	13		14.0	14.5	† 6	23	6.5	8.9	56	6.5
4		6.9	5.4	10.2	14		11.1	9.7	† 6	24	10.6	8.4	75	6.5
5		6.9	5.4	9.7	15		10.2	29	† 6	25	8.4	8.0	30	6.5
6		8.4	5.4	8.9	16		9.3	15.6	† 6	26	7.2	6.9	18.8	18.1
7		47	5.1	8.4	17		8.9	10.2	† 6	27	6.5	6.5	16.1	14.0
8		95	4.5	8.0	18		8.4	8.4	† 6	28	6.2	6.5	22	9.7
9		25	4.8	7.6	19		12.0	7.6	† 6	29	5.4	6.2	21	8.4
10		35	11.1	† 7	20	5.8	10.2	6.9	† 7	30	5.4	6.2	17.2	8.0
										31		5.8	13.0	

Daily discharge, in second-feet, 1931-32

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.0	10.2	12.0	27	16.7	13.0	60	25	10.2	9.3	6.9	6.2
2	8.0	9.7	10.2	34	16.7	12.5	38	22	10.2	6.5	6.5	6.2
3	7.6	9.3	9.3	18.4	17.7	12.5	33	17.7	9.7	5.4	9.3	5.8
4	7.6	8.9	12.0	14.0	35	13.0	29	16.1	8.4	6.2	12.0	5.8
5	7.2	8.4	14.5	13.0	42	13.0	27	15.6	8.4	8.0	8.4	5.4
6	7.2	8.4	11.5	22	26	47	26	24	8.4	8.4	7.2	6.9
7	7.2	8.4	10.2	63	22	90	24	22	9.3	8.9	60	6.5
8	12.0	8.0	8.9	50	20	35	24	17.7	9.3	8.0	37	5.8
9	18.0	8.0	20	71	18.8	26	26	17.7	8.9	6.9	12.5	5.1
10	11.1	8.4	27	74	18.3	23	60	16.7	8.4	6.5	9.3	5.1
11	8.9	8.4	16.1	42	18.3	19.4	42	15.0	8.4	6.2	10.6	5.1
12	8.0	8.4	14.5	31	20	19.4	40	35	11.5	5.4	8.9	5.1
13	8.0	8.4	13.5	28	19.9	19.4	31	67	16.7	5.4	7.6	5.1
14	8.0	8.4	13.5	25	17.2	17.7	27	30	14.0	5.4	6.9	5.1
15	8.0	8.9	11.5	22	16.1	16.7	24	22	12.5	7.2	6.5	5.1
16	22	9.7	11.1	20	15.0	16.7	22	19.4	11.5	6.9	6.2	8.8
17	14.5	9.3	10.6	19.4	25	35	20	17.2	12.2	6.2	5.8	8.9
18	10.2	9.3	10.6	18.8	25	39	19.9	18.8	22	5.8	6.5	6.5
19	9.3	11.1	10.6	17.2	18.3	27	19.4	17.7	15.0	5.8	8.0	5.8
20	8.9	13.0	10.2	16.7	16.7	23	18.8	16.1	13.0	6.2	7.6	5.8
21	8.4	11.1	10.2	16.1	14.5	22	18.3	15.0	11.5	8.0	6.9	5.8
22	8.4	10.2	14.0	16.1	15.0	66	18.3	14.0	10.2	8.4	6.5	5.8
23	8.0	9.7	17.7	16.1	15.0	48	17.2	13.5	8.4	14.0	6.2	6.2
24	8.0	9.3	13.5	16.7	13.5	30	16.1	13.0	7.6	11.1	6.2	6.9
25	8.0	9.3	12.0	15.0	13.0	25	16.1	12.5	7.6	8.4	5.8	6.5
26	8.0	8.9	10.6	14.5	13.5	23	22	11.5	7.6	7.2	5.4	5.8
27	7.6	8.9	10.2	26	14.0	27	19.9	11.5	8.8	6.9	5.4	6.9
28	7.6	11.1	10.2	20	13.5	122	17.2	15.0	19.4	6.9	5.4	7.6
29	18.4	11.1	9.7	22	13.5	68	16.1	13.0	15.0	27	5.4	6.9
30	18.9	12.0	9.7	27		38	15.6	11.5	11.1	10.2	5.4	6.5
31	12.0		9.7	21		39		10.6		8.0	5.4	

† Estimated.

Oldmans Creek near Woodstown
(Continued)

Daily discharge, in second-feet, 1932-33

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.2	52	19.1	34	29	25	40	24	26	54	8.4	41
2	5.8	38	18.2	30	30	25	43	24	20	29	8.1	58
3	5.8	19.4	17.2	28	27	23	42	25	16.7	55	9.6	46
4	5.4	14.5	12.0	28	26	22	76	23	15.3	33	69	52
5	12.3	13.5	13.3	27	26	21	52	21	14.3	19.6	16.8	48
6	20	13.0	14.8	23	26	20	45	37	13.8	15.8	11.5	40
7	12.0	67	15.3	22	30	30	82	36	14.4	14.3	9.7	36
8	8.4	† 50	15.3	19.6	57	53	53	43	18.7	12.4	8.8	34
9	7.2	† 32	15.3	46	36	34	42	50	14.8	12.0	8.4	33
10	6.9	112	14.8	44	29	26	38	43	12.9	12.0	8.8	27
11	6.5	† 55	15.3	34	35	22	36	41	12.0	11.0	19.6	25
12	6.2	† 30	21	31	29	23	92	36	12.0	11.0	12.9	37
13	6.2	† 26	22	26	29	32	86	32	21	10.1	12.9	34
14	6.2	23	25	23	25	69	50	29	12.9	9.7	82	72
15	6.2	22	19.6	23	36	68	43	26	12.0	9.7	32	68
16	6.5	21	15.8	20	37	44	41	38	12.0	29	16.2	48
17	19.0	24	12.8	20	34	35	82	38	18.1	19.0	14.3	41
18	59	20	25	20	41	33	64	28	15.3	13.3	13.8	36
19	19.8	75	17.2	19.1	37	41	44	23	12.4	11.0	13.3	27
20	13.0	94	16.2	18.2	75	81	40	23	11.5	10.6	12.0	26
21	10.6	52	15.3	17.2	59	102	36	28	11.0	10.1	45	25
22	9.7	35	15.8	19.1	41	64	34	21	10.6	9.7	66	24
23	8.9	28	16.2	19.6	50	48	32	18.7	9.7	9.2	142	23
24	8.9	27	23	18.2	33	42	31	41	9.2	8.8	150	23
25	8.4	25	48	24	28	40	30	64	9.2	8.4	70	23
26	8.4	30	36	104	22	48	29	32	11.0	15.1	50	22
27	25	25	40	62	19.6	43	27	29	18.5	14.3	44	21
28	17.6	20	83	48	23	38	26	38	15.8	12.0	58	19.1
29	12.0	19.1	65	38		34	25	27	12.9	11.0	111	50
30	10.2	19.1	44	33		32	24	23	11.5	10.1	52	34
31	9.3		42	31		33		28		9.2	42	

Daily discharge, in second-feet, 1933-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	15.9	14.1	35	17.2	‡ 14.6	47	19.2	14.1	10.4	14.7	12.0
2	25	15.9	13.6	31	20	15.9	32	19.8	13.0	8.9	34	12.0
3	19.6	15.3	14.7	22	17.2	79	27	69	12.0	8.0	149	12.0
4	18.7	15.3	17.8	20	19.8	117	29	77	12.0	7.6	59	13.0
5	19.6	15.9	16.5	53	17.8	98	29	46	12.0	8.0	33	12.0
6	19.1	64	15.9	82	16.5	63	25	33	11.4	8.9	24	12.4
7	18.2	38	15.9	53	22	41	38	28	10.9	7.6	19.8	37
8	17.2	25	15.3	46	15.3	36	31	24	10.4	6.9	17.2	106
9	15.8	20	14.7	36	17.2	33	26	22	9.9	7.6	15.9	61
10	14.8	19.2	13.6	31	16.5	32	24	22	19.7	7.2	15.9	32
11	14.3	16.5	13.0	28	15.9	30	27	25	20	6.9	15.3	23
12	14.3	16.5	12.5	26	16.5	30	34	22	21	7.2	15.5	19.8
13	19.6	17.2	13.0	30	15.9	32	26	19.8	23	83	20	23
14	19.1	22	13.6	33	17.2	45	24	19.2	14.7	44	18.5	24
15	16.2	19.2	13.6	27	15.3	38	22	28	12.5	22	17.8	22
16	15.3	15.9	21	25	15.3	33	47	23	10.9	60	52	21
17	37	15.3	27	22	14.1	30	56	24	9.9	19.8	65	44
18	35	18.5	22	20	14.1	30	36	20	11.7	13.0	29	28
19	23	19.2	17.8	20	15.3	28	30	18.5	40	11.4	21	21
20	19.1	17.8	48	20	18.5	24	32	16.5	25	10.4	18.5	18.5
21	16.7	16.5	41	19.2	17.2	23	28	15.3	15.3	9.9	15.3	17.2
22	16.7	16.5	28	19.8	17.8	22	24	17.1	12.5	8.9	14.1	22
23	16.7	15.9	22	35	‡ 16.0	19.8	23	24	11.4	8.0	14.1	30
24	17.2	15.9	20	27	‡ 15.0	21	23	17.2	10.9	8.0	13.6	23
25	17.7	15.3	18.5	23	14.7	26	26	35	9.9	36	13.0	19.8
26	15.9	15.3	27	22	‡ 14.5	26	23	34	8.4	26	19.8	18.5
27	17.2	14.7	28	21	‡ 14.4	25	24	22	12.1	14.7	14.1	17.2
28	16.5	14.1	20	21	‡ 14.4	46	25	18.5	13.8	33	17.1	15.9
29	15.9	14.1	15.3	14.7		34	21	16.5	10.9	54	15.3	15.3
30	15.3	14.1	14.7	12.5		26	19.8	17.2	9.9	31	13.0	88
31	15.3		15.9	18.5		36		15.3		19.8	12.0	

† Estimated.
‡ Estimated, stage-discharge relation affected by ice.

Oldmans Creek near Woodstown
(Continued)

Monthly and annual discharge, in second-feet, 1931-34

Month	Maximum	Minimum	Mean	Per square mile	Run-off in inches
June 20-30, 1931	10.6	5.4	6.69	0.347	0.14
July	95	5.1	15.5	.803	.93
August	75	4.5	16.1	.834	.96
September	18.1	6	8.19	.424	.47
Year ending Sept. 30, 1931					
October	22	7.2	10.1	.523	.60
November	13.0	8.0	9.47	.491	.55
December	27	8.9	12.4	.642	.74
Calendar year, 1931					
January, 1932	74	13.0	27.0	1.40	1.61
February	42	13.0	19.0	.984	1.06
March	122	12.5	33.1	1.72	1.98
April	60	15.6	26.3	1.36	1.52
May	67	10.6	19.2	.995	1.15
June	22	7.6	11.2	.580	.65
July	27	5.4	8.09	.419	.48
August	60	5.4	9.93	.515	.59
September	8.9	5.1	6.17	.320	.36
Year ending Sept. 30, 1932	122	5.1	16.0	.829	11.29
October	59	5.4	11.9	.617	.71
November	112	13.0	36.1	1.87	2.09
December	83	12.0	25.0	1.30	1.50
Calendar year, 1932	122	5.1	19.4	1.01	13.70
January, 1933	104	17.2	30.6	1.59	1.83
February	75	19.6	34.6	1.79	1.86
March	102	20	40.4	2.09	2.41
April	92	24	46.2	2.39	2.67
May	64	18.7	31.9	1.65	1.90
June	26	9.2	14.2	.736	.82
July	55	8.4	16.4	.850	.98
August	150	8.1	39.3	2.04	2.35
September	72	19.1	36.4	1.89	2.11
Year ending Sept. 30, 1933	150	5.4	30.2	1.56	21.23
October	37	14.3	18.8	.974	1.12
November	64	14.1	19.2	.995	1.11
December	48	12.5	19.5	1.01	1.16
Calendar year, 1933	150	8.1	28.9	1.50	20.32
January, 1934	82	12.5	28.8	1.49	1.72
February	22	14.1	16.5	.855	.89
March	117	14.6	37.2	1.93	2.22
April	56	19.8	29.3	1.52	1.70
May	77	15.3	26.1	1.35	1.56
June	40	8.4	14.3	.741	.83
July	83	6.9	19.6	1.02	1.18
August	149	12.0	26.4	1.37	1.58
September	106	12.0	27.4	1.42	1.58
Year ending Sept. 30, 1934	149	6.9	23.7	1.23	16.65

In addition to the records of flow obtained at the gaging stations and reported in the preceding pages, measurements were made at other points in the state, as shown by the following table:

Miscellaneous discharge measurements during the period Oct. 1, 1928 to Sept. 30, 1934

Date	Stream	Tributary to-	Locality	Gage Height	Discharge
1932					
Sept. 2	Hackensack River	Atlantic Ocean	Old Tappan		4.1
Sept. 3	Pascack River	Hackensack River	Westwood		6.0
1933					
Feb. 7	Millstone River	Raritan River	Near Kingston		144
1934					
May 12	Matchaponix Brook	South River	At Texas, Middlesex County	- 0.28	41.5
18	do.	do.	do.	- .27	39.6
23	do.	do.	do.	1.81	169
26	do.	do.	do.	.80	104
Aug. 10	do.	do.	do.	- 1.05	6.8
1931					
May 14	Maurice River	Delaware Bay	Norma		132
Aug. 10	do.	do.	do.		20.6
Sept. 1	do.	do.	do.		96
23	do.	do.	do.		35.4
1932					
Sept. 30	Pohatcong Creek	Delaware River	Below quarry near New Village		8.4
Aug. 23	do.	do.	Above dam at Carpentersville		4.4
Sept. 30	do.	do.	do.		7.3
Aug. 11	do.	do.	Below dam at Carpentersville		4.7
23	do.	do.	do.		5.4
1931					
Aug. 10	Crosswicks Creek	do.	Ellisdale	- 1.64	19.0
Sept. 1	do.	do.	do.	- 1.23	39.8
23	do.	do.	do.	- 1.52	27.2
1932					
Oct. 20	do.	do.	do.	- 1.31	32.0
Nov. 10	do.	do.	do.	- 1.29	29.1
Dec. 14	do.	do.	do.	- 0.82	55
1933					
June 1	Budd River	North Branch of Rancocas Creek	Near Pemberton		10.8
1931					
Aug. 10	Haynes Creek	South Branch of Rancocas Creek	Eayrestown		11.2
Sept. 1	do.	do.	do.		46.2
23	do.	do.	do.		13.4
1932					
Oct. 20	do.	do.	do.	- 12.08	34.8
Nov. 10	do.	do.	do.	- 12.48	21.6
Dec. 14	do.	do.	do.	- 9.75	67.6
1931					
Oct. 2	West Branch of Woodbury Creek	Woodbury Creek	Woodbury		.7
1931					
May 4	Mantua Creek	Delaware River	Salina		10.9
Aug. 10	do.	do.	do.		9.3
Sept. 1	do.	do.	do.		9.7
23	do.	do.	do.		7.4
1932					
Oct. 20	do.	do.	do.	- 1.59	8.9
Nov. 10	do.	do.	do.	- 1.55	9.4
Dec. 14	do.	do.	do.	- 1.38	13.4
1931					
May 4	Salem Creek	do.	Woodstown		5.6

PERIOD OF RECORDS AT GAGING STATIONS

Note.- Dash after a date indicates that station was being maintained September 30, 1934. Period after a date indicates discontinuance.

Hackensack River Basin

Hackensack River at New Milford, 1921-

Passaic River Basin

Passaic River near Millington, 1903-6; 1921-

Passaic River near Chatham, 1902-11.

Passaic River at Paterson, 1898-

Rockaway River at Boonton, 1903-4; 1913-

Beaver Brook at outlet of Splitrock Pond, 1925-

Whippany River at Morristown, 1921-

Pompton River:

Ramapo River near Mahwah, 1903-6; 1922-

Ramapo River at Pompton Lakes, 1921-

Greenwood Lake at The Glens, 1898-1903; 1907-

Wanaque River at Greenwood Lake, 1919-

Wanaque River at Wanaque, 1903-5; 1912-15; 1919-

Pequannock River at Macopin intake dam, 1892-

Saddle River at Lodi, 1923-

Elizabeth River Basin

Elizabeth River at Irvington, 1930-

Elizabeth River at Elizabeth, 1921-

Rahway River Basin

Rahway River at Rahway, 1908-15; 1921-

Robinsons Branch of Rahway River at Goodmans, 1921-24.

Raritan River Basin

Raritan River, South Branch of, (head of Raritan River) near High Bridge, 1919-

Raritan River, South Branch of, at Stanton, 1903-6; 1919-

Raritan River at Manville, 1903-7; 1908-15; 1921-

Neshanic River at Reaville, 1930-

North Branch of Raritan River near Far Hills, 1922-

North Branch of Raritan River at Milltown, 1923-

Black River (head of Lamington River) near Pottersville, 1921-

Millstone River near Kingston, 1933-

Millstone River at Blackwells Mills, 1903-4; 1921-

Bound Brook:

Green Brook at Bound Brook, 1923-31.

Lawrence Brook at Patrick Corner, 1922-26.

Lawrence Brook at Farrington Dam, 1927-

South River:

Deep Run near Browntown, 1932-

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-

Absecon Creek Basin

Absecon Creek at Absecon, 1923-29; 1933-

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

Delaware River at Port Jervis, N. Y., 1904-

Delaware River at Belvidere, 1922-

Delaware River at Riegelsville, 1906-

Delaware River at Trenton, 1913-

Flat Brook at Flatbrookville, 1923-

Paulins Kill at Blairstown, 1921-

Pequest River at Pequest, 1921-

Beaver Brook near Belvidere, 1922-

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-

Oldmans Creek near Woodstown, 1931-

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