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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FLOODS IN PENNSYLVANIA FREQUENCY AND MAGNITUDE

By
W. F. Busch and L. C. Shaw

Prepared in cooperation with
Commonwealth of Pennsylvania, Department of
Forests and Waters

Open-file report

Harrisburg, Pennsylvania
1960

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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ERRATA SHEET

1. Page 111, bottom line in left column.- Change "at Langhorne" to "near Langhorne."
2. Page 111, lines 34, 35, 36 in right column.- Change "Lackawaxen" to "Lackawanna."
3. Page V, line 7 in right column.- Change "Carnegia" to "Carnegie."
4. Page 4, figure 2.- Insert numeral "5" in Ohio River basin portion of map.
5. Page 6, Sta. No. 4655.- Change "at Langhorne" to "near Langhorne."
6. Page 7, Sta. Nos. 5345, 5355, 5360.- Change "Lackawaxen" to "Lackawanna."
7. Page 8, Sta. No. 5630.- Change "Huntington" to "Huntingdon."
8. Page 9, Sta. No. 5705.- Add small letter "e" at extreme right of column 5.
9. Page 9, line 14.- Change No. "5735" to "5755."
10. Page 11, Sta. Nos. 1025-1080.- Move all bars upward one line in "Annual peak records, water year" column. For Raccoon Creek at Moffatts Mill,Pa., insert bar for 1916-32, 1942-58.
11. Page 12, footnotes.- After "e," change "1786" to "1787."
12. Page 17, figure 8.- Change "150,000" on ordinate scale to "200,000."
13. Page 20, figure 11.- Insert numeral "14" on curve of graph.
14. Page 22, Sta. No. 150.- Change "Conewago" to "Conewango."
15. Page 22, last line in right column.- Change "Ellwood Creek" to "Ellwood City."
16. Page 66, first table, third line in right column.- Change "11.12" to "10.12" under "Gage height."
17. Page 125, Dunning Creek at Yount, Pa.- Change station description to read as follows:
    Drainage area.- 191 sq mi.
    Gage.- Nonrecording gage. Datum of gage is 1,046.43 ft above mean sea level (preliminary levels of 1935).
    Stage-discharge relation.- Defined by current-meter measurements below 1,650 cfs and extended above.
    Remarks.- Base for partial-duration series, 2,300 cfs.
18. Page 141, first line in table, left column.- Change "1786" to "1787" under "Water year;" change "Oct. 5, 1785" to "Oct. 5, 1786" under "Date."
19. Page 141, line 7 in table, left column.- Change "620,000" to "654,000" under "Discharge."
20. Page 143, Sta. No. 5715.- Change datum of gage from "301.19" to "301.49."
21. Plate 1.- Interchange numbers for Sta. Nos. 1060 and 1065; move symbol for Sta. No. 1085 downstream from Raccoon Creek (Sta. No. 1080).

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FLOODS IN PENNSYLVANIA
FREQUENCY AND MAGNITUDE

By

W. F. Busch and L. C. Shaw

ABSTRACT

This report outlines a method of determining the magnitude of floods having frequencies up to 50 years for any stream in Pennsylvania except regulated streams and streams whose drainage basins are smaller than 10 square miles. On the main stems of the Schuylkill, Delaware, Susquehanna, and Chemung Rivers the magnitude of floods can be determined for frequencies up to 100 years.

Six composite frequency curves show the relation of the mean annual flood to floods having recurrence interval up to 50 to 100 years. Curves for fourteen hydrologic areas show the variation of mean annual flood with drainage area. This report explains how to select the proper curves for any chosen point in the State and how to compute a flood-frequency curve for that point.

A tabulation of peak gage heights and discharges for most gaging stations in the State is included. In general, the tabulations contain all peaks above a specific base discharge, although for some stations only annual peaks are shown.

INTRODUCTION

Knowledge of the frequency and magnitude of floods is an important requirement for the design of all works of man bordering on streams or encroaching on flood plains. The proper design of bridges, culverts, dams, highways, levees, reservoirs, sewage disposal systems, waterworks, and all structures located on the flood plains of streams requires careful consideration of the flood hazard. When the loss of life is not a factor, it is generally not economically sound to design all structures for the maximum flood that may occur. Economics will dictate the choice of a design frequency. The magnitude of floods for selected frequencies can be determined for any site on most streams in Pennsylvania by use of procedures and curves presented in this report. The procedures and curves are not applicable to regulated streams or streams having small (generally less than 10 square miles) drainage areas.

Acknowledgements

The data in this report were compiled in accordance with the terms of a co-operative agreement for water resources investigations between the U. S. Geological Survey and the Pennsylvania Department of Forests and Waters. It was prepared by W. F. Busch and L. C. Shaw in the district office of the U. S. Geological Survey, Harrisburg, Pa., under the direction of John J. Molloy, district engineer. Tate Dalrymple, A. R. Green, and others of the staff of the Washington office of the U. S. Geological Survey rendered valuable technical assistance in reviewing the report.

Most of the flood data used in this report for years prior to 1931 were collected by the Pennsylvania Department of Forests and Waters. Data for subsequent years were collected by the U. S. Geological Survey in cooperation with the Pennsylvania Department of Forests and Waters; Corps of Engineers, Department of the Army; and other municipal, State, and Federal agencies. Data for gaging stations operated by district offices of the U. S. Geological Survey in States adjacent to Pennsylvania were furnished by the district engineers in those States. Curves relating to the Delaware River basin in Pennsylvania were taken from the open-file report, "Delaware River Basin Flood Frequency," which was prepared in April 1958 by Richard H. Tice, hydraulic engineer, U. S. Geological Survey, Trenton, New Jersey.

Description of the State

The Commonwealth of Pennsylvania can be described as a rectangular area set arbitrarily across the Appalachian Highlands in the eastern part of the United States. Land-surface elevations vary from 3,213 feet above mean sea level on Mount Davis in the Allegheny Mountains to about sea level along the Delaware River. Large areas of the State are covered with forests, pasture, or cultivated lands.

Topography

The State is divided into roughly parallel belts, with a northeast-southwest trend, that form parts of six physiographic provinces. These provinces, named from southeast to northwest, are: Atlantic Coastal Plain; Piedmont; Blue Ridge and Jersey Highlands; Valley and Ridge; Appalachian Plateau; and Lake Erie Plain. The general outlines of the provinces are shown in figure 1. A brief description of the provinces follows:

Atlantic Coastal Plain. --A narrow belt of sand and silt, belonging to the Atlantic Coastal Plain, lies in the southeastern corner of the State along the Delaware River. This belt is about 45 miles long and averages about 10 miles wide. The Schuylkill River and many smaller streams cross the Coastal Plain.

Piedmont. --The Piedmont is a gently rolling area which in general slopes southeastward. As a result of prolonged erosion, much of it's former plateau-like appearance has been modified to slopes and gently rounded hills. The province is in the southeastern portion of the State, adjacent to the Coastal Plain.

Blue Ridge and Jersey Highlands. --Two divisions of the Appalachian Mountains, the Blue Ridge and the Jersey Highlands, are present in Pennsylvania. The Appalachian Mountains extend from western

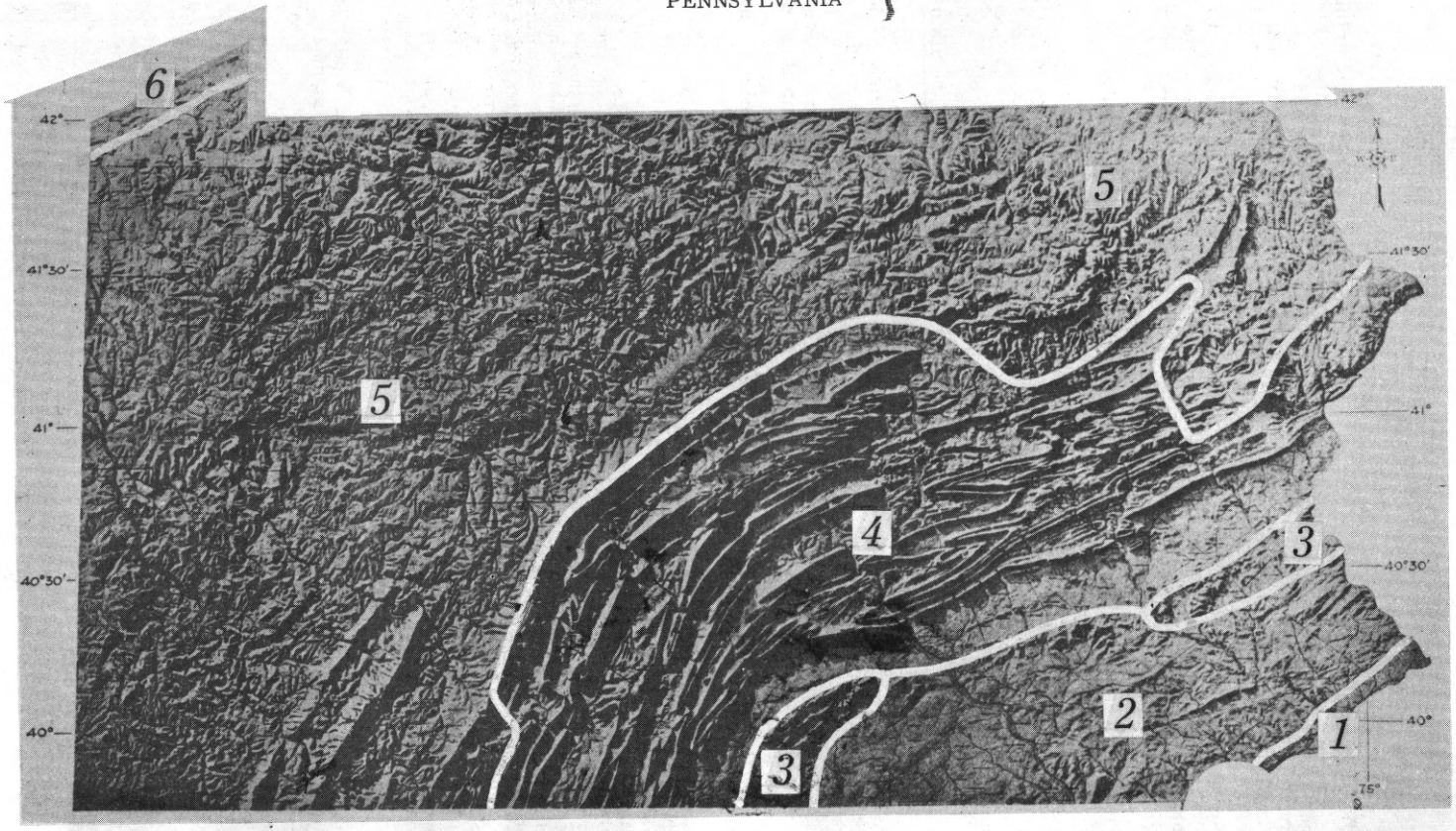


Figure 1. --Outline of physiographic provinces.

1 Atlantic Coastal Plain
2 Piedmont
3 Blue Ridge and Jersey Highlands
4 Appalachian Valley and Ridge
5 Appalachian Plateau
6 Lake Erie Plain

Massachusetts to Georgia with a topographic break in Pennsylvania of approximately 50 miles which separates them into a northern and a southern division. The northern division, known as the Jersey Highlands, enters Pennsylvania from New Jersey in the vicinity of Easton and extends to the Schuylkill River. The Blue Ridge, which is the southern division, enters Pennsylvania from Maryland and terminates at South Mountain, west of the Susquehanna River.

Appalachian Valley and Ridge. --The Appalachian Valley and Ridge is northwest of the Piedmont and is in part separated from it by the Blue Ridge and the Jersey Highlands. This province is divided into two distinct parts. The Great Valley is southeast of and parallel to Blue Mountain and extends from the Delaware River to the Pennsylvania-Maryland line. It is a fairly flat lowland, averaging about 15 miles in width and 150 miles in length. The rest of the province is made up of a series of parallel ridges and valleys. The ridges have long uniform crest lines and have been cut through in numerous places by streams

Appalachian Plateau. --The Appalachian Plateau covers nearly two-thirds of the State. It extends from the eastern to the western boundaries in the northern third of the State, and from the northern to the southern boundaries in the western third of the State. The northeast to southwest trend visible in the topography of the other provinces is missing completely in this area. The province has winding divides without definite pattern or consistency.

Lake Erie Plain. --The Lake Erie Plain, which is a part of the Central Lowlands, is a belt of land about 10 miles wide and 45 miles long, bordering on Lake Erie in the northwestern part of the State. Streams which drain the Plain are tributary to Lake Erie.

Drainage Basins

The streams in Pennsylvania contribute to five major drainage basins. In addition, a small area drains directly into Chesapeake Bay. These basins and their approximate drainage areas in the State are as follows:

Basin	Drainage area in Pennsylvania (square miles)
Delaware River	6,422
Susquehanna River	20,965
Chesapeake Bay	85
Potomac River	1,570
Ohio River	15,571
St. Lawrence River	608

The Delaware, Susquehanna and Potomac Rivers flow directly to the Atlantic Ocean. The Ohio River flows in a southwesterly direction to the Mississippi River and then to the Gulf of Mexico. The St. Lawrence River basin in Pennsylvania consists of an area which drains directly into Lake Erie in northwestern Pennsylvania, and the headwaters of the Genesee River in the northcentral section of the State. The river basins in Pennsylvania are shown in figure 2.

Climate

Pennsylvania, which is a short distance south of the center of the temperate zone, enjoys a moderate climate. The average annual temperature is about 50°F., varying from an average of about 29°F. in January and February to an average of about 72°F. in July. Long periods of extreme cold or heat are relatively rare.

The State is crossed by a large number of the nation's major storm tracks and is supplied with plentiful precipitation. The average annual precipitation of about 42 inches is distributed fairly evenly in regard to both time and location. The whole State is subject to precipitation in the form of snow during the winter months. Heaviest snowfalls usually occur in the northern half of the State and in the mountains. The eastern third of the State occasionally receives heavy rainfall as the result of hurricane storms that pass either through the area or slightly off the Atlantic coast.

Because of the nature of the climate in the State, major floods may occur in any season of the year. Although the snowpack generally does not accumulate to excessive depths, major floods have occurred as a result of heavy rainfall on top of a dense snowpack. Winter floods also have occurred as the result of heavy rain falling on frozen ground. Local flooding is caused occasionally by ice jams. Summer floods may be caused by one storm following closely after another storm and releasing heavy rainfall of high intensity on the previously saturated ground. Thunderstorm activity during the summer months may produce excessive flooding, especially over small drainage areas.

The distribution of the average annual precipitation over the State is shown in figure 3.

Flood Records

The base data for this report were obtained from records of gage height and discharge collected by the U. S. Geological Survey and other agencies. In addition to data collected within Pennsylvania, records for some streams in adjoining States have been used in the analyses.

Systematic collection of streamflow records in Pennsylvania began at a few mainstem locations during the period 1890-1900. However, it was not until about 1914 that a fairly representative network of gaging stations was operated throughout the State. Since 1914 the number of gaging stations has been increased gradually, a relatively large number being established during the decade 1930-40. Historical flood data have been used in the analyses when reliable information was available. In general, flood records for stations operated less than 5 years were not used.

Gaging stations providing the base data are listed in downstream order in table 1, which shows by bar graph the years for which annual peak discharges are available. The location of each station is indicated by index number on the map of plate 1.

METHOD OF FLOOD-FREQUENCY ANALYSIS

The methods of analyzing flood frequency used in this report, which have been developed in previous studies by engineers of the Geological Survey, have been described in detail in many reports. The methods involve, first, relating peak discharge, expressed as a ratio to the mean annual flood to recurrence interval in years; and, second, relating the mean annual flood to size of drainage basin. By use of the results of these analyses, flood-frequency relations can be estimated for any point on any stream within a broad area, with the following exceptions:

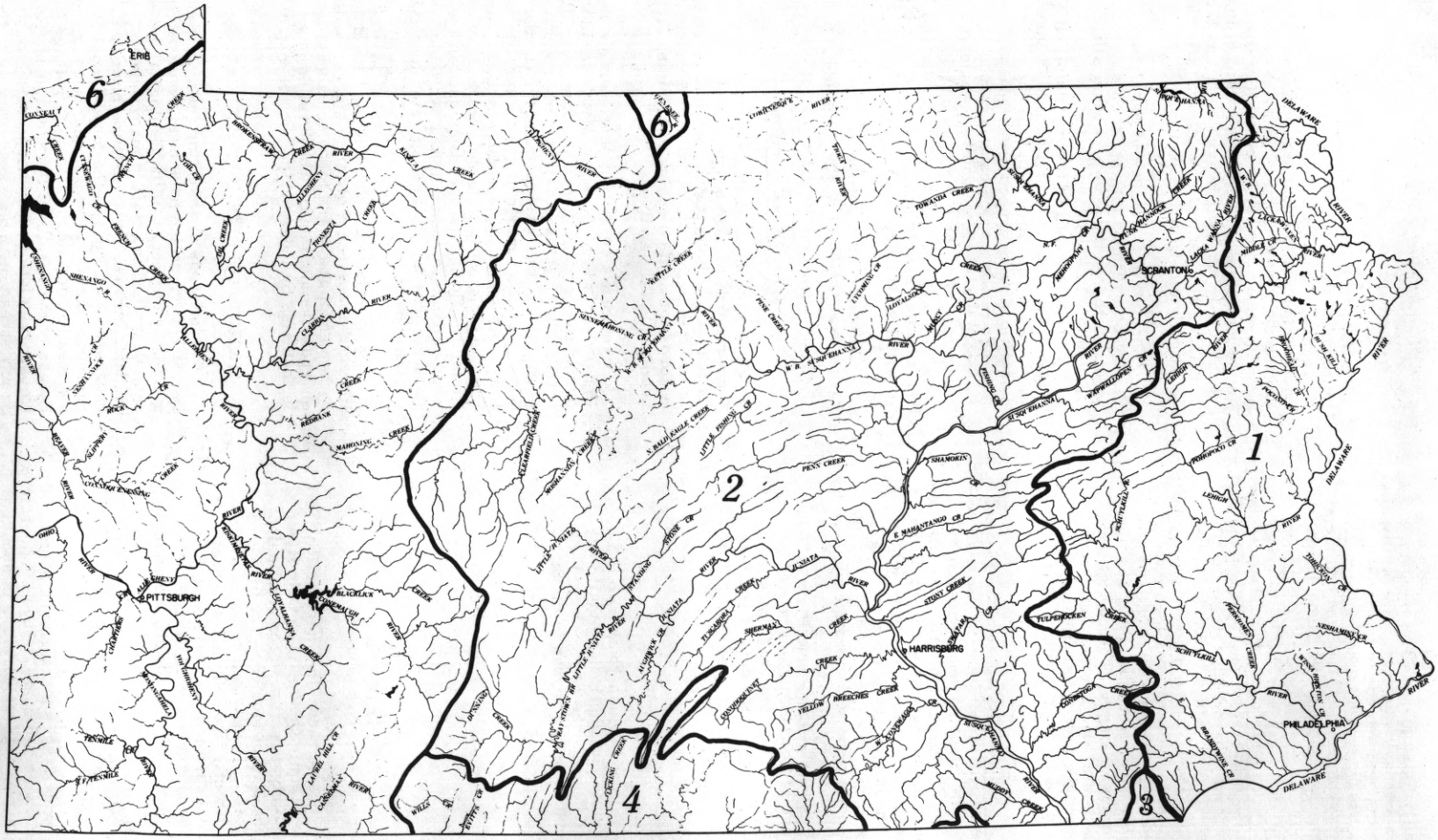


Figure 2.--River basins of Pennsylvania.

1 Delaware River	4 Potomac River
2 Susquehanna River	5 Ohio River
3 Chesapeake Bay	6 St. Lawrence River

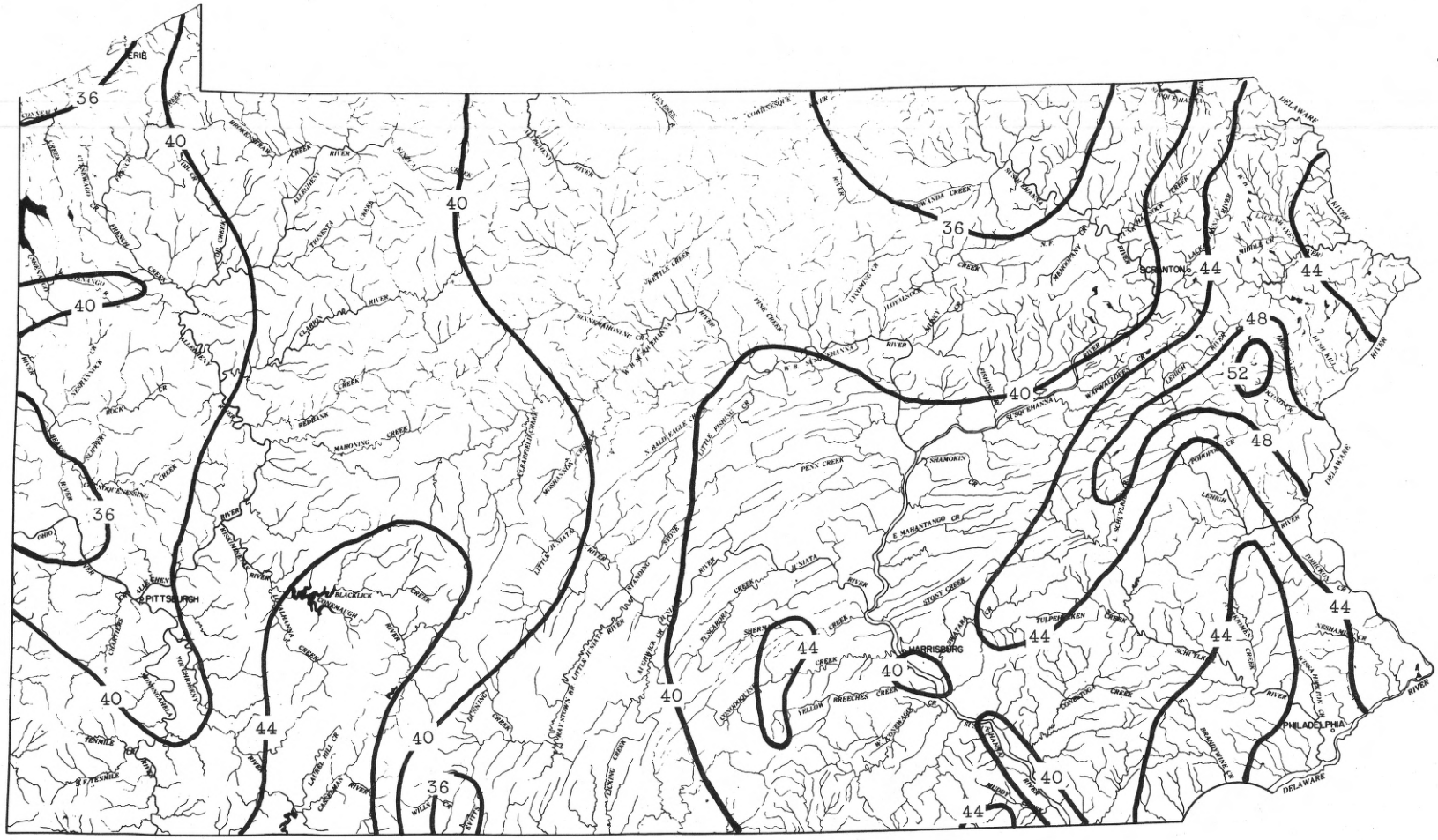
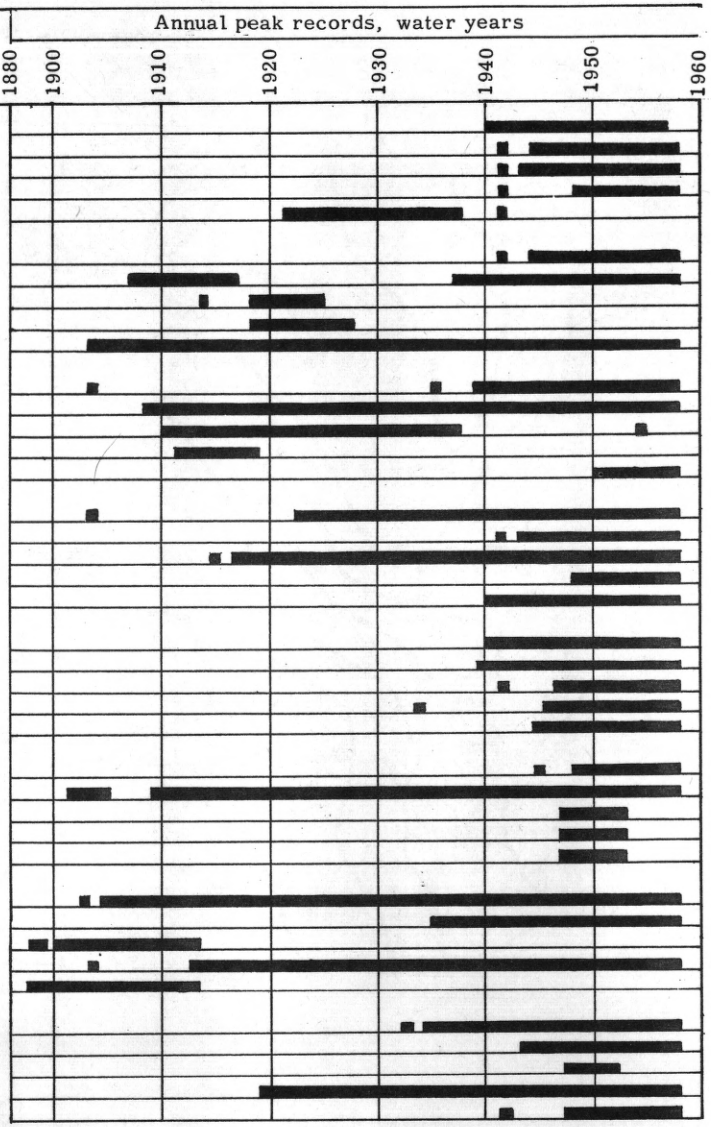


Figure 3. --Average annual precipitation, in inches, period 1931-55.

Table 1. --Gaging station data with bar graph

No.	Gaging station	Drainage area (sq mi)	Mean annual floods (cfs)	Region and area
4285	Delaware River near Barryville, N. Y.	2,023		C - 7
4290	West Branch Lackawaxen River at Prompton	59.7	3,400	B - 2
4295	Dyberry Creek at Dyberry	64.6	4,600	B - 2
4300	Lackawaxen River near Honesdale	164	6,600	B - 2
4305	Lackawaxen River at West Hawley	206		B - 2
4310	Middle Creek near Hawley	78.4	3,200	B - 2
4315	Lackawaxen River at Hawley	290	10,500	B - 2
4320	Wallenpaupack Creek at Wilsonville	228		B - 3
4325	Shohola Creek near Shohola	83.2		B - 3
4340	Delaware River at Port Jervis, N. Y.	3,076		C - 7
4385	Delaware River at Montague, N. J.	3,480		C - 7
4395	Bush Kill at Shoemakers	117	2,400	B - 3
4410	McMichaels Creek at Stroudsburg	65.3	1,950	B - 3
4415	Pocono Creek near Stroudsburg	41.0		B - 3
4425	Brodhead Creek at Minisink Hills	259		B - 3
4465	Delaware River at Belvidere, N. J.	4,535		C - 7
4475	Lehigh River at Stoddartsville	91.7	3,000	A - 8
4480	Lehigh River at Tannery	322	8,500	A - 8
4485	Dilldown Creek near Long Pond	2.39	190	B - 2
4495	Wild Creek at Hatchery	16.8	860	B - 3
4500	Pohopoco Creek near Parryville	109	2,300	B - 3
4505	Aquashicola Creek at Palmerton	76.7	2,700	B - 3
4510	Lehigh River at Walnutport	889	25,000	A - 8
4515	Little Lehigh Creek near Allentown	80.8	900	B - 5
4520	Jordan Creek at Allentown	75.8	2,600	B - 3
4525	Monocacy Creek at Bethlehem	44.5	370	B - 5
4530	Lehigh River at Bethlehem	1,279	28,000	A - 8
4535	Saucon Creek at Lanark	12.0		B - 5
4540	South Branch Saucon Creek at Friedensville	10.6		B - 5
4545	Saucon Creek at Friedensville	26.6		B - 5
4575	Delaware River at Riegelsville, N. J.	6,328		C - 7
4595	Tohickon Creek near Pipersville	97.4	7,000	B - 1
4600	Tohickon Creek at Point Pleasant	107		B - 1
4635	Delaware River at Trenton, N. J.	6,780		C - 7
4650	Neshaminy Creek at Rushland	134		B - 1
4655	Neshaminy Creek at Langhorne	210	10,500	B - 1
4675	Schuylkill River at Pottsville	53.4	2,480	C - 8
4685	Schuylkill River at Landingville	133	4,500	C - 8
4695	Little Schuylkill River at Tamaqua	42.9	2,000	B - 2
4705	Schuylkill River at Berne	355	13,500	C - 8



No.	Gaging station	Drainage area (sq mi)	Mean annual floods (cfs)	Region and area	
4710	Tulpehocken Creek near Reading	211	5,000	B - 3	
4715	Schuylkill River at Reading	880		C - 8	a
4720	Schuylkill River at Pottstown	1,147	23,600	C - 8	
4725	Perkiomen Creek near Frederick	152		B - 1	
4730	Perkiomen Creek at Graterford	279	17,800	B - 1	
4735	Schuylkill River at Norristown	1,760		C - 8	
4740	Wissahickon Creek near Philadelphia	64.6		B - 1	
4745	Schuylkill River at Philadelphia	1,893	49,300	C - 8	b
4760	Crum Creek at Woodlyn	33.3		B - 3	
4765	Ridley Creek at Moylan	31.9	1,200	B - 3	
4770	Chester Creek near Chester	61.1	3,400	C - 4	
4805	West Branch Brandywine Creek at Coatesville	45.8	1,400	B - 3	
4810	Brandywine Creek at Chadds Ford	287	7,200	C - 4	
4815	Brandywine Creek at Wilmington, Del.	314			
5030	Susquehanna River at Conklin, N. Y.	2,240			
5180	Tioga River at Tioga	282		D - 9	
5200	Cowanesque River near Lawrenceville	295		D - 9	
5310	Chemung River at Chemung, N. Y.	2,530			
5315	Susquehanna River at Towanda	7,797	113,000	F - 10	c
5320	Towanda Creek near Monroeton	215	10,400	D - 9	
5335	North Fork Mehoopany Creek near Lovelton	35.2	1,770	D - 9	
5340	Tunkhannock Creek at Dixon	383	16,100	D - 9	
5345	Lackawaxen River at Archbald	108	3,080	D - 3	
5355	Lackawaxen River at Moosic	264		D - 3	
5360	Lackawaxen River at Old Forge	332	7,990	D - 3	
5365	Susquehanna River at Wilkes-Barre	9,960	125,000	F	d
5370	Toby Creek at Luzerne	32.4	1,250	D - 3	
5375	Solomon Creek at Wilkes-Barre	15.7	1,020	D - 2	
5380	Wapwallopen Creek near Wapwallopen	43.8	1,400	D - 3	
5385	Nescopeck Creek near St. Johns	49		E - 3	
5390	Fishing Creek near Bloomsburg	274	10,200	D - 9	
5395	Little Fishing Creek at Eyers Grove	56.5	2,070	D - 3	
5400	Fishing Creek at Bloomsburg	355		D - 3	
5405	Susquehanna River at Danville	11,220	136,000	F	
5410	West Branch Susquehanna River at Bower	315	8,300	D - 3	
5415	Clearfield Creek at Dimeling	371	8,600	D - 3	
5420	Moshannon Creek at Osceola Mills	68.8	1,790	D - 3	
5425	West Branch Susquehanna River at Karthaus	1,462	26,800	F	
5430	Driftwood Br. Sinnemahoning Cr. at Sterling Run	272	8,800	D - 2	
5435	Sinnemahoning Creek at Sinnemahoning	685	16,500	D - 2	



Table 1. --Gaging station data with bar graph. --Continued

No.	Gaging station	Drainage area (sq mi)	Mean annual floods (cfs)	Region and area
5445	Kettle Creek at Cross Fork	136	3,150	D - 3
5455	West Branch Susquehanna River at Renovo	2,975	65,000	F
5460	North Bald Eagle Creek at Milesburg	119		E - 3
5465	Spring Creek near Axemann	87.2	753	E - 5
5470	Spring Creek near Bellefonte	145		E - 5
5480	North Bald Eagle Creek at Beech Creek Station	559	10,900	E - 3
5485	Pine Creek at Cedar Run	604	12,400	D - 3
5490	Pine Creek near Waterville	750		D - 3
5495	Blockhouse Creek near English Center	37.7	2,300	D - 9
5500	Lycoming Creek near Trout Run	173	6,900	D - 9
5510	Grafius Run at Williamsport	3.14	329	D - 9
5515	West Branch Susquehanna River at Williamsport	5,682	110,000	F
5520	Loyalsock Creek at Loyalsock	443	18,300	D - 9
5525	Muncy Creek near Sonestown	23.8	1,360	D - 9
5535	West Branch Susquehanna River at Lewisburg	6,847		F
5540	Susquehanna River at Sunbury	18,300	223,000	F
5545	Shamokin Creek at Weigh Scale	54.2	1,440	E - 3
5550	Penn Creek at Penns Creek	301	7,630	E - 3
5555	East Mahantango Creek near Dalmatia	162	5,300	E - 3
5560	Frankstown Branch Juniata River at Williamsburg	291	7,800	E - 3
5565	Little Juniata River at Tipton	93.7	3,070	E - 3
5570	Little Juniata River near Tyrone	101		E - 3
5575	South Bald Eagle Creek at Tyrone	44.1	1,790	E - 3
5580	Little Juniata River at Spruce Creek	220	6,040	E - 3
5585	Shaver Creek near Petersburg	46.4	2,080	E - 3
5590	Juniata River at Huntingdon	816	16,300	E - 3
5595	Standing Stone Creek near Huntingdon	128	2,910	E - 3
5600	Dunning Creek at Belden	172	4,770	E - 3
5605	Dunning Creek at Yount	191		E - 3
5610	Brush Creek at Gapsville	36.8	1,040	E - 3
5620	Raystown Branch Juniata River at Saxton	756	15,100	E - 3
5625	Great Trough Creek near Marklesburg	84.6	2,120	E - 3
5630	Raystown Branch Juniata River near Huntington	957	16,200	E - 3
5635	Juniata River at Mapleton Depot	2,030	31,300	F
5640	Aughwick Creek near Orbisonia	174		E - 2
5645	Aughwick Creek near Three Springs	205	8,060	E - 2
5650	Kishacoquillas Creek at Reedsville	164	3,020	E - 3
5660	Tuscarora Creek near Port Royal	214	6,850	E - 2
5665	Cocolamus Creek near Millerstown	57.2	3,550	E - 9
5670	Juniata River at Newport	3,354	51,000	F

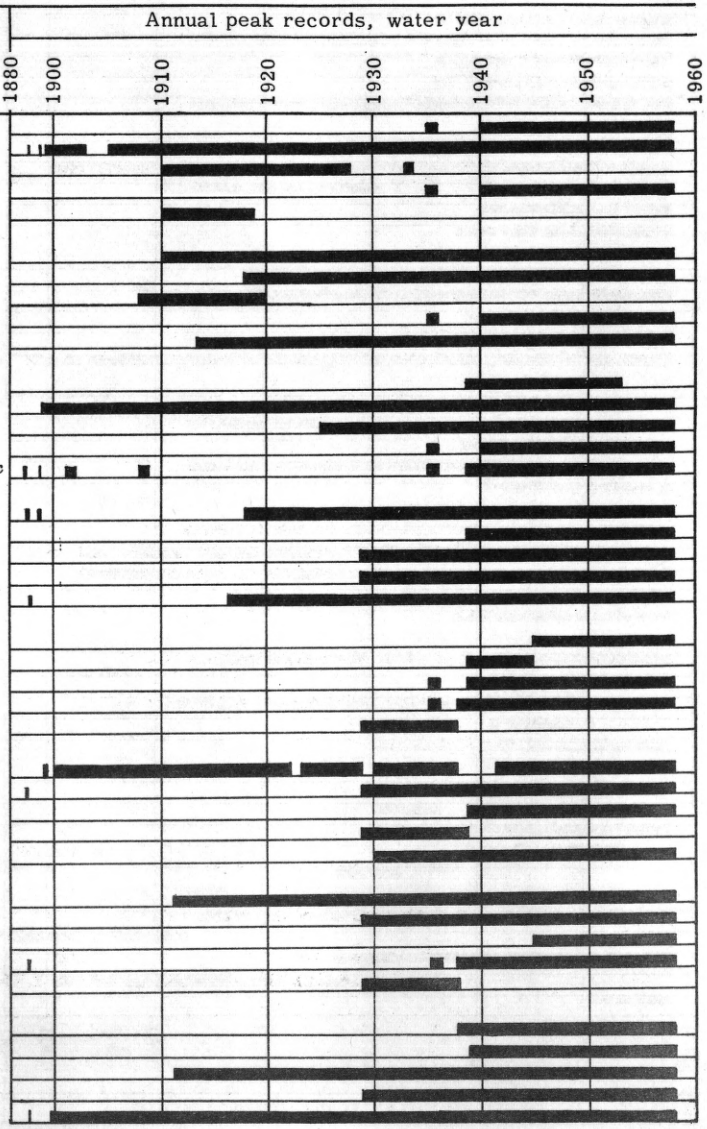


Table 1. --Gaging station data with bar graph. --Continued

No.	Gaging station	Drainage area (sq mi)	Mean annual floods (cfs)	Region and area
5680	Sherman Creek at Shermandale	200	9,330	E - 9
5685	Clark Creek near Carsonville	22.5		E - 3
5690	Stony Creek near Dauphin	35	869	E - 3
5700	Conodoguinet Creek near Hogestown	470	9,120	E - 3
5705	Susquehanna River at Harrisburg	24,100	287,000	F
5710	Paxton Creek near Penbrook	11.2	1,590	E - 3
5715	Yellow Breeches Creek near Camp Hill	216	2,490	E - 5
5720	Lower Little Swatara Creek at Pine Grove	34.4		E - 3
5730	Swatara Creek at Harper Tavern	333	9,800	E - 3
5735	Manada Creek at Manada Gap	14.1	678	E - 3
5740	West Conewago Creek near Manchester	510	17,200	E - 2
5745	Codorus Creek at Spring Grove	74.3	2,680	E - 3
5750	South Branch Codorus Creek near York	117	2,630	E - 3
5735	Codorus Creek near York	222	4,660	E - 3
5760	Susquehanna River at Marietta	25,990	296,000	F
5765	Conestoga Creek at Lancaster	324	7,580	E - 3
5770	Susquehanna River near McCall Ferry	26,800		F
5775	Muddy Creek at Castle Fin	133	4,660	C - 4
6010	Wills Creek below Hyndman	146	5,090	D - 2
6035	Evitts Creek below Centerville	30.2	1,190	D - 3
6135	Licking Creek near Sylvan	158	5,670	D - 2
105	Allegheny River at Eldred	550	7,300	D - 14
115	Allegheny River at Red House, N. Y.	1,690	25,100	
120	Kinzua Creek at Dewdrop	171		D - 3
125	Allegheny River near Kinzua	2,179	32,000	D - 14
130	Conewango Creek at Waterboro, N. Y.	290	3,670	
150	Conewango Creek at Russell	816		D - 3
155	Brokenstraw Creek at Youngsville	321	7,500	D - 3
160	Allegheny River at West Hickory	3,660	48,900	D - 14
165	Tionesta Creek at Sheffield	128	3,200	D - 3
170	South Branch Tionesta Creek at Barnes	85.3	2,250	D - 3
175	Tionesta Creek at Lynch	233	5,450	D - 3
180	Tionesta Creek at Mayburg	307		D - 3
190	Tionesta Creek at Nebraska	469	10,700	D - 3
200	Tionesta Creek at Tionesta Creek Dam	479		D - 3
205	Oil Creek at Rouseville	300	8,000	D - 3
215	French Creek at Carters Corners	208	7,200	D - 2
220	French Creek at Venango	597		D - 3
225	French Creek at Saegerstown	629	12,100	D - 3
230	Cussewago Creek near Meadville	90.2	1,790	D - 3

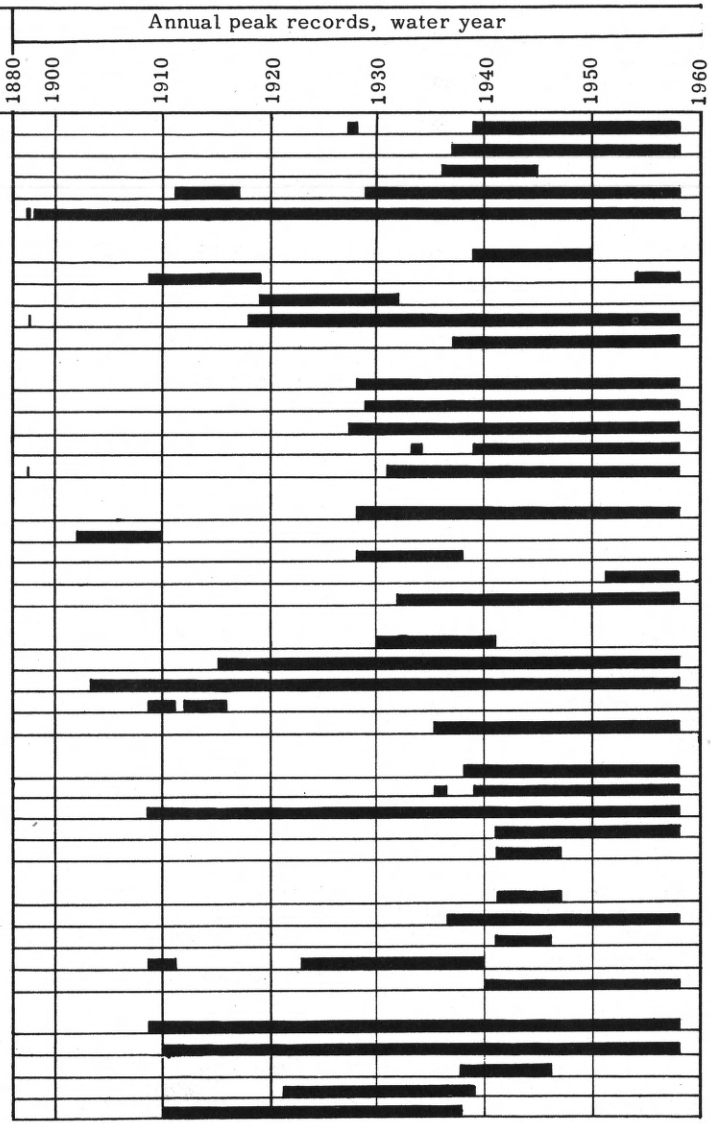


Table 1. --Gaging station data with bar graph. --Continued

No.	Gaging station	Drainage area (sq mi)	Mean annual floods (cfs)	Region and area	
235	French Creek at Carlton	998		D - 3	
240	French Creek at Utica	1,028	13,500	D - 3	
245	Sugar Creek at Wyattville	153		D - 3	
250	Sugar Creek at Sugarcreek	166	5,260	D - 3	c
255	Allegheny River at Franklin	5,982			
265	Sevenmile Run near Rasselas	7.84	287	D - 3	
275	East Br. Clarion R. at East Br. Clarion R. Dam	73.2			
280	West Branch Clarion River at Wilcox	63.0		D - 3	
285	Clarion River at Johnsonburg	204		D - 3	
290	Clarion River at Ridgway	303	9,210	D - 2	
295	Clarion River at Cooksburg	807	21,800	D - 2	
305	Clarion River near Piney	951			
310	Clarion River at St. Petersburg	1,246			
315	Allegheny River at Parkers Landing	7,671			c
325	Redbank Creek at St. Charles	528	12,200	D - 3	
330	Allegheny River near Rimer	8,389			
340	Mahoning Creek at Punxsutawney	158	4,460	D - 3	
345	Little Mahoning Creek at McCormick	87.4	3,430	D - 3	
350	Mahoning Creek near Dayton	321	6,110	D - 3	
360	Mahoning Creek at Mahoning Creek Dam	344		D - 3	
365	Allegheny River at Kittanning	8,973			f
375	South Branch Plum Creek at Willet	30.0	902	D - 3	
380	Crooked Creek at Idaho	191	6,500	D - 2	
390	Crooked Creek at Crooked Creek Dam	278		D - 2	
400	Stony Creek at Ferndale	451	11,800	D - 2	
410	Little Conemaugh River at East Conemaugh	183	5,830	D - 2	
415	Conemaugh River at Seward	715	20,200	D - 2	
420	Blacklick Creek at Josephine	192		D - 2	
425	Two Lick Creek at Graceton	171	6,200	D - 2	
430	Blacklick Creek at Blacklick	390	12,200	D - 2	
440	Conemaugh River at Tunnelton	1,358	29,400	D - 2	
450	Loyalhanna Creek at Kingston	172	6,960	D - 2	
455	Loyalhanna Creek at New Alexandria	265		D - 2	
470	Loyalhanna Creek at Loyalhanna Creek Dam	292		D - 2	
475	Kiskiminetas River at Avonmore	1,723	37,100	D - 2	
485	Kiskiminetas River at Vandergrift	1,825		D - 2	
490	Buffalo Creek near Freeport	137	4,230	D - 3	
495	Allegheny River at Natrona	11,410			
615	Buffalo Creek at Barrackville, W. Va.	115	5,920		
625	Deckers Creek at Morgantown, W. Va.	63.2	1,770		

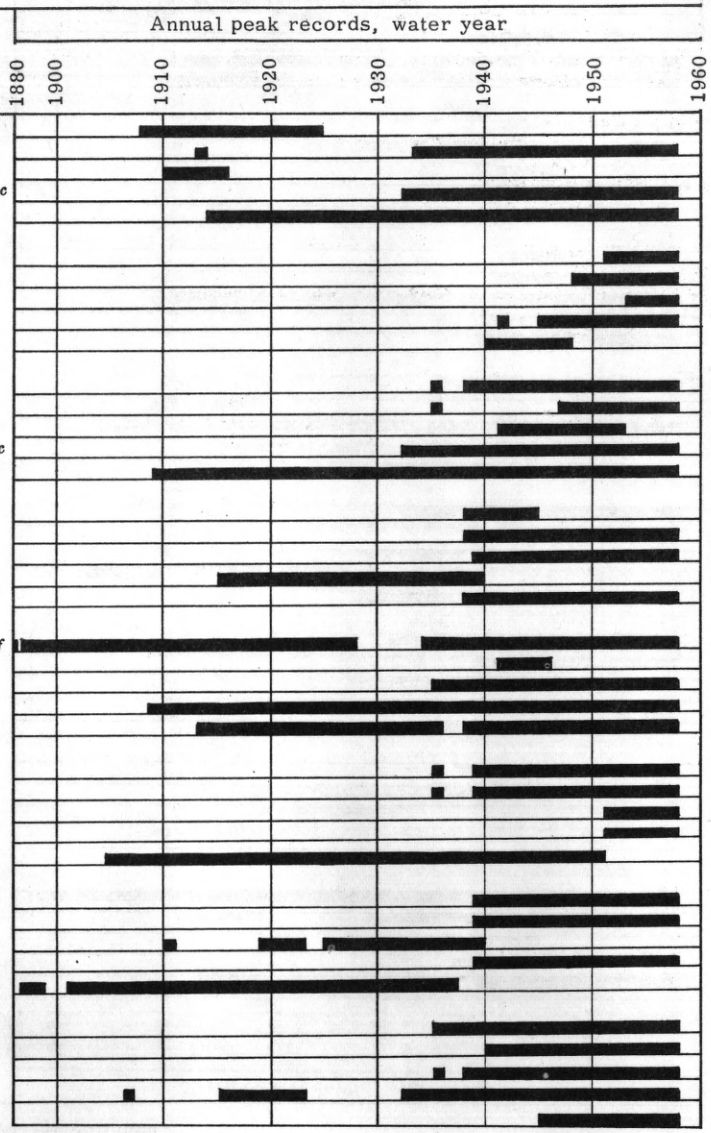


Table 1. --Gaging station data with bar graph. --Continued

No.	Gaging station	Drainage area (sq mi)	Mean annual floods (cfs)	Region and area
630	Monongahela River at Lock 8, at Point Marion	2,720		
705	Big Sandy Creek at Rockville, W. Va.	200	7,600	
710	Cheat River near Pisgah, W. Va.	1,354	44,000	
720	Dunkard Creek at Shannopin	229	7,850	D - 2
725	Monongahela River at Greensboro	4,407		
730	South Fork Tenmile Creek at Jefferson	180	6,000	D - 2
740	Dunlap Creek at Allison	33.1	865	D - 2
745	Redstone Creek at Waltersburg	73.7	2,260	D - 2
750	Monongahela River at Charleroi	5,213		
765	Youghiogheny River at Friendsville, Md.	295	6,390	
775	Youghiogheny River at Youghiogheny River Dam	436		
780	Casselman River at Grantsville, Md.	62.5	2,780	
785	Big Piney Run near Salisbury	24.5	1,180	D - 2
790	Casselman River at Markleton	382	11,700	D - 2
800	Laurel Hill Creek at Ursina	121	4,600	D - 2
810	Youghiogheny River below Confluence	1,029		D - 2
815	Youghiogheny River at Ohiopyle	1,062		D - 2
825	Youghiogheny River at Connellsville	1,326	32,000	D - 2
830	Green Lick Run at Green Lick Reservoir	3.07	367	D - 2
835	Youghiogheny River at Sutersville	1,715	38,100	D - 2
840	Abers Creek near Murrysville	4.39	649	D - 2
845	Turtle Creek at Trafford	55.9	2,590	D - 2
850	Monongahela River at Braddock	7,337		
855	Chartiers Creek at Carnegie	257	5,920	D - 3
860	Ohio River at Sewickley	19,500		
1000	Shenango River near Turnerville	152		D - 2
1010	Sugar Run at Pymatuning Dam	9.34	564	D - 2
1015	Shenango River at Pymatuning Dam	167		D - 2
1020	Shenango River near Jamestown	181		D - 2
1025	Little Shenango River at Greenville	104	2,760	D - 2
1030	Pymatuning Creek near Orangeville	169	3,240	D - 3
1035	Shenango River at Sharpsville	588		D - 3
1040	Shenango River at Sharon	608	6,770	D - 3
1045	Shenango River at New Castle	792		D - 3
1050	Neshannock Creek at Eastbrook	228		D - 3
1055	Beaver River at Wampum	2,235		
1060	Connoquenessing Creek at Hazen	356	8,600	D - 3
1065	Slippery Rock Creek at Wurtemburg	398	8,300	D - 3
1075	Beaver River at Beaver Falls	2,106		
1080	Raccoon Creek at Moffatts Mill	178	5,360	D - 3

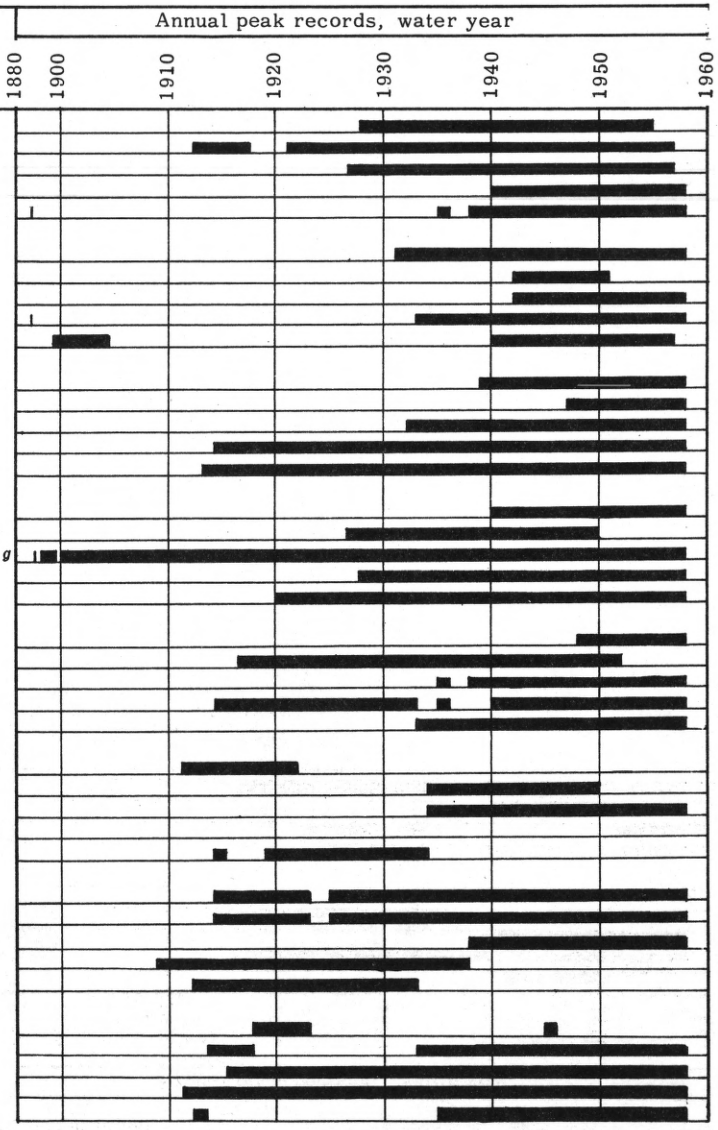
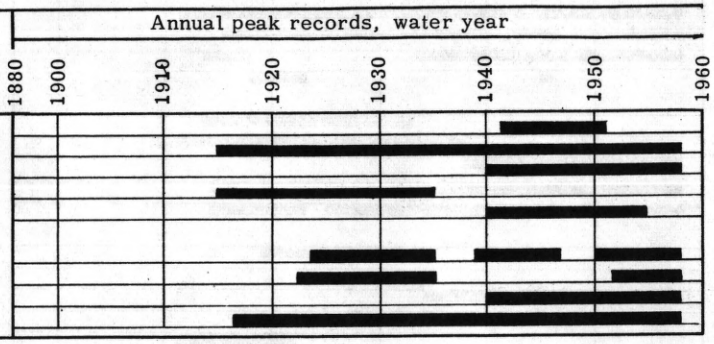


Table 1. --Gaging station data with bar graph. --Continued

No.	Gaging station	Drainage area (sq mi)	Mean annual floods (cfs)	Region and area	Annual peak records, water year
1085	Ohio River at Montgomery Island Dam	22,960			
1095	Little Beaver Creek near East Liverpool, Ohio	505	11,700		
1100	Yellow Creek near Hammondsville, Ohio	148	4,370		
1105	Yellow Creek at Hammondsville, Ohio	169			
1120	Wheeling Creek at Elm Grove, W. Va.	282	9,020		
2125	Ashtabula River near Ashtabula, Ohio	118	5,400		
2130	Conneaut Creek at Amboy, Ohio	178	6,390		
2135	Cattaraugus Creek at Gowanda, N. Y.	428	17,700		
2215	Genesee River at Scio, N. Y.	309	7,540		



[a] 1757, 1787, 1822, 1839, 1841, 1850, 1862, 1870, 1874, 1878-79
[b] 1870
[c] 1865
[d] 1787, 1807, 1809, 1833, 1865
[e] 1786, 1846, 1865, 1868, 1886
[f] 1806, 1832, 1865, 1874
[g] 1860

1. Results are not applicable to regulated streams.

2. Results cannot be applied to streams which drain areas smaller than the smallest area for which basic data are available.

The term "recurrence interval", as used in this report, means the average interval of time within which a given flood will be equaled or exceeded once. A 25-year flood, for example, is equaled or exceeded on the average once in 25 years. It is more meaningful to consider a 25-year flood as one that has a 4 percent chance of occurring in any one year.

A brief description of the methods of analysis are given in this section. For a more detailed description, the reader is referred to Geological Survey Water-Supply Paper 1543-A, "Flood-Frequency Analyses," by Tate Dalrymple.

Relation of Peak Discharge to Recurrence Interval

The regional relations between annual peak discharge and recurrence interval were determined by combining records of annual floods from individual gaging stations. In order to use this method it was necessary for the records to be based on the same time period and for them to be homogeneous.

Analysis of Gaging-Station Data

For each gaging station, plotting positions were computed for each annual flood for a common period of years (base period). Plotting positions were computed using the equation, $RI = (n + 1)/m$, where RI is the recurrence interval in years, n is the number of years of record, and m is the relative order of magnitude of the annual floods beginning with the highest as number 1. Records shorter than the base period were extended to that length by estimating annual floods for years of no record by correlation with records for nearby stations. Estimated floods were used only to obtain the proper order number for observed annual floods. Where available, historical flood data were used to extend the length of record.

Individual flood-frequency curves were plotted for each gaging station using special coordinate paper designed to make the plotted points approximate a straight line. A curve of best fit was determined visually for each station. (For an example, see fig. 4).

Test for Homogeneity

The station records were separated into homogeneous groups by means of a statistical test based on the theory of extreme values, as described in Water-Supply Paper 1543-A. [1]

Composite Frequency Curve

A composite frequency curve was defined for each group of homogeneous station records. From the individual flood-frequency curves, the flood discharges were determined for selected recurrence intervals (1.1, 1.5, 2.33, 5, 10, 15, 25, and 50). The selected flood discharges were reduced to dimensionless terms by expressing them as ratios to the mean annual flood (2.33-year recurrence interval). Using all records in the homogeneous group, the median ratio was determined for each selected recurrence interval. The median ratios were then plotted against the corresponding recurrence intervals and a smooth curve drawn on the basis of the plotted points.

Adjustment to Long Base Period

For reliable results, flood-frequency curves should be based on as long a period of record as possible. However, for this report, it did not seem feasible to extend all records back to cover the longest period. Accordingly, a curve was first developed for each region using all applicable records for a short base period. For the long-term records, two curves were drawn, one based on the

[1] Dalrymple, Tate, 1960, Flood-frequency analyses: U. S. Geol. Survey Water-Supply Paper 1543-A, 80 p.

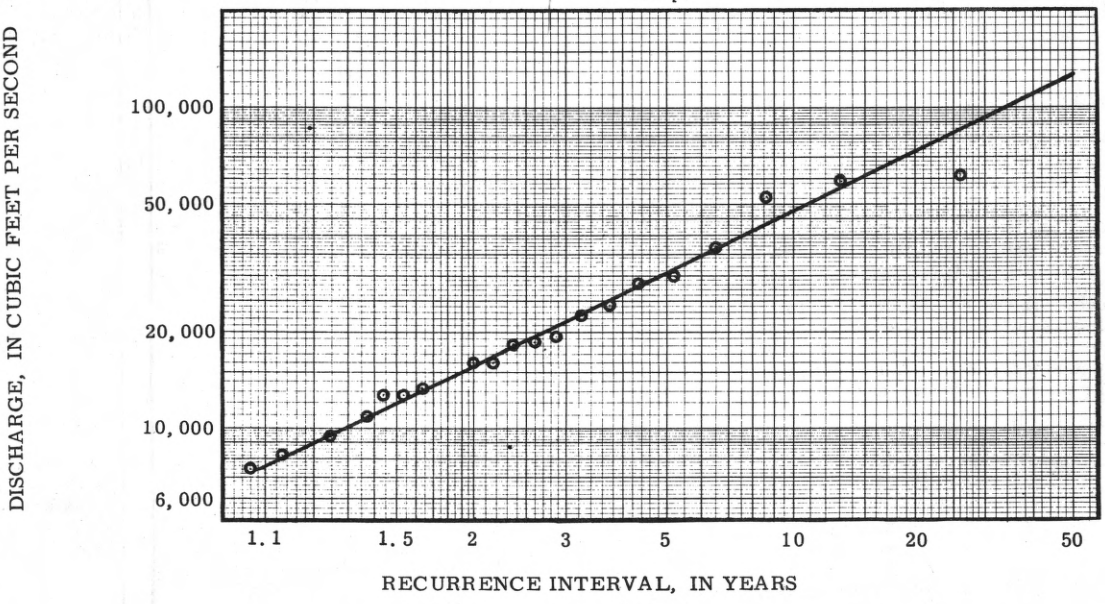


Figure 4. --Frequency of annual floods, Sinnemahoning Creek at Sinnemahoning.

short base period and the other on a long base period. The original curve was then adjusted to the long base period by ratios representing the differences between the latter two curves at selected recurrence intervals. The regions to which the final curves are applicable are referred to as "flood regions".

Relation of Mean Annual Flood to Drainage Area

By use of the curves described in the previous section, a flood-frequency curve can be drawn for any location in Pennsylvania as long as the magnitude of the mean annual flood is known. There are many physical characteristics that may affect the magnitude of a flood of any given frequency (including the mean annual flood) at a particular site on a stream. In Pennsylvania, the size of the drainage basin is the dominant factor.

To relate mean annual flood to drainage area, it is necessary that the mean annual floods for all gaging stations be based on the same time period. For the long-term records, the mean annual flood for each gaging station was determined for both the long base period and the short base period. The average ratio of the long-term mean annual flood to the short-term mean annual flood was then obtained. The average ratio was applied to the values of the short-term mean annual flood for the remaining stations to adjust the values to the long base period.

The adjusted long-term mean annual flood for each gaging station was plotted against the corresponding drainage area. There was a considerable scatter in the plotted points, which indicates the probable influence of factors other than size of drainage basin. To compensate for the effect of the outside influences, the plotted data were separated into groups and a separate curve relating mean annual flood to drainage area was prepared for each group. Grouping of the data and delineation of the areas to which the separate curves apply were based on geographical location, variations in topography, and, to some extent, on the underlying geology.

The areas to which the resulting curves apply are referred to as "hydrologic areas". The geographical boundaries of the areas need not, and generally do not, coincide with the boundaries of the flood regions.

FLOOD FREQUENCY IN PENNSYLVANIA

For Delaware River basin in Pennsylvania, flood-frequency relations as defined in the report "Delaware River Basin, Flood Frequency" 2/ were used. In that report, a short base period of 1931-55 was adjusted to a long base period of 1913-55. For the main stems of the Delaware and Schuylkill Rivers, historical data extending back to 1692 were used.

Curves for the remainder of Pennsylvania were defined for a short base period of 1933-57, adjusted to a long base period of 1914-57. For main stem streams in the Susquehanna River basin, historical data extending as far back as 1786 were used.

In making the analyses, records for several gaging stations were not used because of major regulation above the gaging station or short period of record (generally under 5 years). Records for two gaging stations that were operated in close proximity on the same stream for different periods of time were combined and used as one record whenever feasible.

2/ Tice, Richard H., 1958, Delaware River basin, flood-frequency: U. S. Geol. Survey open-file report, 10 p.

Flood Regions of Pennsylvania

With the exclusion of the main stems of the Delaware, Lehigh, and Schuylkill Rivers, the Delaware River basin report indicated that the remainder of the Delaware River basin in Pennsylvania is in two homogeneous regions. Those regions have been designated as regions B and C in accordance with terminology used by Tice. On the basis of homogeneity tests, two additional regions in the remainder of Pennsylvania were outlined. Curves defined for those regions, designated as regions D and E, are not applicable to the main stem of the Susquehanna River and for certain portions of the main stems of the Chemung, West Branch Susquehanna, and Juniata Rivers. The homogeneous flood regions B, C, D, and E are shown on plate 2. Three additional homogeneous regions, which consist of the main stems of certain rivers and which are described in more detail in following paragraphs, have been designated as regions A, C, and F. Note that region C is applicable to both a homogeneous region, consisting of all the tributary streams in an area, and to the main stems of certain rivers.

The composite flood-frequency curves defined for the several regions have been designated by the same letters that were used for the regions, and are shown in figures 5-7. As explained in previous sections, these curves resulted from a plot of discharge as a ratio to the mean annual flood versus recurrence interval in years. A brief description of each flood region and a summary of the data on which each composite flood-frequency curve is based are given in the following section.

Region A consists of the main stem of the Lehigh River. Records for eight gaging stations in Pennsylvania and adjacent States were used in defining the composite flood-frequency curve.

Region B includes all of the Delaware River basin in Pennsylvania except hydrologic area 4 and the main stems of the Lehigh, Schuylkill, and Delaware Rivers. Records for 61 gaging stations in Pennsylvania and adjacent States were used in defining the composite flood-frequency curve.

Region C consists of the main stem of the Schuylkill and Delaware Rivers and a small area in the southeastern part of the State (hydrologic area 4). The flood-frequency curve is defined by records for 18 gaging stations.

Region D which lies roughly north and west of the Appalachian Front, covers nearly two-thirds of the State. It includes the Ohio and St. Lawrence River basins in Pennsylvania, about half of the Susquehanna River basin in the State, and a small part of the Potomac River basin. The flood-frequency curve is defined by records for 93 gaging stations, including a few stations in neighboring States. The curve is not applicable to those streams that are affected by major regulation from flood-control reservoirs. Region D includes the Youghiogheny and Kiskiminetas River basins, for which a flood-frequency curve was published in Geological Survey Circular 204. The curve published in the Circular and the curve for region D are in close agreement.

Region E which covers the southcentral part of the State, includes many tributaries of the Susquehanna River and a few tributaries of the Potomac River. The flood-frequency curve is defined by records for 33 gaging stations, including a few stations in Maryland.

Region F consists of the main stems of the Susquehanna and Chemung Rivers in Pennsylvania,

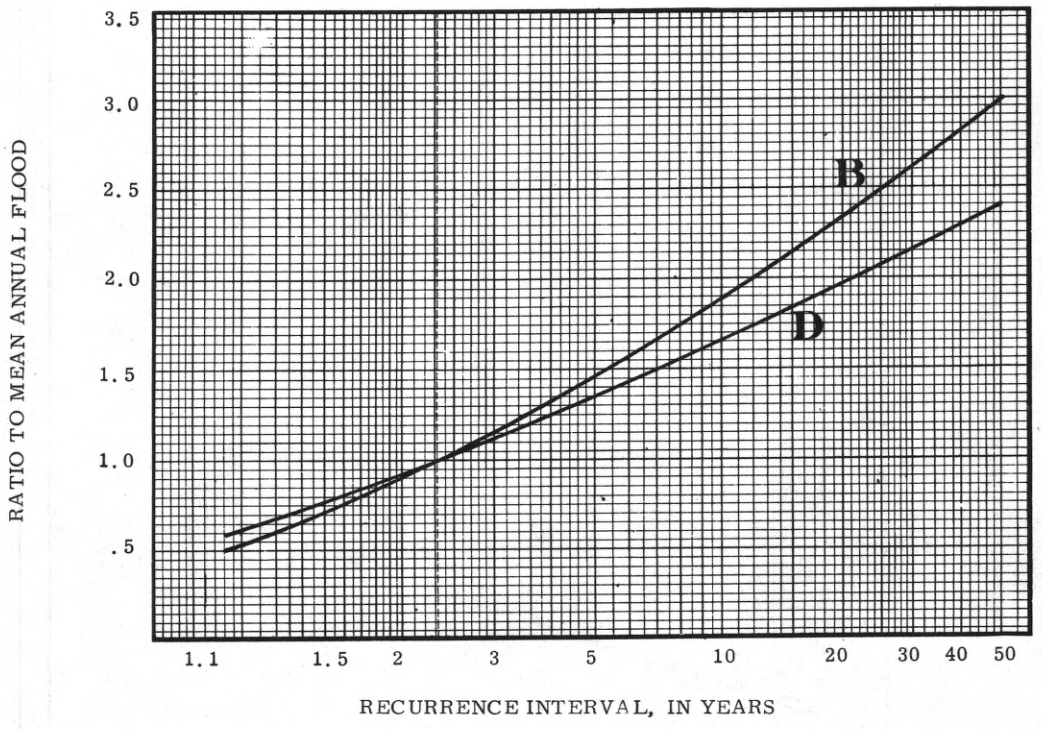


Figure 5.--Frequency of annual floods, regions B and D.

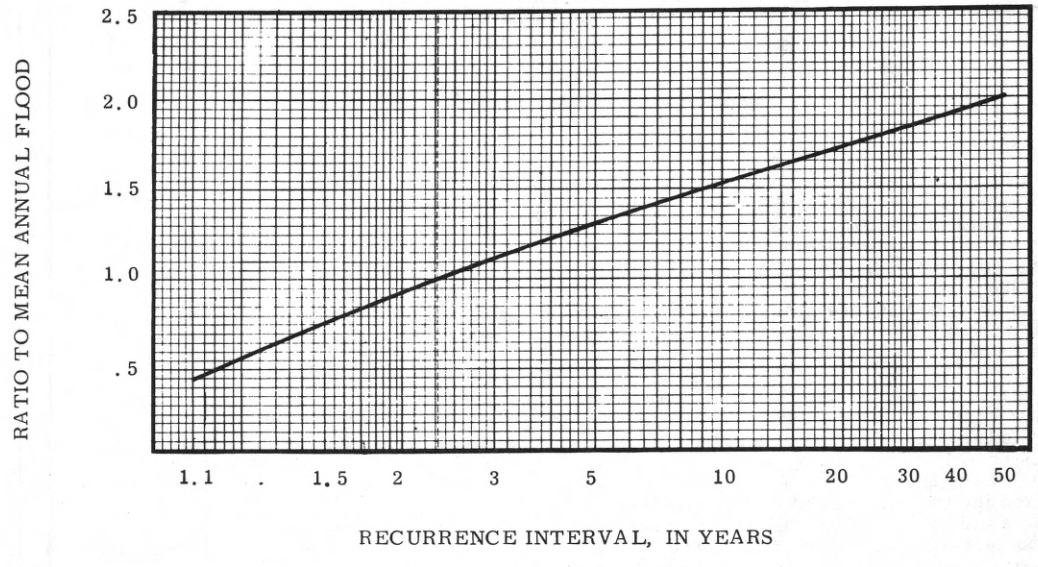


Figure 6.--Frequency of annual floods, region E.

and those portions of the main stems of the West Branch Susquehanna and Juniata Rivers that drain in excess of 1,000 square miles. The flood-frequency curve is defined by records for 13 gaging stations, including two stations in New York.

Hydrologic Areas of Pennsylvania

In order to apply flood-frequency curves described in the previous section, the magnitude of the mean annual flood must be known. As mentioned previously, the dominant factor affecting the size of the mean annual flood in Pennsylvania is the size of the drainage basin. However, the relation of mean annual flood to drainage area was found to vary considerably within the State. Accordingly, the State was divided into 6 principal hydrologic areas, in each of which the base data indicate a similarity in hydrologic conditions relating to floods. Several of the hydrologic areas consist of two or more subareas. A curve of mean annual flood versus drainage area

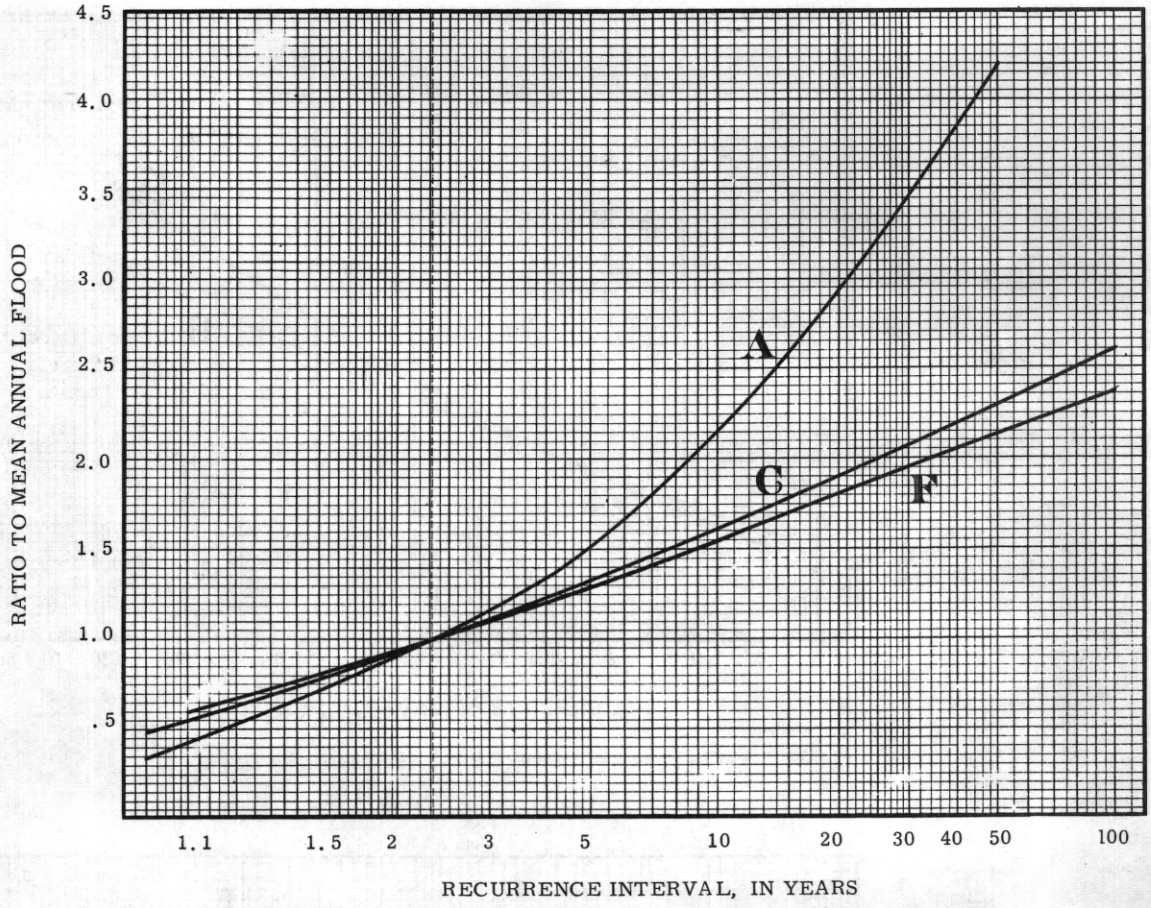


Figure 7.--Frequency of annual floods, regions A, C, and F.

was defined for each area. Since the larger rivers drain parts of several hydrologic areas, separate curves were drawn for the main stems of the Lehigh, Schuylkill, Delaware, Chemung, and Susquehanna Rivers; for those portions of the main stems of the West Branch Susquehanna and Juniata Rivers which drain over 1,000 square miles; and for that portion of the main stem of the Allegheny River between Eldred and Tionesta Creek.

The numbering system used to identify the various hydrologic areas and applicable curves in the Delaware River basin report has been continued in this report. Curve 1 applies only to a portion of the Delaware River basin. Curves 2-5 were constructed for the corresponding hydrologic areas in the Delaware River basin, but are also applicable to other areas in Pennsylvania. Curve 6 in the Delaware report does not apply to Pennsylvania and neither a hydrologic area 6 nor a curve 6 have been designated in this report. Curves 7 and 8 apply to the main stems of certain streams in the Delaware River basin. Curve 9 has been defined for certain areas in the Susquehanna River basin. Curves 10-14 have been defined for the main stems of certain streams in the Susquehanna and Ohio River basins. The six hydrologic area curves (nos. 1-5, 9) and the seven main stem curves (nos. 7, 8, 10-14) are presented in figures 8-11.

The hydrologic areas of Pennsylvania are shown on plate 2. Because of inadequate data for defining the areal boundaries, it was sometimes necessary to select these boundaries somewhat arbitrarily. Generally, the boundaries follow drainage divides or major streams, but in some areas the boundaries cross stream lines. In a few instances, delineation of the boundaries was based on consideration of the underlying geological formations.

Area 1 is in southeastern Pennsylvania and includes the Tohickon, Neshaminy, Perkiomen, and French Creek basins. The size of the mean annual flood in relation to drainage area is higher in area 1 than in any other hydrologic area of the State. Records of mean annual floods for seven gaging stations were used for defining the relation with drainage area.

Area 2 consists of six separate subareas, some of which are a considerable distance apart. The relation between mean annual flood and drainage area is defined by records for 59 gaging stations. The subareas are delineated as follows:

1. In northeastern Pennsylvania; includes the Lackawaxen River basin above Wallenpaupack Creek and numerous smaller basins which drain directly into the Delaware River.

2. In east-central Pennsylvania along the divide between the Delaware and Susquehanna River basins; includes tributary streams in the upper Lehigh and Schuylkill River basins and streams flowing from the east into the

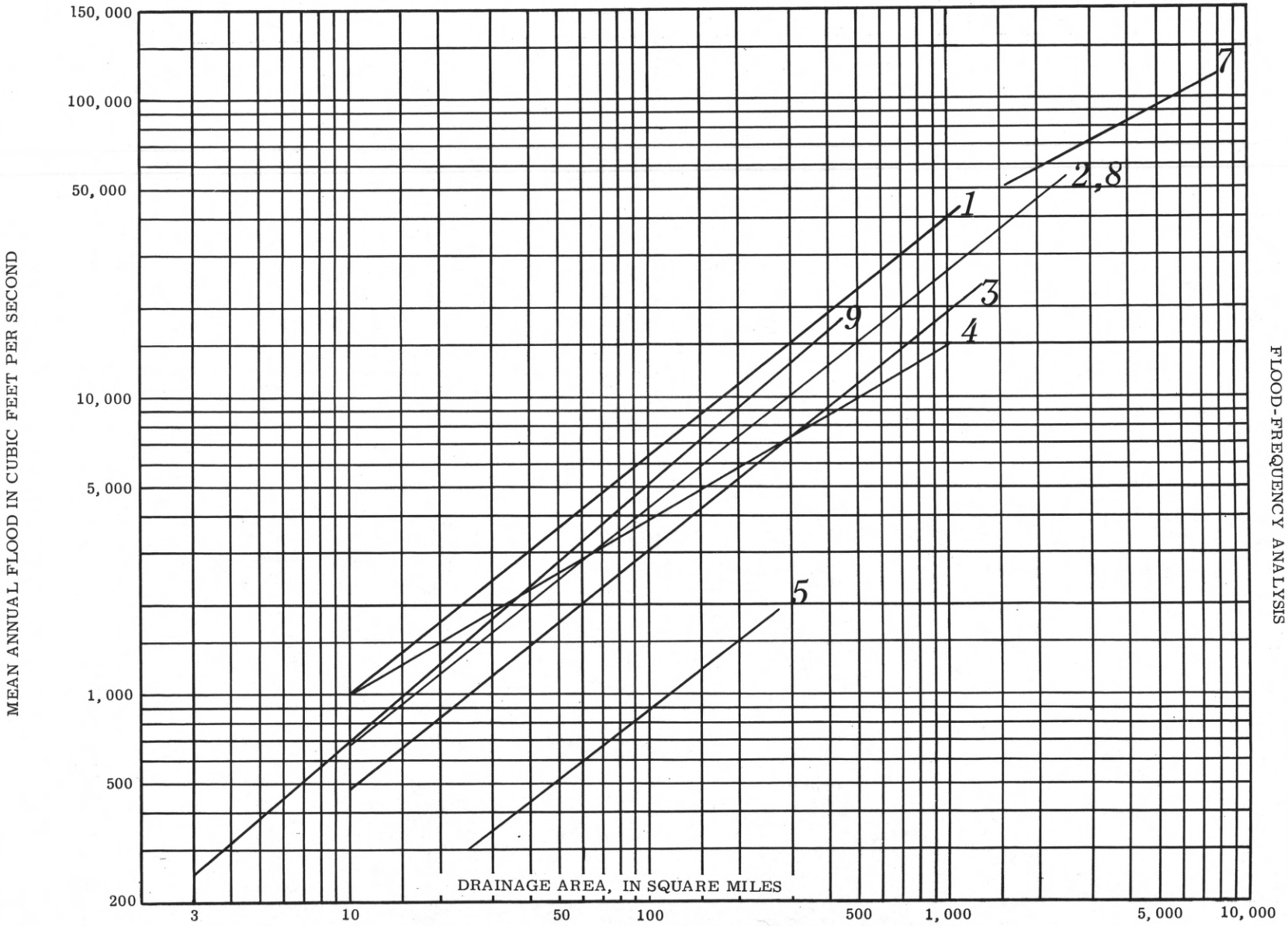


Figure 8. --Variation of the mean annual flood with drainage area in hydrologic areas 1-5 and 7-9.

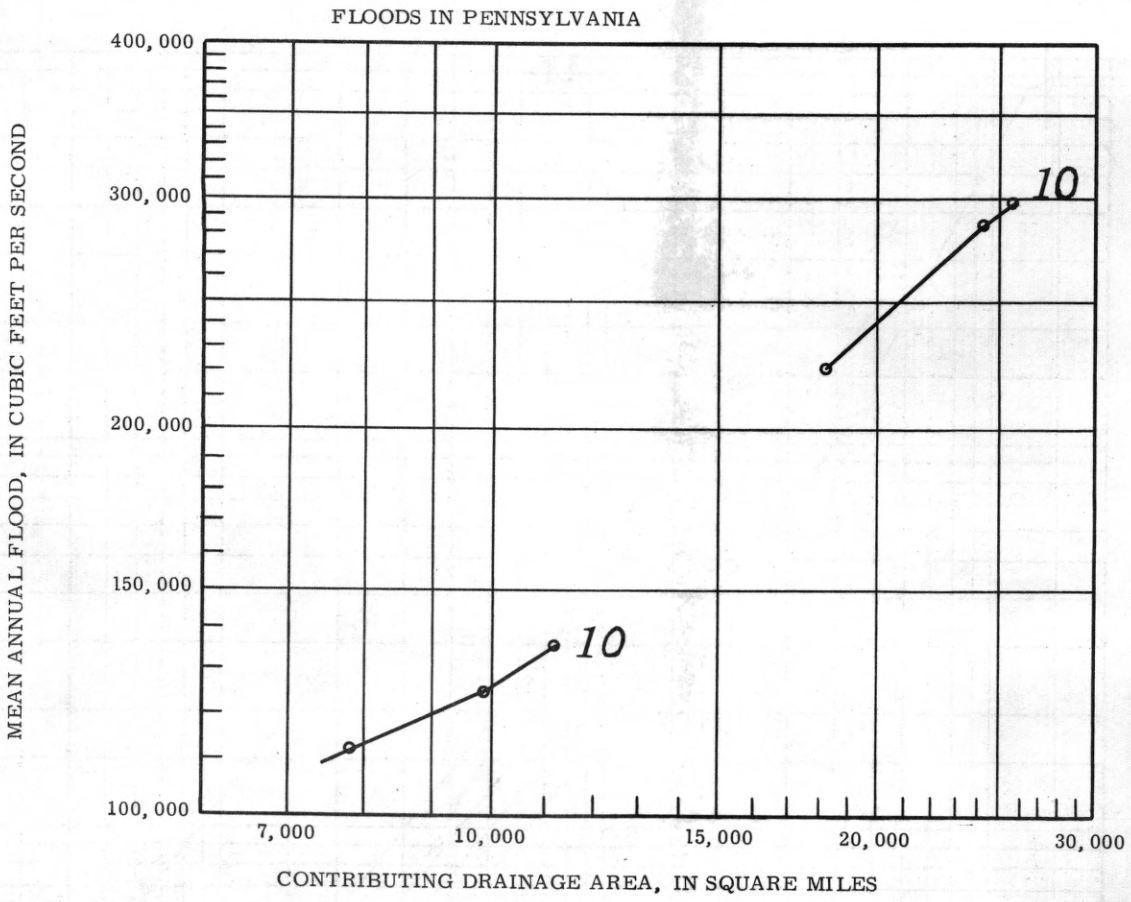


Figure 9. --Variation of mean annual flood with drainage area on the Susquehanna River below the Chemung River.

Susquehanna River in the vicinity of Wilkes-Barre.

3. In north-central Pennsylvania; includes the Sinnemahoning Creek and upper Clarion River basins.

4. In northwestern Pennsylvania; includes the Lake Erie drainage basin and the upper reaches of French Creek and Shenango River basins.

5. In south-central Pennsylvania; includes the Aughwick, Tuscarora, and West Conewago Creek basins and many small streams in the Potomac River basin.

6. In southwestern Pennsylvania; includes the Monongahela and Kiskiminetas River basins. The curve for hydrologic area 2 agrees closely with the curve used for Youghiogheny and Kiskiminetas River basins in Geological Survey Circular 204.

Area 3 consists of almost 50 percent of the State and includes numerous subareas in all sections of the State. Records of mean annual floods for 81 gaging stations were used for defining the relation with drainage area.

Area 4 consists of a small section of southeastern Pennsylvania along the Maryland border which extends from Chester Creek basin in the east to Muddy Creek basin in the west, and includes the lower portion of the Brandywine Creek basin. The relation of mean annual flood to drainage area is defined by records for seven gaging stations.

Area 5 consists of three separate subareas. Although separated by considerable distances, the subareas have similar runoff characteristics, probably caused primarily by the similarity of the underlying geological formations. Peak discharge per unit of drainage area is lower in hydrologic area 5 than elsewhere in the State. Records of mean annual floods for four gaging stations were used for defining the relation with drainage area. The subareas are delineated as follows:

1. In the east-central section of the State; includes the Little Lehigh and Monocacy Creek basins.

2. In central Pennsylvania; includes the Spring, Fishing, and Spruce Creek basins and the upper portion of Penn Creek basin.

3. Yellow Breeches Creek basin in south-central Pennsylvania.

Area 7 consists of the main stem of the Delaware River. The hydrologic area curve was based on records for six gaging stations.

Area 8 consists of the main stems of the Lehigh and Schuylkill Rivers. The hydrologic area curve was based on records for nine gaging stations.

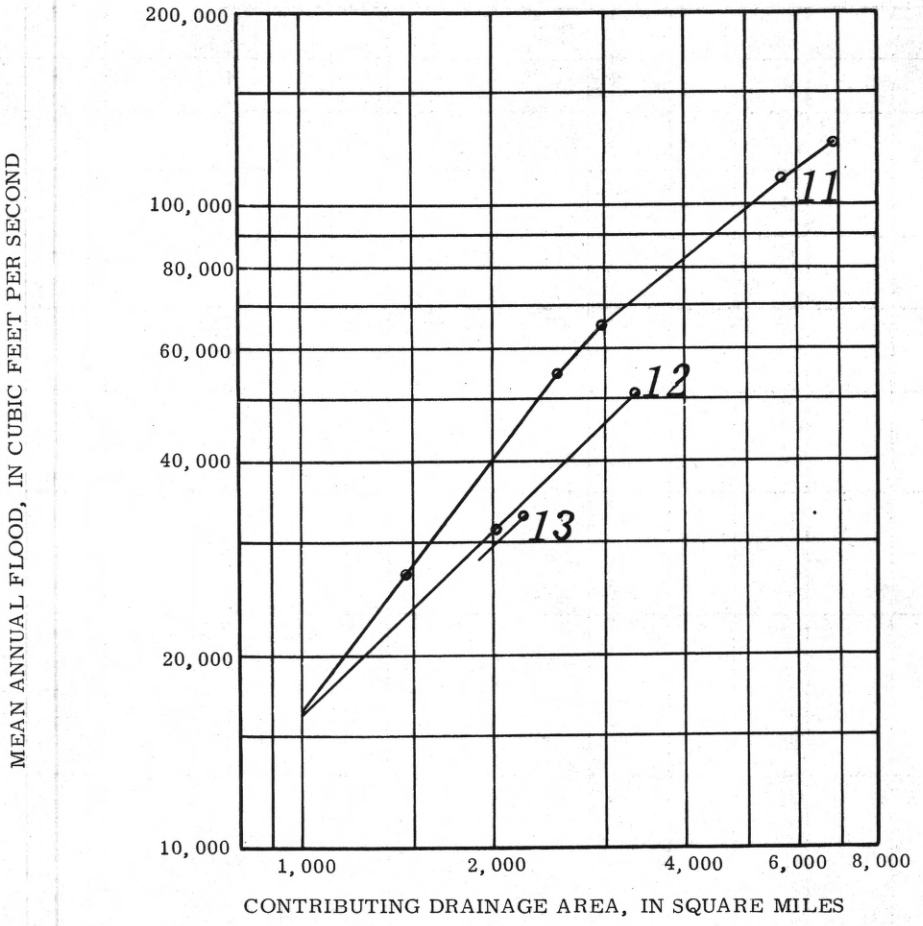


Figure 10. --Variation of mean annual flood with drainage area on the Chemung (in Pennsylvania only), West Branch Susquehanna, and Juniata Rivers and that portion of the Susquehanna River that drains an area of between 1,890 and 2,200 square miles.

Area 9 consists of two subareas, both of which are in the Susquehanna River basin. One subarea includes the Tioga River basin and streams tributary to the Susquehanna and West Branch Susquehanna Rivers in northeastern and north-central Pennsylvania. The second subarea includes the Cocolamus and Sherman Creek basins in the central portion of the State. The relation of mean annual flood to drainage area is defined by records for 13 gaging stations.

Areas 10-14 consist of the main stems of the Susquehanna and Chemung Rivers in Pennsylvania; those portions of the main stems of the West Branch Susquehanna and Juniata Rivers which drain in excess of 1,000 square miles; and that portion of the main stem of the Allegheny River between Eldred and Tionesta Creek. Separate curves have been defined for each main stem, with the curves being drawn exactly through the computed mean annual flood for each gaging station. The relation of mean annual flood to drainage area is defined by records for 17 gaging stations.

Summary of Flood-Frequency Relationships

Composite frequency curves B, D, and E, for floods with recurrence intervals of 50 years or less, and composite frequency curve C, for floods with recurrence intervals of 100 years or less, have been defined for four flood regions in Pennsylvania. These flood regions are shown on plate 2. The frequency curves express flood magnitude as ratios to the mean annual flood. Curves applicable to regions B, D, and E are shown in figures 5 and 6. Curve applicable to region C is shown in figure 7. Region C curve is also applicable to the main stems of the Schuylkill and Delaware Rivers. Two additional curves, shown in figure 7, have been defined for the main stems of certain major rivers:

Curve A. -- Lehigh River (for floods of recurrence intervals of 50 years or less).

Curve F. -- Chemung and Susquehanna Rivers in Pennsylvania and those portions of West Branch Susquehanna and Juniata Rivers which drain in excess of 1,000 square miles (for floods of recurrence intervals of 100 years or less).

To estimate the mean annual flood in regions B, C, D, and E, six hydrologic areas (nos. 1-5, 9) have been delineated as shown on plate 2, and in each area the mean annual flood has been expressed as a function of the drainage area. The relation of mean annual flood to drainage area has been defined by seven separate curves for main stems of the larger rivers. Each of the several hydrologic area curves, which are shown in figures 8-11, applies to a separate area or stream, and should be used in accordance with the following discussion.

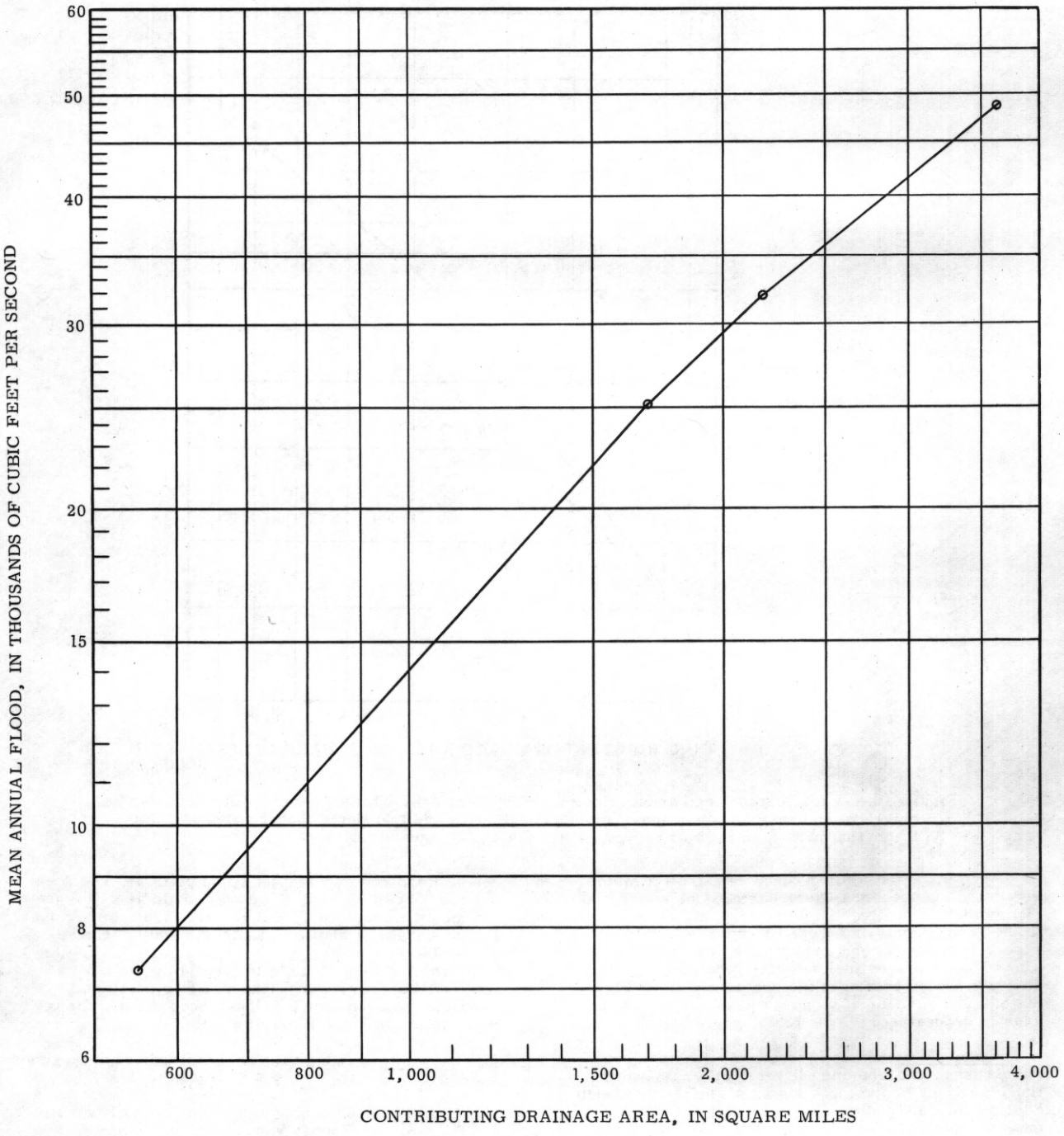


Figure 11. --Variation of mean annual flood with drainage area on the Allegheny River between Eldred and Tionesta Creek.

Curves 1-5, and 9 apply directly to areas 1-5, and 9 as shown on plate 2, except for the main stems of certain rivers that are listed in following paragraphs.

Curve 7 applies to the main stem of the Delaware River.

Curve 8 applies to the main stem of the Lehigh and Schuylkill Rivers.

Curve 10 applies to the main stem of the Susquehanna River below the Chemung River.

Curve 11 applies to the main stem of the Chemung River in Pennsylvania and that portion of the main stem of the West Branch Susquehanna River which drains in excess of 1,000 square miles.

Curve 12 applies to that portion of the main stem of the Juniata River which drains in excess of 1,000 square miles.

Curve 13 applies to that portion of the main stem of the Susquehanna River which drains between 1,890 and 2,200 square miles.

Curve 14 applies to that portion of the main stem of the Allegheny River between Eldred and Tionesta Creek.

Curves presented in this report do not apply to the main stem of the Allegheny River below Tionesta Creek nor to the main stems of the Monongahela and Ohio Rivers, which are subject to major regulation by flood-control reservoirs. Neither do the curves apply to those various tributary streams throughout the State that are subject to major regulation during periods of flood flow.

Definition of a Frequency Curve

A flood-frequency curve for any site in Pennsylvania, other than in those areas previously excepted, may be defined by the following procedure:

1. Determine the drainage area, in square miles, above site.
2. Determine from plate 2 the hydrologic area in which the stream lies, or note if the stream is one of the main stems for which a separate hydrologic area curve was drawn.
3. Determine the mean annual flood, in cubic feet per second, from the proper hydrologic area curve shown in figures 8-11.
4. Determine from plate 2 the flood region in which the stream lies, or note whether the stream is one of the main stems for which a separate ratio curve was drawn.
5. Determine ratio to mean annual flood for several recurrence intervals from the appropriate flood region curve shown in figures 5-7.
6. Multiply the discharge from step 3 by the ratios from step 5 to obtain discharges corresponding to the selected recurrence intervals.
7. Draw a frequency curve for the site on the basis of data obtained in step 6.

MAXIMUM FLOODS KNOWN

A report entitled "Flood Discharge Records relating to Pennsylvania Streams", has been prepared cooperatively by the U. S. Geological Survey and the Pennsylvania Department of Forests and Waters. The report, which has been published by the State agency, contains all known information concerning maximum flood discharges of Pennsylvania streams through 1959.

GAGING-STATION RECORDS

Peak gage heights and discharges for 229 gaging stations in Pennsylvania are tabulated in this section.

The base data collected at gaging stations consist of records of stage and measurements of discharge. The records of stage were obtained from direct water-surface observations for a nonrecording gage or from the continuous record produced by a water-stage recorder. Gage heights for major floods outside the period of record were obtained by leveling to floodmarks. Measurements of discharge were made with a current meter or by indirect methods. Peak discharges are computed from peak gage heights through the medium of a stage-discharge relation.

Accompanying each table is a description of the gaging station that contains the following information:

1. Location of the gage.
2. Size of the drainage area.
3. Type, location and datum of gage.
4. Definition of the stage-discharge relation.
5. Bankfull stage, if known.
6. Pertinent remarks.

The locations of gaging stations used in the analysis are shown on plate 1. The identifying numbers of the gaging stations on this plate are shown next to the station name in table 1 and in the station descriptions accompanying the tables in this section.

A list of peaks above a selected base (partial-duration series) is given whenever the data are available and the stream was not materially affected by regulation; otherwise only annual peaks are given. In a few cases when the instantaneous maximum discharge could not be determined, the maximum daily discharge is given and is so noted.

Known major peaks, including historic peaks which occurred outside the period of record, are listed in the tables.

Underlines in the tabular data have the following significance:

1. Line in "water year" column means a break in record.
2. Line beginning at "date" column and extending through "discharge" column means change in site and datum with no break in record.
3. Line in only "gage height" column means change in datum only.
4. Line in "date" and "discharge" columns means change in site but no change in datum.
5. No underlines are used if changes in site and datum have been adjusted to present conditions.

Records for the following 58 gaging stations published in this section were not used in the analysis because they are less than 5 years in length during the base period, unless otherwise noted.

Station No.	
4320	Wallenpaupack Creek at Wilsonville, Pa. [a]
4325	Shohola Creek near Shohola, Pa.
4415	Pocono Creek near Stroudsburg, Pa.
4425	Brodhead Creek at Minisink Hills, Pa.
4535	Saucon Creek at Lanark, Pa.
4540	South Branch Saucon Creek at Friedensville, Pa.
4545	Saucon Creek at Friedensville, Pa.
4600	Tohickon Creek at Point Pleasant, Pa.
4650	Neshaminy Creek at Rushland, Pa.
4710	Tulpehocken Creek near Reading, Pa.
4725	Perkiomen Creek near Frederick, Pa.
4735	Schuylkill River at Norristown, Pa.
4740	Wissahickon Creek near Philadelphia, Pa.
4760	Crum Creek at Woodlyn, Pa.
5355	Lackawanna River at Moosic, Pa.
5385	Nescopeck Creek near St. Johns, Pa.
5390	Fishing Creek at Bloomsburg, Pa.
5460	North Bald Eagle Creek at Milesburg, Pa.
5470	Spring Creek at Bellefonte, Pa.
5490	Pine Creek at Waterville, Pa.
5685	Clark Creek near Carsonville, Pa.
5720	Upper Little Swatara Creek at Pine Grove, Pa.
5770	Susquehanna River at McCall Ferry, Pa.
120	Kinzua Creek at Dewdrop, Pa.
150	Conewago Creek at Russell, Pa. [a]
200	Tionesta Creek at Tionesta Creek Dam, Pa. [a]
235	French Creek at Carlton, Pa.
245	Sugar Creek at Wyattville, Pa.
255	Allegheny River at Franklin, Pa. [a]
275	East Branch Clarion River at East Branch Clarion River Dam, Pa. [a]
280	West Branch Clarion River at Wilcox, Pa.
305	Clarion River near Piney, Pa. [a]
310	Clarion River at St. Petersburg, Pa. [a]
315	Allegheny River at Parkers Landing, Pa. [a]
330	Allegheny River near Rimer, Pa. [a]
360	Mahoning Creek at Mahoning Creek Dam, Pa. [a]
365	Allegheny River at Kittanning, Pa. [a]
390	Crooked Creek at Crooked Creek Dam, Pa. [a]
470	Loyalhanna Creek at Loyalhanna Creek Dam, Pa. [a]
495	Allegheny River at Natrona, Pa. [a]
630	Monongahela River at Point Marion, Pa. [a]
725	Monongahela River at Greensboro, Pa. [a]
750	Monongahela River at Charleroi, Pa. [a]
775	Youghiogheny River at Youghiogheny River Dam, Pa. [a]
810	Youghiogheny River below Confluence, Pa. [a]
815	Youghiogheny River at Ohiopyle, Pa. [a]
850	Monongahela River at Braddock, Pa. [a]
860	Ohio River at Sewickley, Pa. [a]
1000	Shenango River near Turnerville, Pa.
1015	Shenango River at Pymatuning Dam, Pa. [a]
1020	Shenango River near Jamestown, Pa.
1045	Shenango River at New Castle, Pa.
1050	Neshannock Creek at Eastbrook, Pa.
1055	Beaver River at Wampum, Pa. [a]
1075	Beaver River at Beaver Falls, Pa. [a]
1085	Ohio River at Montgomery Island Dam, Pa. [a]

[a] Flow regulated.

The following gaging-station records are not published in this section because they had less than five years of record.

Brodhead Creek near Analomink, Pa.
Paradise Creek at Henryville, Pa.
McMichaels Creek at 7th Street bridge, at Stroudsburg, Pa.
Lehigh River below Bear Creek Reservoir near White Haven, Pa.
Lehigh River at Lehighton, Pa.
Schuylkill River at Schuylkill Haven, Pa.
Schuylkill River at Auburn, Pa.
Little Schuylkill River at Drehersville, Pa.
Darby Creek at Lansdowne, Pa.
East Branch Brandywine Creek at Dowingtown, Pa.
Corey Creek near Mainesburg, Pa.
Elk Run near Mainesburg, Pa.
Susquehanna River at Wysox, Pa.
Wyalusing Creek Wyalusing, Pa.
West Branch Susquehanna River at Curwensville, Pa.
First Fork Sinnemahoning Creek near Sinnemahoning, Pa.
Kettle Creek near Wesport, Pa.
North Bald Eagle Creek below Spring Creek at Milesburg, Pa.
North Bald Eagle Creek at Blanchard, Pa.
Marsh Creek at Blanchard, Pa.
Pine Creek below Little Pine Creek near Waterville, Pa.
Lycoming Creek near Williamsport, Pa.
Schell Run at Tyrone, Pa.
Yellow Creek at Loysburg, Pa.
Kishacoquillas Creek at Kulps, Pa.
Bixler Run near Loysville, Pa.
Swatara Creek at Jonestown, Pa.
West Branch Antietam Creek at Mont Alto, Pa.
Antietam Creek near Waynesboro, Pa.
Wills Creek at Hyndman, Pa.
Tionesta Creek at Butler Bridge, Pa.
Sandy Creek at Sandy Lake, Pa.
Clarion River near Clarion, Pa.
Redbank Creek at Mayport, Pa.
Stump Creek at Cramer, Pa.
Crooked Creek at Creekside, Pa.
Stoney Creek at Hallsopple, Pa.
McGinnis Run near Laughlintown, Pa.
Connoquenessing Creek near Ellwood Creek, Pa.

4285. Delaware River above Lackawaxen River, near Barryville, N. Y.

Location. --Lat 41°30'30", long 74°59'15", on left bank 1.6 miles upstream from Lackawaxen River and 5.8 miles northwest of Barryville, Sullivan County.

Drainage area. --2,023 sq mi.

Gage. --Recording gage. Datum of gage is 600.22 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 55,000 cfs and extended on basis of slope-area measurements.

Remarks. --Flow regulated. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 30, 1940	11.84	36,000	1951	Mar. 31, 1951	17.65	68,200
1942	May 23, 1942	23.19	116,000	1952	July 10, 1952	15.79	56,100
1943	Dec. 31, 1942	17.89	69,800	1953	Dec. 12, 1952	17.70	68,600
1944	Nov. 9, 1943	12.88	38,700	1954	Jan. 28, 1954	11.81	33,400
1945	Feb. 28, 1945	13.58	43,100	1955	Aug. 19, 1955	26.40	130,000
1946	Mar. 9, 1946	12.77	38,600	1956	Oct. 16 1955	13.04	40,100
1947	Mar. 15, 1947	15.73	55,700	1957	Jan. 23, 1957	11.31	30,600
1948	Mar. 22, 1948	20.07	84,000				
1949	Dec. 31, 1948	17.63	68,100				
1950	Apr. 5, 1950	14.41	47,800				

4290. West Branch Lackawaxen River at Prompton, Pa.

Location. --Lat 41°35'15", long 75°19'40", on right bank 1,500 ft upstream from highway bridge at Prompton, Wayne County, and 2,000 ft upstream from Van Auken Creek.

Drainage area. --59.7 sq mi.

Gage. --Recording gage. Datum of gage is 1,083.78 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 3,600 cfs and extended by logarithmic plotting.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 1,900 cfs. Annual peaks are shown prior to 1946.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 23, 1942	16.7	—	1950	Apr. 4, 1950	6.35	3,140
1945	Mar. 3, 1945	[a]6.16	—	1951	Nov. 25, 1950	8.42	5,230
	July 19, 1945	5.10	1,860		Dec. 4, 1950	6.85	3,540
					Mar. 31, 1951	5.94	2,640
1946	May 28, 1946	6.52	3,240		Apr. 13, 1951	5.85	2,540
1947	Apr. 5, 1947	8.45	5,230	1952	Apr. 15, 1952	5.98	2,740
	May 22, 1947	6.40	3,140		May 25, 1952	5.52	2,250
	July 8, 1947	5.40	2,140		July 10, 1952	5.50	2,250
1948	Mar. 16, 1948	5.21	1,950	1953	Dec. 11, 1952	5.34	2,150
	Mar. 20, 1948	5.26	2,020		Jan. 24, 1953	5.48	2,250
	Mar. 21, 1948	6.12	2,840				
	Apr. 14, 1948	5.19	1,980	1954	Apr. 17, 1954	5.18	2,020
1949	Dec. 30, 1948	5.69	2,440	1955	Aug. 18, 1955	9.24	5,860

West Branch Lackawaxen River at Prompton, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Oct. 6, 1955	5.71	2,440	1957	Apr. 6, 1957	4.75	1,670
	Oct. 16, 1955	6.69	3,340				
	Oct. 30, 1955	6.11	2,800	1958	Dec. 21, 1957	6.17	2,890
					Apr. 6, 1958	5.78	2,530

[a]Backwater from ice.

4295. Dyberry Creek at Dyberry, Pa.

Location.--Lat 41°36'25", long 75°16'00", on right bank, 180 ft upstream from unnamed tributary, 1,700 ft below Dyberry Dam, 2.1 miles north of Honesdale, Wayne County, and 2.6 miles upstream from mouth.

Drainage area.--64.6 sq mi.

Gage.--Nonrecording gage prior to Oct. 1, 1957; recording gage thereafter. Prior to Oct. 1, 1957, at site 1.9 miles upstream at datum 13.70 ft higher. Datum of gage is 970.70 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,500 cfs and extended on basis of slope-area measurements.

Bankfull stage.--10 ft.

Remarks.--Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 23, 1942	15.86	—	1952	Nov. 3, 1951	8.79	1,650
					Jan. 27, 1952	8.9	1,700
1944	Nov. 9, 1943	10.48	2,840		Mar. 11, 1952	9.42	1,990
					Apr. 15, 1952	10.45	2,750
1945	Mar. 17, 1945	8.82	1,520		May 25, 1952	10.07	2,490
	July 19, 1945	9.00	1,640		July 10, 1952	14.6	15,500
	July 28, 1945	10.05	2,390				
				1953	Dec. 11, 1952	12.17	6,080
1946	Mar. 9, 1946	9.00	1,640		Jan. 24, 1953	10.41	2,750
	May 28, 1946	10.51	2,840		Feb. 21, 1953	8.82	1,650
1947	Apr. 5, 1947	11.60	4,760	1954	Dec. 7, 1953	8.79	1,650
	May 22, 1947	9.4	1,770		Mar. 1, 1954	8.68	1,600
	July 8, 1947	10.61	3,100		Apr. 17, 1954	9.78	2,260
	July 22, 1947	11.40	4,380		May 10, 1954	9.45	1,990
1948	Mar. 17, 1948	8.78	1,520	1955	Nov. 21, 1954	8.54	1,570
	Mar. 20, 1948	9.76	2,220		Mar. 22, 1955	8.53	1,570
	Mar. 22, 1948	9.58	2,060		Aug. 18, 1955	13.78	11,400
	Apr. 14, 1948	10.60	2,930				
				1956	Oct. 6, 1955	9.38	2,150
1949	Dec. 30, 1948	10.0	2,390		Oct. 16, 1955	10.28	2,940
	Jan. 6, 1949	9.6	2,060		Oct. 30, 1955	9.59	2,300
					Mar. 8, 1956	8.86	1,810
1950	Dec. 13, 1949	9.0	1,770		Apr. 5, 1956	8.87	1,810
	Apr. 4, 1950	11.0	3,800				
				1957	Apr. 6, 1957	8.82	1,750
1951	Nov. 25, 1950	11.81	5,160				
	Dec. 4, 1950	11.32	4,240	1958	Dec. 21, 1957	8.14	4,860
	Dec. 8, 1950	8.5	1,500		Apr. 6, 1958	7.92	4,560
	Feb. 21, 1951	8.6	1,550				
	Mar. 31, 1951	10.98	3,800				
	Apr. 13, 1951	8.97	1,750				

4300. Lackawaxen River near Honesdale, Pa.

Location. --Lat 41°33'45", long 75°14'55", 50 ft from left abutment on downstream side of Lemnizer Bridge, (Brown Street) in Honesdale, Wayne County, 1.2 miles downstream from Dyberry Creek.

Drainage area. --164 sq mi.

Gage. --Nonrecording gage and crest-stage indicator. Datum of gage is 946.34 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 11,000 cfs and extended above by logarithmic plotting.

Bankfull stage. --13 ft.

Remarks. --Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 23, 1942	24.5	34,000	1953	Dec. 11, 1952	12.1	9,100
					Jan. 24, 1953	10.49	6,880
1949	Dec. 30, 1948	9.2	5,270		Feb. 21, 1953	7.50	3,360
	Jan. 6, 1949	7.7	3,590				
				1954	Dec. 7, 1953	4.90	3,000
1950	Dec. 13, 1949	7.23	3,040		Mar. 2, 1954	5.30	3,400
	Mar. 28, 1950	7.58	3,470		Apr. 17, 1954	6.33	4,480
	Apr. 4, 1950	9.12	5,150		May 10, 1954	5.45	3,500
1951	Nov. 26, 1950	11.0	7,470	1955	Nov. 21, 1954	4.92	3,000
	Dec. 4, 1950	10.5	6,830		Aug. 18, 1955	15.52	18,600
	Dec. 8, 1950	7.6	3,470				
	Feb. 21, 1951	7.8	3,690	1956	Oct. 6, 1955	7.38	5,840
	Mar. 31, 1951	9.0	5,030		Oct. 16, 1955	8.62	7,450
	Apr. 13, 1951	8.0	3,910		Oct. 30, 1955	7.00	5,340
					Nov. 16, 1955	5.05	3,000
1952	Nov. 3, 1951	7.6	3,470		Mar. 8, 1956	5.40	3,510
	Jan. 27, 1952	7.8	3,690		Apr. 5, 1956	5.10	3,200
	Mar. 11, 1952	9.7	5,870				
	Apr. 15, 1952	10.0	6,230	1957	Apr. 6, 1957	6.21	4,390
	May 25, 1952	9.2	5,270				
	July 10, 1952	14.2	12,400	1958	Dec. 21, 1957	7.81	6,360
					Apr. 6, 1958	8.04	6,620

4305. Lackawaxen River at West Hawley, Pa.

Location. --Lat 41°28'10", long 75°11'15", at Riverside Bridge at West Hawley, Wayne County, half a mile upstream from Middle Creek.

Drainage area. --206 sq mi.

Gage. --Nonrecording gage. Datum of gage is 885.50 ft above mean sea level (preliminary levels of 1934).

Stage-discharge relation. --Defined by current-meter measurements below 3,000 cfs and extended on basis of slope-area measurement.

Remarks. --Base for partial-duration series, 3,300 cfs.

Lackawaxen River at West Hawley, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Nov. 28, 1921	9.3	6,980	1932	Feb. 11, 1932	6.8	3,580
	June 18, 1922	8.2	5,460		Apr. 1, 1932	6.5	3,320
1923	Mar. 24, 1923	7.3	4,340		June 17, 1932	6.8	3,580
	Apr. 6, 1923	6.4	3,330	1933	Nov. 10, 1932	7.5	4,280
1924	Jan. 12, 1924	7.6	4,700		Nov. 19, 1932	6.6	3,470
	Apr. 7, 1924	9.0	6,550		June 6, 1933	6.5	3,380
	Sept.30, 1924	10.48	8,840		Aug. 24, 1933	11.0	9,680
1925	Feb. 12, 1925	[a]7.8	4,500	1934	July 28, 1934	8.75	6,270
					Sept.17, 1934	6.9	3,740
1926	Nov. 13, 1925	6.4	3,290	1935	Dec. 1, 1934	7.9	4,730
					July 9, 1935	7.7	4,530
1927	Nov. 17, 1926	10.5	8,840				
	Jan. 23, 1927	6.6	3,480	1936	Oct. 31, 1935	7.1	3,930
	Mar. 21, 1927	6.4	3,290		Nov. 13, 1935	6.6	3,470
					Mar. 12, 1936	11.4	10,400
1928	Oct. 19, 1927	9.6	6,620		Mar. 18, 1936	15.32	18,300
	Nov. 18, 1927	8.0	4,900				
	Dec. 8, 1927	7.4	4,280	1937	Feb. 22, 1937	9.6	7,430
	May 1, 1928	6.4	3,290		Apr. 6, 1937	6.5	3,430
	June 30, 1928	10.3	8,700		Apr. 22, 1937	6.7	3,530
	July 14, 1928	8.5	5,430				
				1938	Jan. 25, 1938	7.6	4,430
1929	Mar. 15, 1929	7.0	3,740		Sept.22, 1938	9.5	7,280
	Apr. 21, 1929	7.5	4,580				
				1942	May 23, 1942	22.3	38,000
1930	Mar. 8, 1930	6.24	3,170				
1931	Mar. 29, 1931	7.1	3,820				

[a] Backwater from ice.

4310. Middle Creek near Hawley, Pa.

Location. --Lat 41°29'05", long 75°13'20", at highway bridge, 0.1 mile downstream from Red Shale Brook, 2 miles northwest of Hawley, Wayne County, and 2.5 miles upstream from mouth.

Drainage area. --78.4 sq mi.

Gage. --Nonrecording gage and crest-stage indicator. Datum of gage is 1,017.73 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 3,500 cfs and extended above by slope-area measurement.

Bankfull stage. --14 ft.

Remarks. --Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 23, 1942	18.0	—	1948	Mar. 17, 1948	8.2	1,890
					Mar. 22, 1948	8.2	1,890
1945	Mar. 4, 1945	8.0	1,760		Apr. 15, 1948	8.4	2,030
	Sept. 2, 1945	9.2	2,630				
				1949	Dec. 30, 1948	8.5	2,100
1946	May 28, 1946	10.6	3,840		Jan. 6, 1949	8.4	2,030
1947	Apr. 5, 1947	13.22	6,000	1950	Mar. 29, 1950	8.4	2,030
	July 8, 1947	12.62	5,460		Apr. 5, 1950	7.8	1,640
	July 22, 1947	10.0	3,270				

Middle Creek near Hawley, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 26, 1950	11.1	4,150	1955	Mar. 22, 1955	9.65	2,720
	Dec. 4, 1950	9.92	3,190		Aug. 19, 1955	17.87	12,000
	Feb. 21, 1951	7.60	1,520				
	Mar. 31, 1951	7.88	1,700	1956	Oct. 6, 1955	5.97	1,960
	Apr. 13, 1951	7.64	1,520		Oct. 16, 1955	9.01	4,030
					Oct. 30, 1955	7.36	2,790
1952	Mar. 12, 1952	8.78	2,310		Nov. 16, 1955	5.77	1,850
	Apr. 15, 1952	10.31	3,510		Apr. 5, 1956	5.80	1,850
	May 25, 1952	8.95	2,470		Apr. 30, 1956	6.2	2,080
	July 10, 1952	14.17	6,970				
				1957	Apr. 6, 1957	7.97	3,280
1953	Dec. 11, 1952	10.5	3,670				
	Jan. 24, 1953	8.4	2,030	1958	Dec. 21, 1957	5.69	1,800
					Apr. 6, 1958	7.61	3,000
1954	Mar. 2, 1954	7.62	1,520		Apr. 28, 1958	7.05	2,580
	Apr. 17, 1954	8.35	2,030				

4315. Lackawaxen River at Hawley, Pa.

Location.--Lat 41°28'35", long 75°10'25", on left bank at bridge, at Hawley, Wayne County, 700 ft upstream from Wallenpaupack Creek and 550 ft downstream from Middle Creek.

Drainage area.--290 sq mi.

Gage.--Nonrecording gage prior to Aug. 10, 1938; recording gage Aug. 10, 1938 to Aug. 19, 1955; nonrecording gage and crest-stage indicator thereafter. Prior to 1938, at present site and datum. Aug. 10, 1938 to Feb. 13, 1956 at site 1,000 ft downstream at same datum. Datum of gage is 869.00 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 12,000 cfs and extended on basis of slope-area measurement.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 6,000 cfs. Records exclude flow of Wallenpaupack Creek, (228 sq mi) which is diverted around station to hydro-electric plant downstream.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Feb. 20, 1909	9.56	6,980	1939	Dec. 6, 1938	6.64	6,480
					Feb. 20, 1939	6.71	6,700
1910	Apr. 26, 1910	7.80	[a]4,560				
				1940	Mar. 31, 1940	9.68	14,400
1911	Mar. 28, 1911	6.90	[a]3,520		Apr. 5, 1940	6.85	6,930
					Apr. 9, 1940	7.54	8,580
1912	Mar. 29, 1912	7.80	[a]4,560		Sept. 1, 1940	6.38	6,040
1913	Jan. 8, 1913	9.40	6,750	1941	Apr. 6, 1941	6.33	[a]5,930
	Mar. 27, 1913	10.3	8,170				
				1942	Mar. 9, 1942	6.57	6,480
1914	Mar. 28, 1914	12.6	12,600		May 23, 1942	20.1	50,000
					Sept. 28, 1942	6.40	6,040
1915	Feb. 25, 1915	7.7	4,440				
				1943	Nov. 25, 1942	6.60	6,480
1916	Apr. 2, 1916	9.8	7,360		Dec. 31, 1942	8.64	11,400
	Apr. 14, 1916	8.9	6,020				
				1944	Nov. 9, 1943	7.97	9,820
1917	Mar. 28, 1917	6.9	[a]3,520		Jan. 28, 1944	[b]7.25	—
1938	Sept. 22, 1938	7.90	9,570	1945	Mar. 4, 1945	6.67	6,700
					Mar. 17, 1945	6.42	6,040
					July 19, 1945	6.46	6,260

Lackawaxen River at Hawley, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	May 28, 1946	8.20	10,300	1952	Mar. 12, 1952	7.08	8,070
					Apr. 15, 1952	8.05	10,500
1947	Apr. 5, 1947	9.98	15,300		May 25, 1952	7.01	7,800
	May 22, 1947	6.77	6,930		July 10, 1952	11.78	21,700
	July 8, 1947	8.48	11,100				
	July 22, 1947	7.56	8,820	1953	Dec. 11, 1952	9.40	14,500
					Jan. 24, 1953	7.39	8,880
1948	Mar. 17, 1948	6.82	6,930				
	Mar. 22, 1948	7.25	7,860	1954	Apr. 17, 1954	6.71	7,020
	Apr. 15, 1948	7.01	7,390		May 10, 1954	6.31	6,030
1949	Dec. 30, 1948	7.56	8,820	1955	Aug. 19, 1955	20.6	51,900
	Jan. 6, 1949	6.72	6,700				
	Feb. 16, 1949	6.60	6,470	1956	Oct. 6, 1955	7.68	9,420
					Oct. 16, 1955	8.13	10,600
1950	Dec. 13, 1949	6.90	7,160		Oct. 30, 1955	7.36	8,570
	Mar. 29, 1950	6.71	6,710				
	Apr. 5, 1950	7.36	8,340	1957	Apr. 6, 1957	10.38	7,810
1951	Nov. 26, 1950	8.94	12,200	1958	Dec. 21, 1957	11.03	8,820
	Dec. 4, 1950	8.30	10,600		Apr. 6, 1958	10.00	7,810
	Dec. 8, 1950	6.41	6,050				
	Feb. 22, 1951	6.56	6,490				
	Mar. 31, 1951	7.22	7,860				
	Apr. 13, 1951	6.64	6,490				

[a] Annual peak only.
[b] Backwater from ice.

DELAWARE RIVER BASIN

4320. Wallenpaupack Creek at Wilsonville, Pa.

Location. --At hydroelectric plant of Pennsylvania Power and Light Co., at lower end of penstock, at Kimble, 3 miles east of dam at lat 41°27'35", long 75°11'10", at Wilsonville, Wayne County, and 1¼ miles south of Hawley.

Drainage area. --228 sq mi.

Gage. --Nonrecording gage at site 1,000 ft downstream from dam at datum 1,146.78 ft above mean sea level, unadjusted.

Remarks. --Only annual peaks are shown. Flow regulated by Lake Wallenpaupack since Nov. 3, 1925.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 29, 1914	—	[a]4,840	1922	Mar. 9, 1922	4.5	4,400
1919	Mar. 10, 1919	—	1,794	1923	Mar. 24, 1923	3.30	2,340
1920	July 25, 1920	4.00	3,420	1924	Apr. 7, 1924	4.65	[b]4,550
1921	Mar. 10, 1921	3.92	3,346	1925	Feb. 12, 1926	3.65	[c]2,850

[a] Maximum daily discharge.
[b] Maximum discharge recorded; may have been higher on Sept. 30, 1924.
[c] Maximum peak discharge; maximum discharge during the year not determined, occurred 12:01 a.m. Oct. 1, 1924, stage falling.

4325. Shohola Creek near Shohola, Pa.

Location. --Lat 41°27'00", long 74°55'20", at highway bridge 1 3/4 miles south of Shohola, Pike County, and about 2 miles upstream from mouth.

Drainage area. --83.2 sq mi.

Gage. --Nonrecording gage. Altitude of gage is 695 ft (from topographic map).

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	Mar. 11, 1919	3.5	735	1926	Feb. 26, 1926	—	[a]800
1920	Mar. 13, 1920	4.8	1,810	1927	Nov. 16, 1926	4.6	1,610
	Mar. 27, 1920	4.2	1,250		Mar. 20, 1927	3.9	1,010
	July 25, 1920	4.0	1,090		May 11, 1927	3.4	673
1921	Mar. 10, 1921	4.5	1,520		Sept. 2, 1927	4.2	1,250
1922	Mar. 10, 1922	3.8	940	1928	Oct. 19, 1927	4.6	1,610
	June 18, 1922	4.0	1,090		Nov. 4, 1927	3.9	1,010
1923	Mar. 22-27, 1923	3.3	614		Nov. 18, 1927	4.0	1,090
1924	Jan. 12, 1924	3.5	735		Dec. 8, 1927	4.8	1,810
	Mar. 31, 1924	3.6	800		May 1, 1928	3.4	673
	Apr. 7, 1924	5.0	2,020		May 4, 1928	3.6	800
1925	Oct. 1, 1924	5.0	2,020		July 1, 1928	4.0	1,090
	Feb. 11, 1925	4.1	1,170		July 6, 1928	3.6	800
					Aug. 11, 1928	3.6	800

[a] Ice affected.

4340. Delaware River at Port Jervis, N. Y.

Location. --Lat 41°22'20", long 74°41'50", on right bank 250 ft downstream from bridge on U. S. Highways 6 and 209 at Port Jervis, Orange County, 1½ miles upstream from Neversink River, and 6.5 miles downstream from Mongaup River.

Drainage area. --3,076 sq mi.

Gage. --Nonrecording gage prior to Aug. 13, 1928; recording gage thereafter. Prior to Aug. 13, 1928, at site 250 ft upstream. Datum of gage is 415.35 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 89,000 cfs and extended on basis of slope-area measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Oct. 10, 1903	23.1	205,000	1916	Apr. 1, 1916	12.0	60,800
1905	Mar. 26, 1905	11.6	56,800	1917	Mar. 28, 1917	11.3	53,900
				1918	Oct. 31, 1917	12.3	63,800
1906	Apr. 16, 1906	11.4	54,800	1919	Mar. 10, 1919	7.12	21,300
1907	Jan. 1, 1907	9.0	34,300	1920	Mar. 13, 1920	14.0	82,300
1908	Feb. 16, 1908	13.5	76,800				
1909	Feb. 21, 1909	11.7	57,800	1921	Mar. 10, 1921	12.3	63,800
1910	Mar. 1, 1910	13.0	71,300	1922	Nov. 29, 1921	13.3	74,600
				1923	Mar. 24, 1923	11.9	59,800
1911	Mar. 28, 1911	10.7	48,500	1924	Apr. 7, 1924	12.4	64,800
1912	Mar. 30, 1912	10.6	47,600	1925	Feb. 12, 1925	15.3	97,600
1913	Mar. 28, 1913	15.5	100,000				
1914	Mar. 28, 1914	16.0	106,000				
1915	Feb. 25, 1915	10.3	45,200				

Delaware River at Port Jervis, N. Y.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Apr. 10, 1926	9.4	38,700	1941	Dec. 30, 1940	9.53	40,300
1927	Nov. 17, 1926	13.8	80,100	1942	May 23, 1942	17.76	140,000
1928	Oct. 20, 1927	13.1	72,400	1943	Dec. 31, 1942	13.99	84,000
1929	Mar. 15, 1929	11.9	63,600	1944	Nov. 9, 1943	10.49	46,500
1930	Mar. 9, 1930	8.05	29,400	1945	Mar. 18, 1945	10.76	51,200
1931	Mar. 30, 1931	8.82	35,100	1946	May 28, 1946	10.51	49,200
1932	Apr. 1, 1932	9.97	44,300	1947	Apr. 6, 1947	12.24	66,500
1933	Aug. 25, 1933	15.03	102,000	1948	Mar. 22, 1948	14.16	96,100
1934	Mar. 6, 1934	14.94	100,000	1949	Dec. 31, 1948	14.07	87,800
1935	Dec. 2, 1934	11.12	55,200	1950	Apr. 5, 1950	11.74	62,000
1936	Mar. 18, 1936	17.55	137,000	1951	Mar. 31, 1951	14.35	91,400
1937	Feb. 22, 1937	10.25	46,500	1952	July 10, 1952	13.50	81,000
1938	Sept. 22, 1938	14.95	101,000	1953	Dec. 12, 1952	14.72	96,300
1939	Dec. 6, 1938	11.25	55,600	1954	Jan. 28, 1954	9.18	37,700
1940	Apr. 1, 1940	15.55	113,000	1955	Aug. 19, 1955	23.91	233,000
				1956	Oct. 16, 1955	12.57	70,200
				1957	Apr. 7, 1957	9.76	42,400

4385. Delaware River at Montague, N. J.

Location. --Lat 41°18'30", long 74°47'50", on right bank at downstream side of old bridge pier and 0.4 mile upstream from toll bridge at Montague, Sussex County, three-quarters of a mile downstream from Saw Kill.

Drainage area. --3,480 sq mi.

Gage. --Nonrecording gage prior to Feb. 9, 1940; recording gage thereafter. Prior to Feb. 9, 1940, gage on upstream side of left span of bridge at datum 70 ft lower. Datum of present gage is 369.93 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 90,000 cfs and extended on basis of flood-routing study.

Bankfull stage. --30 ft.

Remarks. --Base for partial-duration series, 34,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Oct. 10, 1903	35.5	—	1944	Nov. 9, 1943	16.12	52,800
					Mar. 18, 1944	14.30	40,700
1936	Mar. 18, 1936	28.45	164,500				
				1945	Feb. 28, 1945	[a]15.42	—
1940	Apr. 1, 1940	24.33	123,100		Mar. 4, 1945	[a]17.54	—
	Apr. 9, 1940	19.87	82,300		Mar. 18, 1945	17.06	59,700
	Apr. 22, 1940	14.48	41,800		July 20, 1945	15.32	47,200
					July 30, 1945	15.00	45,100
1941	Dec. 30, 1940	14.88	44,400				
	Apr. 6, 1941	13.80	37,600	1946	Dec. 27, 1945	[a]14.70	—
					Jan. 7, 1946	13.31	34,600
1942	Mar. 10, 1942	17.19	60,600		Mar. 10, 1946	15.79	50,500
	May 23, 1942	25.70	136,500		May 28, 1946	16.51	55,600
	Sept. 28, 1942	18.76	73,100				
				1947	Jan. 22, 1947	13.22	34,000
1943	Nov. 26, 1942	13.32	34,800		Mar. 15, 1947	15.72	50,000
	Dec. 31, 1942	21.54	97,000		Apr. 6, 1947	19.14	76,200
	Feb. 25, 1943	14.41	41,400		July 22, 1947	14.00	38,700
	Mar. 18, 1943	16.00	52,000				
	May 22, 1943	13.42	35,400				

Delaware River at Montague, N. J.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Feb. 28, 1948	[a]17.88	—	1952	Apr. 6, 1952	15.60	49,200
	Mar. 17, 1948	16.22	53,500	Cont.	Apr. 16, 1952	14.90	44,500
	Mar. 22, 1948	22.90	109,500		July 10, 1952	20.07	84,000
	Apr. 15, 1948	15.07	45,600				
				1953	Dec. 12, 1952	22.62	108,000
1949	Dec. 31, 1948	21.75	98,800		Jan. 25, 1953	17.82	65,700
	Jan. 6, 1949	17.63	64,000				
				1954	Feb. 18, 1954	13.20	34,600
1950	Dec. 13, 1949	13.63	36,500				
	Mar. 9, 1950	14.91	44,600	1955	Aug. 19, 1955	35.15	250,000
	Mar. 29, 1950	16.46	55,200				
	Apr. 5, 1950	17.81	65,500	1956	Oct. 16, 1955	19.68	80,800
					Oct. 31, 1955	13.98	38,900
1951	Nov. 26, 1950	21.04	92,500		Mar. 9, 1956	13.79	37,700
	Dec. 5, 1950	19.46	78,900		Apr. 6, 1956	14.98	44,900
	Dec. 8, 1950	13.79	37,400		Apr. 17, 1956	13.67	37,000
	Feb. 2, 1951	14.06	39,100				
	Mar. 31, 1951	22.66	107,200	1957	Apr. 7, 1957	14.80	43,800
1952	Nov. 8, 1951	14.79	43,700	1958	Dec. 21, 1957	18.47	70,800
	Jan. 27, 1952	13.83	37,700		Apr. 7, 1958	16.91	58,800
	Mar. 12, 1952	15.22	46,600				

[a]Backwater from ice.

4395. Bush Kill at Shoemakers, Pa.

Location. --Lat 41°05'15", long 75°02'20", at highway bridge, 0.1 mile downstream from Saw Creek, 0.7 mile northwest of Shoemakers, Monroe County and 2 miles southwest of Bush Kill.

Drainage area. --117 sq mi.

Gage. --Nonrecording gage prior to Aug. 12, 1938; recording gage thereafter. Datum of gage is 421.13 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 2,600 cfs and extended by logarithmic plotting.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Feb. 17, 1909	3.9	1,270	1916	Apr. 2, 1916	4.10	1,430
	Feb. 20, 1909	5.0	2,270		Apr. 14, 1916	3.70	1,120
	Feb. 24, 1909	4.1	1,430		July 27, 1916	4.00	1,350
	May 2, 1909	3.8	1,190				
				1917	Mar. 27, 1917	4.20	1,510
1910	Mar. 7, 1910	3.8	1,190				
				1918	Feb. 20, 1918	4.10	1,430
1911	June 14, 1911	3.7	1,120		Feb. 26, 1918	4.70	1,970
					Apr. 22, 1918	3.80	1,190
1912	Mar. 15, 1912	3.8	1,190				
				1919	Mar. 10, 1919	4.10	1,430
1913	Mar. 28, 1913	4.0	1,350		July 22, 1919	5.10	2,380
1914	Mar. 29, 1914	4.0	1,350	1920	Mar. 13, 1920	4.50	1,780
					Mar. 27, 1920	4.40	1,690
1915	Feb. 24, 1915	4.75	2,070		July 24, 1920	7.20	5,250

Bush Kill at Shoemakers, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Oct. 1, 1920	3.7	1,120
	Mar. 10, 1921	4.50	1,780
1922	Mar. 8, 1922	4.50	1,780
1923	Mar. 24, 1923	3.90	1,270
1924	Jan. 11, 1924	4.10	1,430
	Jan. 17, 1924	3.90	1,270
	Apr. 6, 1924	5.20	2,490
	May 13, 1924	3.90	1,270
	Sept. 30, 1924	5.50	2,830
1925	Feb. 12, 1925	4.09	1,430
1926	Nov. 13, 1925	4.80	2,070
	Nov. 16, 1925	5.10	2,380
	Dec. 6, 1925	3.70	1,120
	Feb. 25, 1926	3.90	1,270
1927	Nov. 16, 1926	5.50	2,830
	Mar. 15, 1927	3.70	1,120
1928	Oct. 19, 1927	4.70	1,970
	Nov. 4, 1927	4.20	1,510
	Nov. 18, 1927	4.50	1,780
	Dec. 8, 1927	4.70	1,970
	June 30, 1928	4.40	1,690
	July 5, 1928	4.40	1,690
	July 14, 1928	3.80	1,190
	Aug. 27, 1928	3.80	1,190
	Sept. 3, 1928	4.00	1,350
1929	Mar. 15, 1929	3.83	1,190
1930	Nov. 18, 1929	3.75	1,150
1931	Mar. 29, 1931	3.70	1,080
1932	Apr. 1, 1932	4.10	1,430
1933	Oct. 6, 1932	4.5	1,780
	Nov. 1, 1932	3.8	1,190
	Nov. 10, 1932	4.0	1,350
	Nov. 19, 1932	4.2	1,510
	Apr. 18, 1933	4.1	1.430
	Aug. 24, 1933	5.04	2,270
	Sept. 4, 1933	3.9	1,270
	Sept. 16, 1933	5.7	3,070
1934	Apr. 12, 1934	3.62	1,040
1935	Dec. 1, 1934	4.7	1,970
	July 10, 1935	5.9	3,330
1936	Nov. 29, 1935	4.7	1,970
	Mar. 12, 1936	6.1	3,590
	Mar. 18, 1936	6.92	4,770
	Apr. 6, 1936	4.00	1,350
1937	Apr. 6, 1937	3.90	1,240
1938	Oct. 24, 1937	3.70	1,110
	Dec. 18, 1937	[a]3.66	—
	Jan. 25, 1938	4.80	2,070
	June 27, 1938	4.26	1,600
	July 23, 1938	4.10	1,430
	Sept. 21, 1938	4.47	1,780
1939	Dec. 6, 1938	4.99	2,540
	Feb. 16, 1939	3.58	1,110
1940	Mar. 15, 1940	[a]4.10	—
	Mar. 31, 1940	5.22	2,790
	Apr. 1, 1940	5.22	2,790
	Apr. 9, 1940	4.34	1,810
	Apr. 22, 1940	3.54	1,090
	Sept. 1, 1940	5.05	2,600
1941	Apr. 6, 1941	3.74	1,220
	July 8, 1941	3.56	1,090
1942	Mar. 9, 1942	4.37	1,810
	May 23, 1942	4.18	1,660
	Aug. 16, 1942	4.55	2,020
	Sept. 28, 1942	5.28	2,920
1943	Nov. 25, 1942	3.84	1,340
	Dec. 30, 1942	4.33	1,710
1944	Nov. 9, 1943	3.63	1,170
	Apr. 25, 1944	4.10	1,500
1945	Mar. 18, 1945	3.78	1,290
	July 19, 1945	5.99	3,900
	July 29, 1945	4.30	1,760
1946	Dec. 26, 1945	[a]5.67	—
	May 28, 1946	4.58	2,080
	June 2, 1946	3.93	1,420
1947	Mar. 14, 1947	3.94	1,420
	Apr. 6, 1947	4.19	1,580
	May 26, 1947	3.93	1,420
1948	Mar. 21, 1948	4.59	2,080
	Apr. 15, 1948	3.67	1,170
1949	Dec. 31, 1948	4.46	1,780
	Jan. 6, 1949	4.10	1,560
1950	Mar. 29, 1950	4.17	1,540
1951	Nov. 26, 1950	4.07	1,500
	Dec. 5, 1950	4.25	1,960
	Dec. 8, 1950	4.47	1,900
	Jan. 24, 1951	3.82	1,280
	Mar. 31, 1951	5.62	2,860
1952	Nov. 8, 1951	5.37	2,980
	Mar. 11, 1952	4.58	2,070
	Apr. 5, 1952	4.59	2,070
	Apr. 15, 1952	4.19	1,650
	Apr. 28, 1952	3.78	1,280
	May 26, 1952	3.67	1,160
1953	Nov. 22, 1952	4.76	2,240
	Dec. 11, 1952	6.50	4,680
	Jan. 25, 1953	5.10	2,660
1954	Dec. 7, 1953	3.35	928
1955	Mar. 23, 1955	4.04	1,500
	Aug. 19, 1955	13.95	23,400
1956	Oct. 16, 1955	5.96	3,680
	Oct. 31, 1955	4.08	1,450
	Nov. 16, 1955	3.71	1,110
	Apr. 30, 1956	3.92	1,270
1957	Apr. 6, 1957	4.08	1,460
	Apr. 9, 1957	3.85	1,260
1958	Dec. 21, 1957	5.50	3,050
	Dec. 26, 1957	4.00	1,380
	Apr. 7, 1958	4.90	2,290

[a] Backwater from ice.

4410. McMichaels Creek at Stroudsburg, Pa.

Location. --Lat 40°58'45", long 75°12'05", at dismantled railroad bridge, 0.25 mile upstream from Little Pocono Creek and 3/4 mile southwest of Stroudsburg, Monroe County.

Drainage area. --65.3 sq mi.

Gage. --Nonrecording gage. Datum of gage is 403.93 ft above mean sea level (preliminary levels of 1912).

Stage-discharge relation. --Defined by current-meter measurements below 1,000 cfs and extended above by contracted-opening measurement.

Remarks. --Base for partial-duration series, 930 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Aug. 31, 1911	5.85	980	1927	Nov. 16, 1926	7.40	1,780
1912	Feb. 22, 1912	6.00	1,080	1928	Dec. 8, 1927	7.50	1,830
	Mar. 13, 1912	8.15	2,180		Jan. 25, 1928	5.8	980
					July 23, 1928	6.6	1,380
1913	Mar. 14, 1913	6.0	1,080				
	Mar. 27, 1913	8.20	2,180	1929	Jan. 6, 1929	6.1	1,130
	Apr. 28, 1913	5.70	930		Feb. 27, 1929	5.9	1,030
	Aug. 1, 1913	6.25	1,180		Mar. 6, 1929	5.7	930
1914	Nov. 9, 1913	6.80	1,480	1930	Oct. 2, 1929	6.1	1,130
	Jan. 31, 1914	7.20	1,680				
	Mar. 17, 1914	5.66	930	1931	Mar. 8, 1931	4.9	580
1915	Jan. 7, 1915	9.00	2,580	1932	Mar. 28, 1932	5.66	930
	Jan. 13, 1915	8.00	2,080				
	Feb. 1, 1915	7.30	1,730	1933	Nov. 1, 1932	7.5	1,830
	Feb. 24, 1915	6.60	1,380		Nov. 10, 1932	6.4	1,280
	Aug. 4, 1915	7.00	1,580		Nov. 19, 1932	6.2	1,180
					Apr. 17, 1933	6.2	1,180
1916	July 27, 1916	8.00	2,080		Aug. 24, 1933	8.7	2,430
					Sept. 4, 1933	9.4	2,820
1917	Jan. 14, 1917	7.05	1,580		Sept. 16, 1933	7.9	2,030
1918	Feb. 20, 1918	8.80	2,480	1934	June 19, 1934	5.61	888
	Feb. 26, 1918	7.40	1,780				
				1935	Dec. 1, 1934	7.1	1,630
1919	May 10, 1919	6.00	1,080		July 10, 1935	8.5	2,330
	July 21, 1919	7.00	1,580				
				1936	Nov. 29, 1935	5.76	980
1920	Mar. 13, 1920	8.00	2,080		Jan. 3, 1936	6.00	1,080
	Mar. 17, 1920	5.90	1,030		Mar. 12, 1936	10.5	3,480
					Mar. 18, 1936	9.0	2,580
1921	Mar. 25, 1921	5.40	795		Apr. 6, 1936	6.8	1,480
1922	Mar. 7, 1922	7.40	1,780	1937	Dec. 20, 1936	6.19	1,180
					Feb. 22, 1937	6.3	1,230
1923	Jan. 1, 1923	6.00	1,080				
	Jan. 16, 1923	5.7	930	1938	Nov. 13, 1937	5.8	980
					Jan. 25, 1938	7.0	1,580
1924	Jan. 17, 1924	6.00	1,080		June 28, 1938	6.2	1,180
	Apr. 6, 1924	7.20	1,680		July 23, 1938	6.1	1,130
	Sept. 30, 1924	7.40	1,780		Sept. 21, 1938	6.6	1,380
1925	Mar. 19, 1925	6.00	1,080	1955	Aug. 18, 1955	14.1	5,740
1926	Nov. 16, 1925	5.90	1,030				
	Feb. 25, 1926	5.80	980				

4415. Pocono Creek near Stroudsburg, Pa.

Location. --Lat 40°59'10", long 75°13'35", at highway bridge, 0.3 mile upstream from Flaglers Run, 1.3 miles west of Stroudsburg, Monroe County, and 1.9 miles upstream from mouth.

Drainage area. --41.0 sq mi.

Gage. --Nonrecording gage. Altitude of gage is 475 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 500 cfs and extended to 3,300 cfs.

Remarks. --Base for partial-duration series, 1,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Mar. 15, 1912	6.3	2,100	1916	July 26, 1916	6.0	1,740
1913	Mar. 27, 1913	6.7	2,670	1917	Jan. 14, 1917	5.8	1,540
1914	Nov. 9, 1913	6.5	2,380		Mar. 27, 1917	5.8	1,540
	Jan. 31, 1914	5.9	1,640	1918	Feb. 26, 1918	7.1	3,300
1915	Jan. 7, 1915	6.8	2,820	1919	Mar. 9, 1919	5.9	1,640
	Feb. 24, 1915	6.3	2,100				

4425. Brodhead Creek at Minisink Hills, Pa.

Location. --Lat 40°59'55", long 75°08'35", on left bank 40 ft downstream from temporary bridge on State Highway 402 at Minisink Hills, Monroe County, 500 ft upstream from Marshall Creek, 1,500 ft downstream from Coates Paper Box Co., 0.8 mile upstream from mouth, and 3 miles southeast of East Stroudsburg.

Drainage area. --259 sq mi.

Gage. --Recorder gage prior to Aug. 19, 1955; nonrecording gage Aug. 23, 1955 to July 24, 1956; recording gage thereafter. Prior to Nov. 24, 1955, at site about 1,300 ft upstream at datum 2.19 ft higher. Datum of present gage is 301.84 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 4,600 cfs and extended on basis of computation of flow over dam and slope-area measurement.

Bankfull stage. --15 ft.

Remarks. --Base for partial-duration series, 4,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 25, 1950	9.80	9,820	1954	Dec. 7, 1953	6.35	4,840
	Dec. 4, 1950	9.59	9,470				
	Dec. 8, 1950	8.02	6,900	1955	Mar. 22, 1955	6.21	4,600
	Jan. 24, 1951	6.68	5,110		Aug. 19, 1955	29.9	68,800
	Feb. 8, 1951	6.90	5,370				
	Mar. 30, 1951	10.00	10,200	1956	Oct. 16, 1955	8.74	7,640
	Apr. 13, 1951	6.10	4,380		Apr. 30, 1956	7.59	5,430
1952	Nov. 7, 1951	10.45	10,900	1957	Apr. 6, 1957	7.43	5,130
	Mar. 11, 1952	9.64	9,490				
	Apr. 5, 1952	8.98	8,500	1958	Dec. 21, 1957	10.50	10,900
	Apr. 15, 1952	7.05	5,600		Dec. 26, 1957	7.64	5,600
	July 10, 1952	11.26	12,600		Apr. 6, 1958	7.57	5,600
	Sept. 1, 1952	7.98	6,970				
1953	Nov. 22, 1952	9.27	8,990				
	Dec. 11, 1952	14.43	19,900				
	Jan. 24, 1953	8.51	7,720				

4465. Delaware River at Belvidere, N. J.

Location. --Lat 40°49'36", long 75°05'02", on left bank at Belvidere, Warren County, 500 ft downstream from Pequest River.

Drainage area. --4,535 sq mi.

Gage. --Nonrecording gage prior to Jan. 1, 1929; recording gage thereafter. Prior to Jan. 1, 1929, at site 200 ft upstream. Datum of gage is 226.43 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 110,000 cfs and extended on basis of flood-routing study.

Remarks. --Base for partial-duration series, 40,000 cfs. Only annual peaks are shown prior to Oct. 1, 1929.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Oct. 10, 1903	28.6	220,000
1923	Mar. 24, 1923	15.7	77,000
1924	Apr. 7, 1924	19.0	114,000
1925	Oct. 1, 1924	19.3	118,000
1926	Apr. 10, 1926	12.02	43,800
1927	Nov. 17, 1926	18.5	108,000
1928	Oct. 20, 1927	16.80	84,400
1929	Mar. 15, 1929	15.90	79,000
1930	Mar. 9, 1930	11.4	39,200
1931	Mar. 30, 1931	12.40	46,800
1932	Apr. 2, 1932	13.6	57,000
1933	Oct. 8, 1932	15.0	70,000
	Nov. 20, 1932	12.29	46,000
	Apr. 18, 1933	12.47	47,600
	Aug. 25, 1933	19.90	122,000
	Sept. 17, 1933	12.40	46,800
1934	Mar. 6, 1934	17.22	92,900
1935	Dec. 2, 1934	15.03	70,900
	Jan. 10, 1935	12.87	52,000
	July 10, 1935	13.52	57,000
1936	Nov. 1, 1935	12.08	45,600
	Nov. 14, 1935	12.28	47,200
	Nov. 30, 1935	11.65	42,200
	Mar. 12, 1936	22.22	148,000
	Mar. 19, 1936	25.00	179,000
	Apr. 7, 1936	11.48	40,800
1937	Jan. 26, 1937	11.88	44,000
	Feb. 23, 1937	14.50	67,200
	Apr. 7, 1937	12.30	47,400
1938	Oct. 24, 1937	12.40	48,200
	Jan. 26, 1938	14.88	71,000
	July 23, 1938	13.00	53,500
	Aug. 12, 1938	14.50	67,200
	Sept. 22, 1938	19.27	116,000
1939	Dec. 7, 1938	15.88	81,000
	Feb. 17, 1939	12.40	48,200
	Feb. 21, 1939	13.17	55,300
1940	Apr. 1, 1940	21.40	138,300
	Apr. 9, 1940	17.38	95,800
	Apr. 22, 1940	13.02	54,100
1941	Dec. 31, 1940	12.65	50,900
1942	Mar. 10, 1942	14.45	66,800
	May 24, 1942	20.97	133,700
	Sept. 28, 1942	16.14	83,300
1943	Nov. 26, 1942	12.10	46,500
	Dec. 31, 1942	18.62	108,600
	Feb. 25, 1943	12.43	49,100
	Mar. 18, 1943	13.63	59,400
	May 23, 1943	11.30	40,300
1944	Nov. 10, 1943	14.05	63,100
	Mar. 18, 1944	12.05	46,100
	Apr. 25, 1944	11.40	41,100
1945	Jan. 3, 1945	12.20	47,300
	Mar. 4, 1945	13.73	60,300
	Mar. 18, 1945	14.65	68,700
	July 20, 1945	14.29	65,300
	July 30, 1945	12.82	52,400
1946	Mar. 10, 1946	13.45	57,800
	May 29, 1946	14.62	68,500
1947	Mar. 15, 1947	13.27	56,200
	Apr. 6, 1947	16.93	91,200
	July 23, 1947	11.42	40,900
1948	Mar. 18, 1948	14.54	67,700
	Mar. 23, 1948	19.68	119,800
	Apr. 15, 1948	13.35	56,800
1949	Dec. 31, 1948	19.48	117,700
	Jan. 7, 1949	15.66	78,500
1950	Mar. 10, 1950	11.58	42,100
	Mar. 29, 1950	14.80	70,200
	Apr. 5, 1950	15.43	76,300
1951	Nov. 26, 1950	18.10	103,000
	Dec. 5, 1950	17.12	93,200
	Dec. 9, 1950	12.50	49,600
	Jan. 25, 1951	11.40	40,800
	Feb. 3, 1951	11.55	41,900
	Feb. 23, 1951	11.41	40,900
	Mar. 31, 1951	19.75	120,600
1952	Nov. 9, 1951	13.40	57,300
	Jan. 28, 1952	12.65	50,900
	Mar. 12, 1952	13.80	60,900

Delaware River at Belvidere, N. J.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952 Cont.	Apr. 6, 1952	14.65	68,800	1955	Aug. 19, 1955	30,21	273,000
	Apr. 16, 1952	13.79	60,800				
	May 26, 1952	11.78	43,700	1956	Oct. 16, 1955	18.13	93,300
	July 10, 1952	16.53	87,200		Oct. 31, 1955	11.90	41,300
					Apr. 6, 1956	12.58	46,100
1953	Nov. 23, 1952	11.70	43,100				
	Dec. 12, 1952	20.00	122,000	1957	Apr. 7, 1957	13.90	55,700
	Jan. 25, 1953	16.13	81,300				
				1958	Dec. 22, 1957	15.69	70,300
1954	Feb. 18, 1954	11.00	38,000		Apr. 7, 1958	15.58	69,400

4475. Lehigh River at Stoddartsville, Pa.

Location. --Lat 41°07'45", long 75°37'40", on left bank 75 ft upstream from concrete bridge on State Highway 115, at Stoddartsville, Luzerne County, 1.9 miles upstream from Tobyhanna Creek, and 4 miles southwest of Thornhurst.

Drainage area. --91.7 sq mi.

Gage. --Nonrecording gage prior to Oct. 1, 1946; recording gage thereafter. Prior to Oct. 1, 1946, at site 350 ft downstream at datum 2.14 ft lower. Datum of present gage is 1,463.81 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 1,700 cfs and extended above on basis of slope-area measurement.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 22, 1942	12.03	15,700	1951	Nov. 26, 1950	7.94	5,940
					Dec. 4, 1950	8.59	7,250
1944	Nov. 9, 1943	5.5	2,800		Dec. 8, 1950	4.34	1,640
	Apr. 25, 1944	4.1	1,540		Jan. 24, 1951	3.85	1,300
					Mar. 31, 1951	4.00	1,400
1945	July 15, 1945	4.2	1,380				
	July 19, 1945	6.1	3,090	1952	Mar. 11, 1952	5.21	2,310
					Apr. 15, 1952	5.13	2,230
1946	May 28, 1946	5.6	2,640		July 10, 1952	4.90	2,070
1947	Apr. 5, 1947	4.82	2,010	1953	Nov. 22, 1952	5.42	2,490
	May 22, 1947	4.17	1,500		Dec. 11, 1952	6.64	3,640
	July 8, 1947	7.74	5,600		Jan. 25, 1953	4.10	1,470
1948	Mar. 20, 1948	4.76	1,950	1954	Dec. 7, 1953	3.70	1,200
1949	Dec. 30, 1948	5.38	2,490	1955	Aug. 14, 1955	5.28	2,450
	Jan. 6, 1949	4.86	2,030		Aug. 19, 1955	16.37	31,900
1950	Dec. 27, 1949	2.75	666	1956	Oct. 16, 1955	7.06	4,650
	Jan. 7, 1950	3.25	930		Oct. 30, 1955	4.17	1,500
	Mar. 9, 1950	3.0	790				
	Mar. 28, 1950	4.64	1,870	1957	Apr. 6, 1957	3.64	1,360
	Apr. 5, 1950	4.67	1,870				
				1958	Dec. 21, 1957	6.16	3,550
					Apr. 7, 1958	4.17	1,700

4480. Lehigh River at Tannery, Pa.

Location. --Lat 41°02'25", long 75°45'45", on right bank 600 ft upstream from highway bridge at Tannery, Luzerne County and 1¼ miles upstream from Black Creek.

Drainage area. --322 sq mi.

Gage. --Nonrecording gage prior to Oct. 18, 1928; recording gage thereafter. Prior to Oct. 18, 1928 at site 600 ft downstream at datum 12.65 ft lower. Datum of present gage is 1,042.06 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 7,100 cfs and extended on basis of slope-area measurement.

Bankfull stage. --12 ft.

Remarks. --Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Jan. 19, 1915	7.3	3,750
	Feb. 25, 1915	7.2	3,650
1917	Mar. 28, 1917	8.0	4,450
	Aug. 8, 1917	7.7	4,150
1918	Oct. 30, 1917	9.0	5,550
	Feb. 20, 1918	[a]7.2	3,650
	Apr. 18, 1918	8.3	4,780
1919	Mar. 9, 1919	6.8	[b]3,250
1920	Mar. 12, 1920	8.3	4,560
	Mar. 27, 1920	7.45	3,850
1921	Mar. 10, 1921	7.5	3,950
1922	Nov. 29, 1921	7.4	3,850
	Dec. 2, 1921	7.4	3,850
	Mar. 8, 1922	8.3	4,780
	June 4, 1922	7.2	3,650
1923	July 28, 1923	7.8	4,250
1924	Jan. 11, 1924	8.0	4,450
	Apr. 6, 1924	9.6	6,210
	Sept. 30, 1924	13.2	10,400
1925	Feb. 12, 1925	9.2	5,660
1926	Nov. 13, 1925	6.6	[b]3,050
1927	Nov. 16, 1926	15.0	12,700
1928	Oct. 19, 1927	10.7	7,420
	Nov. 18, 1927	9.2	5,770
	Dec. 8, 1927	8.0	4,450
	May 1, 1928	7.1	3,550
	June 30, 1928	13.0	10,100
	July 14, 1928	8.7	5,220
1929	Mar. 15, 1929	6.27	4,340
1930	June 11, 1930	5.41	[b]3,090
1931	Mar. 29, 1931	7.50	6,300
1932	Apr. 1, 1932	6.83	5,100
	Apr. 3, 1932	5.77	3,750
1933	Oct. 7, 1932	5.77	3,880
	Nov. 2, 1932	5.78	3,750
	Apr. 18, 1933	5.80	3,750
	Aug. 24, 1933	12.47	17,600
	Sept. 16, 1933	10.30	11,200
1934	Apr. 1, 1934	5.22	[b]3,010
1935	Dec. 1, 1934	8.99	8,430
	July 10, 1935	13.12	19,400
1936	Nov. 29, 1935	7.04	5,350
	Mar. 12, 1936	13.34	20,000
	Mar. 18, 1936	13.01	19,100
1937	Apr. 6, 1937	5.66	3,400
1938	Oct. 23, 1937	8.80	7,900
	Jan. 25, 1938	8.34	7,260
	Jan. 27, 1938	6.03	4,010
	July 22, 1938	6.62	4,790
	July 23, 1938	6.94	5,210
	Sept. 22, 1938	6.26	4,400
1939	Dec. 6, 1938	7.90	6,300
	Feb. 15, 1939	6.46	4,660
1940	Mar. 31, 1940	10.46	12,100
	Apr. 5, 1940	7.24	5,630
	Apr. 9, 1940	7.48	6,050
	Sept. 1, 1940	7.35	5,910
1941	Apr. 6, 1941	5.60	[b]3,480
1942	Mar. 9, 1942	7.03	5,350
	May 22, 1942	16.51	29,600
	Sept. 27, 1942	7.94	6,650
1943	Dec. 30, 1942	8.17	7,070
1944	Oct. 27, 1943	5.96	4,010
	Oct. 29, 1943	6.43	4,530
	Nov. 9, 1943	9.70	9,910
	Apr. 25, 1944	5.82	3,780
1945	July 16, 1945	5.90	3,880
	July 19, 1945	8.02	6,750
1946	May 28, 1946	7.61	6,140
1947	Apr. 5, 1947	6.94	5,210
	May 22, 1947	6.98	5,350
	May 26, 1947	6.35	4,530
	July 8, 1947	10.13	10,800
	July 17, 1947	7.66	6,290
1948	Mar. 17, 1948	6.59	4,920
	Mar. 20, 1948	6.99	5,420
	Apr. 15, 1948	5.95	4,200

Lehigh River at Tannery, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Dec. 30, 1948	8.42	7,420	1953	Nov. 22, 1952	9.17	8,800
	Jan. 6, 1949	7.40	5,940		Dec. 11, 1952	10.11	10,800
	May 7, 1949	6.26	4,560		Jan. 24, 1953	6.62	4,980
1950	Mar. 28, 1950	7.36	5,940	1954	Dec. 7, 1953	5.48	3,750
	Apr. 5, 1950	6.45	4,680				
				1955	Aug. 14, 1955	7.97	6,760
1951	Nov. 26, 1950	10.9	12,800		Aug. 19, 1955	22.2	58,300
	Dec. 4, 1950	11.7	15,200				
	Dec. 8, 1950	6.68	5,040	1956	Oct. 15, 1955	9.21	11,000
	Jan. 24, 1951	6.19	4,440		Oct. 30, 1955	5.46	4,630
	Mar. 31, 1951	7.00	5,420		Nov. 16, 1955	4.64	3,650
1952	Nov. 7, 1951	5.68	3,970	1957	Apr. 6, 1957	6.19	5,830
	Mar. 11, 1952	8.69	7,910		Apr. 9, 1957	5.11	4,340
	Apr. 6, 1952	5.86	4,190				
	Apr. 15, 1952	6.94	5,340	1958	Dec. 21, 1957	10.50	13,900
	Apr. 28, 1952	5.46	3,750		Dec. 27, 1957	5.33	4,600
	May 26, 1952	5.43	3,650		Apr. 6, 1958	7.28	7,350
	July 10, 1952	8.92	8,250				
	Sept. 2, 1952	5.46	3,750				

[a]Backwater from ice.
[b]Annual peak only

4485. Dilldown Creek near Long Pond, Pa.

Location. --Lat 41°02'10", long 75°32'35", on left bank 60 ft above timber bridge on Shucks Mill Road, 2.8 miles upstream from Mud Run, 4 miles northeast of Albrightsville, and 4.4 miles west of Long Pond, Monroe County.

Drainage area. --2.39 sq mi (determined from boundary survey by U. S. Forest Service).

Gage. --Recording gage. Datum of gage is 1,665.07 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --2 ft.

Remarks. --Base for partial-duration series, 45 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Dec. 30, 1948	2.19	52	1953	Nov. 22, 1952	2.67	136
	Jan. 5, 1949	2.27	60		Dec. 5, 1952	2.215	54
	May 7, 1949	2.43	88		Dec. 11, 1952	3.075	244
					Jan. 24, 1953	2.64	130
1950	Mar. 8, 1950	2.30	64		Feb. 21, 1953	2.18	50
	Mar. 28, 1950	2.52	105		Mar. 24, 1953	2.165	49
1951	Nov. 4, 1950	2.145	47	1954	Dec. 7, 1953	2.175	50
	Nov. 25, 1950	2.91	196		Apr. 17, 1954	2.13	46
	Dec. 4, 1950	3.005	222				
	Dec. 8, 1950	2.415	86	1955	Mar. 22, 1955	2.155	48
	Jan. 24, 1951	2.325	71		Aug. 14, 1955	2.625	126
	Feb. 7, 1951	2.285	62		Aug. 18, 1955	3.37	342
	Mar. 30, 1951	2.595	120				
	Apr. 12, 1951	2.325	71	1956	Oct. 15, 1955	2.915	197
					Oct. 30, 1955	2.46	94
1952	Nov. 7, 1951	2.185	51		Apr. 30, 1956	2.155	48
	Dec. 5, 1951	2.15	48				
	Dec. 21, 1951	2.15	48	1957	Jan. 23, 1957	2.205	53
	Mar. 11, 1952	2.71	145		Apr. 6, 1957	2.185	51
	Apr. 5, 1952	2.335	73				
	Apr. 15, 1952	2.35	75	1958	Dec. 20, 1957	3.31	321
	July 10, 1952	3.195	281		Dec. 26, 1957	2.375	79
	Sept. 1, 1952	2.77	160		Apr. 6, 1958	2.73	150

4495. Wild Creek at Hatchery, Pa.

Location. --Lat 40°55'25", long 75°33'30", on left bank at Hatchery, Carbon County, 0.5 mile downstream from Cross Run, 2.2 miles upstream from Wild Creek Dam, and 4 miles upstream from mouth.

Drainage area. --16.8 sq mi.

Gage. --Recording gage. Datum of gage is 842.71 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 220 cfs and extended above on basis of contracted-opening measurement at gage height, 5.59 ft.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	July 8, 1941	5.50	1,720	1950	Mar. 28, 1950	3.00	179
1942	May 23, 1942	6.00	2,360	1951	Nov. 25, 1950	4.07	568
	June 7, 1942	3.33	268		Dec. 4, 1950	4.67	939
	Aug. 14, 1942	3.55	340		Dec. 8, 1950	3.66	381
	Sept. 27, 1942	3.88	475				
1943	Dec. 30, 1942	3.54	336	1952	Mar. 11, 1952	3.69	393
					May 25, 1952	3.48	290
1944	Nov. 9, 1943	4.16	606		July 9, 1952	4.76	1,010
	May 27, 1944	3.66	381		Sept. 1, 1952	4.12	595
1945	July 5, 1945	3.28	254	1953	Nov. 22, 1952	4.21	646
	July 9, 1945	3.63	370		Dec. 11, 1952	4.53	841
	July 15, 1945	4.28	688		Feb. 21, 1953	3.32	252
	July 20, 1945	4.38	748	1954	Dec. 7, 1953	2.93	168
1946	May 27, 1946	3.35	258	1955	Aug. 18, 1955	5.59	1,830
	July 23, 1946	3.38	265				
1947	May 14, 1947	3.30	259	1956	Oct. 16, 1955	3.27	251
	May 24, 1947	4.52	834		Apr. 30, 1956	3.51	326
	July 7, 1947	3.85	462	1957	Apr. 6, 1957	3.22	237
	July 15, 1947	3.38	283				
1948	Apr. 1, 1948	3.39	266	1958	Dec. 20, 1957	3.69	393
					Apr. 6, 1958	3.32	265
1949	Jan. 5, 1949	3.36	277				
	May 6, 1949	4.18	629				

4500. Pohopoco Creek near Parryville, Pa.

Location. --Lat 40°49'55", long 75°40'55", on right bank 1.2 miles downstream from Bull Run, 1.2 miles north of Parryville, Carbon County, and 2.3 miles upstream from mouth.

Drainage area. --109 sq mi.

Gage. --Recording gage. Prior to Dec. 12, 1955, at site 0.2 mile upstream at datum 4.64 ft higher. Datum of present gage is 454.61 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 1,100 cfs.

Pohopoco Creek near Parryville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	July 8, 1941	4.85	2,500	1950	Mar. 9, 1950	3.49	1,090
1942	May 23, 1942	7.42	5,270	1951	Nov. 25, 1950	4.57	2,000
	Aug. 14, 1942	5.04	2,480		Dec. 4, 1950	4.82	2,230
	Aug. 17, 1942	3.80	1,420		Dec. 8, 1950	3.79	1,310
	Sept. 28, 1942	5.90	3,400		Feb. 7, 1951	4.80	2,230
1943	Dec. 30, 1942	5.26	2,680		Mar. 31, 1951	3.72	1,230
	Feb. 21, 1943	3.80	1,300	1952	Nov. 7, 1951	3.53	1,120
1944	Nov. 9, 1943	4.41	1,850		Mar. 11, 1952	5.02	2,430
	Mar. 13, 1944	3.58	1,190		Apr. 5, 1952	4.49	1,930
	May 27, 1944	3.75	1,300		Apr. 16, 1952	3.60	1,160
1945	July 10, 1945	5.87	3,400		May 25, 1952	3.94	1,430
	July 15, 1945	5.50	2,960		July 10, 1952	5.67	3,180
	July 20, 1945	5.04	2,480		Sept. 1, 1952	4.90	2,330
1946	May 28, 1946	4.10	1,560	1953	Nov. 22, 1952	5.18	2,630
1947	Mar. 14, 1947	3.75	1,270		Dec. 11, 1952	6.00	3,520
	May 26, 1947	4.67	2,080		Jan. 24, 1953	3.93	1,430
	July 8, 1947	3.84	1,350	1954	Dec. 7, 1953	3.57	1,120
	July 17, 1947	3.55	1,120	1955	Aug. 13, 1955	3.40	1,260
1948	Mar. 20, 1948	3.31	960		Aug. 18, 1955	6.77	5,250
1949	Dec. 31, 1948	4.07	1,520	1956	Oct. 16, 1955	4.75	2,620
	Jan. 6, 1949	3.97	1,430	1957	Apr. 6, 1957	5.15	1,710
	May 7, 1949	3.80	1,310	1958	Dec. 21, 1957	6.88	2,850
					Jan. 22, 1958	4.63	1,380

4505. Aquashicola Creek at Palmerton, Pa.

Location. --Lat 40°48'20", long 75°35'55", on right bank 1,200 ft upstream from Sixth Street Bridge in Palmerton, Carbon County and 1¼ miles upstream from mouth.

Drainage area. --76.7 sq mi.

Gage. --Recording gage. Datum of gage is 389.08 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,500 cfs and extended on basis of contracted-opening measurement.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 15, 1940	10.03	4,550	1944	Nov. 9, 1943	7.33	2,300
	Mar. 31, 1940	6.53	1,740		Mar. 7, 1944	5.72	1,250
	Apr. 9, 1940	5.48	1,130		Mar. 13, 1944	6.30	1,610
	Sept. 1, 1940	6.20	1,550		Apr. 25, 1944	5.68	1,250
1941	Nov. 15, 1940	4.84	805	1945	Feb. 27, 1945	5.70	1,010
					July 10, 1945	13.63	11,700
1942	Feb. 17, 1942	5.44	1,100		July 15, 1945	6.59	1,670
	May 23, 1942	8.09	2,990		Sept. 9, 1945	5.62	1,100
	Aug. 17, 1942	7.42	2,370		Sept. 19, 1945	5.81	1,200
	Sept. 28, 1942	9.08	3,650				
				1946	May 28, 1946	6.28	1,490
1943	Oct. 27, 1942	5.42	1,070		July 2, 1946	5.60	1,080
	Dec. 30, 1942	7.68	2,590		July 23, 1946	6.10	1,370
	Feb. 21, 1943	5.47	1,100				

Aquashicola Creek at Palmerton, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Jan. 20, 1947	6.19	1,300	1952	Mar. 11, 1952	7.69	2,450
	Mar. 14, 1947	6.90	1,820	Cont.	Apr. 5, 1952	6.87	1,850
	May 26, 1947	6.35	1,430		May 25, 1952	5.65	1,060
					July 10, 1952	9.40	3,940
1948	Nov. 8, 1947	5.69	1,080		Sept. 1, 1952	7.24	2,060
	Mar. 17, 1948	5.72	1,080				
	Aug. 22, 1948	6.07	1,220	1953	Nov. 22, 1952	7.90	2,610
					Dec. 11, 1952	8.31	2,930
1949	Dec. 30, 1948	7.97	2,660		Jan. 24, 1953	6.20	1,370
	Jan. 6, 1949	6.90	1,820				
	Apr. 19, 1949	5.81	1,120	1954	Dec. 7, 1953	6.50	1,570
	May 7, 1949	5.80	1,120				
				1955	Mar. 23, 1955	5.65	1,060
1950	Mar. 23, 1950	5.70	1,080		Aug. 14, 1955	6.51	1,580
					Aug. 19, 1955	9.82	4,380
1951	Nov. 26, 1950	7.05	1,980				
	Dec. 4, 1950	7.06	2,020	1956	Oct. 16, 1955	7.55	2,370
	Feb. 7, 1951	6.87	1,850				
	Mar. 31, 1951	6.09	1,310	1957	Apr. 6, 1957	7.22	2,070
	July 28, 1951	6.76	1,740				
				1958	Dec. 21, 1957	9.58	4,140
1952	Nov. 3, 1951	5.81	1,130		Jan. 22, 1958	6.85	1,800
	Nov. 8, 1951	6.88	1,850		Feb. 28, 1958	7.55	2,370

4510. Lehigh River at Walnutport, Pa.

Location. --Lat 40°45'20", long 75°36'15", on left bank 0.3 mile upstream from highway bridge at Walnutport, Northampton County, and 0.4 mile upstream from Trout Creek.

Drainage area. --889 sq mi.

Gage. --Recording gage. Datum of gage is 350.27 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --13 ft.

Remarks. --Base for partial-duration series, 9,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May 23, 1942	20.6	—	1951	Jan. 24, 1951	6.61	13,400
				Cont.	Feb. 7, 1951	7.17	16,200
1947	Mar. 14, 1947	6.20	11,800		Mar. 31, 1951	6.36	12,400
	Apr. 6, 1947	5.64	9,400				
	May 22, 1947	6.24	11,800	1952	Nov. 3, 1951	5.94	10,500
	May 26, 1947	6.70	14,100		Nov. 8, 1951	7.17	15,800
	July 8, 1947	8.35	23,000		Dec. 5, 1951	6.05	10,500
	July 17, 1947	6.77	14,600		Mar. 11, 1952	9.42	27,300
					Apr. 6, 1952	6.60	13,000
1948	Mar. 17, 1948	5.95	10,600		Apr. 16, 1952	6.46	12,600
	Mar. 20, 1948	6.06	11,100		Apr. 28, 1952	6.32	11,700
	Apr. 1, 1948	5.71	9,600		May 26, 1952	5.97	10,500
	Apr. 15, 1948	5.84	10,200		July 10, 1952	9.15	26,200
					Sept. 1, 1952	6.62	13,000
1949	Dec. 30, 1948	8.19	21,900				
	Jan. 6, 1949	7.17	16,600	1953	Nov. 22, 1952	10.97	36,100
	May 7, 1949	5.70	9,600		Dec. 6, 1952	5.83	9,900
					Dec. 11, 1952	10.20	31,700
1950	Mar. 29, 1950	6.35	12,600		Jan. 24, 1953	7.06	15,300
1951	Nov. 25, 1950	11.26	38,200	1954	Dec. 7, 1953	6.26	11,700
	Dec. 4, 1950	12.66	46,000				
	Dec. 8, 1950	6.72	13,800				

Lehigh River at Walnutport, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Aug. 14, 1955	6.23	11,400	1957	Jan. 23, 1957	6.41	12,200
	Aug. 19, 1955	17.68	77,800		Apr. 6, 1957	7.89	18,400
1956	Oct. 16, 1955	9.21	25,600	1958	Dec. 21, 1957	11.35	37,600
	Oct. 30, 1955	5.89	10,100		Dec. 26, 1957	6.42	11,400
					Feb. 28, 1958	6.45	11,400
					Apr. 6, 1958	7.37	15,900

4515. Little Lehigh Creek near Allentown, Pa.

Location. --Lat 40°34'55", long 75°29'00", on right bank at highway bridge on Lehigh Parkway in Allentown, Lehigh County, 0.8 mile upstream from Cedar Creek, and 2.9 miles upstream from mouth.

Drainage area. --80.8 sq mi.

Gage. --Recording gage. Datum of gage is 253.41 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 980 cfs and extended by logarithmic plotting.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	July 9, 1935	9.5	—	1953	Nov. 22, 1952	4.22	925
					Dec. 11, 1952	4.11	870
1946	June 2, 1946	3.72	729		Jan. 24, 1953	3.56	650
	July 2, 1946	3.47	648		Mar. 4, 1953	3.10	454
	Aug. 18, 1946	5.14	1,300		Mar. 26, 1953	3.90	835
					Apr. 7, 1953	3.17	486
1947	July 17, 1947	3.28	618				
				1954	Dec. 7, 1953	3.82	747
1948	May 13, 1948	4.07	852				
	June 20, 1948	4.10	871	1955	Feb. 7, 1955	3.41	524
	Aug. 11, 1948	2.87	472		Aug. 13, 1955	3.83	714
					Aug. 18, 1955	6.17	1,880
1949	Dec. 30, 1948	3.00	502		Aug. 22, 1955	3.66	637
	Jan. 6, 1949	3.42	633				
				1956	Oct. 15, 1955	5.46	1,530
1950	Mar. 23, 1950	3.22	399		Feb. 7, 1956	3.82	700
1951	Nov. 25, 1950	4.75	1,080	1957	Apr. 5, 1957	3.35	594
	Jan. 15, 1951	3.27	456				
	Feb. 7, 1951	5.03	1,230	1958	Jan. 22, 1958	4.23	950
	Apr. 12, 1951	3.15	468		Feb. 28, 1958	6.30	1,960
1952	Nov. 7, 1951	3.49	631				
	Mar. 11, 1952	3.79	859				
	Apr. 28, 1952	3.47	746				
	July 10, 1952	3.12	495				
	Sept. 1, 1952	3.32	454				

4520. Jordan Creek at Allentown, Pa.

Location. --Lat 40°37'25", long 75°29'00", on right bank 200 ft upstream from bridge on State Highway 145, 0.5 mile northwest of city limit of Allentown, Lehigh County, and 2.5 miles upstream from mouth.

Drainage area. --75.8 sq mi.

Gage. --Recording gage and crest-stage indicator. Datum of gage is 259.82 ft above mean sea level, datum of 1929 (Pennsylvania State Highway benchmark).

Stage-discharge relation. --Defined by current-meter measurement below 1,900 cfs and extended on basis of slope-area measurement.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 1,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Feb. 27, 1945	3.66	1,370	1952 Cont.	May 25, 1952	3.60	1,890
	Sept. 19, 1945	3.85	1,660		July 10, 1952	3.33	1,450
1946	May 28, 1946	3.63	1,320		Sept. 1, 1952	3.52	1,750
	June 2, 1946	3.40	1,340	1953	Nov. 22, 1952	4.42	3,520
	July 2, 1946	3.39	1,330		Dec. 11, 1952	3.54	1,790
1947	Jan. 20, 1947	3.66	1,810		Jan. 24, 1953	3.28	1,370
	Mar. 14, 1947	3.42	1,380		Mar. 26, 1953	3.62	1,930
	May 26, 1947	3.96	2,380	1954	Dec. 7, 1953	4.19	3,070
1948	Feb. 20, 1948	[a]3.65	—	1955	Feb. 7, 1955	3.60	1,840
	Aug. 20, 1948	3.63	1,680		Mar. 23, 1955	3.58	1,810
1949	Dec. 31, 1948	3.93	2,320		Aug. 14, 1955	3.34	1,410
	Jan. 6, 1949	3.63	1,750		Aug. 19, 1955	8.00	9,520
1950	Mar. 23, 1950	3.67	1,820	1956	Oct. 16, 1955	4.20	2,730
					Feb. 7, 1956	3.86	2,130
1951	Nov. 26, 1950	4.68	4,240	1957	Dec. 15, 1956	3.52	1,450
	Dec. 5, 1950	3.56	1,630		Apr. 6, 1957	4.32	2,710
	Feb. 7, 1951	5.19	5,940				
	July 28, 1951	3.99	2,440	1958	Dec. 21, 1957	3.59	1,590
1952	Nov. 7, 1951	4.05	2,560		Jan. 22, 1958	4.50	2,040
	Mar. 11, 1952	3.70	2,070		Feb. 28, 1958	5.81	4,000
	Apr. 28, 1952	3.33	1,450		May 9, 1958	3.75	1,320
					Sept. 27, 1958	5.41	3,280

[a]Backwater from ice.

4525. Monocacy Creek at Bethlehem, Pa.

Location. --Lat 40°38'30", long 75°22'50", on downstream side of right span of highway bridge at entrance to Monocacy Park at Bethlehem, Northampton County, 2.1 miles upstream from mouth.

Drainage area. --44.5 sq mi.

Gage. --Nonrecording gage and crest-stage indicator. Datum of gage is 247.24 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation. --Defined by current-meter measurements below 560 cfs and extended on basis of slope-area measurements.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 300 cfs.

Monocacy Creek at Bethlehem, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	July 10, 1945	9.74	5,200	1954	Dec. 7, 1953	4.1	351
1949	Dec. 31, 1948	4.34	354	1955	Feb. 7, 1955	4.69	501
	Jan. 6, 1949	4.18	329		Aug. 19, 1955	4.68	495
1950	Mar. 23, 1950	3.31	186	1956	Oct. 15, 1955	4.74	513
1951	June 23, 1951	4.34	393		Feb. 7, 1956	5.06	623
	July 28, 1951	4.42	419		June 24, 1956	4.89	560
1952	Mar. 11, 1952	4.20	368		July 9, 1956	3.98	309
	May 25, 1952	4.06	344	1957	Apr. 6, 1957	4.36	420
	July 9, 1952	4.00	321	1958	Dec. 21, 1957	4.00	330
	Sept. 1, 1952	4.03	321		Jan. 22, 1958	6.32	1,150
1953	Nov. 22, 1952	3.99	321		Feb. 28, 1958	7.63	2,340
	Dec. 11, 1952	4.25	373				
	May 23, 1953	4.04	330				

4530. Lehigh River at Bethlehem, Pa.

Location. --Lat 40°37'05", long 75°21'55", on left bank, 1,650 ft upstream from Minsi Trail Bridge at Bethlehem, Northampton County, and 2,400 ft downstream from Monocacy Creek.

Drainage area. --1,279 sq mi.

Gage. --Nonrecording gage prior to Oct. 1, 1928; recording gage thereafter. Prior to Oct. 1, 1928 at site 4,130 ft upstream at datum 2.49 ft higher. Datum of present gage is 208.45 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 50,000 cfs and extended.

Bankfull stage. --18 ft.

Remarks. --Base for partial-duration series, 11,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1902	Feb. 28, 1902	24.9	88,000	1914	Jan. 31, 1914	7.3	11,600
					Mar. 28, 1914	7.2	11,300
1903	Dec. 17, 1902	—	[a]15,200				
	Dec. 22, 1902	—	[a]26,800	1915	Jan. 7, 1915	8.5	15,000
	Mar. 1, 1903	—	[a]20,100		Jan. 13, 1915	11.52	24,500
	Mar. 24, 1903	—	[a]17,000		Jan. 20, 1915	7.2	11,300
					Feb. 1, 1915	10.2	20,100
1904	Oct. 10, 1903	—	[a]25,800		Feb. 25, 1915	9.3	17,300
	Mar. 7, 1904	—	[a]20,000				
				1916	Mar. 31, 1916	7.52	12,100
1905	Jan. 7, 1905	—	[a]19,600		July 26, 1916	9.0	16,400
1910	Dec. 14, 1909	7.5	11,800	1917	Jan. 14, 1917	7.8	12,900
	Jan. 22, 1910	13.78	32,200		Mar. 28, 1917	9.5	17,900
	Mar. 1, 1910	8.54	14,800				
	Apr. 26, 1910	8.0	13,300	1918	Oct. 30, 1917	9.5	18,200
					Feb. 20, 1918	13.0	29,100
1911	Aug. 31, 1911	7.77	12,700		Feb. 26, 1918	11.0	22,700
1912	Feb. 22, 1912	9.0	16,400	1919	Mar. 9, 1919	9.0	16,800
	Mar. 13, 1912	10.4	20,800		July 21, 1919	7.1	11,400
	Mar. 15, 1912	11.6	24,800				
				1920	Mar. 5, 1920	12.0	25,800
1913	Jan. 4, 1913	7.0	10,700		Mar. 13, 1920	10.5	21,200
	Mar. 14, 1913	7.1	11,000		Mar. 17, 1920	9.3	17,600
	Mar. 27, 1913	12.4	27,500				
	Apr. 13, 1913	11.0	22,700				

Lehigh River at Bethlehem, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Mar. 4, 1921	6.72	10,200
1922	Mar. 8, 1922	9.8	19,100
1923	Mar. 17, 1923	7.0	11,100
1924	Jan. 11, 1924	8.4	15,000
	Jan. 17, 1924	9.0	16,800
	Apr. 7, 1924	11.3	23,600
1925	Oct. 1, 1924	16.2.	43,500
	Feb. 12, 1925	13.0	29,100
1926	Feb. 26, 1926	7.9	13,600
1927	Oct. 20, 1926	10.7	21,800
	Nov. 17, 1926	16.7	44,000
1928	Nov. 18, 1927	10.6	21,400
	Dec. 8, 1927	9.7	18,800
	Feb. 15, 1928	7.2	11,600
	June 30, 1928	13.4	30,700
	July 6, 1928	7.1	11,400
1929	Mar. 6, 1929	7.8	16,600
1930	Oct. 3, 1929	6.50	11,600
1931	Feb. 18, 1931	5.73	8,820
1932	Apr. 1, 1932	6.56	12,000
1933	Nov. 2, 1932	7.30	14,700
	Nov. 10, 1932	6.06	10,400
	Nov. 20, 1932	6.87	13,200
	Mar. 22, 1933	6.13	10,400
	Apr. 18, 1933	8.35	18,600
	Aug. 24, 1933	18.70	64,800
	Sept. 4, 1933	9.80	23,300
	Sept. 17, 1933	8.40	18,600
1934	Apr. 1, 1934	6.32	10,800
	Sept. 17, 1934	6.35	11,300
1935	Dec. 2, 1934	11.73	30,400
	July 10, 1935	18.53	63,700
1936	Nov. 29, 1935	6.85	12,800
	Mar. 12, 1936	17.04	55,700
	Mar. 18, 1936	15.70	49,000
	Apr. 6, 1936	7.75	16,600
1937	Jan. 26, 1937	6.19	10,500
	Feb. 22, 1937	6.24	10,500
	Apr. 6, 1937	6.18	10,500
1938	Oct. 23, 1937	9.37	22,400
	Jan. 25, 1938	8.40	19,100
	June 28, 1938	8.32	18,700
	July 22, 1938	7.07	14,000
	July 24, 1938	7.38	15,200
	Sept. 22, 1938	7.36	15,200
1939	Dec. 6, 1938	10.47	25,900
	Dec. 10, 1938	6.26	10,800
	Feb. 16, 1939	7.10	13,900
1940	Mar. 4, 1940	6.48	11,100
	Mar. 15, 1940	12.83	35,000
	Mar. 31, 1940	12.35	33,300
	Apr. 9, 1940	7.83	16,500
	Sept. 1, 1940	8.13	17,600
1941	Apr. 6, 1941	5.68	8,210
1942	Mar. 9, 1942	6.47	11,100
	May 23, 1942	23.47	92,000
	Sept. 28, 1942	9.72	23,000
1943	Oct. 27, 1942	6.45	10,800
	Dec. 31, 1942	10.02	24,000
1944	Nov. 9, 1943	11.55	30,000
	Mar. 13, 1944	6.98	13,100
	Apr. 25, 1944	6.80	12,200
1945	July 10, 1945	8.10	17,600
	July 15, 1945	8.27	18,300
	July 21, 1945	8.30	18,300
1946	May 28, 1946	9.53	22,300
	June 3, 1946	6.95	13,100
	July 23, 1946	6.49	10,940
1947	Mar. 15, 1947	7.38	14,800
	Apr. 6, 1947	6.42	10,500
	May 22, 1947	7.08	13,500
	May 26, 1947	8.47	18,900
	July 8, 1947	9.48	22,300
	July 17, 1947	7.84	16,500
1948	Nov. 9, 1947	6.25	9,940
	Mar. 17, 1948	6.76	12,200
	Mar. 20, 1948	6.80	12,200
	Apr. 1, 1948	6.60	11,400
	Apr. 15, 1948	7.02	13,100
1949	Dec. 31, 1948	10.77	26,900
	Jan. 6, 1949	9.01	20,600
1950	Mar. 29, 1950	7.27	14,400
1951	Nov. 26, 1950	14.4	42,500
	Dec. 5, 1950	15.31	46,900
	Dec. 8, 1950	8.38	18,500
	Jan. 24, 1951	7.86	16,700
	Feb. 7, 1951	9.89	23,700
	Mar. 31, 1951	7.19	13,700
	July 28, 1951	8.09	17,500
1952	Nov. 3, 1951	7.70	15,900
	Nov. 8, 1951	9.16	22,600
	Dec. 6, 1951	6.71	12,600
	Jan. 28, 1952	6.29	11,000
	Mar. 12, 1952	11.31	31,000
	Apr. 6, 1952	7.46	15,800
	Apr. 16, 1952	7.16	14,600
	Apr. 29, 1952	7.28	15,000
	May 25, 1952	6.97	13,800
	July 10, 1952	10.53	27,800
	Sept. 2, 1952	7.41	15,400
1953	Nov. 22, 1952	13.75	41,200
	Dec. 6, 1952	6.51	11,800
	Dec. 11, 1952	12.26	35,000
	Jan. 25, 1953	8.21	18,600
	Mar. 26, 1953	6.27	11,000
	May 23, 1953	6.34	11,000
1954	Dec. 7, 1953	7.73	16,600
1955	Aug. 14, 1955	7.23	14,700
	Aug. 19, 1955	23.38	91,300
1956	Oct. 16, 1955	11.48	30,900
1957	Apr. 6, 1957	9.75	23,800

Lehigh River at Bethlehem, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1958	Dec. 21, 1957	14.03	41,800	1958 Cont.	Feb. 28, 1958	10.47	26,700
	Dec. 27, 1957	7.28	13,700		Apr. 7, 1958	8.30	17,700
	Jan. 22, 1958	7.49	14,500				

[a]Daily mean discharge; gage height unknown.

4535. Saucon Creek at Lanark, Pa.

Location. --Lat 40°32'50", long 75°25'30", on left bank 200 ft upstream from concrete highway bridge on U. S. Route 309 and 0.5 mile southeast of Lanark, Lehigh County.

Drainage area. --12.0 sq mi.

Gage. --Nonrecording gage and crest-stage indicator. Datum of gage is 380.42 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 340 cfs and extended by logarithmic plotting.

Remarks. --Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 13, 1948	4.08	530	1951 Cont.	Jan. 15, 1951	3.43	359
	June 20, 1948	3.80	455		Feb. 7, 1951	4.02	505
1949	Dec. 30, 1948	3.67	431	1952	Dec. 21, 1951	3.70	431
	Jan. 6, 1949	3.62	407		Mar. 11, 1952	4.05	505
1950	Mar. 23, 1950	3.09	290		Apr. 28, 1952	3.61	407
1951	Nov. 25, 1950	6.21	1,180	1953	Nov. 22, 1952	3.36	359
	Dec. 4, 1950	3.56	407		Dec. 11, 1952	5.01	795
					Jan. 24, 1953	4.54	645

4540. South Branch Saucon Creek at Friedensville, Pa.

Location. --Lat 40°32'55", long 75°23'20", on right bank 275 ft upstream from concrete highway bridge on Spring Valley Road, 2,000 ft upstream from confluence with Saucon Creek and 0.8 mile southeast of Friedensville, Lehigh County.

Drainage area. --10.6 sq mi.

Gage. --Nonrecording gage and crest-stage indicator. Datum of gage is 361.75 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 430 cfs and extended by logarithmic plotting.

Remarks. --Base for partial-duration series, 440 cfs.

South Branch Saucon Creek at Friedensville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 13, 1948	2.95	682	1951	Jan. 15, 1951	2.34	440
	June 20, 1948	2.35	440	Cont.	Feb. 7, 1951	2.86	642
1949	Dec. 30, 1948	2.40	457		Apr. 12, 1951	2.43	457
	Jan. 5, 1949	2.55	528	1952	Mar. 11, 1952	2.84	603
1950	Mar. 23, 1950	2.22	390		Apr. 28, 1952	2.42	457
1951	Nov. 25, 1950	3.60	943	1953	Nov. 22, 1952	2.47	492
	Dec. 4, 1950	2.83	603		Dec. 11, 1952	2.97	682
					Jan. 24, 1953	2.35	440

4545. Saucon Creek at Friedensville, Pa.

Location. --Lat 40°33'20", long 75°23'05", on downstream side of single span steel-girder bridge on private road of Saucon Valley Country Club, 0.3 mile downstream from South Branch Saucon Creek and 0.5 mile southeast of Friedensville, Lehigh County.

Drainage area. --26.6 sq mi.

Gage. --Nonrecording gage and crest-stage indicator. Datum of gage is 339.92 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 810 cfs by logarithmic plotting.

Remarks. --Base for partial-duration series, 730 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	May 13, 1948	11.87	1,040	1951	Nov. 25, 1950	12.49	1,330
	June 20, 1948	11.50	855		Dec. 4, 1950	12.03	1,080
1949	Dec. 30, 1948	11.40	810		Feb. 7, 1951	11.69	945
	Jan. 6, 1949	11.48	855	1952	Mar. 11, 1952	11.55	900
1950	Mar. 23, 1950	10.66	540		Apr. 28, 1952	11.35	810
				1953	Dec. 11, 1952	12.08	1,130
					Jan. 24, 1953	11.60	900

4575. Delaware River at Riegelsville, N. J.

Location. --Lat 40°35'36", long 75°11'17", on left bank 20 ft upstream from suspension bridge at Riegelsville, Warren County, and 600 ft upstream from Musconetcong River. Records include flow of Musconetcong River.

Drainage area. --6,328 sq mi (includes that of Musconetcong River).

Gage. --Nonrecording gage prior to Feb. 27, 1924; recording gage thereafter. Prior to Feb. 27, 1924; at bridge 20 ft downstream. Datum of gage is 125.12 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 160,000 cfs and extended on basis of flood-routing study and slope-area measurement.

Bankfull stage. --25 ft.

Remarks. --Base for partial-duration series, 48,000 cfs. Only annual peaks are shown prior to Oct. 1, 1924.

Delaware River at Riegelsville, N. J.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Oct. 10, 1903	35.9	275,000
1907	Jan. 1, 1907	14.4	61,000
1908	Dec. 11, 1907	22.5	120,000
1909	Feb. 21, 1909	19.9	102,000
1910	Mar. 1, 1910	20.8	109,000
1911	Mar. 28, 1911	16.0	72,600
1912	Mar. 17, 1912	18.2	89,000
1913	Mar. 28, 1913	25.2	144,000
1914	Mar. 29, 1914	23.9	130,000
1915	Feb. 26, 1915	18.0	86,100
1916	Apr. 3, 1916	19.6	97,700
1917	Mar. 28, 1917	18.2	88,400
1918	Oct. 31, 1917	18.6	90,700
1919	Mar. 11, 1919	11.2	38,700
1920	Mar. 14, 1920	—	[a]120,000
1921	Mar. 10, 1921	21.0	111,000
1922	Nov. 29, 1921	20.4	106,000
1923	Mar. 24, 1923	17.8	86,100
1924	Apr. 8, 1924	23.1	122,000
1925	Oct. 1, 1924	24.2	132,000
	Feb. 12, 1925	23.82	128,000
1926	Apr. 10, 1926	13.05	47,100
1927	Nov. 17, 1926	22.6	118,000
	Jan. 23, 1927	13.4	49,200
	Mar. 15, 1927	16.12	67,400
	Mar. 22, 1927	13.3	48,600
1928	Oct. 20, 1927	21.3	107,000
	Nov. 5, 1927	15.7	64,500
	Nov. 19, 1927	17.6	78,000
	Dec. 9, 1927	18.66	86,200
	Dec. 15, 1927	13.6	50,500
	June 7, 1928	13.28	48,600
	July 1, 1928	18.84	87,000
1929	Mar. 16, 1929	18.30	83,100
	Apr. 22, 1929	15.52	63,100
1930	Mar. 9, 1930	12.4	43,300
1931	Mar. 30, 1931	14.4	57,000
1932	Apr. 2, 1932	15.76	66,600
1933	Oct. 8, 1932	16.4	70,800
	Nov. 21, 1932	14.38	57,000
	Apr. 19, 1933	15.5	64,500
	Aug. 25, 1933	25.0	141,000
	Sept. 4, 1933	13.58	51,900
	Sept. 17, 1933	15.69	65,900
1934	Mar. 6, 1934	18.20	84,100
1935	Dec. 2, 1934	18.7	87,900
	Jan. 10, 1935	14.2	55,700
	July 10, 1935	23.2	125,000
1936	Nov. 1, 1935	13.28	50,000
	Nov. 15, 1935	13.02	48,200
	Nov. 30, 1935	13.60	51,900
	Mar. 12, 1936	29.8	185,000
	Mar. 19, 1936	32.45	237,000
	Apr. 7, 1936	13.93	53,800
1937	Jan. 26, 1937	13.70	53,600
	Feb. 23, 1937	16.50	72,500
	Apr. 7, 1937	13.70	53,600
1938	Oct. 25, 1937	14.56	56,200
	Jan. 26, 1938	17.7	81,200
	July 23, 1938	15.52	65,600
	Aug. 12, 1938	15.55	66,200
	Sept. 23, 1938	23.0	123,000
1939	Dec. 7, 1938	20.05	98,800
	Feb. 17, 1939	14.00	55,600
	Feb. 21, 1939	14.62	59,500
1940	Mar. 15, 1940	16.33	71,100
	Apr. 1, 1940	26.47	154,000
	Apr. 10, 1940	21.26	109,000
	Apr. 22, 1940	17.58	80,500
1941	Dec. 31, 1940	13.80	54,300
	Apr. 7, 1941	13.92	55,000
1942	Mar. 10, 1942	16.30	71,100
	May 24, 1942	27.50	164,000
	Sept. 28, 1942	19.67	96,200
1943	Nov. 26, 1942	13.60	53,000
	Dec. 31, 1942	22.88	122,800
	Feb. 26, 1943	13.95	55,200
	Mar. 18, 1943	15.25	63,800
1944	Nov. 10, 1943	17.58	80,300
	Mar. 18, 1944	13.05	49,600
	Apr. 26, 1944	13.45	52,100
1945	Mar. 4, 1945	15.29	64,100
	Mar. 19, 1945	16.43	72,000
	July 20, 1945	18.10	84,200
	July 30, 1945	14.33	57,700
1946	Mar. 10, 1946	15.04	59,400
	May 29, 1946	18.25	81,600
	June 3, 1946	13.55	50,200
1947	Mar. 15, 1947	15.45	62,100
	Apr. 6, 1947	20.05	95,100
	May 26, 1947	14.07	53,300
1948	Mar. 18, 1948	17.17	73,800
	Mar. 23, 1948	23.28	121,300
	Apr. 15, 1948	16.05	66,100
1949	Dec. 31, 1948	24.50	131,900
	Jan. 7, 1949	19.73	92,600
1950	Mar. 30, 1950	17.71	77,700
	Apr. 6, 1950	18.04	80,100
1951	Nov. 27, 1950	22.50	114,700
	Dec. 5, 1950	21.93	110,000
	Dec. 9, 1950	15.52	62,500
	Jan. 25, 1951	13.66	50,900

Delaware River at Riegelsville, N. J.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951 Cont.	Feb. 8, 1951	13.58	50,400	1954	Dec. 8, 1953	12.80	46,800
	Feb. 23, 1951	13.28	48,600				
	Apr. 1, 1951	24.03	127,000	1955	Aug. 19, 1955	38.85	340,000
1952	Nov. 8, 1951	16.53	69,400	1956	Oct. 16, 1955	23.80	133,000
	Jan. 28, 1952	15.27	60,900		Oct. 31, 1955	13.85	53,200
	Mar. 12, 1952	17.19	73,900		Apr. 8, 1956	14.18	55,400
	Apr. 6, 1952	18.07	80,300		May 1, 1956	13.17	49,400
	Apr. 16, 1952	17.10	73,300				
	May 26, 1952	14.31	54,800	1957	Apr. 7, 1957	17.42	76,900
	July 11, 1952	20.40	97,800				
				1958	Dec. 22, 1957	21.28	109,000
1953	Nov. 23, 1952	17.18	73,900		Dec. 28, 1957	13.27	49,600
	Dec. 12, 1952	25.40	140,000		Apr. 7, 1958	19.29	91,600
	Jan. 25, 1953	19.70	92,400				
	Mar. 27, 1953	13.33	48,900				

[a]Estimated.

DELAWARE RIVER BASIN

4595. Tohickon Creek near Pipersville, Pa.

Location. --Lat 40°26'00", long 75°07'00", on right bank at highway bridge, 1.5 miles northeast of Pipersville, Bucks County, and 4.5 miles upstream from mouth.

Drainage area. --97.4 sq mi.

Gage. --Recording gage. Datum of gage is 258.96 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 3,600 cfs and extended on basis of slope-area measurement.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 3,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Oct. 31, 1935	7.43	6,210	1940 Cont.	Apr. 20, 1940	5.96	3,740
	Nov. 17, 1935	6.04	3,890		May 20, 1940	7.48	6,400
	Jan. 3, 1936	7.20	5,830				
	Mar. 11, 1936	7.22	5,830	1941	Nov. 15, 1940	5.51	3,080
	Mar. 18, 1936	6.59	4,780		Dec. 16, 1940	5.65	3,290
	Apr. 6, 1936	6.69	4,950		Dec. 28, 1940	5.42	2,940
	June 13, 1936	7.60	6,600		Feb. 7, 1941	5.50	3,080
1937	Dec. 20, 1936	6.00	3,820	1942	July 27, 1942	6.25	4,210
	Feb. 22, 1937	5.65	3,290		July 31, 1942	6.29	4,290
					Aug. 9, 1942	10.48	13,700
1938	Nov. 13, 1937	6.70	4,950		Aug. 13, 1942	6.60	4,780
	July 23, 1938	6.87	5,290				
	Sept. 21, 1938	9.11	10,000	1943	Dec. 30, 1942	7.06	5,650
					May 20, 1943	7.34	6,020
1939	Dec. 6, 1938	7.12	5,650		May 26, 1943	6.73	4,950
	Jan. 31, 1939	6.90	5,290				
	Feb. 3, 1939	6.75	5,120	1944	Nov. 9, 1943	5.92	3,660
	Feb. 28, 1939	6.45	4,530		Jan. 4, 1944	6.84	5,120
	Apr. 6, 1939	6.39	4,450		Mar. 13, 1944	6.41	4,450
	July 30, 1939	7.60	6,600		Apr. 24, 1944	7.49	6,400
					Sept. 14, 1944	5.65	3,290
1940	Mar. 4, 1940	6.78	5,120				
	Mar. 15, 1940	7.64	6,600				
	Apr. 8, 1940	6.75	5,120				

Tohickon Creek near Pipersville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Jan. 1, 1945	7.44	6,210	1952 Cont.	Apr. 15, 1952	6.97	5,470
	Feb. 27, 1945	6.10	3,970		Apr. 28, 1952	6.63	4,780
	July 19, 1945	9.52	11,000		May 26, 1952	5.67	3,290
					Sept. 1, 1952	5.70	3,360
1946	Nov. 29, 1945	5.50	3,080				
	May 18, 1946	6.15	4,050	1953	Nov. 22, 1952	7.45	6,210
	June 2, 1946	9.55	11,200		Dec. 5, 1952	5.57	3,150
	July 23, 1946	9.35	10,800		Dec. 11, 1952	7.19	5,830
					Jan. 24, 1953	6.98	5,470
1947	Mar. 14, 1947	5.27	2,740		Mar. 15, 1953	6.18	4,130
1948	May 13, 1948	6.87	5,290	1954	Dec. 7, 1953	5.65	3,290
	June 20, 1948	7.47	6,400		Dec. 14, 1953	6.05	3,890
1949	Dec. 30, 1948	7.43	6,210	1955	Nov. 21, 1954	5.91	3,660
	Jan. 6, 1949	6.54	4,610		Feb. 7, 1955	6.31	4,290
					Mar. 22, 1955	5.68	3,360
1950	Dec. 27, 1949	5.82	3,510		Aug. 13, 1955	8.61	8,780
	Mar. 23, 1950	5.84	3,580		Aug. 18, 1955	11.26	16,000
1951	Nov. 25, 1950	9.67	11,500	1956	Oct. 15, 1955	8.90	9,500
	Dec. 8, 1950	5.92	3,660		Feb. 18, 1956	5.72	3,360
	Jan. 15, 1951	6.30	4,290		Mar. 14, 1956	5.93	3,740
	Feb. 7, 1951	5.65	3,290				
	Mar. 30, 1951	6.19	4,130	1957	Dec. 14, 1956	6.16	4,050
					Apr. 5, 1957	6.57	4,780
1952	Nov. 7, 1951	7.28	6,020				
	Dec. 21, 1951	7.74	6,800	1958	Dec. 21, 1957	7.93	7,210
	Mar. 11, 1952	6.71	4,950		Feb. 28, 1958	8.22	7,850
	Apr. 5, 1952	7.12	5,650		Apr. 6, 1958	7.28	6,030

4600. Tohickon Creek at Point Pleasant, Pa.

Location. --Lat 40°25'25", long 75°04'00", at Point Pleasant, Bucks County, about one-eighth of a mile upstream from mouth.

Drainage area. --107 sq mi.
Gage. --Recording gage. Altitude of gage is 70 ft (from topographic map).
Stage-discharge relation. --Defined by current-meter measurements.
Remarks. --Only annual maximum daily discharges are shown except as noted. Gage heights unknown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	June 26, 1884	—	4,380	1898	Feb. 20, 1898	—	4,160
1885	Apr. 5, 1885	—	3,660	1899	Nov. 19, 1898	—	3,450
1886	Feb. 13, 1886	—	5,400	1901	Apr. 25, 1901	—	3,390
1887	Jan. 24, 1887	—	2,540	1902	Mar. 1, 1902	—	5,960
1888	Sept. 18, 1888	—	5,550	1903	Dec. 22, 1902	—	4,260
1889	July 31, 1889	—	4,710	1904	Oct. 9, 1903	—	4,970
1890	Feb. 8, 1890	—	[a]4,230	1905	Jan. 7, 1905	—	4,170
1891	Aug. 24, 1891	—	[a]11,300	1906	Apr. 10, 1906	—	3,200
1892	Jan. 14, 1892	—	3,160	1907	Sept. 29, 1907	—	4,120
1893	May 4, 1893	—	2,990	1908	Feb. 15, 1908	—	2,770
1894	May 21, 1894	—	[a]11,500	1909	Feb. 24, 1909	—	3,050
1895	Apr. 9, 1895	—	3,860	1910	Apr. 25, 1910	—	3,550
1896	Feb. 6, 1896	—	6,520	1911	Aug. 31, 1911	—	2,520
1897	May 13, 1897	—	3,680	1912	Mar. 15, 1912	—	3,800
				1913	Dec. 31, 1912	—	2,760

[a]Momentary maximum discharge.

4635. Delaware River at Trenton, N. J.

Location. --Lat 40°13'18", long 74°46'38", on left bank 450 ft upstream from Calhoun Street Bridge at Trenton, Mercer County, and half a mile upstream from Assunpink Creek.

Drainage area. --6,780 sq mi.

Gage. --Nonrecording gage prior to Oct. 2, 1928; recording gage thereafter. Prior to Oct. 2, 1928, on downstream side of highway bridge 500 ft downstream. Datum of gage is 7.77 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 230,000 cfs and extended by logarithmic plotting.

Bankfull stage. --12 ft.

Remarks. --Base for partial-duration series, 50,000 cfs. Only annual peaks are shown prior to Oct. 1, 1928.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Oct. 11, 1903	20.7	2,000
	Mar. 8, 1904	[a]22.8	—
1913	Mar. 28, 1913	13.3	160,000
1914	Mar. 29, 1914	12.4	143,000
1915	Feb. 26, 1915	—	[b]85,000
1916	Apr. 3, 1916	9.5	93,800
1917	Mar. 29, 1917	9.2	90,600
1918	Oct. 31, 1917	9.1	89,100
1919	July 22, 1919	7.8	69,200
1920	Mar. 14, 1920	11.2	121,000
1921	Mar. 11, 1921	10.4	108,000
1922	Nov. 30, 1921	10.2	105,000
1923	Mar. 24, 1923	8.2	74,800
1924	Apr. 8, 1924	11.8	132,000
1925	Feb. 13, 1925	13.0	154,000
1926	Apr. 10, 1926	6.20	48,100
1927	Nov. 18, 1926	11.30	123,000
1928	Oct. 20, 1927	10.91	116,000
1929	Mar. 16, 1929	8.9	84,800
	Apr. 14, 1929	6.38	50,600
	Apr. 23, 1929	7.58	66,400
1930	Jan. 26, 1930	[a]8.08	—
	Mar. 10, 1930	6.08	47,400
1931	Mar. 30, 1931	6.6	53,200
1932	Apr. 2, 1932	7.63	66,100
1933	Oct. 8, 1932	8.00	71,400
	Nov. 21, 1932	7.05	58,400
	Feb. 13, 1933	[a]7.90	—
	Apr. 19, 1933	7.39	63,500
	Aug. 25, 1933	12.66	147,000
	Sept. 5, 1933	6.43	50,800
	Sept. 17, 1933	7.64	66,100
1934	Jan. 4, 1934	[a]11.83	—
	Mar. 5, 1934	[a]14.2	—
	Mar. 6, 1934	8.65	80,000
1935	Dec. 3, 1934	9.09	87,500
	Jan. 11, 1935	6.85	55,800
	Jan. 25, 1935	[a]7.12	—
	July 10, 1935	11.74	129,000
1936	Nov. 1, 1935	6.48	52,000
	Nov. 30, 1935	6.66	54,500
	Jan. 3, 1936	[a]16.12	—
	Jan. 20, 1936	[a]10.20	—
	Mar. 13, 1936	15.34	199,000
	Mar. 19, 1936	16.6	227,000
	Apr. 8, 1936	6.80	55,800
1937	Jan. 27, 1937	6.78	55,800
	Feb. 23, 1937	8.16	74,200
	Apr. 8, 1937	6.73	54,500
1938	Oct. 25, 1937	7.00	58,400
	Jan. 27, 1938	8.60	80,000
	July 23, 1938	8.73	81,500
	Aug. 12, 1938	7.38	63,500
	Sept. 23, 1938	11.45	125,000
1939	Dec. 7, 1938	9.86	99,500
	Jan. 30, 1939	[a]7.40	—
	Feb. 17, 1939	6.73	54,500
	Feb. 22, 1939	7.20	60,900
1940	Jan. 16, 1940	[a]8.12	—
	Mar. 15, 1940	8.25	76,500
	Apr. 1, 1940	12.85	151,600
	Apr. 10, 1940	10.25	106,700
	Apr. 22, 1940	7.50	66,400
1941	Dec. 31, 1940	6.57	54,400
	Apr. 7, 1941	6.75	56,800
1942	Mar. 10, 1942	7.66	68,500
	May 24, 1942	13.35	161,200
	Aug. 9, 1942	6.19	50,000
	Sept. 29, 1942	9.28	91,800
1943	Nov. 26, 1942	6.43	52,800
	Jan. 1, 1943	11.00	118,900
	Feb. 16, 1943	[a]6.82	—
	Feb. 20, 1943	[a]7.88	—
	Feb. 26, 1943	6.64	55,300
	Mar. 18, 1943	7.31	63,900

Delaware River at Trenton, N. J.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Nov. 10, 1943	8.47	78,000	1951 Cont.	Dec. 9, 1950	7.60	66,300
	Apr. 26, 1944	6.66	54,000		Jan. 25, 1951	6.48	51,900
					Feb. 8, 1951	6.65	54,000
1945	Jan. 12, 1945	[a]8.24	—		Feb. 23, 1951	6.40	50,900
	Jan. 17, 1945	[a]8.72	—		Apr. 1, 1951	11.95	133,200
	Mar. 5, 1945	7.18	60,600				
	Mar. 19, 1945	7.90	70,000	1952	Nov. 8, 1951	8.00	71,800
	July 21, 1945	8.75	82,200		Dec. 21, 1951	[a]9.98	—
	July 30, 1945	6.86	56,600		Jan. 28, 1952	7.66	67,100
					Mar. 13, 1952	8.32	76,300
1946	Dec. 20, 1945	[a]8.67	—		Apr. 7, 1952	8.74	82,200
	Dec. 26, 1945	[a]11.01	—		Apr. 16, 1952	8.30	76,000
	Mar. 10, 1946	7.19	61,400		Apr. 28, 1952	6.52	52,300
	May 29, 1946	8.74	82,300		May 26, 1952	7.02	58,800
	June 2, 1946	7.84	69,900		July 11, 1952	9.64	95,400
1947	Feb. 10, 1947	[a]7.90	—	1953	Nov. 23, 1952	8.52	79,100
	Mar. 16, 1947	7.37	63,700		Dec. 12, 1952	12.30	139,000
	Apr. 7, 1947	9.60	98,500		Jan. 26, 1953	9.37	91,400
	May 26, 1947	6.80	58,900				
	July 9, 1947	6.35	53,000	1954	Dec. 8, 1953	6.02	46,300
1948	Mar. 18, 1948	8.18	77,700	1955	Feb. 7, 1955	[a]7.27	—
	Mar. 23, 1948	11.29	125,600		Aug. 20, 1955	20.83	329,000
	Apr. 16, 1948	7.69	70,900				
				1956	Oct. 17, 1955	11.93	133,000
1949	Jan. 1, 1949	12.06	139,100		Nov. 1, 1955	6.62	53,600
	Jan. 7, 1949	9.49	96,800		Apr. 8, 1956	7.11	59,900
1950	Mar. 30, 1950	8.45	77,600	1957	Apr. 7, 1957	8.41	77,500
	Apr. 6, 1950	8.60	79,800				
				1958	Dec. 22, 1957	10.47	108,000
1951	Nov. 27, 1950	11.07	118,200		Feb. 28, 1958	6.74	55,100
	Dec. 6, 1950	10.77	113,300		Apr. 7, 1958	9.50	93,300

[a]Backwater from ice.
[b]Estimated.

4650. Neshaminy Creek at Rushland, Pa.

Location. --Lat 40°15'20", long 75°02'00", at highway bridge, 0.1 mile downstream from Little Neshaminy Creek, ¼ mile west of Rushland, Bucks County, and 0.4 mile upstream from Mill Creek.

Drainage area. --134 sq mi.

Gage. --Recording gage prior to 1932; nonrecording gage thereafter. Prior to 1932, at different datum. Altitude of gage is 120 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only maximum daily discharges are shown. Gage heights unknown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1885	Feb. 10, 1885	—	4,484	1896	Feb. 6, 1896	—	8,707
				1897	June 9, 1897	—	4,677
1886	Feb. 11, 1886	—	5,767	1898	Feb. 20, 1898	—	5,076
1887	June 23, 1887	—	3,159	1899	Feb. 27, 1899	—	3,950
1888	Jan. 1, 1888	—	4,890	1900	May 19, 1900	—	3,990
1889	July 31, 1889	—	5,531				
1890	Oct. 27, 1889	—	3,750	1901	Mar. 11, 1901	—	4,624
				1902	Feb. 26, 1902	—	6,060
1891	Aug. 24, 1891	—	3,280	1903	Feb. 26, 1903	—	4,984
1892	Jan. 13, 1892	—	3,584	1904	Oct. 9, 1903	—	6,985
1893	May 4, 1893	—	3,154	1905	Jan. 7, 1905	—	4,064
1894	May 21, 1894	—	9,010				
1895	Apr. 9, 1895	—	3,234				

Neshaminy Creek at Rushland, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1906	Mar. 4, 1906	—	3,050	1932	Mar. 28, 1932	—	5,960
1907	Sept. 29, 1907	—	4,630				
1908	Dec. 23, 1907	—	3,060	1933	Aug. 23, 1933	17.8	—
1909	Feb. 24, 1909	—	3,760		Aug. 24, 1933	—	8,100
1910	Mar. 1, 1910	—	3,539				
				1934	Sept. 8, 1934	—	10,500
1911	Aug. 31, 1911	—	5,330				
1912	Mar. 13, 1912	—	4,073				
1913	Oct. 24, 1912	—	3,630				

4655. Neshaminy Creek near Langhorne, Pa.

Location. --Lat 40°10'25", long 75°57'30", on left bank at bridge on State Highway 213, 0.3 mile downstream from Mill Creek and 1.7 miles west of Langhorne, Bucks County.

Drainage area. --210 sq mi.

Gage. --Recording gage. Datum of gage is 40.57 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 4,700 cfs and extended on basis of contracted-opening and slope-area measurement.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 3,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Aug. 23, 1933	17.3	30,000	1939 Cont.	Feb. 28, 1939	8.83	6,870
					Apr. 7, 1939	10.41	9,990
1935	Feb. 15, 1935	[a]11.80	—		Apr. 19, 1939	7.97	5,550
	Sept. 6, 1935	6.80	3,640				
				1940	Jan. 15, 1940	6.62	3,640
1936	Nov. 17, 1935	8.98	7,230		Jan. 15, 1940	[a]8.05	—
	Jan. 3, 1936	12.53	14,800		Feb. 20, 1940	[a]11.12	—
	Jan. 9, 1936	10.88	11,100		Mar. 4, 1940	11.12	11,600
	Feb. 27, 1936	[a]7.59	—		Mar. 15, 1940	11.45	12,200
	Mar. 12, 1936	11.00	11,300		Apr. 9, 1940	10.72	10,600
	Mar. 18, 1936	10.24	9,570		Apr. 20, 1940	9.58	8,350
	Apr. 6, 1936	8.14	5,710				
				1941	Nov. 15, 1940	7.22	4,390
1937	Dec. 17, 1936	7.43	4,670		Dec. 17, 1940	6.56	3,640
	Dec. 20, 1936	9.09	7,410		Feb. 8, 1941	8.81	6,870
	Feb. 22, 1937	8.73	6,700		Apr. 6, 1941	6.96	4,130
	Apr. 27, 1937	8.14	5,710		July 13, 1941	8.42	6,190
					July 30, 1941	9.52	8,160
1938	Nov. 13, 1937	10.26	9,780				
	Jan. 25, 1938	7.76	5,250	1942	July 28, 1942	7.81	5,250
	June 8, 1938	6.90	4,000		Aug. 9, 1942	9.49	8,160
	July 20, 1938	7.59	4,950				
	July 22, 1938	9.73	8,550	1943	Dec. 28, 1942	7.52	4,810
	July 23, 1938	15.94	24,800		Dec. 30, 1942	9.27	7,780
	Sept. 20, 1938	8.67	6,700		Feb. 11, 1943	8.20	5,870
	Sept. 21, 1938	13.34	17,100		Mar. 7, 1943	7.59	4,950
					May 26, 1943	7.29	4,530
1939	Dec. 4, 1938	7.54	4,810		June 18, 1943	8.03	5,550
	Dec. 6, 1938	10.14	9,360				
	Jan. 30, 1939	9.98	9,150	1944	Nov. 9, 1943	8.43	6,190
	Feb. 4, 1939	11.25	11,800		Dec. 27, 1943	[a]7.24	—
	Feb. 16, 1939	6.75	3,880		Jan. 4, 1944	9.88	8,950

Neshaminy Creek near Langhorne, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944 Cont.	Jan. 6, 1944	9.88	8,950	1952	Nov. 7, 1951	8.50	6,860
	Mar. 7, 1944	7.41	4,670		Dec. 21, 1951	11.73	13,000
	Mar. 13, 1944	10.12	9,360		Jan. 26, 1952	6.23	3,870
	Mar. 24, 1944	7.08	4,260		Feb. 4, 1952	8.0	6,120
	Apr. 25, 1944	9.16	7,590		Mar. 11, 1952	10.60	10,600
	Apr. 27, 1944	6.82	3,880		Mar. 19, 1952	6.14	3,760
					Apr. 5, 1952	8.30	6,560
1945	Nov. 28, 1944	9.00	7,230		Apr. 28, 1952	10.76	11,000
	Dec. 12, 1944	8.50	6,360		May 25, 1952	7.78	5,840
	Jan. 2, 1945	10.2	9,570		June 1, 1952	8.36	6,710
	Feb. 22, 1945	8.00	5,550		Sept. 1, 1952	6.27	3,980
	Feb. 27, 1945	7.85	5,250				
	July 19, 1945	10.28	9,780	1953	Nov. 22, 1952	9.59	8,690
	July 23, 1945	8.84	6,870		Dec. 6, 1952	7.00	4,790
	Sept. 19, 1945	8.54	6,360		Dec. 11, 1952	8.87	7,490
					Jan. 9, 1953	6.51	4,200
1946	Nov. 22, 1945	6.95	4,130		Jan. 24, 1953	9.27	8,160
	Nov. 29, 1945	9.37	7,970		Mar. 4, 1953	6.33	3,980
	Dec. 26, 1945	8.04	5,550		Mar. 13, 1953	6.97	4,790
	Mar. 27, 1946	6.94	4,000		Mar. 16, 1953	8.71	7,170
	June 2, 1946	14.54	20,500		Apr. 7, 1953	8.08	6,260
	July 22, 1946	7.96	5,550				
	July 24, 1946	10.48	10,200	1954	Dec. 14, 1953	8.38	6,710
1947	May 22, 1947	6.25	3,210	1955	Nov. 21, 1954	8.3	6,560
					Feb. 7, 1955	7.02	4,790
1948	Nov. 8, 1947	8.28	6,030		Mar. 22, 1955	7.72	5,700
	Nov. 12, 1947	8.16	6,410		Aug. 13, 1955	13.55	17,300
	Feb. 18, 1948	6.62	4,310		Aug. 19, 1955	22.84	49,300
	Feb. 29, 1948	6.30	3,980				
	Apr. 1, 1948	6.47	4,200	1956	Oct. 15, 1955	9.96	9,430
	May 5, 1948	6.12	3,760		Feb. 3, 1956	8.17	6,410
	May 13, 1948	—	[b] —		Feb. 6, 1956	7.35	5,300
					Feb. 18, 1956	7.37	5,300
1949	Dec. 30, 1948	11.77	13,200		Mar. 8, 1956	5.95	3,650
	Jan. 6, 1949	8.86	7,490		Mar. 14, 1956	8.99	7,650
	Jan. 22, 1949	6.30	3,980		May 7, 1956	6.83	4,550
	Jan. 28, 1949	6.99	4,790				
	Mar. 23, 1949	6.10	3,760	1957	Nov. 2, 1956	8.48	6,860
	July 13, 1949	6.02	3,650		Dec. 15, 1956	6.58	4,310
					Apr. 6, 1957	7.76	5,840
1950	Dec. 27, 1949	8.08	6,260				
	Mar. 23, 1950	8.63	7,010	1958	Dec. 21, 1957	9.05	7,650
	Aug. 3, 1950	10.03	9,430		Dec. 26, 1957	7.48	5,430
					Jan. 15, 1958	6.66	4,430
1951	Nov. 26, 1950	14.92	21,700		Jan. 22, 1958	7.32	5,170
	Dec. 4, 1950	6.18	3,870		Jan. 25, 1958	7.35	5,300
	Dec. 8, 1950	8.12	6,260		Feb. 28, 1958	11.13	11,700
	Jan. 15, 1951	7.22	5,040		Mar. 26, 1958	6.98	4,790
	Feb. 7, 1951	7.64	5,560		Apr. 7, 1958	9.09	7,820
	Feb. 21, 1951	7.28	5,170		Apr. 30, 1958	6.61	4,310
	Mar. 31, 1951	7.81	5,840				

[a]Backwater from ice.
[b]Annual maximum; discharge not determined.

4675. Schuylkill River at Pottsville, Pa.

Location. --Lat 40°41'00", long 76°11'10", on upstream side of Palo Alto Highway bridge at Pottsville, Schuylkill County, and 1.3 miles downstream from Mill Creek.

Drainage area. --53.4 sq mi.

Gage. --Nonrecording gage. Datum of gage is 599.24 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,000 cfs and extended.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 450 cfs prior to 1951 and 600 cfs thereafter.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944	Nov. 8, 1943	6.8	3,320	1951 Cont.	Feb. 7, 1951	5.1	1,490
	Sept. 14, 1944	4.3	905		July 28, 1951	4.6	1,100
1945	May 17, 1945	3.6	501		Aug. 12, 1951	4.0	740
	July 19, 1945	7.5	4,240	1952	Nov. 3, 1951	4.1	790
	July 29, 1945	4.1	785		Nov. 7, 1951	4.1	790
1946	Jan. 7, 1946	3.5	452		Dec. 5, 1951	5.0	1,400
	May 21, 1946	3.85	638		Mar. 11, 1952	6.0	2,390
	May 27, 1946	5.6	1,970		Apr. 14, 1952	3.8	640
	July 23, 1946	3.9	667		Apr. 28, 1952	4.4	970
1947	Mar. 14, 1947	3.7	554		May 25, 1952	4.1	790
	May 22, 1947	4.5	1,030		Sept. 1, 1952	5.5	1,870
	June 8, 1947	4.0	740	1953	Nov. 21, 1952	7.4	4,100
	July 8, 1947	7.1	3,710		Dec. 5, 1952	4.0	740
	July 15, 1947	7.0	3,580		Dec. 11, 1952	5.9	2,280
	July 21, 1947	5.1	1,490		Jan. 24, 1953	4.9	1,320
1948	Mar. 19, 1948	3.45	490		May 23, 1953	3.8	640
	Apr. 1, 1948	3.6	550		May 26, 1953	4.0	740
	May 7, 1948	3.35	450	1954	Dec. 6, 1953	4.2	850
	May 13, 1948	3.55	530		Mar. 1, 1954	4.36	970
1949	Dec. 30, 1948	4.4	970	1955	Aug. 18, 1955	6.33	2,760
	Jan. 5, 1949	4.3	910	1956	Oct. 15, 1955	4.06	770
1950	Mar. 27, 1950	3.9	690		Sept. 6, 1956	4.58	1,070
	July 11, 1950	4.5	1,030	1957	Apr. 6, 1957	4.80	1,220
1951	Nov. 25, 1950	7.9	4,800	1958	Dec. 21, 1957	5.13	1,510
	Dec. 4, 1950	7.0	3,580		Dec. 26, 1957	4.93	1,350
	Dec. 8, 1950	4.8	1,240		Apr. 6, 1958	3.90	750
	Jan. 24, 1951	4.3	910				

4685. Schuylkill River at Landingville, Pa.

Location. --Lat 40°37'45", long 76°07'30", on left bank at two-span bridge at Landingville, Schuylkill County, 0.1 mile upstream from Mahannon Creek, 5 miles downstream from West Branch of Schuylkill River.

Drainage area. --133 sq mi.

Gage. --Recording gage. Datum of gage is 470.64 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurement.

Remarks. --Base for partial-duration series, 1,300 cfs.

Schuylkill River at Landingville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Nov. 8, 1947	6.67	1,690	1951 Cont.	Apr. 12, 1951	7.26	1,520
	Nov. 12, 1947	—	1,520		July 28, 1951	7.55	1,670
	Apr. 1, 1948	—	1,610		Aug. 12, 1951	7.27	1,370
	Apr. 14, 1948	—	1,420				
				1952	Nov. 3, 1951	8.80	2,050
1949	Dec. 30, 1948	8.07	2,630		Nov. 7, 1951	8.45	1,800
	Jan. 6, 1949	—	1,960		Dec. 5, 1951	9.98	2,950
					Mar. 11, 1952	12.93	5,380
1950	July 11, 1950	6.75	1,690		Apr. 28, 1952	9.16	2,410
					May 12, 1952	8.06	1,680
1951	Nov. 25, 1950	13.29	8,570		May 25, 1952	8.42	1,860
	Dec. 4, 1950	12.65	7,460		July 9, 1952	8.09	1,680
	Dec. 8, 1950	8.38	2,990		Aug. 17, 1952	7.48	1,330
	Jan. 24, 1951	8.02	2,190		Sept. 1, 1952	12.06	3,930
	Feb. 7, 1951	9.95	3,800				

4695. Little Schuylkill River at Tamaqua, Pa.

Location. --Lat 40°48'20", long 75°58'20", on left bank at pumping plant of Panther Valley Water Co., 0.6 mile upstream from Tamaqua, Schuylkill County, and 0.8 mile upstream from Panther Creek.

Drainage area. --42.9 sq mi.

Gage. --Nonrecording gage prior to June 21, 1927; recording gage thereafter. Prior to June 21, 1927, at site 3,600 ft downstream at datum 28.64 ft lower. Datum of present gage is 817.48 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 3,200 cfs and extended on basis of contracted-opening measurement.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 13, 1920	4.00	1,020	1928	Oct. 12, 1927	3.73	1,340
	Sept. 30, 1920	3.80	865		Oct. 19, 1927	3.53	1,150
					Nov. 17, 1927	3.72	1,300
1921	Mar. 3, 1921	3.85	902		Dec. 8, 1927	4.20	1,770
					Jan. 25, 1928	3.35	1,000
1922	Mar. 7, 1922	6.0	3,000		Feb. 14, 1928	5.11	2,740
					Feb. 23, 1928	3.47	1,100
1923	Mar. 16, 1923	3.32	520		Apr. 29, 1928	3.03	744
					June 29, 1928	4.90	2,510
1924	Dec. 6, 1923	3.6	720		July 5, 1928	3.66	1,260
	Jan. 11, 1924	4.8	1,780		July 14, 1928	3.00	720
	Jan. 16, 1924	3.8	865				
	Apr. 6, 1924	4.0	1,020	1929	Mar. 5, 1929	3.85	1,320
	Sept. 30, 1924	7.5	5,000		Aug. 14, 1929	3.10	800
1925	Feb. 11, 1925	5.6	2,620	1930	Oct. 2, 1929	3.78	1,390
					Apr. 7, 1930	3.04	752
1926	Nov. 13, 1925	4.3	1,290				
	Nov. 16, 1925	4.1	1,110	1931	May 13, 1931	3.64	505
	Feb. 26, 1926	4.0	1,020				
	Mar. 7, 1926	4.0	1,020	1932	Mar. 31, 1932	4.54	1,000
1927	Nov. 16, 1926	5.68	2,740	1933	Nov. 1, 1932	4.48	1,040
	Jan. 21, 1927	3.9	935		Nov. 19, 1932	4.18	830
	July 23, 1927	3.82	1,390		Apr. 17, 1933	4.89	1,320

Little Schuylkill River at Tamaqua, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1933 Cont.	Aug. 24, 1933	7.50	3,740
	Sept. 4, 1933	7.10	3,320
1934	Mar. 31, 1934	5.05	1,480
1935	Dec. 1, 1934	5.70	1,980
	July 9, 1935	7.35	3,630
1936	Mar. 12, 1936	5.59	1,890
	Mar. 18, 1936	5.65	1,940
	Apr. 6, 1936	4.15	810
1937	Dec. 20, 1936	4.31	868
	Feb. 22, 1937	4.58	1,060
1938	Oct. 23, 1937	5.94	2,220
	Jan. 25, 1938	4.46	1,000
	June 27, 1938	5.14	1,540
1939	Dec. 6, 1938	4.56	1,070
	Jan. 5, 1939	4.16	782
1940	Mar. 15, 1940	5.05	1,460
	Mar. 30, 1940	6.32	2,540
	Aug. 31, 1940	4.90	1,340
1941	Apr. 6, 1941	3.11	248
1942	May 17, 1942	4.45	982
	May 22, 1942	7.95	4,310
	Sept. 27, 1942	5.27	1,620
1943	Dec. 30, 1942	5.31	1,660
	May 19, 1943	5.39	1,750
1944	Oct. 26, 1943	4.27	852
	Nov. 9, 1943	6.31	2,540
	Mar. 13, 1944	4.38	930
1945	July 19, 1945	5.57	1,880
	Sept. 18, 1945	4.02	698
1946	May 21, 1946	4.27	852
	May 28, 1946	5.46	1,790
	June 2, 1946	4.15	772
1947	Mar. 14, 1947	4.30	872
	May 22, 1947	4.36	915
	July 8, 1947	7.18	3,420
	July 15, 1947	5.53	1,880
	July 17, 1947	4.68	1,180
	July 21, 1947	4.53	1,060
1948	Nov. 12, 1947	4.11	746
	Apr. 1, 1948	4.38	930
	Apr. 14, 1948	4.07	722
1949	Dec. 30, 1948	4.84	1,300
	Jan. 5, 1949	4.13	759
1950	Mar. 21, 1950	4.19	734
1951	Nov. 25, 1950	6.75	3,020
	Dec. 4, 1950	6.50	2,720
	Dec. 8, 1950	4.58	1,040
	Jan. 24, 1951	4.70	1,190
	Feb. 7, 1951	5.68	2,000
	July 28, 1951	6.14	2,360
1952	Nov. 3, 1951	4.37	922
	Nov. 7, 1951	5.03	1,460
	Dec. 5, 1951	5.29	1,660
	Mar. 11, 1952	5.47	1,790
	Apr. 14, 1952	4.06	716
	Apr. 28, 1952	4.36	915
	May 25, 1952	4.42	959
	July 22, 1952	4.72	1,180
	Aug. 17, 1952	4.29	865
	Sept. 1, 1952	4.80	1,260
1953	Nov. 22, 1952	6.70	2,920
	Dec. 11, 1952	5.53	1,880
	Jan. 24, 1953	5.11	1,500
	Mar. 24, 1953	4.16	778
	May 23, 1953	4.69	1,180
1954	Dec. 7, 1953	4.18	791
	Mar. 1, 1954	4.62	1,100
1955	Aug. 18, 1955	11.10	7,790
	Aug. 22, 1955	4.33	718
1956	Oct. 15, 1955	6.93	2,870
	Oct. 30, 1955	4.41	756
1957	Apr. 6, 1957	5.28	1,660
1958	Dec. 21, 1957	5.73	2,050
	Dec. 26, 1957	4.60	1,100
	Feb. 28, 1958	4.25	838
	Apr. 6, 1958	4.35	908

4705. Schuylkill River at Berne, Pa.

Location. --Lat 40°31'20", long 75°59'55", on right bank at highway bridge at Berne, Berks County, 0.5 mile upstream from Mill Creek and 6.5 miles downstream from Little Schuylkill River.

Drainage area. --355 sq mi.

Gage. --Recording gage. Datum of gage is 310.65 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 17,000 cfs and extended by logarithmic plotting.

Bankfull stage. --12 ft.

Remarks. --Base for partial-duration series, 4,400 cfs.

Schuylkill River at Berne, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	May — 1942	15.0	26,900	1952 Cont.	May 25, 1952	8.16	5,390
					July 10, 1952	8.27	5,650
1948	Nov. 4, 1947	8.38	3,530		Sept. 1, 1952	10.26	11,600
	Nov. 8, 1947	8.92	6,500				
	Nov. 12, 1947	8.58	5,820	1953	Nov. 22, 1952	12.86	19,900
	Feb. 18, 1948	[a]11.16	—		Dec. 6, 1952	8.02	5,000
	Apr. 1, 1948	8.64	5,710		Dec. 11, 1952	10.21	11,300
	Apr. 15, 1948	8.32	4,280		Jan. 24, 1953	9.41	8,870
					Mar. 24, 1953	7.78	4,500
1949	Dec. 30, 1948	10.28	10,400		May 23, 1953	8.06	5,130
	Jan. 6, 1949	8.86	7,560		May 26, 1953	8.07	5,130
1950	Mar. 23, 1950	8.38	5,430	1954	Dec. 7, 1953	9.19	8,290
					Mar. 2, 1954	8.77	7,150
1951	Nov. 26, 1950	14.52	23,300				
	Dec. 4, 1950	14.46	24,200	1955	Aug. 19, 1955	15.73	29,400
	Dec. 8, 1950	9.15	8,400				
	Jan. 24, 1951	8.46	6,100	1956	Oct. 15, 1955	9.33	8,580
	Feb. 7, 1951	10.71	12,500				
				1957	Apr. 6, 1957	9.96	10,700
1952	Nov. 3, 1951	8.04	4,950				
	Nov. 7, 1951	8.86	7,080	1958	Dec. 21, 1957	10.76	13,100
	Dec. 5, 1951	9.81	10,100		Dec. 26, 1957	8.44	6,140
	Mar. 11, 1952	12.02	17,000		Jan. 22, 1958	8.08	5,220
	Apr. 28, 1952	9.26	8,580		Feb. 28, 1958	9.51	9,170
					Apr. 6, 1958	8.30	5,740

[a]Backwater from ice.

4710. Tulpehocken Creek near Reading, Pa.

Location.--Lat 40°22'10", long 75°58'45", on right bank at covered bridge 1 mile downstream from Cacoosing Creek, 2.5 miles upstream from mouth, and 3.5 miles northwest of square at Reading, Berks County.

Drainage area.--211 sq mi.

Gage.--Recording gage. Datum of gage is 216.60 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,500 cfs and extended by logarithmic plotting.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Nov. 7, 1951	4.13	2,100	1955	Feb. 7, 1955	6.43	4,700
	Dec. 5, 1951	4.65	2,760		Mar. 22, 1955	4.45	2,420
	Feb. 4, 1952	4.13	2,160		Aug. 18, 1955	7.94	6,760
	Mar. 11, 1952	5.32	3,650				
	Apr. 28, 1952	5.12	3,360	1956	Feb. 6, 1956	4.93	2,910
	May 25, 1952	4.16	2,160		Sept. 6, 1956	7.42	6,000
	July 10, 1952	6.44	4,700				
	Sept. 1, 1952	8.65	7,680	1957	Dec. 14, 1956	4.15	2,110
					Apr. 6, 1957	5.42	3,480
1953	Nov. 22, 1952	6.67	5,090				
	Dec. 11, 1952	4.92	3,080	1958	Dec. 21, 1957	4.24	2,210
	Jan. 24, 1953	4.64	2,760		Jan. 22, 1958	5.88	4,080
	Mar. 24, 1953	4.18	2,210		Feb. 28, 1958	6.90	5,350
	May 23, 1953	5.29	3,650		Apr. 6, 1958	4.38	2,360
	May 26, 1953	5.18	3,500		Sept. 27, 1958	6.96	5,480
1954	Dec. 7, 1953	5.68	9,840				
	Mar. 1, 1954	4.10	2,100				

4715. Schuylkill River at Reading, Pa.

Location. --Lat 40°20'10", long 75°56'15", at Penn Street Bridge, Reading, Berks County, 1 mile downstream from Tulpehocken Creek, and 2.1 miles upstream from Angelica Creek.

Drainage area. --880 sq mi.

Gage. --Nonrecording gage. Datum of gage is 188.50 ft above mean sea level.

Stage-discharge relation. --Defined by current-meter measurements below 27,000 cfs and extended by logarithmic plotting.

Bankfull stage. --11 ft.

Remarks. --Base for partial-duration series, 12,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1757	July 15, 1757	15.0	37,200
1787	Oct. 6, 1786	17.3	47,200
1822	Feb. 21, 1822	10.6	23,600
1839	Jan. 25, 1839	13.9	33,300
1841	Jan. 6, 1841	15.8	40,000
1850	July 20, 1850	18.6	53,900
	Sept. 2, 1850	23.0	80,000
1862	June 5, 1862	16.0	41,200
1870	Oct. 4, 1869	21.6	71,200
	Apr. 19, 1870	10.2	22,500
1874	Oct. 19, 1873	11.7	26,500
1878	Nov. 9, 1877	7.6	15,600
1879	Dec. 11, 1878	6.6	12,900
1881	Feb. 11, 1881	10.2	22,500
1885	Aug. 3, 1885	9.2	19,800
1890	Nov. 30, 1889	7.2	14,500
1891	Aug. 24, 1891	12.2	27,900
1893	May 3, 1893	9.2	19,800
1894	May 21, 1894	16.8	44,800
1902	Dec. 15, 1901	12.0	27,300
	Dec. 30, 1901	9.0	19,300
	Jan. 22, 1902	11.2	25,100
	Feb. 28, 1902	21.5	70,600
1903	Dec. 17, 1902	9.8	21,400
	Dec. 22, 1902	12.1	27,600
1904	Oct. 10, 1903	7.0	14,000
	Jan. 22, 1904	8.8	18,800
	Feb. 23, 1904	8.8	18,800
1905	Jan. 7, 1905	10.3	22,700
	Mar. 22, 1905	5.6	10,300
1906	Feb. 22, 1906	6.2	11,900
	Mar. 4, 1906	13.3	31,300
	July 3, 1906	8.0	16,600
1907	Jan. 1, 1907	8.1	16,900
	Mar. 15, 1907	7.1	14,200
	Sept. 24, 1907	6.0	11,300
1908	Dec. 11, 1907	10.0	21,900
	Feb. 16, 1908	13.3	31,300
	Feb. 27, 1908	13.8	32,900
	May 8, 1908	8.9	19,000
	July 23, 1908	5.4	9,740
1909	Feb. 25, 1909	5.4	9,740
1910	Jan. 22, 1910	12.1	27,600
	Feb. 22, 1910	6.8	13,400
	Mar. 1, 1910	6.2	11,900
	Apr. 25, 1910	5.7	10,500
1911	Sept. 1, 1911	5.6	10,300
1912	Oct. 2, 1911	6.9	13,700
	Feb. 22, 1912	6.6	12,900
	Mar. 13, 1912	11.2	25,100
	Mar. 16, 1912	8.1	16,900
1913	Mar. 14, 1913	6.9	13,700
	Mar. 27, 1913	12.2	27,900
	Apr. 28, 1913	7.9	16,400
1914	Jan. 31, 1914	5.7	10,500
1915	Jan. 13, 1915	12.3	26,700
	Feb. 2, 1915	9.1	18,600
	Feb. 25, 1915	7.0	13,400
1916	July 26, 1916	10.0	20,800
1917	Mar. 12, 1917	6.6	12,400
1918	Feb. 20, 1918	12.3	26,700
	Feb. 26, 1918	12.0	25,800
1919	Mar. 10, 1919	7.9	15,100
1920	Mar. 6, 1920	[a]18.2	—
	Mar. 13, 1920	11.6	25,000
	Mar. 17, 1920	7.7	14,600
1921	May 5, 1921	6.6	11,900
1922	Dec. 3, 1921	6.8	12,400
	Mar. 8, 1922	9.13	18,200
1923	Mar. 4, 1923	5.8	10,000
1924	Jan. 17, 1924	9.0	18,000
	Apr. 7, 1924	9.4	19,000

Schuylkill River at Reading, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Oct. 1, 1924	16.5	38,300	1928	Nov. 18, 1927	7.8	12,400
	Feb. 12, 1925	14.8	31,300		Dec. 8, 1927	8.5	14,100
					Feb. 15, 1928	8.8	14,900
1926	Jan. 19, 1926	9.6	17,000		June 30, 1928	9.8	17,600
	Feb. 19, 1926	7.8	12,400				
	Feb. 25, 1926	10.7	19,900	1929	Feb. 26, 1929	10.9	20,400
					Mar. 6, 1929	11.0	20,700
1927	Nov. 17, 1926	10.0	18,100				
				1930	Oct. 2, 1929	9.0	15,400

[a]Backwater from ice.

4720. Schuylkill River at Pottstown, Pa.

Location. --Lat 40°14'30", long 75°39'05", on right bank at Hanover Street Bridge in Pottstown, Montgomery County, 0.3 mile downstream from Manatawny Creek.

Drainage area. --1,147 sq mi.

Gage. --Nonrecording gage prior to Nov. 23, 1928; recording gage thereafter. Datum of gage is 117.86 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --14 ft.

Remarks. --Base for partial-duration series, 7,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1902	Feb. 28, 1902	21.0	53,900	1933 Cont.	Apr. 18, 1933	11.23	20,400
					May 30, 1933	5.99	7,740
1928	Oct. 20, 1927	7.9	12,000		July 3, 1933	6.07	7,950
	Nov. 18, 1927	8.3	12,900		July 17, 1933	6.03	7,740
	Dec. 8, 1927	9.0	14,600		Aug. 24, 1933	19.2	47,800
	Feb. 8, 1928	6.6	9,040		Sept. 5, 1933	9.07	14,900
	Feb. 15, 1928	11.3	20,700		Sept. 17, 1933	6.02	7,740
	Feb. 24, 1928	10.0	17,100				
	Apr. 29, 1928	8.2	12,700	1934	Jan. 5, 1934	[a]7.88	—
	June 30, 1928	10.6	18,600		Jan. 8, 1934	5.92	7,530
	July 6, 1928	7.8	11,800		Mar. 4, 1934	[a]11.02	—
	July 14, 1928	7.6	11,300		Mar. 5, 1934	5.91	7,530
	July 28, 1928	6.0	7,740		Apr. 1, 1934	8.93	14,400
					Sept. 17, 1934	6.59	8,960
1929	Feb. 7, 1929	5.93	7,530		Sept. 30, 1934	11.59	21,600
	Feb. 27, 1929	11.44	20,600				
	Mar. 6, 1929	11.27	20,700	1935	Dec. 2, 1934	10.70	18,900
	Apr. 17, 1929	7.07	10,200		Jan. 30, 1935	6.19	7,690
					July 10, 1935	14.89	31,000
1930	Oct. 3, 1929	9.71	16,400				
	Nov. 19, 1929	6.50	8,820	1936	Nov. 18, 1935	6.40	8,120
	Apr. 7, 1930	6.30	8,380		Jan. 3, 1936	8.80	13,800
					Jan. 10, 1936	6.22	7,690
1931	July 11, 1931	5.81	7,320		Feb. 27, 1936	[a]9.12	—
					Mar. 12, 1936	15.13	31,800
1932	Mar. 28, 1932	9.17	15,100		Mar. 18, 1936	12.54	24,000
					Apr. 6, 1936	9.70	16,200
1933	Nov. 2, 1932	8.62	13,700				
	Nov. 20, 1932	8.07	12,500	1937	Dec. 20, 1936	6.43	8,120
	Mar. 21, 1933	8.64	13,700		Jan. 25, 1937	6.19	7,690
	Apr. 12, 1933	6.76	9,480		Feb. 22, 1937	7.05	9,460

Schuylkill River at Pottstown, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Oct. 24, 1937	10.32	17,800
	Jan. 25, 1938	7.67	11,100
	June 28, 1938	6.91	9,230
	July 21, 1938	6.37	8,120
	July 22, 1938	6.27	7,920
	July 24, 1938	6.15	7,690
1939	Dec. 6, 1938	10.66	18,900
	Feb. 4, 1939	7.61	10,800
	Feb. 16, 1939	6.00	7,260
	Mar. 1, 1939	6.89	9,200
	Apr. 7, 1939	6.19	7,680
1940	Jan. 15, 1940	[a]6.75	—
	Mar. 4, 1940	9.70	16,000
	Mar. 15, 1940	13.48	27,000
	Mar. 31, 1940	10.09	17,100
	Apr. 9, 1940	9.30	15,000
	Apr. 21, 1940	7.89	11,400
	May 20, 1940	6.55	8,390
	Sept. 1, 1940	8.57	13,100
1941	Dec. 16, 1940	5.70	6,560
1942	May 17, 1942	6.75	8,720
	May 23, 1942	20.15	50,800
	Aug. 9, 1942	7.66	10,900
	Aug. 14, 1942	6.42	7,970
	Aug. 17, 1942	9.20	14,700
	Sept. 28, 1942	12.06	22,800
1943	Oct. 27, 1942	6.44	7,970
	Dec. 31, 1942	11.27	20,500
	May 20, 1943	6.41	7,940
1944	Oct. 27, 1943	6.68	8,600
	Nov. 9, 1943	12.95	25,000
	Jan. 4, 1944	6.97	9,270
	Mar. 13, 1944	7.71	10,400
	Mar. 24, 1944	6.69	8,160
	Apr. 25, 1944	7.44	9,960
	Apr. 27, 1944	6.57	8,160
1945	Feb. 27, 1945	7.81	11,100
	Mar. 7, 1945	6.16	7,520
	July 16, 1945	7.43	10,200
	July 20, 1945	9.66	16,000
	July 23, 1945	7.63	10,700
	Sept. 19, 1945	11.29	20,500
1946	Nov. 29, 1945	7.20	8,420
	May 28, 1946	11.02	18,300
	June 2, 1946	11.75	20,700
1947	Mar. 15, 1947	7.82	9,740
	May 22, 1947	8.20	10,700
	May 26, 1947	9.68	14,600
	May 30, 1947	6.76	7,580
	July 8, 1947	10.20	16,000
	July 15, 1947	7.49	9,070
	July 17, 1947	10.08	15,700
1948	Nov. 9, 1947	7.91	9,970
	Nov. 12, 1947	7.29	8,630
	Apr. 1, 1948	6.79	7,580
	Apr. 15, 1948	7.58	9,290
	May 8, 1948	7.33	8,630
	May 13, 1948	8.18	10,700
1949	Dec. 31, 1948	13.18	25,100
	Jan. 6, 1949	11.74	20,400
1950	Feb. 16, 1950	8.48	8,850
	Mar. 23, 1950	10.27	12,300
	Sept. 11, 1950	7.88	7,840
1951	Nov. 26, 1950	17.90	42,000
	Dec. 5, 1950	15.10	31,700
	Dec. 8, 1950	9.69	14,600
	Jan. 15, 1951	—	—
	Jan. 24, 1951	—	—
	Feb. 8, 1951	—	—
	Feb. 22, 1951	7.13	8,470
	Apr. 13, 1951	6.87	8,080
1952	Nov. 3, 1951	7.29	8,870
	Nov. 8, 1951	9.74	15,400
	Dec. 6, 1951	9.37	14,600
	Dec. 21, 1951	7.55	10,300
	Jan. 3, 1952	6.81	8,620
	Jan. 28, 1952	7.42	9,890
	Feb. 4, 1952	6.91	8,830
	Mar. 12, 1952	12.74	23,900
	Apr. 6, 1952	6.11	7,210
	Apr. 16, 1952	6.58	8,210
	Apr. 29, 1952	10.53	17,500
	May 26, 1952	8.50	12,400
	June 1, 1952	6.11	7,210
	July 10, 1952	9.30	14,300
	Sept. 2, 1952	11.02	18,900
1953	Nov. 22, 1952	14.12	28,300
	Dec. 6, 1952	7.38	9,890
	Dec. 11, 1952	10.31	16,900
	Jan. 25, 1953	9.63	15,100
	Feb. 21, 1953	6.24	7,410
	Mar. 26, 1953	7.37	9,890
	May 23, 1953	8.08	11,500
	May 26, 1953	9.29	14,300
	June 1, 1953	6.93	8,830
1954	Dec. 7, 1953	9.91	15,900
	Mar. 2, 1954	7.93	11,000
1955	Feb. 7, 1955	7.11	9,270
	Mar. 23, 1955	8.37	12,100
	Aug. 13, 1955	8.09	11,400
	Aug. 19, 1955	17.98	43,300
	Aug. 22, 1955	6.84	8,700
1956	Oct. 16, 1955	8.22	11,700
	Feb. 7, 1956	6.72	8,420
	Mar. 14, 1956	6.32	7,620
	Sept. 7, 1956	6.88	8,830
1957	Nov. 3, 1956	7.04	9,040
	Dec. 15, 1956	7.48	10,100
	Apr. 6, 1957	11.28	19,700
1958	Dec. 21, 1957	10.92	18,600
	Dec. 27, 1957	7.39	9,890
	Jan. 22, 1958	8.71	12,900
	Feb. 28, 1958	12.66	23,900
	Mar. 27, 1958	7.55	10,300
	Apr. 7, 1958	8.43	12,200
	May 9, 1958	6.83	8,620
	Sept. 28, 1958	7.63	10,300

[a]Backwater from ice.

4725. Perkiomen Creek near Frederick, Pa.

Location. --Lat 40°16'30", long 75°27'20", 0.7 mile upstream from West Swamp Creek, 1.3 miles east of Zieglersville, 4.5 miles southeast of Frederick, Montgomery County, and 12 miles northwest of Norristown.

Drainage area. --152 sq mi.

Gage. --Nonrecording gage. Altitude of gage 140 ft (from topographic map).

Remarks. --Only maximum daily discharges are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1885	Dec. 7, 1884	—	3,420	1901	May 11, 1901	—	4,720
				1902	Feb. 28, 1902	—	6,840
1886	Feb. 13, 1886	—	4,400	1903	Feb. 28, 1903	—	6,180
1887	Jan. 24, 1887	—	4,100	1904	Sept. 15, 1904	—	5,460
1888	Sept. 18, 1888	—	5,300	1905	Jan. 7, 1905	—	5,710
1889	July 31, 1889	—	5,570				
1890	Feb. 8, 1890	—	[a]8,340	1906	May 4, 1906	—	4,050
				1907	Sept. 29, 1907	—	4,850
1891	Mar. 21, 1891	—	4,800	1908	Feb. 15, 1908	—	5,570
1892	Jan. 14, 1892	—	3,700	1909	Feb. 24, 1909	—	3,370
1893	May 4, 1893	—	5,140	1910	Jan. 22, 1910	—	4,590
1894	May 21, 1894	—	8,770				
1895	Apr. 9, 1895	—	4,200	1911	Aug. 31, 1911	—	2,090
				1912	Mar. 15, 1912	—	5,200
1896	Feb. 6, 1896	—	9,790	1913	Mar. 27, 1913	—	4,950
1897	May 13, 1897	—	4,750				
1898	Feb. 20, 1898	—	5,550				
1899	Feb. 27, 1899	—	4,040				
1900	Feb. 5, 1900	—	3,610				

[a]Momentary maximum discharge.

4730. Perkiomen Creek at Graterford, Pa.

Location. --Lat 40°13'45", long 75°27'10", on left bank 1,650 ft upstream from highway bridge at Graterford, Montgomery County, half a mile upstream from Landis Brook, and 2½ miles north of Collegeville.

Drainage area. --279 sq mi.

Gage. --Nonrecording gage prior to Sept. 13, 1927; recording gage thereafter. Prior to Sept. 7, 1921, at site 1,650 ft downstream at datum 3.29 ft lower. Datum of present gage is 112.66 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 12,000 cfs and extended on basis of slope-area measurement.

Bankfull stage. --11 ft.

Remarks. --Base for partial-duration series, 6,800 cfs. Only annual peaks are shown for 1917-26, 1957-58. Flow regulated since Dec. 21, 1956.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Jan. 7, 1915	14.33	19,800	1918	Feb. 15,20, 1918	12.7	15,600
	Jan. 13, 1915	13.98	18,900				
	Jan. 18, 1915	10.15	9,600	1919	July 21, 1919	13.5	17,400
	Feb. 1, 1915	14.83	21,300				
	Feb. 24, 1915	10.00	9,200	1920	Nov. 13, 1919	8.6	6,720
	Aug. 4, 1915	16.04	24,900				
				1921	Feb. 28, 1921	8.6	6,700
1916	Dec. 18, 1915	10.50	10,200				
	July 25, 1916	8.8	7,050	1922	Mar. 20, 1922	5.6	4,120
1917	Mar. 12, 1917	9.8	8,820	1923	Mar. 16, 1923	5.8	4,420

Perkiomen Creek at Graterford, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1924	Apr. 6, 1924	7.6	7,200
1925	July 26, 1925	8.2	8,220
1926	Mar. 7, 1926	5.2	3,530
1927	Oct. 25, 1926	8.0	7,880
	Nov. 16, 1926	10.2	13,000
1928	Oct. 12, 1927	8.44	8,580
	Oct. 19, 1927	9.31	10,300
	Nov. 3, 1927	8.98	9,680
	Nov. 17, 1927	10.82	13,600
	Dec. 8, 1927	10.10	12,000
	Feb. 8, 1928	8.33	8,400
	Feb. 23, 1928	8.13	8,050
	Apr. 24, 1928	7.75	7,540
	Apr. 28, 1928	8.77	9,300
	July 14, 1928	13.36	21,200
	Aug. 7, 1928	7.15	6,560
1929	Feb. 7, 1929	7.93	7,710
	Feb. 26, 1929	11.22	14,700
	Mar. 6, 1929	7.10	6,400
	Apr. 16, 1929	8.77	9,300
	Aug. 14, 1929	10.45	12,600
1930	Oct. 2, 1929	11.62	15,800
1931	July 14, 1931	6.16	5,020
1932	Jan. 7, 1932	7.44	6,880
	Mar. 28, 1932	10.27	12,400
1933	Nov. 7, 1932	9.34	10,300
	Nov. 10, 1932	9.22	10,100
	Nov. 19, 1932	9.39	10,500
	Feb. 20, 1933	7.66	7,370
	Mar. 21, 1933	9.58	10,900
	Apr. 17, 1933	9.25	10,100
	July 17, 1933	9.41	10,500
	Aug. 23, 1933	16.65	34,600
1934	Jan. 7, 1934	8.11	8,050
	Mar. 5, 1934	8.72	9,120
	Mar. 28, 1934	7.90	7,710
	Apr. 1, 1934	8.06	8,050
	Sept. 8, 1934	10.12	12,000
	Sept. 30, 1934	12.34	19,100
1935	Feb. 15, 1935	[a]9.31	—
	July 9, 1935	18.26	39,900
	Aug. 4, 1935	7.83	7,540
	Sept. 4, 1935	11.55	15,800
1936	Nov. 17, 1935	10.94	13,900
	Nov. 29, 1935	7.64	7,200
	Jan. 3, 1936	11.40	16,400
	Jan. 9, 1936	8.50	8,760
	Mar. 1, 1936	[a]7.78	—
	Mar. 5, 1936	[a]9.70	—
	Mar. 12, 1936	9.79	11,300
	Mar. 18, 1936	10.46	12,900
	Apr. 6, 1936	9.60	10,900
	June 13, 1936	9.08	9,870
1937	Dec. 20, 1936	[a]7.33	—
	Feb. 22, 1937	7.38	6,770
1938	Feb. 20, 1938	7.11	6,410
	July 23, 1938	8.82	9,300
	Sept. 21, 1938	10.50	14,000
1939	Dec. 6, 1938	8.56	8,940
	Feb. 3, 1939	10.75	14,800
	Feb. 28, 1939	9.34	10,300
	Apr. 6, 1939	9.72	11,100
1940	Mar. 4, 1940	10.23	12,200
	Mar. 15, 1940	12.71	19,100
	Apr. 8, 1940	10.31	12,400
	Apr. 20, 1940	9.00	9,680
	May 20, 1940	13.28	22,100
	Sept. 25, 1940	7.17	6,520
1941	Nov. 15, 1940	8.98	9,680
	Dec. 17, 1940	9.21	10,100
	Dec. 28, 1940	—	[b]—
1942	Aug. 9, 1942	15.50	30,200
	Aug. 14, 1942	8.93	9,490
	Aug. 18, 1942	7.92	7,710
1943	Dec. 30, 1942	10.96	14,200
	May 20, 1943	8.30	8,770
	May 26, 1943	9.92	12,600
	June 18, 1943	11.62	17,000
1944	Oct. 27, 1943	7.43	6,860
	Oct. 28, 1943	7.48	7,150
	Nov. 9, 1943	11.43	16,400
	Jan. 6, 1944	8.21	8,560
	Mar. 13, 1944	10.20	13,300
	Apr. 24, 1944	10.55	14,300
1945	Nov. 27, 1944	7.60	7,200
	Jan. 1, 1945	11.94	17,900
	Feb. 26, 1945	8.32	8,770
	July 19, 1945	8.09	8,350
	Sept. 18, 1945	10.00	14,000
1946	Nov. 29, 1945	8.42	9,030
	May 19, 1946	7.67	7,540
	June 2, 1946	16.23	31,700
	July 23, 1946	12.18	18,900
1947	May 5, 1947	6.35	5,230
1948	May 5, 1948	9.07	9,870
	May 7, 1948	7.36	6,960
	May 13, 1948	10.19	12,200
	June 20, 1948	8.20	8,580
1949	Dec. 30, 1948	11.85	17,800
	Jan. 6, 1949	10.77	13,600
1950	Dec. 27, 1949	7.99	8,150
	Mar. 23, 1950	9.61	10,900
1951	Nov. 25, 1950	14.60	26,100
	Dec. 4, 1950	8.94	10,200
	Dec. 8, 1950	8.23	8,580
	Jan. 15, 1951	8.96	10,500
	Jan. 24, 1951	7.74	7,540
	Feb. 7, 1951	9.83	11,300
	Mar. 31, 1951	7.69	7,540
1952	Nov. 7, 1951	10.03	11,700
	Dec. 21, 1951	10.85	13,600
	Feb. 4, 1952	7.40	6,960
	Mar. 11, 1952	10.98	15,600
	Apr. 28, 1952	11.21	16,100
	May 26, 1952	8.71	9,740
	June 1, 1952	7.75	7,740
	July 10, 1952	11.15	16,100

Perkiomen Creek at Graterford, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Nov. 22, 1952	13.36	22,400	1955	Aug. 13, 1955	14.26	24,200
	Dec. 11, 1952	12.49	19,700		Aug. 19, 1955	14.08	23,600
	Jan. 10, 1953	7.67	7,540				
	Jan. 24, 1953	11.31	16,400	1956	Oct. 15, 1955	12.72	19,100
	Mar. 4, 1953	7.36	6,960		Feb. 6, 1956	7.70	7,370
	Mar. 15, 1953	8.31	8,800		Feb. 18, 1956	8.20	8,220
	Apr. 7, 1953	8.51	9,260		Mar. 14, 1956	9.90	11,500
	May 23, 1953	7.95	8,150				
	May 26, 1953	7.98	8,150	1957	Apr. 5, 1957	9.35	10,500
1954	Dec. 7, 1953	8.27	8,800	1958	Feb. 28, 1958	11.23	14,700
	Dec. 10, 1953	8.43	9,030				
	Dec. 14, 1953	8.68	9,740				

[a]Backwater from ice affect.
[b]Crest believed to have exceeded 6,800 cfs.

4735. Schuylkill River at Norristown, Pa.

Location. --Lat 40°06'40", long 75°20'25", at Schuylkill Navigation Company Dam, 800 ft upstream from DeKalb Street Bridge in Norristown, Montgomery County, and 1.5 miles upstream from Diamond Run.

Drainage area. --1,760 sq mi.

Gage. --Nonrecording gage prior to May 27, 1929; recording gage thereafter. Prior to May 27, 1929, at site 800 ft downstream at datum 1.59 ft lower. Altitude of gage is 48 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Base for partial-duration series, 23,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Oct. 19, 1927	7.76	27,900	1930	Oct. 2, 1929	10.26	41,200
	Nov. 18, 1927	8.20	30,100				
	Dec. 8, 1927	8.70	32,700	1931	July 15, 1931	10.40	42,000
	Feb. 8, 1928	9.7	25,900				
	Feb. 15, 1928	9.5	25,100	1932	Mar. 28, 1932	8.83	33,200
	Apr. 28, 1928	9.9	26,700				
	July 14, 1928	12.1	36,400	1933	Nov. 4, 1932	8.20	30,100
					Nov. 10, 1932	8.00	29,000
1929	Feb. 26, 1929	12.1	36,400		Nov. 19, 1932	7.63	26,900
	Mar. 6, 1929	10.3	28,300		Mar. 22, 1933	10.2	41,000
	Apr. 16, 1929	9.4	24,700		Apr. 12, 1933	8.73	32,700
					Apr. 17, 1933	7.96	29,000

4740. Wissahickon Creek near Philadelphia, Pa.

Location. --Lat 40°00'55", long 75°12'25", about 900 ft upstream from mouth, in Philadelphia, Philadelphia County.
Drainage area. --64.6 sq mi.
Gage. --Recording gage. Altitude of gage is 30 ft (from topographic map).
Remarks. --Maximum daily discharges are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1897	July 22, 1897	—	2,820	1901	Aug. 24, 1901	—	1,100
1898	Feb. 20, 1898	—	1,510	1902	Feb. 28, 1902	—	1,980
1899	Feb. 27, 1899	—	1,280	1903	Jan. 3, 1903	—	1,240
				1905	Jan. 7, 1905	—	1,750
				1906	Mar. 4, 1906	—	1,120

4745. Schuylkill River at Philadelphia, Pa.

Location. --Lat 39°58'00", long 75°11'05", on left bank just upstream from Fairmount Dam in Philadelphia, Philadelphia County, 8.2 miles upstream from mouth.

Drainage area. --1,893 sq mi.

Gage. --Recording gage. Prior to Nov. 26, 1956 at site on right bank just upstream from Fairmount Dam. Datum of gage is 5.74 above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 46,000 cfs and extended.

Bankfull stage. --12 ft.

Remarks. --Base for partial-duration series, 18,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1870	Oct. 4, 1869	17.0	135,000
1902	Mar. 1, 1902	14.8	98,000
1932	Mar. 28, 1932	10.27	33,300
1933	Nov. 1, 1932	8.87	19,200
	Nov. 7, 1932	9.74	27,600
	Nov. 10, 1932	9.94	29,600
	Nov. 19, 1932	9.71	27,100
	Mar. 20, 1933	9.16	21,800
	Mar. 21, 1933	10.26	33,300
	Apr. 12, 1933	10.19	32,200
	Apr. 17, 1933	9.65	26,600
	Aug. 24, 1933	14.70	96,200
1934	Jan. 7, 1934	8.83	19,200
	Mar. 5, 1934	10.03	30,100
	Apr. 1, 1934	8.84	19,200
	Sept. 8, 1934	9.38	24,100
	Sept. 30, 1934	11.30	44,800
1935	Dec. 2, 1934	8.95	20,000
	July 9, 1935	14.10	82,000
	Sept. 5, 1935	9.84	28,600
1936	Nov. 17, 1935	9.01	20,500
	Jan. 3, 1936	11.70	49,600
	Jan. 9, 1936	9.61	26,100
	Mar. 12, 1936	11.62	48,400
	Mar. 18, 1936	10.84	38,800
	Mar. 22, 1936	9.02	20,500
	Apr. 6, 1936	9.63	26,600
1937	Dec. 20, 1936	8.60	17,100
1938	July 23, 1938	10.21	32,200
	Sept. 21, 1938	10.66	37,700
1939	Dec. 6, 1938	10.06	31,100
	Jan. 30, 1939	9.35	23,600
	Feb. 3, 1939	11.08	42,400
	Feb. 28, 1939	9.70	27,100
	Apr. 7, 1939	9.97	29,600
1940	Mar. 4, 1940	11.23	43,600
	Mar. 15, 1940	11.72	49,600
	Apr. 9, 1940	10.43	34,400
	Apr. 20, 1940	9.80	28,100
	May 21, 1940	10.04	30,100
1941	Nov. 15, 1940	9.22	22,300
	Dec. 17, 1940	9.08	21,400
	Dec. 28, 1940	8.74	18,300
1942	May 24, 1942	12.44	61,400
	Aug. 9, 1942	13.10	71,500
	Aug. 18, 1942	9.00	21,000
	Sept. 28, 1942	9.15	22,400
1943	Dec. 30, 1942	11.36	47,800
	Feb. 11, 1943	8.68	18,300
	May 26, 1943	9.46	25,300
	June 18, 1943	8.83	19,600
1944	Nov. 9, 1943	11.19	45,200
	Jan. 4, 1944	9.75	28,800
	Jan. 6, 1944	9.45	25,300
	Mar. 13, 1944	10.11	32,100
	Apr. 25, 1944	10.44	35,400
	Apr. 28, 1944	8.97	20,600
1945	Jan. 1, 1945	11.06	43,900
	Feb. 27, 1945	9.25	23,300
	July 19, 1945	9.65	26,800
	Sept. 19, 1945	11.92	54,400
1946	Nov. 29, 1945	10.19	33,200
	Dec. 26, 1945	9.57	26,800
	Mar. 28, 1946	9.14	22,400
	June 2, 1946	14.57	94,600
	July 23, 1946	10.63	37,800
1947	May 26, 1947	8.63	17,900
1948	May 7, 1948	9.20	21,700
	May 13, 1948	10.18	31,500
1949	Dec. 30, 1948	12.00	54,400
	Jan. 6, 1949	10.96	40,800
	Jan. 28, 1949	8.78	18,100
1950	Feb. 15, 1950	8.88	19,600
	Mar. 23, 1950	10.12	31,000
1951	Nov. 25, 1950	14.32	89,800
	Dec. 5, 1950	10.70	37,600
	Dec. 8, 1950	9.55	25,500
	Jan. 15, 1951	9.14	21,800
	Feb. 7, 1951	10.74	37,600
1952	Nov. 7, 1951	10.52	34,800
	Dec. 21, 1951	10.98	40,800
	Jan. 28, 1952	8.98	20,500
	Feb. 4, 1952	9.09	21,400
	Mar. 11, 1952	10.89	40,000
	Apr. 28, 1952	11.92	53,000
	May 26, 1952	10.03	30,000
	June 1, 1952	9.44	24,600
	July 10, 1952	9.86	29,000
	Sept. 2, 1952	9.22	22,300

Schuylkill River at Philadelphia, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	Nov. 22, 1952	12.41	60,300	1955	Mar. 23, 1955	—	[a]—
	Dec. 11, 1952	11.70	50,200		Aug. 13, 1955	11.25	44,200
	Jan. 10, 1953	8.93	20,000		Aug. 19, 1955	14.32	90,100
	Jan. 25, 1953	9.34	23,600				
	Mar. 26, 1953	9.17	21,800	1956	Oct. 15, 1955	11.12	33,500
	Mar. 26, 1953	8.96	20,000		Mar. 14, 1956	9.22	24,200
	Apr. 7, 1953	8.86	19,200				
	May 23, 1953	8.89	19,600	1957	Apr. 6, 1957	9.95	32,400
	May 26, 1953	9.85	28,000				
				1958	Dec. 21, 1957	8.92	21,300
1954	Dec. 7, 1953	9.28	23,200		Feb. 28, 1958	10.07	33,500
	Dec. 14, 1953	9.36	23,600		Mar. 27, 1958	8.68	19,500
					Apr. 7, 1958	9.38	26,200

[a]Crest believed to have exceeded 18,000 cfs.

4760. Crum Creek at Woodlyn, Pa.

Location. --Lat 39°52'45", long 75°21'00", at highway bridge at Woodlyn, Delaware County, 2 miles northeast of Chester, and 2½ miles upstream from mouth.

Drainage area. --33.3 sq mi.

Gage. --Nonrecording gage prior to July 13, 1931; recording gage thereafter. Datum of gage is 19.58 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 550 cfs and extended by logarithmic plotting.

Remarks. --Base for partial-duration series, 330 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Mar. 28, 1932	3.00	334	1936	Nov. 17, 1935	4.37	637
					Jan. 3, 1936	5.00	775
1933	Apr. 12, 1933	3.67	471		Jan. 9, 1936	5.08	799
	Apr. 17, 1933	3.43	428		Feb. 26, 1936	3.60	460
	June 26, 1933	3.72	482		Mar. 12, 1936	3.75	493
	Aug. 23, 1933	7.56	1,420		Mar. 18, 1936	4.15	592
					Apr. 6, 1936	3.42	418
1934	Mar. 5, 1934	4.38	637				
	May 3, 1934	3.23	386	1937	Feb. 22, 1937	3.48	428
1935	July 9, 1935	4.52	660				
	Sept. 4, 1935	6.22	1,060				

4765. Ridley Creek at Moylan, Pa.

Location. --Lat 39°54'10", long 75°23'35", at Fox Bank Bridge at Moylan, Delaware County, and 1 mile south of Media.

Drainage area. --31.9 sq mi.

Gage. --Recording gage. Datum of gage is 87.36 ft above mean sea level (Pennsylvania Railroad benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 1,300 cfs and extended on basis of contracted-opening measurement.

Remarks. --Base for partial-duration series, 750 cfs.

Ridley Creek at Moylan, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Mar. 28, 1932	4.60	891	1944	Jan. 6, 1944	4.30	865
1933	May 24, 1933	4.55	866	1945	Jan. 1, 1945	4.49	980
	Aug. 23, 1933	7.36	2,680		July 5, 1945	4.36	842
					Aug. 1, 1945	4.39	920
1934	Mar. 5, 1934	4.86	1,080		Sept. 18, 1945	4.59	1,040
1935	July 9, 1935	7.81	3,000	1946	Nov. 29, 1945	4.67	978
	Sept. 4, 1935	5.46	1,330		Dec. 26, 1945	4.72	1,000
1936	Nov. 17, 1935	4.28	820	1947	May 22, 1947	3.44	483
	Jan. 3, 1936	5.85	1,590				
	Jan. 9, 1936	5.26	1,280	1948	May 5, 1948	4.06	740
	Mar. 11, 1936	4.14	752				
	Mar. 18, 1936	4.60	955	1949	Dec. 30, 1948	4.60	1,040
1937	Feb. 22, 1937	4.10	770	1950	Aug. 3, 1950	5.85	1,590
1938	June 12, 1938	4.56	932	1951	Nov. 25, 1950	10.84	5,720
	June 27, 1938	4.66	978				
	July 23, 1938	8.16	3,320	1952	Nov. 7, 1951	4.68	1,000
	Aug. 7, 1938	4.18	775		Dec. 21, 1951	5.23	1,280
					Feb. 4, 1952	4.18	775
1939	Feb. 3, 1939	4.66	978		Mar. 11, 1952	5.60	1,490
	Aug. 19, 1939	4.62	955		Apr. 5, 1952	4.47	918
					July 9, 1952	4.64	1,020
1940	Mar. 4, 1940	4.92	1,100				
	Mar. 15, 1940	6.14	1,770	1953	Nov. 22, 1952	4.43	918
					Dec. 11, 1952	4.15	782
1941	Feb. 7, 1941	4.03	746		Jan. 24, 1953	4.32	850
1942	July 31, 1942	4.29	820	1954	Dec. 14, 1953	3.89	670
	Aug. 9, 1942	4.55	932				
	Aug. 13, 1942	4.68	1,000	1955	Aug. 18, 1955	9.42	[a]4,390
1943	Dec. 30, 1942	4.48	980				
	May 12, 1943	4.20	775				

[a]Annual peak only.

4770. Chester Creek near Chester, Pa.

Location. --Lat 39°52'10", long 75°24'30", on right bank 10 ft upstream from Dutton Mill Bridge and 3 miles northwest of Chester, Delaware County.

Drainage area. --61.1 sq mi.

Gage. --Recording gage. Datum of gage is 23.41 ft above mean sea level (Pennsylvania Railroad benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 2,400 cfs and extended on basis of contracted-opening measurement.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 1,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Mar. 28, 1932	7.41	2,100	1935	July 9, 1935	7.78	2,480
					Sept. 4, 1935	8.72	2,920
1933	Nov. 10, 1932	7.20	2,070				
	Apr. 12, 1933	6.20	1,500	1936	Nov. 17, 1935	6.66	1,770
	Apr. 17, 1933	6.13	1,450		Jan. 3, 1936	9.94	4,330
	Aug. 23, 1933	11.48	6,250		Jan. 9, 1936	10.50	5,000
					Feb. 25, 1936	6.82	1,830
1934	Mar. 5, 1934	7.83	2,480		Mar. 12, 1936	6.63	1,710

Chester Creek near Chester, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	6.25	1,500	1948	Nov. 4, 1947	7.50	2,180
Cont.	Apr. 6, 1936	6.36	1,600		Nov. 8, 1947	6.30	1,430
					Nov. 12, 1947	7.90	2,420
1937	Feb. 22, 1937	6.14	1,350		May 5, 1948	6.72	1,770
					July 14, 1948	6.20	1,500
1938	Nov. 13, 1937	6.25	1,390				
	June 27, 1938	8.22	2,600	1949	Dec. 30, 1948	7.14	1,940
	July 23, 1938	10.57	5,120				
	July 25, 1938	6.88	1,690	1950	Aug. 3, 1950	10.48	5,000
	Aug. 7, 1938	6.80	1,650				
	Sept. 21, 1938	6.53	1,520	1951	Nov. 25, 1950	16.21	14,400
					Mar. 20, 1951	6.34	1,530
1939	Jan. 30, 1939	6.50	1,520				
	Feb. 3, 1939	7.48	2,180	1952	Nov. 7, 1951	8.68	2,920
	Apr. 6, 1939	6.95	1,740		Dec. 21, 1951	9.11	3,200
	Aug. 19, 1939	9.23	3,630		Feb. 4, 1952	7.01	1,880
					Mar. 11, 1952	8.08	2,540
1940	Jan. 14, 1940	6.18	1,390		Mar. 19, 1952	6.33	1,530
	Mar. 4, 1940	7.91	2,420		Apr. 5, 1952	6.55	1,680
	Mar. 15, 1940	10.26	4,770		July 9, 1952	9.52	3,920
	Apr. 8, 1940	6.68	1,600				
	Apr. 20, 1940	6.34	1,440	1953	Nov. 22, 1952	6.26	1,530
	May 21, 1940	7.34	2,130		Dec. 11, 1952	6.17	1,480
					Jan. 24, 1953	6.73	1,730
1941	Feb. 7, 1941	6.11	1,350				
	Mar. 11, 1941	6.08	1,350	1954	Dec. 14, 1953	6.46	1,630
1942	Aug. 13, 1942	7.80	2,360	1955	Feb. 7, 1955	6.02	1,400
					Aug. 13, 1955	8.28	2,840
1943	Dec. 30, 1942	7.80	2,360		Aug. 18, 1955	13.57	9,380
	Mar. 6, 1943	6.76	1,650				
	Apr. 19, 1943	6.00	1,310	1956	June 1, 1956	6.75	1,830
	June 27, 1943	7.79	2,360		July 21, 1956	7.98	2,620
1944	Apr. 24, 1944	6.35	1,480	1957	Apr. 2, 1957	4.57	802
1945	July 5, 1945	8.56	3,100	1958	Dec. 21, 1957	6.17	1,500
	Aug. 1, 1945	9.98	4,440		Jan. 22, 1958	6.41	1,600
	Sept. 18, 1945	7.34	2,130		Jan. 25, 1958	6.00	1,400
					Feb. 27, 1958	6.60	1,710
1946	Nov. 29, 1945	8.23	2,600		Apr. 6, 1958	6.96	1,950
	June 2, 1946	8.30	2,660		July 24, 1958	6.72	1,770
	July 23, 1946	6.65	1,560		July 27, 1958	6.80	1,830
					Aug. 25, 1958	6.00	1,400
1947	May 1, 1947	7.56	2,240				

4805. West Branch Brandywine Creek at Coatesville, Pa.

Location.--Lat 39°59'00", long 75°49'35", at bridge on U. S. Highway 30 in Coatesville, Chester County, and 0.6 mile upstream from Sucker Run.

Drainage area.--45.8 sq mi.

Gage.--Nonrecording gage and crest-stage indicator. Datum of gage is 302.38 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 390 cfs and extended on basis of slope-area measurement.

Remarks.--Base for partial-duration series, 650 cfs.

West Branch Brandywine Creek at Coatesville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Aug. 9, 1942	12.3	8,600	1947	June 15, 1947	3.0	675
					July 8, 1947	3.00	675
1944	Nov. 9, 1943	3.53	945				
	Jan. 4, 1944	4.2	1,340	1948	Nov. 4, 1947	3.1	725
	Mar. 13, 1944	3.5	945		Nov. 24, 1947	3.0	675
					May 5, 1948	3.9	1,170
1945	Jan. 1, 1945	3.9	1,160		Aug. 22, 1948	3.4	885
	Feb. 23, 1945	3.0	780		Sept. 10, 1948	3.3	830
	July 2, 1945	3.5	1,060				
	July 15, 1945	3.1	835	1949	Dec. 30, 1948	3.9	1,170
	July 18, 1945	3.9	1,280		Jan. 5, 1949	3.6	995
	Sept. 18, 1945	7.3	3,670				
				1950	Mar. 23, 1950	3.15	785
1946	Nov. 29, 1945	3.29	945		July 11, 1950	3.17	785
	Feb. 28, 1946	3.15	890		Aug. 3, 1950	3.3	835
	May 17, 1946	3.00	780				
	June 2, 1946	3.56	1,110	1951	Nov. 25, 1950	6.9	3,330
	June 12, 1946	3.00	780		Dec. 4, 1950	3.7	1,050
	July 22, 1946	4.37	1,570		Dec. 8, 1950	4.3	1,410
					Jan. 15, 1951	3.0	685
					Feb. 7, 1951	4.0	1,230
					June 29, 1951	3.0	685

4810. Brandywine Creek at Chadds Ford, Pa.

Location. --Lat 39°52'10", long 75°35'35", on left bank 27 ft upstream from Pennsylvania Railroad bridge at Chadds Ford, Delaware County.

Drainage area. --287 sq mi.

Gage. --Nonrecording gage prior to May 21, 1927; recording gage thereafter. Datum of gage is 150.45 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 7,000 cfs and extended on basis of depth-area study.

Remarks. --Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Feb. 21, 1912	12.00	10,600	1919	July 22, 1919	10.25	7,180
	Feb. 27, 1912	8.20	4,320				
	Mar. 13, 1912	11.6	9,800	1920	Jan. 9, 1920	7.9	4,000
	Mar. 15, 1912	10.0	6,840		Mar. 5, 1920	15.0	17,200
1913	Apr. 28, 1913	7.8	3,900	1921	Dec. 1, 1920	6.0	2,560
1914	Jan. 24, 1914	8.2	4,320	1922	Feb. 2, 1922	7.4	3,540
	Apr. 16, 1914	7.7	3,810		Feb. 20, 1922	8.0	4,100
	July 28, 1914	7.6	3,720				
				1923	Apr. 29, 1923	7.0	3,220
1915	Jan. 7, 1915	10.4	7,520				
	Jan. 12, 1915	11.0	8,620	1924	Jan. 17, 1924	10.0	6,840
	Feb. 2, 1915	11.3	9,200		Jan. 26, 1924	8.2	4,320
	Feb. 6, 1915	7.5	3,630		Feb. 20, 1924	9.0	5,320
	Aug. 4, 1915	14.7	16,500		Apr. 6, 1924	9.2	5,600
					Sept. 30, 1924	9.6	6,200
1916	June 16, 1916	8.6	4,790				
				1925	Feb. 11, 1925	10.5	7,700
1917	Jan. 22, 1917	8.3	4,430				
				1926	Jan. 18, 1926	7.6	3,720
1918	Jan. 12, 1918	11.8	10,200		Feb. 19, 1926	8.4	4,550
	Jan. 15, 1918	8.0	4,100		Feb. 25, 1926	9.4	5,900
	Feb. 13, 1918	10.0	6,840		Mar. 6, 1926	7.5	3,630
	Feb. 16, 1918	9.3	5,750				
	Feb. 20, 1918	8.8	5,050				
	Mar. 26, 1918	9.0	5,320				

Brandywine Creek at Chadds Ford, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Nov. 16, 1926	7.4	3,540
	Dec. 28, 1926	8.0	4,100
	July 23, 1927	8.2	4,320
	Sept. 19, 1927	10.1	7,010
1928	Oct. 13, 1927	8.79	5,050
	Nov. 18, 1927	9.50	6,050
	Dec. 8, 1927	8.79	5,050
	Feb. 8, 1928	8.42	4,550
	Apr. 28, 1928	8.3	4,430
	June 6, 1928	9.40	5,900
	June 22, 1928	7.48	3,630
	July 14, 1928	8.70	4,920
	July 28, 1928	7.75	3,900
	Aug. 18, 1928	11.00	8,620
1929	Feb. 7, 1929	7.62	3,720
	Feb. 27, 1929	9.77	6,520
	Apr. 16, 1929	8.97	5,320
1930	Oct. 2, 1929	8.47	4,670
1931	July 10, 1931	10.80	8,240
1932	Mar. 28, 1932	9.06	5,460
1933	Nov. 10, 1932	7.68	3,810
	Nov. 19, 1932	7.41	3,540
	Mar. 21, 1933	8.02	4,100
	Apr. 12, 1933	8.55	4,790
	Apr. 17, 1933	8.37	4,550
	Aug. 4, 1933	9.69	6,360
	Aug. 24, 1933	14.01	14,800
1934	Mar. 3, 1934	8.19	4,320
	Mar. 5, 1934	8.48	4,670
1935	July 9, 1935	10.00	7,000
	Sept. 4, 1935	8.38	4,550
1936	Nov. 18, 1935	9.51	6,050
	Jan. 3, 1936	11.21	9,000
	Jan. 9, 1936	10.08	7,010
	Feb. 26, 1936	7.95	4,100
	Feb. 29, 1936	7.45	3,540
	Mar. 12, 1936	9.46	6,050
	Mar. 18, 1936	8.54	4,670
	Apr. 6, 1936	8.03	4,100
1937	Dec. 20, 1936	7.57	3,720
	Feb. 22, 1937	7.76	3,790
	Apr. 27, 1937	7.22	3,380
1938	Oct. 23, 1937	7.40	3,540
	Nov. 13, 1937	8.00	4,100
	June 8, 1938	8.65	4,790
	June 12, 1938	7.33	3,460
	June 27, 1938	11.37	9,400
	July 23, 1938	10.45	7,520
	Sept. 21, 1938	7.48	3,630
1939	Jan. 30, 1939	7.93	4,000
	Feb. 4, 1939	9.08	5,460
	Mar. 1, 1939	8.12	4,210
	Apr. 7, 1939	7.40	3,540
	June 14, 1939	8.05	4,210
	Aug. 20, 1939	10.72	8,060
1940	Mar. 4, 1940	9.13	5,460
	Mar. 15, 1940	9.65	6,190
	Apr. 9, 1940	8.88	5,180
	Apr. 20, 1940	8.15	4,320
	Sept. 25, 1940	7.59	3,720
1941	Feb. 8, 1941	8.92	5,060
	Mar. 11, 1941	7.84	3,900
1942	Aug. 9, 1942	14.80	16,800
	Aug. 13, 1942	7.96	4,100
1943	Oct. 26, 1942	7.52	3,630
	Dec. 30, 1942	9.08	5,360
	Feb. 11, 1943	7.87	3,990
	Mar. 7, 1943	7.65	3,720
	Apr. 20, 1943	7.93	4,000
1944	Nov. 9, 1943	8.56	4,690
	Dec. 27, 1943	7.66	3,810
	Jan. 4, 1944	10.6	7,880
	Mar. 13, 1944	8.77	4,930
	Apr. 25, 1944	7.62	3,720
	Sept. 14, 1944	8.43	4,550
1945	Jan. 2, 1945	9.10	4,360
	July 5, 1945	8.50	4,430
	July 18, 1945	7.73	3,630
	Sept. 19, 1945	10.87	8,240
1946	Nov. 29, 1945	8.14	4,280
	Dec. 26, 1945	8.14	4,280
	May 17, 1946	7.61	3,720
	June 2, 1946	10.02	7,110
	July 23, 1946	11.14	8,810
1947	July 8, 1947	6.00	2,500
1948	Nov. 4, 1947	8.31	4,380
	Nov. 8, 1947	7.62	3,720
	Feb. 14, 1948	7.42	3,540
	Feb. 18, 1948	7.98	4,080
	May 5, 1948	7.72	3,810
	Sept. 10, 1948	9.64	6,190
1949	Dec. 30, 1948	9.10	5,360
	Jan. 6, 1949	7.96	4,080
1950	Mar. 23, 1950	8.08	4,180
	Aug. 3, 1950	8.65	4,690
1951	Nov. 25, 1950	12.54	11,600
	Jan. 15, 1951	7.86	4,000
	Feb. 8, 1951	9.67	6,360
	Apr. 13, 1951	7.40	3,540
1952	Nov. 7, 1951	9.45	5,900
	Dec. 21, 1951	9.49	6,050
	Feb. 4, 1952	8.30	4,430
	Mar. 11, 1952	9.09	5,460
	Apr. 28, 1952	9.04	5,320
	May 26, 1952	8.81	5,050
	June 1, 1952	7.83	3,900
	July 10, 1952	8.31	4,430
1953	Nov. 22, 1952	9.55	6,200
	Dec. 11, 1952	9.51	6,050
	Jan. 24, 1953	9.63	6,200
	Mar. 16, 1953	7.92	4,000

4815. Brandywine Creek at Wilmington, Del.

Location. --Lat 39°46'10", long 75°34'20", in Wilmington, New Castle County, 0.2 mile downstream from Henry Clay Bridge and 4.2 miles upstream from mouth.

Drainage area. --314 sq mi.

Gage. --Recording and concrete control. Datum of gage is 68.23 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Apr. 30, 1947	7.79	4,730	1953	Jan. 25, 1953	8.61	5,820
1948	Sept. 10, 1948	8.41	5,160	1954	Dec. 14, 1953	7.13	3,780
1949	Dec. 30, 1948	8.25	4,940	1955	Aug. 19, 1955	13.89	17,800
1950	Aug. 3, 1950	7.86	4,610	1956	Mar. 14, 1956	7.75	5,020
1951	Nov. 25, 1950	11.34	11,500	1957	Nov. 2, 1956	10.36	9,620
1952	July 9, 1952	9.32	6,960	1958	Feb. 28, 1958	9.41	7,790

SUSQUEHANNA RIVER BASIN

5030. Susquehanna River at Conklin, N. Y.

Location. --Lat 42°02'10", long 75°48'10", at Conklin, Broome County, three-quarters of a mile downstream from Little Snake Creek and $3\frac{1}{2}$ miles downstream from Pennsylvania State line.

Drainage area. --2,240 sq mi.

Gage. --Nonrecording prior to Oct. 4, 1914; recording thereafter.

Stage-discharge relation. --Defined by current-meter measurements below 37,000 cfs and extended by logarithmic plotting.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 28, 1913	18.3	52,000	1931	Mar. 30, 1931	12.16	22,800
1914	Mar. 30, 1914	17.45	47,000	1932	Apr. 1, 1932	13.75	29,000
1915	July 8, 1915	16.15	40,500	1933	Oct. 8, 1932	13.10	25,000
1916	Apr. 2, 1916	16.48	42,100	1934	Mar. 5, 1934	13.2	25,400
1917	Mar. 28, 1917	13.55	28,700	1935	July 9, 1935	16.95	41,900
1918	Mar. 1, 1918	12.87	25,900	1936	Mar. 18, 1936	20.14	61,600
1919	Oct. 31, 1918	10.65	17,900	1937	Jan. 26, 1937	12.88	24,300
1920	Mar. 29, 1920	15.05	35,200	1938	Sept. 23, 1938	15.89	34,100
1921	Mar. 10, 1921	13.18	27,100	1939	Feb. 21, 1939	15.64	33,100
1922	Nov. 29, 1921	16.03	39,900	1940	Apr. 1, 1940	19.13	51,800
1923	Mar. 24, 1923	13.23	27,300	1941	Apr. 6, 1941	13.40	24,900
1924	Sept. 30, 1924	16.86	44,000	1942	Mar. 19, 1942	14.45	28,100
1925	Feb. 12, 1925	17.04	44,900	1943	Dec. 31, 1942	18.76	48,600
1926	Apr. 10, 1926	14.0	30,600	1944	Mar. 18, 1944	[a]15.00	30,000
1927	Mar. 15, 1927	14.8	33,600	1945	Mar. 18, 1945	14.17	27,500
1928	Oct. 19, 1927	16.9	43,500	1946	Mar. 9, 1946	15.49	32,900
1929	Mar. 17, 1929	17.6	47,000	1947	Apr. 6, 1947	15.04	31,000
1930	Dec. 20, 1929	10.9	18,600	1948	Mar. 22, 1948	20.83	60,500
				1949	Dec. 31, 1948	14.39	28,400
				1950	Mar. 29, 1950	15.87	34,600

Susquehanna River at Conklin, N. Y.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 4, 1950	16.20	36,100	1956	Apr. 7, 1956	16.04	39,200
1952	Mar. 12, 1952	13.40	24,700	1957	Jan. 23, 1957	11.74	21,400
1953	Jan. 25, 1953	13.61	25,400	1958	Apr. 7, 1958	15.83	38,300
1954	Feb. 18, 1954	14.55	29,000				
1955	Mar. 13, 1955	12.72	22,500				

[a]Occurred Mar. 17, 1944; backwater from ice.

5150

5180. Tioga River at Tioga, Pa.

Location. --Lat 41°54'30", long 77°07'45", on left bank 150 ft upstream from highway bridge at Tioga, Tioga County, and three-quarters of a mile upstream from Crooked Creek.

Drainage area. --282 sq mi.

Gage. --Recording gage. Prior to Sept. 9, 1953, at site 20 ft upstream at datum 2.11 ft higher. Sept. 9, 1953 to Aug. 10, 1954, at site 130 ft downstream at present datum. Datum of gage is 1,021.0 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 5,800 cfs and extended on basis of slope-area and contracted-opening measurement.

Remarks. --Base for partial-duration series, 6,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 20, 1939	—	6,300	1951	Nov. 25, 1950	11.33	25,400
					Dec. 8, 1950	6.96	7,670
1940	Mar. 31, 1940	10.48	16,200		Mar. 30, 1951	10.02	18,900
	Apr. 4, 1940	—	10,700				
				1952	Mar. 11, 1952	8.85	14,000
1941	Apr. 5, 1941	7.42	6,930		Apr. 5, 1952	6.29	6,700
1942	Mar. 9, 1942	9.63	12,900	1953	Dec. 11, 1952	8.35	12,300
					Mar. 24, 1953	6.72	7,710
1943	Dec. 30, 1942	10.27	15,300		May 26, 1953	6.25	6,610
1944	May 7, 1944	8.82	10,400	1954	Mar. 1, 1954	9.62	12,800
					May 4, 1954	7.94	7,840
1945	Mar. 3, 1945	—	8,920				
	May 18, 1945	8.84	10,500	1955	Feb. 23, 1955	[a]8.04	—
					Mar. 4, 1955	6.66	5,210
1946	May 27, 1946	13.36	39,000				
				1956	Oct. 14, 1955	12.69	25,700
1947	Apr. 5, 1947	10.82	22,800		Oct. 16, 1955	7.66	7,460
					Mar. 6, 1956	8.05	8,400
1948	Mar. 22, 1948	8.21	11,600				
	Apr. 14, 1948	—	6,730	1957	Jan. 22, 1957	[a]10.32	—
	May 24, 1948	—	8,120		Apr. 6, 1957	8.56	9,740
1949	Dec. 30, 1948	5.95	5,180	1958	Mar. 1, 1958	[a]7.72	—
					Apr. 7, 1958	7.52	7,140
1950	Mar. 28, 1950	7.59	9,550				

[a]Backwater from ice.

5200. Cowanesque River near Lawrenceville, Pa.

Location. --Lat 41°59'10", long 77°09'00", on left bank three-quarters of a mile downstream from Cook Creek, 1 3/4 miles southwest of Lawrenceville, Tioga County, and 2½ miles upstream from mouth.

Drainage area. --295 sq mi.

Gage. --Recording gage.

Stage-discharge relation. --Defined by current-meter measurements below 7,200 cfs and extended by logarithmic plotting.

Remarks. --Base for partial-duration series, 6,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 1, 1952	[a]10.18	—	1955	Feb. 28, 1955	[a]10.99	—
	Jan. 18, 1952	7.91	7,380		Mar. 4, 1955	7.47	6,410
	Jan. 27, 1952	7.67	6,760				
	Mar. 11, 1952	9.60	12,500	1956	Oct. 14, 1955	10.47	18,200
	Apr. 5, 1952	8.61	9,020		Nov. 16, 1955	8.96	11,400
					Mar. 6, 1956	9.30	12,700
1953	Dec. 11, 1952	8.46	8,550		Mar. 8, 1956	9.41	13,200
	Mar. 24, 1953	9.83	13,400		Apr. 3, 1956	8.48	9,550
	May 26, 1953	7.72	6,430				
				1957	Jan. 22, 1957	[a]10.87	—
1954	Jan. 27, 1954	[a]9.23	—		Jan. 23, 1957	7.59	6,860
	Mar. 1, 1954	9.17	10,900		Apr. 6, 1957	7.77	7,340
	June 2, 1954	8.80	9,640		Apr. 25, 1957	8.30	8,940
				1958	Mar. 1, 1958	[a]8.88	—
					Apr. 7, 1958	—	8,940

[a]Backwater from ice.

5310. Chemung River at Chemung, N. Y.

Location. --Lat 42°00'10", long 76°38'00", on right bank 60 ft downstream from highway bridge, three-quarters of a mile southwest of Chemung, Chemung County, and 10 miles upstream from mouth.

Drainage area. --2,530 sq mi, approximately.

Gage. --Nonrecording prior to Jan. 10, 1930, recording thereafter. Datum of gage is 778.63 ft above mean sea level, adjustment of 1912 (levels by Corps of Engineers).

Stage-discharge relation. --Defined by current-meter measurements below 65,000 cfs and extended above on basis of slope area and contracted-opening measurements and velocity-area studies.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Mar. 8, 1904	17.6	63,200	1916	June 18, 1916	17.46	68,900
1905	Mar. 20, 1905	14.9	44,600	1917	Mar. 12, 1917	11.7	27,600
				1918	Mar. 15, 1918	17.96	67,000
1906	Mar. 28, 1906	12.8	32,700	1919	May 23, 1919	16.72	58,300
1907	Apr. 27, 1907	10.7	22,670	1920	Mar. 13, 1920	17.18	61,200
1908	Feb. 16, 1908	14.95	44,900				
1909	May 2, 1909	15.85	50,700	1921	Feb. 17, 1921	11.55	29,000
1910	Apr. 25, 1910	16.76	57,000	1922	Mar. 8, 1922	12.36	30,800
				1923	Mar. 5, 1923	13.65	37,900
1911	Mar. 28, 1911	9.44	17,000	1924	Apr. 7, 1924	15.55	49,700
1912	Mar. 30, 1912	15.98	51,600	1925	Feb. 12, 1925	15.2	47,400
1913	Mar. 26, 1913	16.5	52,500				
1914	Mar. 29, 1914	17.0	59,900	1926	Mar. 26, 1926	12.1	29,500
1915	Feb. 25, 1915	16.42	55,700	1927	Nov. 17, 1926	14.1	40,500
				1928	Dec. 2. 1927	14.9	45,400
				1929	Apr. 21, 1929	17.1	57,400
				1930	Feb. 26, 1930	11.7	26,300

Chemung River at Chemung, N. Y.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Mar. 29, 1931	10.69	21,600	1946	May 28, 1946	23.97	132,000
1932	Apr. 1, 1932	14.13	39,400	1947	Apr. 6, 1947	18.01	66,500
1933	Aug. 25, 1933	13.03	33,400	1948	Mar. 22, 1948	18.26	69,300
1934	Mar. 4, 1934	13.00	32,300	1949	Jan. 6, 1949	10.86	20,500
1935	July 9, 1935	19.45	86,000	1950	Mar. 29, 1950	19.12	80,300
1936	Mar. 12, 1936	19.57	87,300	1951	Mar. 31, 1951	19.19	81,300
1937	Aug. 27, 1937	15.18	44,000	1952	Mar. 12, 1952	17.17	54,300
1938	Nov. 14, 1937	14.58	40,100	1953	Mar. 25, 1953	16.09	46,000
1939	Feb. 21, 1939	17.80	68,000	1954	Mar. 2, 1954	14.70	37,300
1940	Apr. 1, 1940	19.62	87,800	1955	Mar. 2, 1955	14.02	33,900
1941	Apr. 6, 1941	16.92	55,300	1956	Oct. 15, 1955	20.13	89,000
1942	Mar. 10, 1942	17.47	60,700	1957	Apr. 6, 1957	15.10	39,700
1943	Dec. 31, 1942	19.04	77,400	1958	Apr. 7, 1958	16.94	52,400
1944	May 8, 1944	14.40	36,900				
1945	Mar. 4, 1945	16.79	54,100				

5315. Susquehanna River at Towanda, Pa.

Location. --Lat 41°45'55", long 76°26'25", on right bank under Bridge Street Bridge at Towanda, Bradford County, 1 3/4 miles upstream from Towanda Creek.

Drainage area. --7,797 sq mi.

Gage. --Nonrecording gage prior to Sept. 30, 1938; recording gage thereafter. Datum of gage is 694.38 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --16 ft.

Remarks. --Base for partial-duration series, 68,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1865	Mar. 17, 1865	25.0	188,000	1902	Mar. 2, 1902	24.5	184,000
					Mar. 14, 1902	12.0	69,200
1893	Mar. 10, 1893	15.3	101,000		Mar. 17, 1902	12.9	76,800
	May 4, 1893	16.0	109,000				
				1903	Feb. 5, 1903	13.5	82,200
1894	Mar. 8, 1894	12.3	71,700		Mar. 1, 1903	14.4	91,000
					Mar. 12, 1903	12.6	74,200
1895	Apr. 10, 1895	14.8	95,200		Mar. 24, 1903	15.5	103,000
					Aug. 30, 1903	15.2	99,500
1896	Mar. 31, 1896	15.5	103,000				
				1904	Oct. 11, 1903	15.8	106,000
1897	Mar. 25 , 1897	11.3	63,600		Jan. 3, 1904	12.0	69,200
					Mar. 4, 1904	13.7	84,000
1898	Apr. 25, 1898	12.6	74,200		Mar. 27, 1904	17.8	133,000
1899	Mar. 6, 1899	10.5	57,300	1905	Mar. 26, 1905	15.0	97,300
1900	Feb. 23, 1900	11.0	61,200	1906	Dec. 4, 1905	11.0	61,200
1901	Mar. 27, 1901	15.7	105,000	1908	Dec. 11, 1907	11.8	67,600
	Apr. 7, 1901	12.3	71,700		Dec. 24, 1907	12.6	74,200
	Apr. 22, 1901	13.2	79,400		Feb. 16, 1908	14.9	96,200
					Mar. 16, 1908	14.0	87,000
					Mar. 30, 1908	13.6	83,100

Susquehanna River at Towanda, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1909	Feb. 21, 1909	12.0	69,200
	May 2, 1909	15.0	97,300
1910	Jan. 22, 1910	13.0	77,600
	Mar. 2, 1910	18.4	142,000
	Mar. 8, 1910	13.4	81,200
	Apr. 25, 1910	14.3	90,000
1911	Mar. 28, 1911	14.2	89,000
1912	Feb. 27, 1912	12.0	69,200
	Mar. 30, 1912	16.0	109,000
	Apr. 2, 1912	15.0	97,300
	Apr. 8, 1912	12.0	69,200
1913	Jan. 9, 1913	14.3	90,000
	Mar. 28, 1913	20.7	146,000
1914	Mar. 29, 1914	20.4	173,000
	Apr. 9, 1914	14.1	88,000
	May 13, 1914	15.0	97,300
1915	Jan. 8, 1915	13.8	85,000
	Feb. 16, 1915	12.8	75,900
	Feb. 25, 1915	17.5	129,000
	July 9, 1915	17.5	129,000
1916	Mar. 31, 1916	18.3	140,000
	Apr. 15, 1916	13.3	80,300
	June 18, 1916	12.4	72,600
1917	Mar. 28, 1917	12.2	70,900
1918	Oct. 31, 1917	12.2	70,900
	Feb. 21, 1918	13.8	85,000
	Mar. 2, 1918	14.7	94,200
	Mar. 15, 1918	17.2	124,000
1919	May 23, 1919	12.4	72,600
1920	Mar. 13, 1920	17.2	124,000
	Mar. 17, 1920	12.6	74,200
	Mar. 28, 1920	12.6	74,200
1921	Mar. 10, 1921	12.3	71,700
1922	Nov. 29, 1921	15.6	104,000
	Feb. 24, 1922	12.4	72,600
	Mar. 8, 1922	13.6	83,100
1923	Mar. 4, 1923	13.4	81,200
	Apr. 6, 1923	12.4	72,600
1924	Apr. 7, 1924	17.8	133,000
1925	Oct. 1, 1924	16.8	119,000
	Feb. 12, 1925	18.7	146,000
1926	Mar. 26, 1926	13.5	82,200
	Apr. 9, 1926	13.6	83,100
1927	Nov. 17, 1926	16.6	116,000
	Mar. 15, 1927	14.9	96,200
	Mar. 21, 1927	13.0	77,600
	May 25, 1927	14.8	95,200
1928	Oct. 20, 1927	17.3	126,000
	Nov. 18, 1927	13.6	83,100
	Mar. 27, 1928	12.2	70,900
	May 1, 1928	13.2	79,400
1929	Mar. 17, 1929	16.8	119,000
	Apr. 22, 1929	19.9	165,000
1930	Mar. 8, 1930	12.1	65,100
1931	Mar. 29, 1931	12.4	67,500
1932	Apr. 1, 1932	14.76	88,000
	Apr. 3, 1932	14.1	81,700
1933	Aug. 25, 1933	12.9	71,500
1934	Mar. 6, 1934	13.6	77,400
1935	Jan. 10, 1935	16.5	99,500
	July 9, 1935	21.1	144,000
1936	Mar. 13, 1936	22.34	157,000
	Mar. 19, 1936	25.03	188,000
1937	Jan. 23, 1937	13.1	73,300
	Jan. 26, 1937	12.9	71,700
1938	Jan. 26, 1938	11.74	62,100
1939	Feb. 21, 1939	19.13	128,000
	Mar. 28, 1939	12.57	69,300
1940	Apr. 1, 1940	23.84	176,000
	Apr. 5, 1940	19.75	134,000
	Apr. 9, 1940	18.13	118,000
	Apr. 22, 1940	12.87	71,700
1941	Apr. 6, 1941	18.47	122,000
1942	Mar. 10, 1942	17.21	109,000
	Mar. 18, 1942	15.27	92,200
	May 24, 1942	13.06	73,300
1943	Dec. 31, 1942	23.30	171,000
	Mar. 18, 1943	14.70	86,800
	Apr. 22, 1943	12.88	71,700
	May 13, 1943	13.25	74,100
	May 22, 1943	12.57	69,300
1944	Mar. 18, 1944	13.98	81,300
	May 8, 1944	13.85	79,700
1945	Mar. 4, 1945	16.15	99,400
	Mar. 7, 1945	13.04	73,300
	Mar. 18, 1945	14.40	84,500
	Mar. 22, 1945	15.51	93,300
1946	Mar. 10, 1946	14.41	84,500
	May 29, 1946	25.08	191,000
	June 3, 1946	12.61	70,100
1947	Mar. 26, 1947	13.15	74,900
	Apr. 6, 1947	19.60	132,000
	June 4, 1947	13.15	74,900
1948	Mar. 17, 1948	16.71	104,000
	Mar. 23, 1948	23.04	168,000
	Apr. 15, 1948	14.06	82,100
1949	Dec. 31, 1948	12.88	72,500
	Jan. 7, 1949	12.77	71,700
1950	Mar. 29, 1950	21.18	148,000
	Apr. 5, 1950	16.72	102,000

Susquehanna River at Towanda, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 27, 1950	17.96	115,000	1955	Mar. 2, 1955	14.82	84,300
	Dec. 5, 1950	15.93	94,200				
	Dec. 9, 1950	13.50	73,500	1956	Oct. 16, 1955	18.96	124,000
	Mar. 31, 1951	18.91	124,000		Mar. 8, 1956	22.28	160,000
					Apr. 5, 1956	18.27	118,000
1952	Mar. 12, 1952	17.59	111,000				
	Apr. 6, 1952	13.16	71,100	1957	Jan. 24, 1957	13.63	74,300
					Apr. 7, 1957	15.56	91,500
1953	Dec. 12, 1952	15.61	91,500				
	Mar. 25, 1953	13.62	74,300	1958	Apr. 8, 1958	20.86	144,000
					Apr. 23, 1958	13.39	72,000
1954	May 4, 1954	12.48	65,500				

5320. Towanda Creek near Monroeton, Pa.

Location.--Lat 41°42'25", long 76°28'20", at Lehigh Valley Railroad bridge, 1,000 ft upstream from South Branch Towanda Creek, and half a mile south of Monroeton, Bradford County.

Drainage area.--215 sq mi.

Gage.--Nonrecording gage prior to Oct. 1, 1942; recording gage thereafter. Prior to Oct. 1, 1942 at site 1 mile upstream at datum 20.44 ft higher. Datum of present gage is 753.70 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 9,500 cfs and extended on basis of slope-area and contracted-opening measurements.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 4,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Jan. 31, 1914	6.9	6,900	1923	Mar. 16, 1923	5.0	3,380
	Mar. 28, 1914	7.07	7,960				
	May 13, 1914	6.3	5,530	1924	Jan. 11, 1924	7.3	7,900
					Apr. 6, 1924	8.6	12,200
1915	Jan. 7, 1915	8.8	12,900		May 12, 1924	5.9	4,720
	Jan. 19, 1915	6.8	6,650		Sept. 30, 1924	7.8	9,400
	Feb. 15, 1915	6.9	6,900				
	Feb. 24, 1915	6.7	6,410	1925	Feb. 11, 1925	7.25	7,650
	July 8, 1915	10.31	19,900				
	Aug. 6, 1915	7.0	7,150	1926	Nov. 13, 1925	5.5	3,960
1916	Mar. 30, 1916	6.8	7,080	1927	Nov. 16, 1926	11.0	22,000
	Apr. 14, 1916	6.0	4,920		Nov. 19, 1926	6.4	5,740
	June 16, 1916	6.5	5,960		Jan. 22, 1927	[a]6.3	——
					Mar. 14, 1927	6.3	5,530
1917	Jan. 14, 1917	5.7	4,340		Apr. 22, 1927	5.8	4,530
	Aug. 9, 1917	9.5	15,700	1928	Oct. 19, 1927	8.5	11,800
					Nov. 18, 1927	5.8	4,530
1918	Oct. 30, 1917	5.7	4,340		Dec. 8, 1927	6.5	5,960
	Feb. 26, 1918	7.0	7,150		Apr. 30, 1928	7.4	8,200
	Mar. 14, 1918	8.0	10,000		June 6, 1928	7.1	7,400
	Apr. 15, 1918	6.8	6,650		June 30, 1928	7.0	7,150
				1929	Feb. 26, 1929	5.7	4,340
1919	Mar. 9, 1919	5.7	4,340		May 2, 1929	7.6	8,800
	July 22, 1919	8.8	12,900				
				1930	Mar. 8, 1930	6.4	5,740
1920	Mar. 5, 1920	7.0	7,150				
	Mar. 12, 1920	7.8	9,400	1931	Apr. 2, 1931	5.52	4,310
	July 24, 1920	6.5	5,960				
				1932	Mar. 31, 1932	5.7	4,340
1921	Apr. 23, 1921	5.7	4,340				
				1933	Nov. 19, 1932	5.8	4,530
1922	Mar. 7, 1922	7.6	8,800		Aug. 24, 1933	10.2	18,500
	June 3, 1922	6.2	5,320		Sept. 4, 1933	8.7	12,500

Towanda Creek near Monroeton, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Nov. 19, 1932	5.8	4,530
	Aug. 24, 1933	10.2	18,500
	Sept. 4, 1933	8.7	12,500
1934	Sept. 17, 1934	6.8	6,650
1935	Dec. 1, 1934	7.5	8,500
1936	Nov. 13, 1935	6.0	4,920
	Mar. 12, 1936	10.12	18,100
	Mar. 18, 1936	10.78	21,200
1937	Jan. 22, 1937	6.0	2,950
1938	Oct. 23, 1937	5.7	4,340
	Oct. 28, 1937	5.8	4,530
	Nov. 13, 1937	6.4	5,740
1939	Dec. 10, 1938	7.3	7,300
	Feb. 15, 1939	7.0	7,150
	Feb. 20, 1939	6.4	5,740
1940	Mar. 30, 1940	10.0	17,700
	Apr. 4, 1940	7.1	7,400
	Apr. 20, 1940	6.6	6,180
	July 23, 1940	5.8	4,530
1941	Apr. 5, 1941	7.8	8,643
1942	Dec. 24, 1941	6.65	6,180
	Mar. 9, 1942	7.82	8,640
	May 23, 1942	7.9	8,860
	Sept. 27, 1942	6.2	5,390
1943	Dec. 30, 1942	8.09	10,100
	Apr. 20, 1943	6.36	5,020
1944	Oct. 28, 1943	6.12	4,490
	Nov. 9, 1943	7.55	7,950
	May 7, 1944	9.70	16,800
	June 24, 1944	6.54	5,450
1945	Mar. 3, 1945	6.53	5,470
1946	Mar. 9, 1946	6.74	5,980
	May 28, 1946	12.53	31,300
1947	Mar. 14, 1947	6.55	6,030
	Apr. 5, 1947	10.33	19,800
	May 25, 1947	7.50	8,460
1948	Mar. 16, 1948	5.83	4,520
	Apr. 14, 1948	6.70	6,260
1949	Nov. 20, 1948	6.42	5,600
	Dec. 30, 1948	6.62	6,030
1950	Mar. 28, 1950	7.29	7,850
	Apr. 4, 1950	5.83	4,520
	Sept. 1, 1950	7.38	8,150
1951	Nov. 25, 1950	11.77	27,400
	Dec. 4, 1950	7.11	7,280
	Dec. 8, 1950	7.04	7,010
	Jan. 24, 1951	5.83	4,520
	Feb. 7, 1951	6.21	5,190
	Mar. 30, 1951	6.84	6,500
1952	Mar. 11, 1952	10.38	20,300
1953	Dec. 11, 1952	7.91	10,200
	Jan. 24, 1953	5.46	4,490
	Mar. 24, 1953	6.62	6,590
1954	Mar. 1, 1954	5.33	4,530
	May 4, 1954	9.56	16,600
1955	Dec. 30, 1954	5.42	4,800
1956	Oct. 14, 1955	7.87	10,500
	Mar. 6, 1956	5.84	5,490
	Mar. 8, 1956	6.39	6,630
	Apr. 4, 1956	5.08	4,320
1957	Nov. 2, 1956	9.17	15,000
	Apr. 6, 1957	8.59	12,800
1958	Dec. 21, 1957	6.80	7,490
	Apr. 7, 1958	6.21	6,230
	Apr. 22, 1958	6.83	7,490

[a]Backwater from ice

5335. North Fork Mehoopany Creek near Lovelton, Pa.

Location. --Lat 41°31'50", long 76°09'20", 0.5 mile upstream from bridge on State Highway 87, 0.5 mile downstream from Douglas Hollow, 1.7 miles east of Lovelton, Wyoming County, and 2.1 miles upstream from mouth.

Drainage area. --35.2 sq mi.

Gage. --Nonrecording gage prior to April 4, 1941; recording gage thereafter. Datum of gage is 842.67 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 3,400 cfs and extended by logarithmic plotting.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 600 cfs.

North Fork Mehoopany Creek near Lovelton, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Apr. 6, 1941	4.26	624	1951	Nov. 25, 1950	8.54	8,290
					Dec. 4, 1950	6.17	2,360
1942	Dec. 24, 1941	4.46	727		Dec. 8, 1950	5.72	1,700
	Feb. 17, 1942	[a]5.0	—		Jan. 24, 1951	5.46	1,420
	Mar. 9, 1942	4.98	1,020		Feb. 1, 1951	4.78	816
	May 22, 1942	5.52	1,470		Feb. 7, 1951	5.66	1,640
					Mar. 30, 1951	4.89	902
1943	Dec. 30, 1942	5.33	1,320		Apr. 12, 1951	4.99	982
1944	Nov. 9, 1943	5.35	1,320	1952	Mar. 11, 1952	8.76	9,300
	May 7, 1944	4.95	985		May 12, 1952	4.65	775
	May 23, 1944	4.47	684		May 25, 1952	4.88	936
	June 24, 1944	4.31	600				
				1953	Nov. 22, 1952	4.74	838
1945	Feb. 22, 1945	[a]5.52	—		Dec. 11, 1952	6.15	2,240
	Feb. 27, 1945	4.15	502		Jan. 24, 1953	4.50	603
					Mar. 26, 1953	4.55	636
1946	Mar. 9, 1946	4.52	620				
	May 27, 1946	8.28	7,640	1954	Feb. 17, 1954	4.66	708
					Mar. 1, 1954	5.00	960
1947	Mar. 14, 1947	5.09	1,080		Apr. 17, 1954	5.00	960
	Apr. 5, 1947	7.16	4,340				
				1955	Dec. 30, 1954	4.50	603
1948	Mar. 21, 1948	5.32	1,270		Aug. 13, 1955	5.83	1,840
	Apr. 14, 1948	4.74	788		Aug. 18, 1955	5.93	1,960
	June 27, 1948	4.69	753				
				1956	Oct. 15, 1955	7.86	6,220
1949	Dec. 30, 1948	5.19	1,160		Oct. 30, 1955	4.85	778
	Apr. 14, 1949	5.45	1,420		Nov. 16, 1955	4.84	768
	May 20, 1949	4.73	781		Mar. 8, 1956	5.28	1,200
1950	Mar. 8, 1950	5.43	1,420	1957	Apr. 6, 1957	5.80	1,780
	Mar. 28, 1950	5.74	1,760				
	Apr. 4, 1950	4.61	697	1958	Dec. 20, 1957	6.46	2,740
					Dec. 26, 1957	4.75	770
					Apr. 6, 1958	5.48	1,440
					Apr. 22, 1958	4.92	896

[a]Backwater from ice

5340. Tunkhannock Creek at Dixon, Pa.

Location. --Lat 41°33'30", long 75°53'40", on left bank 20 ft downstream from abandoned highway bridge, 300 feet upstream from bridge on U. S. Highway 6 at Dixon, Wyoming County, 3 miles northeast of Tunkhannock and 4 miles upstream from mouth.

Drainage area. --383 sq mi.

Gage. --Nonrecording gage prior to Aug. 10, 1938; recording gage thereafter. Datum of gage is 610.50 ft above mean sea level (Pennsylvania State Highway benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 5,200 cfs and extended on basis of contracted-opening measurement of peak flow.

Bankfull stage. --9 ft.

Remarks. --Base for partial-duration series, 5,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 28, 1914	9.99	14,400	1916	Dec. 26, 1915	7.1	6,120
	Apr. 9, 1914	7.6	7,280		Mar. 30, 1916	10.7	16,800
					Apr. 14, 1916	7.15	6,340
1915	Jan. 13, 1915	8.2	8,880				
	Feb. 15, 1915	7.8	7,800	1917	Jan. 14, 1917	7.05	5,900
					Feb. 27, 1917	6.9	5,700

Tunkhannock Creek at Dixon, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Oct. 30, 1917	11.7	20,900
	Feb. 20, 1918	9.2	11,800
	Feb. 26, 1918	7.5	7,040
	Mar. 14, 1918	7.7	7,540
1919	Apr. 12, 1919	5.9	3,990
1920	Nov. 27, 1919	8.8	10,600
	Mar. 6, 1920	9.3	12,100
	Mar. 12, 1920	10.0	14,400
	Mar. 17, 1920	7.4	6,800
	Mar. 27, 1920	7.25	6,340
	July 24, 1920	7.5	7,040
	Sept. 12, 1920	8.1	8,600
1921	Oct. 1, 1920	9.3	12,100
	Dec. 1, 1920	7.3	6,560
	Dec. 14, 1920	8.0	8,320
	Mar. 3, 1921	7.0	5,900
	Mar. 10, 1921	8.1	8,600
1922	Nov. 29, 1921	8.3	9,160
	Mar. 8, 1922	7.7	7,540
	June 18, 1922	12.0	22,200
	June 29, 1922	8.1	8,600
1923	Mar. 16, 1923	7.5	7,040
1924	Jan. 11, 1924	7.4	6,800
	Apr. 6, 1924	10.1	14,800
	Sept. 30, 1924	13.1	27,400
1925	Feb. 11, 1925	11.3	19,200
1926	Apr. 9, 1926	7.1	5,810
1927	Oct. 6, 1926	11.2	18,800
	Nov. 16, 1926	9.6	13,000
1928	Oct. 19, 1927	11.05	18,000
	Nov. 18, 1927	7.4	6,290
	Dec. 8, 1927	7.8	7,800
	Feb. 22, 1928	7.2	5,970
	June 6, 1928	7.2	5,970
	June 30, 1928	8.7	10,300
1929	Mar. 14, 1929	7.2	5,970
1930	Dec. 20, 1929	7.0	5,750
1931	July 10, 1931	6.9	5,590
1932	Feb. 10, 1932	9.8	13,700
	Apr. 1, 1932	7.9	8,060
1933	Oct. 6, 1932	9.0	11,200
	Nov. 1, 1932	6.9	5,700
	Nov. 19, 1932	8.8	10,600
	Aug. 24, 1933	11.1	18,400
	Sept. 4, 1933	6.9	5,700
	Sept. 16, 1933	7.8	7,800
1934	Mar. 5, 1934	7.4	6,800
	Sept. 17, 1934	9.0	11,200
1935	Dec. 1, 1934	9.7	13,400
1936	Nov. 13, 1935	10.8	17,200
	Mar. 12, 1936	9.6	13,000
	Mar. 18, 1936	11.36	19,600
1937	Jan. 25, 1937	6.86	5,620
1938	Oct. 23, 1937	10.60	16,500
	Dec. 18, 1937	7.4	6,470
	Jan. 25, 1938	7.5	6,650
	Sept. 22, 1938	7.44	6,470
1939	Dec. 6, 1938	9.00	11,200
	Dec. 10, 1938	8.34	9,160
	Feb. 15, 1939	9.90	14,000
	Feb. 20, 1939	7.63	6,830
1940	Mar. 31, 1940	13.50	29,400
	Apr. 5, 1940	7.76	7,800
	Apr. 8, 1940	7.25	5,840
1941	Apr. 6, 1941	6.95	5,500
1942	Mar. 9, 1942	7.36	6,800
	May 23, 1942	12.45	24,000
1943	Nov. 25, 1942	7.90	8,060
	Dec. 2, 1942	8.46	9,720
	Dec. 30, 1942	11.95	22,200
	Feb. 24, 1943	7.05	5,900
	Mar. 17, 1943	7.72	7,540
	Mar. 20, 1943	7.66	7,540
	May 21, 1943	7.44	6,800
	May 26, 1943	6.89	5,700
1944	Nov. 9, 1943	9.97	14,400
	Apr. 25, 1944	7.00	5,900
1945	Feb. 27, 1945	7.29	6,560
	Mar. 4, 1945	8.44	9,440
	July 29, 1945	7.51	6,430
1946	May 21, 1946	9.03	11,200
	May 28, 1946	11.60	20,400
1947	Mar. 14, 1947	7.86	8,060
	Mar. 25, 1947	7.71	7,540
	Apr. 5, 1947	13.96	32,200
	July 8, 1947	8.00	8,320
1948	Mar. 16, 1948	8.75	10,600
	Mar. 22, 1948	8.08	8,600
	Apr. 14, 1948	8.17	8,880
	June 28, 1948	7.06	6,120
1949	Dec. 30, 1948	8.94	10,900
	Jan. 6, 1949	8.49	9,720
1950	Dec. 13, 1949	7.15	6,340
	Mar. 9, 1950	7.22	6,340
	Mar. 28, 1950	9.72	13,400
1951	Nov. 26, 1950	13.19	28,000
	Dec. 4, 1950	13.21	28,000
	Feb. 7, 1951	7.68	7,540
	Mar. 20, 1951	6.88	5,700
1952	Jan. 27, 1952	7.13	6,120
	Mar 11, 1952	11.70	20,900
	Apr. 15, 1952	8.08	18,600
	May 26, 1952	6.92	5,700
	July 10, 1952	7.61	7,280
1953	Dec. 11, 1952	9.76	13,700
	Jan. 24, 1953	7.78	7,800
	Mar. 26, 1953	7.48	7,040

Tunkhannock Creek at Dixon, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Mar. 2, 1954	7.27	6,720	1957	Apr. 6, 1957	9.92	14,000
	Apr. 17, 1954	10.36	15,800	1958	Dec. 21, 1957	8.13	8,610
1955	Aug. 19, 1955	7.92	8,150		Dec. 26, 1957	7.40	7,000
					Feb. 28, 1958	6.68	5,700
1956	Oct. 16, 1955	12.95	26,700		Apr. 7, 1958	8.67	10,300
	Oct. 30, 1955	7.21	6,630				
	Nov. 16, 1955	7.26	6,800				
	Feb. 25, 1956	6.92	6,060				
	Mar. 8, 1956	8.61	10,000				

5345. Lackawanna River at Archbald, Pa.

Location. --Lat 41°30'15", long 75°32'35", on right bank in Archbald, Lackawanna County, 0.5 mile upstream from White Oak Run, and Gilmartin Street Bridge.

Drainage area. --108 sq mi.

Gage. --Recording gage. Datum of gage is 889.33 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,200 cfs and extended above on basis of slope-area measurement of peak flow.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 2,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	7.36	4,680	1949	Dec. 30, 1948	—	3,300
	Apr. 4, 1940	5.40	2,440		Jan. 6, 1949	5.41	2,430
	Apr. 9, 1940	5.74	2,740				
	Sept. 1, 1940	5.34	2,340	1950	Mar. 28, 1950	5.76	2,840
1941	Apr. 6, 1941	4.98	2,050		Apr. 5, 1950	5.13	2,160
				1951	Nov. 25, 1950	7.43	4,920
1942	May 22, 1942	10.58	9,510		Dec. 4, 1950	6.29	3,500
					Mar. 31, 1951	5.33	2,380
1943	Dec. 30, 1942	5.87	2,960				
	Mar. 17, 1943	5.27	2,300	1952	Apr. 15, 1952	5.84	2,960
1944	Nov. 9, 1943	6.22	3,380	1953	Dec. 11, 1952	5.72	2,780
					Jan. 25, 1953	5.25	2,260
1945	July 19, 1945	5.46	2,520				
				1954	Apr. 17, 1954	5.09	2,110
1946	May 28, 1946	6.32	3,500				
	July 2, 1946	5.09	2,150	1955	Aug. 19, 1955	7.50	5,050
1947	Apr. 5, 1947	8.11	5,880	1956	Oct. 15, 1955	8.02	5,770
	May 22, 1947	6.15	3,380				
	July 8, 1947	5.63	2,720	1957	Apr. 6, 1957	5.20	2,210
1948	Mar. 21, 1948	5.58	2,660	1958	Dec. 21, 1957	5.45	2,480
					Apr. 6, 1958	5.60	2,660

5355. Lackawanna River at Moosic, Pa.

Location. --Lat 41°21'30", long 75°43'50", at highway bridge at River Street or Moosic Road, at Moosic, Lackawanna County, and 0.4 mile above Spring Brook.

Drainage area. --264 sq mi.

Gage. --Nonrecording gage. Datum of gage is 619.46 ft above mean sea level, datum unknown.

Stage-discharge relation. --Defined by current-meter measurements below 3,800 cfs and extended on basis of slope-area measurements of peak flow.

Remarks. --Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 28, 1914	8.00	7,520	1923	Mar. 23, 1923	4.8	2,460
	July 10, 1914	8.13	7,710				
	Jan. 19, 1914	4.85	2,400	1924	Jan. 11, 1924	5.2	2,840
					Jan. 16, 1924	5.0	2,580
1915	Feb. 16, 1915	5.6	3,460		Apr. 7, 1924	6.2	4,360
	Feb. 25, 1915	5.1	2,700		May 13, 1924	4.9	2,460
					Sept. 30, 1924	8.49	8,500
1916	Apr. 2, 1916	6.8	5,360				
	Apr. 14, 1916	5.8	3,720	1925	Feb. 11, 1925	6.7	5,580
	Apr. 27, 1916	5.0	2,580				
				1926	Nov. 16, 1925	4.7	2,340
1917	Mar. 24, 1917	5.2	2,840				
				1927	Nov. 16, 1926	8.0	7,520
1918	Oct. 31, 1917	8.8	9,100		Jan. 22, 1927	5.0	2,580
	Feb. 20, 1918	5.35	3,120		Mar. 14, 1927	5.8	3,720
	Feb. 26, 1918	4.9	2,460		Mar. 21, 1927	4.9	2,460
	Apr. 18, 1918	4.9	2,460		May 25, 1927	5.2	2,840
1919	May 10, 1919	4.5	2,020	1928	Oct. 19, 1927	9.3	10,200
					Nov. 17, 1927	6.6	5,020
1920	Nov. 27, 1919	5.0	2,580		Dec. 8, 1927	6.0	4,040
	Mar. 5, 1920	5.1	2,710		Mar. 27, 1928	5.1	2,710
	Mar. 13, 1920	7.7	6,950		Apr. 24, 1928	4.95	2,580
	Mar. 27, 1920	5.1	2,710		May 1, 1928	5.8	3,720
	July 24, 1920	6.3	4,520		June 29, 1928	6.6	6,770
					July 5, 1928	5.7	3,570
1921	Dec. 2, 1920	5.0	2,580		July 13, 1928	6.1	4,200
	Mar. 10, 1921	5.4	3,300				
1922	Nov. 29, 1921	6.6	5,380				
	Dec. 3, 1921	5.1	2,710				
	Feb. 24, 1922	5.2	2,840				
	Mar. 8, 1922	5.1	2,710				
	Apr. 15, 1922	5.3	2,980				
	June 18, 1922	6.1	4,200				
	June 29, 1922	5.3	2,980				
	July 1, 1922	6.0	4,040				

5360. Lackawanna River at Old Forge, Pa.

Location. --Lat 41°21'30", long 75°44'40", on right bank 150 ft upstream from Delaware, Lackawanna and Western Railroad bridge and 0.5 mile upstream from St. Johns Creek.

Drainage area. --332 sq mi.

Gage. --Recording gage. Datum of gage is 595.26 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 5,000 cfs and extended on basis of slope-area measurement.

Bankfull stage. --11 ft.

Remarks. --Base for partial-duration series, 4,200 cfs.

Lackawanna River at Old Forge, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Dec. 6, 1938	7.71	6,980	1949	Dec. 30, 1948	8.11	8,340
	Feb. 15, 1939	7.89	7,320		Jan. 6, 1949	6.69	5,920
1940	Mar. 31, 1940	11.86	14,300	1950	Mar. 9, 1950	5.76	4,410
	Apr. 5, 1940	6.67	5,290		Mar. 28, 1950	7.92	7,960
	Apr. 9, 1940	6.70	5,290		Apr. 5, 1950	6.20	5,070
1941	Apr. 6, 1941	5.61	4,130	1951	Nov. 25, 1950	8.81	9,490
					Dec. 4, 1950	9.80	11,300
1942	May 23, 1942	15.30	20,900		Mar. 31, 1951	5.70	4,270
1943	Nov. 25, 1942	6.15	4,530	1952	Mar. 11, 1952	7.44	7,110
	Dec. 30, 1942	8.53	8,340		Apr. 15, 1952	7.71	7,620
					May 26, 1952	6.60	5,750
1944	Nov. 9, 1943	7.52	6,740				
	Apr. 25, 1944	6.00	4,440	1953	Dec. 11, 1952	7.87	7,960
					Jan. 24, 1953	6.97	6,430
1945	Mar. 4, 1945	—	—		Mar. 26, 1953	5.66	4,270
	July 19, 1945	8.15	7,860				
	Sept. 2, 1945	6.56	5,340	1954	Apr. 17, 1954	6.59	5,750
1946	May 28, 1946	8.47	8,510	1955	Aug. 19, 1955	20.05	31,000
	July 31, 1946	6.44	5,190				
				1956	Oct. 16, 1955	9.53	10,800
1947	Mar. 14, 1947	6.00	4,440				
	Apr. 5, 1947	10.72	12,200	1957	Apr. 6, 1957	7.29	6,940
	May 22, 1947	7.77	7,220		Apr. 8, 1957	5.70	4,220
	July 8, 1947	8.98	9,190				
				1958	Dec. 21, 1957	6.27	5,240
1948	Mar. 16, 1948	6.00	4,590		Apr. 6, 1958	7.90	7,960
	Mar. 21, 1948	6.26	5,190				
	Apr. 14, 1948	6.21	4,740				

5365. Susquehanna River at Wilkes-Barre, Pa.

Location. --Lat 41°15'00", long 75°52'55", on left bank at foot of West Union Street, Wilkes-Barre, Luzerne County, 800 ft downstream from North Street Bridge and 1.6 miles upstream from Toby Creek.

Drainage area. --9,960 sq mi.

Gage. --Nonrecording gage prior to Oct. 30, 1929; recording gage Oct. 31, 1929 to Oct. 15, 1943; nonrecording gage Oct. 16, 1943 to Mar. 23, 1949; recording gage thereafter. At numerous sites within 1,300 ft of present site. Datum of gage is 512.07 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --22 ft.

Remarks. --Base for partial-duration series, 82,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1787	Oct. 5, 1786	29	189,000	1891	Jan. 24, 1891	26.8	164,000
					Feb. 19, 1891	23.5	130,000
1807	Apr. 1807	30	202,000		Feb. 27, 1891	23.0	125,000
					Mar. 24, 1891	18.0	80,500
1809	July 1809	20	95,200				
				1892	Jan. 14, 1892	20.0	97,100
1833	May 14, 1833	28	176,000		Jan. 23, 1892	18.0	72,800
					Feb. 26, 1892	20.0	97,100
1865	Mar. 18, 1865	33.1	232,000		Mar. 28, 1892	17.0	72,800
					Apr. 4, 1892	21.6	112,000

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1893	Feb. 16, 1893	18.0	80,500
	Mar. 11, 1893	[a]28.7	—
	May 5, 1893	22.0	115,000
1894	Mar. 8, 1894	19.0	88,600
	May 21, 1894	20.0	97,100
1895	Mar. 3, 1895	[a]27.0	—
	Apr. 10, 1895	21.8	113,000
1896	Jan. 1, 1896	19.0	88,600
	Feb. 7, 1896	19.0	88,600
	Mar. 3, 1896	17.0	72,800
	Mar. 21, 1896	17.0	72,800
	Apr. 1, 1896	24.0	135,000
1897	Oct. 15, 1896	19.0	88,600
	Mar. 26, 1897	17.0	72,800
1898	Jan. 16, 1898	[a]21.8	—
	Apr. 26, 1898	17.8	78,900
1899	Jan. 7, 1899	[a]25.0	—
	Mar. 6, 1899	18.2	82,100
1900	Jan. 21, 1900	18.8	86,800
	Feb. 9, 1900	[a]17.8	—
	Mar. 2, 1900	19.7	94,500
1901	Nov. 28, 1900	22.0	115,000
	Mar. 12, 1901	[a]21.5	—
	Mar. 28, 1901	21.6	112,000
	Apr. 8, 1901	18.2	82,100
	Apr. 23, 1901	19.2	90,300
	May 31, 1901	17.8	78,900
1902	Dec. 15, 1901	27.0	166,000
	Jan. 23, 1902	[a]18.2	—
	Mar. 2, 1902	31.4	213,000
	Mar. 18, 1902	20.4	101,000
1903	Dec. 23, 1902	18.2	82,100
	Jan. 31, 1903	17.7	78,200
	Feb. 5, 1903	19.5	92,800
	Mar. 2, 1903	21.4	110,000
	Mar. 10, 1903	19.6	93,700
	Mar. 12, 1903	19.3	91,100
	Mar. 25, 1903	22.4	119,000
	Aug. 30, 1903	20.5	101,000
1904	Oct. 11, 1903	21.7	112,000
	Jan. 23, 1904	20.5	101,000
	Feb. 10, 1904	25.7	152,000
	Mar. 9, 1904	30.6	204,000
	Mar. 27, 1904	22.9	124,000
1905	Mar. 26, 1905	23.4	129,000
1906	Apr. 1, 1906	18.1	81,300
1907	Mar. 16, 1907	16.0	65,500
1908	Dec. 12, 1907	19.8	95,400
	Dec. 25, 1907	18.7	86,100
	Feb. 17, 1908	23.5	130,000
	Mar. 16, 1908	21.0	106,000
	Mar. 30, 1908	20.2	98,800
1909	Feb. 21, 1909	18.6	85,300
	Feb. 26, 1909	18.6	85,300
	Apr. 15, 1909	17.9	79,700
	May 2, 1909	23.0	125,000
1910	Jan. 23, 1910	19.6	93,700
	Mar. 3, 1910	26.1	157,000
	Apr. 25, 1910	21.6	112,000
1911	Mar. 29, 1911	19.7	94,500
	Apr. 8, 1911	17.2	74,300
1912	Mar. 19, 1912	17.9	79,700
	Mar. 31, 1912	22.0	115,000
	Apr. 3, 1912	23.2	127,000
1913	Jan. 9, 1913	20.2	97,200
	Mar. 28, 1913	28.5	184,000
1914	Feb. 1, 1914	17.1	70,800
	Mar. 29, 1914	28.3	182,000
	Apr. 9, 1914	21.3	107,000
	Apr. 21, 1914	17.3	72,400
	May 14, 1914	21.0	105,000
1915	Jan. 9, 1915	18.8	84,900
	Jan. 20, 1915	17.5	74,000
	Feb. 17, 1915	18.8	84,900
	Feb. 26, 1915	23.3	127,000
	July 10, 1915	22.6	120,000
1916	Apr. 2, 1916	26.5	160,000
	June 18, 1916	17.0	70,000
1917	Mar. 28, 1917	17.7	75,700
1918	Oct. 30, 1917	18.1	79,000
	Feb. 21, 1918	17.5	74,100
	Mar. 2, 1918	18.9	85,700
	Mar. 15, 1918	23.0	124,000
	Apr. 17, 1918	18.3	80,700
1919	May 24, 1919	16.6	66,900
1920	Mar. 13, 1920	26.0	155,000
	Mar. 18, 1920	18.3	80,700
	Mar. 28, 1920	18.4	81,500
1921	Mar. 10, 1921	19.0	86,600
1922	Nov. 29, 1921	22.3	117,000
	Mar. 9, 1922	18.6	83,200
1923	Mar. 5, 1923	19.6	91,800
1924	Apr. 8, 1924	23.5	129,000
1925	Oct. 1, 1924	21.7	111,000
	Feb. 13, 1925	25.1	145,000
1926	Mar. 26, 1926	19.4	90,100
	Apr. 10, 1926	18.6	83,200
1927	Nov. 17, 1926	22.7	121,000
	Mar. 15, 1927	19.7	92,700
	Mar. 22, 1927	17.4	73,300
	May 26, 1927	18.9	85,700
1928	Oct. 20, 1927	24.7	141,000
	Nov. 19, 1927	17.9	77,400
	Mar. 28, 1928	17.2	71,600
	May 1, 1928	20.2	97,200
	June 27, 1928	17.1	70,800
1929	Mar. 17, 1929	23.1	125,000
	Apr. 22, 1929	26.4	159,000

Susquehanna River at Wilkes-Barre, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 9, 1930	16.7	67,600
1931	Mar. 30, 1931	17.6	74,700
1932	Apr. 2, 1932	20.5	107,000
1933	Aug. 25, 1933	19.72	99,800
1934	Mar. 6, 1934	18.0	85,500
1935	Jan. 11, 1935	20.75	107,000
	July 10, 1935	25.39	151,000
1936	Mar. 13, 1936	28.60	184,000
	Mar. 20, 1936	33.07	232,000
1937	Jan. 23, 1937	17.15	77,300
1938	Sept. 24, 1938	14.70	64,900
1939	Feb. 22, 1939	23.80	137,000
	Mar. 28, 1938	16.90	82,300
1940	Apr. 1, 1940	31.53	212,000
	Apr. 22, 1940	18.48	93,000
1941	Apr. 7, 1941	23.50	138,000
1942	Mar. 11, 1942	20.62	111,000
	Mar. 19, 1942	18.68	94,600
	May 24, 1942	17.20	82,600
1943	Jan. 1, 1943	29.37	191,000
	Mar. 18, 1943	19.40	101,000
1944	May 9, 1944	18.5	90,000
1945	Mar. 5, 1945	21.8	119,000
	Mar. 18, 1945	19.2	95,800
	Mar. 23, 1945	19.4	97,600
1946	Mar. 10, 1946	19.1	94,800
	May 29, 1946	32.01	210,000
1947	Apr. 7, 1947	24.88	151,000
1948	Mar. 18, 1948	21.48	118,000
	Mar. 23, 1948	28.76	193,000
	Apr. 15, 1948	19.36	98,700
1949	Dec. 31, 1948	17.39	82,700
1950	Mar. 30, 1950	27.04	172,000
	Apr. 6, 1950	21.75	119,000
1951	Nov. 27, 1950	21.75	119,000
	Dec. 5, 1950	21.31	114,000
	Apr. 1, 1951	22.72	128,000
1952	Mar. 13, 1952	22.39	124,000
1953	Dec. 12, 1952	19.43	98,000
1954	May 5, 1954	16.85	78,900
1955	Mar. 3, 1955	17.80	85,900
1956	Oct. 16, 1955	26.45	166,000
	Mar. 9, 1956	28.17	186,000
	Apr. 6, 1956	22.50	126,000
1957	Apr. 7, 1957	20.48	107,000
1958	Apr. 8, 1958	26.80	170,000
	Apr. 28, 1958	17.48	83,800

[a]Backwater from ice.

5370. Toby Creek at Luzerne, Pa.

Location.--Lat 41°16'55", long 75°53'45", on right bank 150 ft upstream from bridge on U. S. Highway 309 in Luzerne, Luzerne County, 0.5 mile upstream from outlet works of flood basin and 2.5 miles upstream from mouth.

Drainage area.--32.4 sq mi.

Gage.--Recording gage. Datum of gage is 574.60 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 1,000 cfs and extended above.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 630 cfs.

Toby Creek at Luzerne, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 17, 1942	[a]2.50	—	1951	Nov. 25, 1950	2.58	691
	May 22, 1942	—	[b]1,600		Dec. 4, 1950	3.59	1,580
1943	Dec. 30, 1942	4.8	3,010		Feb. 7, 1951	2.60	705
1944	Oct. 26, 1943	2.59	662	1952	July 9, 1952	2.65	740
	Nov. 9, 1943	3.44	1,420		July 22, 1952	2.94	962
	Mar. 13, 1944	2.78	640	1953	Dec. 11, 1952	2.83	874
1945	July 19, 1945	2.79	822		Jan. 24, 1953	2.96	978
1946	May 28, 1946	4.48	1,800	1954	Apr. 17, 1954	3.21	1,200
	July 2, 1946	3.87	1,210	1955	Aug. 18, 1955	4.33	2,420
	July 31, 1946	5.01	2,440	1956	Oct. 15, 1955	2.56	695
1947	May 22, 1947	2.58	628		Feb. 25, 1956	2.47	634
1948	Mar. 16, 1948	2.79	790	1957	Apr. 6, 1957	3.80	1,840
	Apr. 14, 1948	3.19	1,170	1958	Jan. 22, 1958	3.18	1,240
1949	Dec. 30, 1948	3.20	1,180		Feb. 28, 1958	2.58	721
	Apr. 14, 1949	2.83	874		Apr. 6, 1958	2.55	699
1950	Mar. 8, 1950	2.93	954				
	Mar. 28, 1950	3.06	1,060				

[a]Backwater from ice.
[b]No gage height record, discharge estimated.

5375. Solomon Creek at Wilkes-Barre, Pa.

Location. --Lat 41°13'40", long 75°54'15", at bridge of Central Railroad of Pennsylvania at southwest city limit of Wilkes-Barre, Luzerne County, 0.4 mile downstream from Spring Run, and 3.4 miles upstream from mouth.

Drainage area. --15.7 sq mi.

Gage. --Recording gage. Datum of gage is 548.31 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 350 cfs and extended on basis of computation of flow through culvert.

Bankfull stage. --9 ft.

Remarks. --Base for partial-duration series, 320 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 30, 1940	5.48	1,430	1946	May 28, 1946	2.88	360
1941	June 16, 1941	1.98	233		June 2, 1946	3.04	480
1942	May 22, 1942	5.50	1,380		July 31, 1946	4.90	1,200
	July 6, 1942	2.86	325	1947	May 22, 1947	5.08	1,260
1943	Dec. 30, 1942	3.60	745		July 8, 1947	3.68	837
1944	Oct. 26, 1943	3.96	900		Aug. 17, 1947	6.40	1,610
	Oct. 28, 1943	2.98	408	1948	Apr. 14, 1948	2.95	420
	Nov. 9, 1943	4.06	920	1949	Dec. 30, 1948	3.29	594
1945	July 15, 1945	4.15	960		Jan. 5, 1949	2.94	450
	July 19, 1945	5.14	1,290		May 7, 1949	3.90	860
	July 28, 1945	2.86	336	1950	Mar. 28, 1950	3.18	528
	Sept. 1, 1945	4.50	1,080				

Solomon Creek at Wilkes-Barre, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 25, 1950	4.51	1,080	1954	May 10, 1954	3.04	351
	Dec. 4, 1950	5.32	1,320	Cont.	Aug. 19, 1954	3.28	507
	Jan. 24, 1951	2.95	390		Aug. 29, 1954	3.00	325
	Feb. 7, 1951	2.97	402				
				1955	July 6, 1955	3.50	630
1952	Nov. 3, 1951	3.23	558		Aug. 11, 1955	3.08	377
	Nov. 7, 1951	3.28	504		Aug. 13, 1955	3.25	480
	Mar. 11, 1952	3.90	830		Aug. 18, 1955	9.83	2,450
	May 25, 1952	3.07	370				
	July 9, 1952	4.28	1,000	1956	Oct. 15, 1955	4.40	1,040
	Sept. 2, 1952	4.59	1,110		Oct. 30, 1955	3.52	630
					Nov. 16, 1955	3.53	655
1953	Oct. 2, 1952	3.00	325		Apr. 29, 1956	3.82	780
	Nov. 22, 1952	3.54	688		May 7, 1956	3.50	630
	Dec. 11, 1952	4.16	940		June 23, 1956	3.26	486
	Jan. 6, 1953	3.06	364		Aug. 15, 1956	3.01	332
	Sept. 3, 1953	3.30	520		Sept. 6, 1956	4.38	1,040
	Sept. 5, 1953	3.09	384				
				1957	Apr. 6, 1957	4.67	514
1954	Dec. 6, 1953	4.01	880				
	Mar. 1, 1954	—	—	1958	Feb. 28, 1958	4.34	438

5380. Wapwallopen Creek near Wapwallopen, Pa.

Location. --Lat 41°03'35", long 76°05'40", on left bank 100 ft upstream from Harts Bridge, 2¼ miles southeast of Wapwallopen, Luzerne County, and 3.7 miles upstream from mouth.

Drainage area. --43.8 sq mi.

Gage. --Nonrecording gage prior to Mar. 15, 1930; recording gage thereafter. Datum of gage is 752.41 ft above mean sea level (Pennsylvania Railroad benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 1,300 cfs and extended above.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 580 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 12, 1920	5.60	1,150	1928	Oct. 13, 1927	4.4	635
					Oct. 19, 1927	6.3	1,390
1921	Mar. 3, 1921	4.20	580		Nov. 18, 1927	5.3	955
					Apr. 29, 1928	4.5	670
1922	Nov. 29, 1921	4.60	705		June 29, 1928	6.2	1,340
	Mar. 7, 1922	5.70	1,120		July 22, 1928	4.6	705
	Apr. 15, 1922	5.80	1,160				
				1929	Feb. 27, 1929	[a]5.3	—
1923	Mar. 5, 1923	5.50	1,040		May 3, 1929	4.0	510
	July 28, 1923	5.80	1,160				
				1930	Apr. 7, 1930	4.25	584
1924	Jan. 11, 1924	5.40	995				
	Jan. 16, 1924	5.10	880	1931	May 13, 1931	3.15	295
	July 8, 1924	6.10	1,300				
	Sept. 30, 1924	7.90	2,240	1932	Apr. 1, 1932	4.88	807
					June 17, 1932	4.72	734
1925	Feb. 11, 1925	[a]9.62	—				
	Feb. 12, 1925	6.6	1,540	1933	Oct. 6, 1932	4.35	616
					July 24, 1933	6.00	1,260
1926	Nov. 16, 1925	3.9	480		Aug. 24, 1933	7.31	1,900
					Sept. 4, 1933	4.56	682
1927	Nov. 16, 1926	7.6	2,070		Sept. 16, 1933	5.84	1,170

Wapwallopen Creek near Wapwallopen, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Apr. 1, 1934	5.74	1,120	1947	May 22, 1947	6.50	1,490
					July 8, 1947	6.72	1,590
1935	Dec. 1, 1934	5.82	1,170		Aug. 9, 1947	5.73	1,130
	July 9, 1935	7.05	1,740		Aug. 17, 1947	4.70	766
1936	Nov. 29, 1935	4.98	845	1948	Apr. 14, 1948	4.87	818
	Mar. 12, 1936	6.37	1,440		July 13, 1948	6.06	1,300
	Mar. 18, 1936	6.58	1,540				
	Mar. 21, 1936	4.23	584	1949	Dec. 30, 1948	5.36	1,010
					Jan. 5, 1949	4.66	750
1937	Jan. 25, 1937	4.01	511		Jan. 31, 1949	[a]4.26	—
					May 7, 1949	5.39	1,010
1938	Oct. 23, 1937	6.80	1,640				
	Dec. 18, 1937	[a]5.96	—	1950	Mar. 28, 1950	5.18	940
	June 27, 1938	4.68	735				
	July 22, 1938	4.93	827	1951	Nov. 25, 1950	7.69	2,140
	July 23, 1938	5.07	866		Dec. 4, 1950	8.28	2,500
					Jan. 24, 1951	4.29	636
1939	Dec. 6, 1938	5.61	1,080		Feb. 7, 1951	4.37	652
	Dec. 10, 1938	4.85	790				
	Feb. 15, 1939	5.03	866	1952	Nov. 7, 1951	4.24	620
					Mar. 11, 1952	5.64	1,090
1940	Mar. 31, 1940	8.84	2,840		May 26, 1952	4.16	590
	Aug. 31, 1940	4.25	620		July 9, 1952	4.67	750
					July 22, 1952	8.96	2,980
1941	Aug. 16, 1941	5.77	1,170				
				1953	Nov. 22, 1952	4.40	668
1942	May 23, 1942	7.52	2,020		Dec. 11, 1952	5.99	1,260
1943	Dec. 30, 1942	5.78	1,170	1954	Dec. 7, 1953	4.46	698
					Mar. 1, 1954	4.10	601
1944	Oct. 27, 1943	5.17	922				
	Oct. 28, 1943	4.16	590	1955	Aug. 18, 1955	9.23	3,140
	Nov. 9, 1943	6.83	1,640		Aug. 22, 1955	4.62	748
	Mar. 13, 1944	4.96	852				
	Apr. 24, 1944	4.18	605	1956	Oct. 15, 1955	6.32	1,400
					Oct. 30, 1955	4.74	789
1945	Jan. 1, 1945	[a]4.70	—		Nov. 16, 1955	4.57	727
	Feb. 27, 1945	[a]5.55	—		Sept. 6, 1956	4.87	822
	Sept. 19, 1945	4.35	652				
	Sept. 26, 1945	4.98	870	1957	Dec. 14, 1956	4.58	742
					Apr. 6, 1957	6.08	1,300
1946	Feb. 28, 1946	4.15	590		Apr. 8, 1957	4.27	642
	May 27, 1946	4.65	750				
	June 2, 1946	4.60	733	1958	Dec. 21, 1957	5.17	940
					Dec. 26, 1957	4.21	628

[a]Backwater from ice.

5385. Nescopeck Creek near St. Johns, Pa.

Location. --Lat 41°01'15", long 76°00'40", on highway bridge half a mile southwest of St. Johns, Luzerne County.

Drainage area. --49 sq mi.

Gage. --Nonrecording gage. Altitude of gage is 930 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 500 cfs and extended above.

Remarks. --Base for partial-duration series, 570 cfs.

Nescopeck Creek near St. Johns, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Nov. 27, 1919	4.7	825	1923	Mar. 4, 1923	4.4	710
	Mar. 6, 1920	[a]—	—		July 29, 1923	5.9	1,350
	Mar. 13, 1920	8.0	2,540				
				1924	Oct. 25, 1923	4.0	570
1921	Mar. 4, 1921	4.1	605		Jan. 12, 1924	4.0	570
					Jan. 17, 1924	4.7	825
1922	Nov. 29, 1921	5.5	1,170		Apr. 7, 1924	4.1	605
	Dec. 4, 1921	4.1	605		Sept. 30, 1924	7.5	2,240
	Feb. 24, 1922	4.1	605				
	Mar. 8, 1922	6.4	1,610	1925	Feb. 9, 1925	5.14	990
	Apr. 11, 1922	4.2	640		May 11, 1925	4.0	570
	Apr. 16, 1922	4.1	605				
	June 8, 1922	4.3	675	1926	Nov. 13, 1925	4.0	570
					Nov. 16, 1925	4.0	570

[a]Backwater from ice.

5390. Fishing Creek near Bloomsburg, Pa

Location. --Lat 41°04'40", long 76°25'55", on left bank 25 ft downstream from highway bridge 0.3 mile upstream from Deerlick Run, 0.9 mile west of Orangeville, and 5.5 miles northeast of Bloomsburg, Columbia County.

Drainage area. --274 sq mi.

Gage. --Recording gage. Datum of gage is 540.68 ft above mean sea level (Reading Co. benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 5,300 cfs and extended on basis of contracted-opening measurement of peak flow.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Dec. 10, 1938	6.64	4,420	1949	Dec. 30, 1948	9.71	11,700
	Feb. 15, 1939	6.52	4,270		Jan. 6, 1949	6.51	4,600
					Apr. 14, 1949	6.61	4,790
1940	Mar. 15, 1940	7.04	5,050				
	Mar. 31, 1940	12.08	18,100	1950	Jan. 7, 1950	7.31	5,560
	Apr. 4, 1940	6.50	4,270		Mar. 29, 1950	6.47	4,510
	Apr. 9, 1940	8.04	6,910		June 1, 1950	6.85	4,690
	Apr. 20, 1940	7.44	5,750				
				1951	Nov. 26, 1950	10.10	12,000
1941	Apr. 6, 1941	5.87	3,340		Dec. 4, 1950	10.78	14,000
1942	Dec. 26, 1941	8.82	8,660	1952	Mar. 11, 1952	11.49	16,200
	May 23, 1942	10.26	13,400		May 12, 1952	6.79	4,740
					May 16, 1952	6.79	4,740
1943	Dec. 30, 1942	10.74	14,300				
				1953	Nov. 22, 1952	8.84	8,660
1944	Nov. 9, 1943	9.77	12,000		Dec. 11, 1952	7.54	5,950
	Mar. 13, 1944	6.50	4,590		Jan. 24, 1953	7.44	5,770
	Mar. 24, 1944	6.57	4,700				
	Apr. 25, 1944	6.39	4,420	1954	Apr. 17, 1954	7.58	6,140
	May 7, 1944	6.43	4,510				
				1955	Aug. 19, 1955	8.54	8,070
1945	Mar. 4, 1945	6.51	4,600				
	Sept. 19, 1945	6.59	4,790	1956	Oct. 16, 1955	8.33	7,540
1946	Mar. 9, 1946	6.97	5,570	1957	Apr. 6, 1957	9.25	9,610
	May 21, 1946	7.05	5,570		Apr. 9, 1957	6.15	4,270
	May 28, 1946	10.69	14,200				
				1958	Dec. 21, 1957	8.74	8,430
1947	July 22, 1947	6.24	4,150		Dec. 27, 1957	6.81	4,740
					Jan. 22, 1958	6.41	4,120
1948	Mar. 17, 1948	6.75	5,170		Feb. 28, 1958	8.24	7,330
	Mar. 20, 1948	6.64	4,790		July 8, 1958	6.69	4,580
	Apr. 15, 1948	7.63	6,120				

5395. Little Fishing Creek at Eyers Grove, Pa.

Location. --Lat 41°04'50", long 76°30'40", 15 ft upstream from State Highway 42, 0.7 miles southeast of Eyers Grove, Columbia County, 3 miles southeast of Millville, and 5.1 miles upstream from mouth.

Drainage area. --56.5 sq mi.

Gage. --Nonrecording gage prior to Apr. 4, 1941; recording gage thereafter. Datum of gage is 558.48 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,000 cfs and extended above.

Remarks. --Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Apr. 5, 1941	4.87	1,040	1950 Cont.	Mar. 21, 1950	5.52	1,720
					June 1, 1950	5.54	1,760
1942	Dec. 24, 1941	5.70	1,710				
	May 23, 1942	6.02	1,950	1951	Nov. 25, 1950	6.52	2,450
					Dec. 4, 1950	6.75	2,690
1943	Dec. 30, 1942	6.35	2,260		Jan. 24, 1951	4.70	1,210
	May 26, 1943	4.78	1,270		Feb. 7, 1951	5.41	1,650
					Feb. 21, 1951	4.72	1,210
1944	Oct. 26, 1943	5.33	1,620				
	Nov. 9, 1943	5.32	1,580	1952	Jan. 27, 1952	4.78	1,270
	Mar. 13, 1944	5.42	1,650		Mar. 11, 1952	7.34	3,100
	Mar. 24, 1944	4.87	1,240		May 12, 1952	5.18	1,510
	May 7, 1944	4.90	1,330		May 25, 1952	5.48	1,720
	May 24, 1944	4.87	1,300		July 22, 1952	4.94	1,350
1945	Feb. 27, 1945	[a]4.85	—	1953	Nov. 22, 1952	6.23	2,210
	Mar. 3, 1945	4.82	1,270		Dec. 5, 1952	5.32	1,580
	Sept. 18, 1945	5.47	1,680		Dec. 11, 1952	4.80	1,250
					Jan. 24, 1953	4.83	1,280
1946	Feb. 28, 1946	6.33	2,290				
	Mar. 9, 1946	5.08	1,450	1954	Mar. 1, 1954	5.34	1,620
	May 27, 1946	6.45	2,370				
				1955	Aug. 18, 1955	5.66	1,860
1947	Mar. 14, 1947	5.20	1,510				
				1956	Oct. 14, 1955	6.53	2,470
1948	Mar. 16, 1948	5.41	1,650				
	Apr. 14, 1948	5.06	1,420	1957	Nov. 2, 1956	6.47	2,450
					Apr. 6, 1957	5.57	1,790
1949	Dec. 30, 1948	6.06	2,140				
				1958	Dec. 21, 1957	4.68	1,260
1950	Jan. 7, 1950	5.03	1,420		Jan. 22, 1958	4.70	1,260
	Mar. 8, 1950	5.24	1,540		Feb. 28, 1958	6.44	2,370
					July 7, 1958	5.41	1,670

[a]Backwater from ice.

5400. Fishing Creek at Bloomsburg, Pa.

Location. --Lat 41°00'10", long 76°27'50", at Red Rock Bridge, Railroad Street, Bloomsburg, Columbia County, and 2 miles upstream from mouth.

Drainage area. --355 sq mi.

Gage. --Nonrecording gage. Datum of gage is 462.46 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 5,000 cfs and extended above.

Remarks. --Base for partial-duration series, 5,000 cfs.

Fishing Creek at Bloomsburg, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 28, 1914	10.8	10,600	1923	May 13, 1923	7.8	5,080
	Apr. 9, 1914	9.2	7,460	Cont.	July 29, 1923	12.0	13,200
1915	Jan. 7, 1915	12.0	12,800	1924	Jan. 11, 1924	8.1	5,560
	Feb. 25, 1915	12.6	14,000		Apr. 7, 1924	12.5	13,800
					May 12, 1924	8.6	6,380
1916	Apr. 14, 1916	10.4	9,800		Sept. 30, 1924	17.3	23,000
	July 26, 1916	15.0	19,700				
				1925	Feb. 12, 1925	13.0	15,000
1917	Mar. 28, 1917	8.9	6,920				
				1926	Nov. 13, 1925	8.6	6,380
1918	Oct. 30, 1917	13.7	16,700		Feb. 26, 1926	8.3	5,880
	Mar. 14, 1918	11.0	11,000				
				1927	Nov. 16, 1926	15.6	21,500
1919	July 21, 1919	7.6	4,770		Mar. 14, 1927	8.5	5,080
					Mar. 21, 1927	9.2	6,200
1920	Nov. 27, 1919	9.1	7,280				
	Mar. 5, 1920	11.3	11,600	1928	Oct. 19, 1927	10.2	8,030
	Mar. 13, 1920	11.4	11,800		Nov. 18, 1927	10.1	7,840
					Dec. 8, 1927	9.0	5,870
1921	Dec. 14, 1920	10.5	10,000		Mar. 30, 1928	8.7	5,390
	Mar. 10, 1921	8.5	6,200		Apr. 28, 1928	8.8	5,540
	Apr. 23, 1921	9.3	7,640		June 29, 1928	9.5	6,730
					July 6, 1928	14.0	16,900
1922	Nov. 29, 1921	9.7	8,400		July 12, 1928	8.6	5,240
	Feb. 23, 1922	8.1	5,560		July 14, 1928	10.1	7,840
	Mar. 8, 1922	11.0	11,000		July 23, 1928	9.5	6,730
	Apr. 15, 1922	9.5	8,000				
	June 6, 1922	11.9	13,000	1929	Feb. 26, 1929	10.4	8,420
	July 2, 1922	10.5	10,000		May 3, 1929	14.09	17,100
1923	Mar. 5, 1923	8.8	6,740	1930	Nov. 18, 1929	9.2	5,630
	Mar. 16, 1923	9.0	7,100				
	Mar. 24, 1923	8.2	5,720	1931	Mar. 29, 1931	7.6	3,720

5405. Susquehanna River at Danville, Pa.

Location. --Lat 40°57'30", long 76°37'10", on right bank 200 ft upstream from Mill Street Bridge at Danville, Montour County, and 0.8 mile upstream from Mahoning Creek.

Drainage area. --11,220 sq mi, approximately.

Gage. --Nonrecording gage prior to July 1, 1939; recording gage thereafter. Prior to July 1, 1939, gage at or near Mill Street Bridge. Datum of gage is 431.29 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 250,000 cfs.

Bankfull stage. --20 ft.

Historical data. --Maximum stage known prior to 1899, 28 ft March 18, 1865.

Remarks. --Base for partial-duration series, 90,000 cfs. Only annual peaks are shown subsequent to Sept. 30, 1951.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1900	Mar. 2, 1900	15.9	105,000	1902	Mar. 14, 1902	16.3	109,000
				Cont.	Mar. 18, 1902	16.9	116,000
1901	Nov. 28, 1900	18.5	135,000				
	Mar. 29, 1901	18.0	129,000	1903	Feb. 6, 1903	15.8	104,000
	Apr. 23, 1901	15.7	103,000		Mar. 2, 1903	17.8	127,000
	May 31, 1901	15.0	95,100		Mar. 25, 1903	18.2	132,000
					Aug. 31, 1903	15.3	98,400
1902	Dec. 16, 1901	22.8	188,000				
	Mar. 3, 1902	26.9	243,000				

Susquehanna River at Danville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Oct. 12, 1903	17.2	120,000
	Jan. 25, 1904	[a]26.2	—
	Feb. 10, 1904	[a]24.6	—
	Mar. 9, 1904	[a]24	—
	Mar. 27, 1904	19.6	148,000
1905	Mar. 26, 1905	18.62	136,000
1906	Mar. 30, 1906	15.2	97,300
	Apr. 1, 1906	15.4	99,500
1907	Mar. 17, 1907	13.0	73,400
1908	Dec. 12, 1907	15.6	102,000
	Feb. 17, 1908	17.4	122,000
	Mar. 16, 1908	17.0	117,000
1909	May 2, 1909	18.4	134,000
1910	Mar. 3, 1910	21.0	165,000
	Apr. 26, 1910	16.8	115,000
1911	Mar. 29, 1911	15.2	97,300
1912	Apr. 3, 1912	17.97	129,000
1913	Mar. 28, 1913	23.11	192,000
1914	Mar. 29, 1914	22.6	186,000
1915	Jan. 9, 1915	15.6	102,000
	Feb. 26, 1915	19.0	141,000
1916	Apr. 2, 1916	21.8	175,000
1917	Mar. 29, 1917	14.8	92,900
1918	Mar. 16, 1918	18.6	139,000
1919	May 24, 1919	13.7	80,800
1920	Mar. 14, 1920	20.9	170,000
1921	Mar. 10, 1921	15.5	101,000
1922	Nov. 30, 1921	18.1	133,000
	Mar. 9, 1922	15.5	101,000
1923	Mar. 5, 1923	15.8	105,000
1924	Apr. 8, 1924	18.8	142,000
1925	Oct. 1, 1924	18.3	135,000
	Feb. 13, 1925	20.3	162,000
1926	Mar. 27, 1926	15.5	101,000
	Apr. 10, 1926	14.7	91,900
1927	Nov. 17, 1926	18.8	142,000
	Mar. 16, 1927	16.2	109,000
	May 26, 1927	16.1	108,000
1928	Oct. 21, 1927	19.9	156,000
	May 2, 1928	16.2	109,000
1929	Mar. 17, 1929	18.1	133,000
	Apr. 23, 1929	20.35	163,000
1930	Mar. 9, 1930	13.5	78,700
1931	Mar. 30, 1931	14.35	88,500
1932	Apr. 2, 1932	17.05	119,000
1933	Aug. 25, 1933	17.04	119,000
1934	Mar. 6, 1934	14.5	89,600
1935	Jan. 11, 1935	16.2	108,000
	July 11, 1935	20.0	153,000
1936	Mar. 19, 1936	[b]28.0	—
	Mar. 20, 1936	27.4	250,000
1937	Jan. 23, 1937	15.2	93,400
1938	Oct. 24, 1937	13.8	79,400
1939	Feb. 22, 1939	19.2	139,000
1940	Apr. 2, 1940	25.25	222,000
1941	Apr. 7, 1941	19.45	142,000
1942	Mar. 11, 1942	17.08	116,000
	Mar. 19, 1942	15.82	100,100
	May 23, 1942	16.10	103,400
1943	Jan. 1, 1943	24.00	204,000
	Mar. 19, 1943	16.42	108,000
	Apr. 22, 1943	14.92	91,000
1944	May 9, 1944	15.48	97,600
1945	Mar. 5, 1945	17.55	121,000
	Mar. 18, 1945	16.04	103,000
	Mar. 23, 1945	16.79	112,000
1946	Mar. 10, 1946	16.30	108,000
	May 29, 1946	25.98	234,000
1947	Apr. 7, 1947	19.95	150,000
1948	Mar. 18, 1948	17.69	122,000
	Mar. 24, 1948	22.63	184,000
	Apr. 16, 1948	17.08	115,000
1949	Jan. 1, 1949	15.16	89,600
1950	Mar. 30, 1950	21.81	168,000
1951	Nov. 27, 1950	18.09	118,000
	Dec. 5, 1950	19.02	131,000
	Apr. 2, 1951	18.58	123,000
1952	Mar. 13, 1952	18.84	127,000
1953	Dec. 13, 1952	16.80	103,000
1954	May 5, 1954	14.71	82,100
1955	Mar. 3, 1955	15.09	85,900
1956	Mar. 9, 1956	22.47	175,000
1957	Apr. 8, 1957	17.78	114,000
1958	Apr. 8, 1958	21.87	169,000

[a]Backwater from ice.
[b]Backwater from West Branch Susquehanna River.

5410. West Branch Susquehanna River at Bower, Pa.

Location. --Lat 40°53'50", long 78°40'40", on right bank on downstream side of highway bridge at Bower, Clearfield County, 4.6 miles downstream from Chest Creek and Mahaffey.

Drainage area. --315 sq mi.

Gage. --Nonrecording gage prior to Oct. 17, 1929; recording gage thereafter. Datum of gage is 1,206.39 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 7,200 cfs and extended on basis of slope-area measurement.

Remarks. --Base for partial-duration series, 4,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1889	May 31, 1889	18.5	27,000	1925	Feb. 9, 1925	11.2	6,960
					Feb. 11, 1925	10.5	5,900
1914	Nov. 9, 1913	10.5	5,900				
	Jan. 31, 1914	10.2	5,450	1926	Feb. 26, 1926	10.0	5,160
	Mar. 28, 1914	10.0	5,160		Sept. 5, 1926	13.1	10,500
1915	Jan. 7, 1915	12.2	8,640	1927	Jan. 22, 1927	12.8	9,810
	Jan. 19, 1915	10.1	5,300		Mar. 8, 1927	11.1	6,800
	Feb. 2, 1915	11.0	6,650		Mar. 21, 1927	11.8	7,940
	Feb. 15, 1915	10.4	5,750		May 19, 1927	10.4	5,750
1916	Oct. 19, 1915	11.1	6,800	1928	Oct. 20, 1927	11.1	6,800
	Dec. 18, 1915	11.0	6,650		Nov. 29, 1927	9.6	4,600
	Jan. 2, 1916	11.3	7,120		Dec. 14, 1927	11.4	7,280
	Mar. 22, 1916	10.1	5,300		Dec. 16, 1927	10.0	5,160
	Mar. 28, 1916	12.4	9,010		Feb. 5, 1928	9.6	5,020
	Apr. 14, 1916	9.8	4,880		Feb. 15, 1928	9.5	4,460
	June 3, 1916	12.7	9,600		Mar. 30, 1928	11.8	7,940
					Apr. 8, 1928	10.0	5,160
1917	Jan. 6, 1917	9.7	4,740		Apr. 30, 1928	10.1	5,300
	Jan. 22, 1917	11.1	6,800		June 10, 1928	9.8	4,880
	Mar. 12, 1917	10.1	5,300				
	Aug. 14, 1917	9.65	4,600	1929	Jan. 18, 1929	10.2	5,450
					Feb. 26, 1929	11.5	7,440
1918	Feb. 15, 1918	10.3	5,600		Apr. 5, 1929	11.57	7,120
	Feb. 20, 1918	13.8	12,200				
	Feb. 26, 1918	11.45	7,280	1930	Oct. 23, 1929	10.31	4,870
	Mar. 14, 1918	10.50	5,900		Feb. 26, 1930	11.27	6,550
1919	Oct. 31, 1918	11.0	6,680	1931	Apr. 4, 1931	10.74	5,500
	Jan. 2, 1919	10.4	5,750				
	May 10, 1919	11.0	6,680	1932	Apr. 1, 1932	9.96	4,160
	May 21, 1919	10.0	5,160				
				1933	Mar. 15, 1933	11.48	6,930
1920	Nov. 2, 1919	9.5	4,460		May 10, 1933	10.41	5,020
	Nov. 27, 1919	10.8	6,350				
	Mar. 6, 1920	[a]13.7	——	1934	Sept. 30, 1934	9.35	3,540
	Mar. 12, 1920	13.75	12,200				
	June 18, 1920	12.7	9,600	1935	July 25, 1935	11.65	7,120
1921	May 5, 1921	9.5	4,460	1936	Mar. 11, 1936	10.89	5,840
	Aug. 8, 1921	11.5	7,300		Mar. 18, 1936	19.74	31,500
1922	Nov. 2, 1921	10.0	5,160	1937	Nov. 5, 1936	10.72	5,500
	Nov. 29, 1921	12.58	8,950		Jan. 22, 1937	11.81	7,520
	Apr. 15, 1922	12.4	9,010		Jan. 25, 1937	11.32	6,550
					Apr. 28, 1937	11.50	6,930
1923	Mar. 13, 1923	9.6	4,600				
	May 13, 1923	11.2	6,850	1938	Oct. 29, 1937	10.02	4,600
					Dec. 18, 1937	12.66	9,490
1924	Dec. 23, 1923	10.0	5,160				
	Dec. 28, 1923	9.5	4,460	1939	Feb. 15, 1939	9.82	4,320
	Jan. 3, 1924	10.3	5,600				
	Jan. 17, 1924	9.6	4,600	1940	Mar. 19, 1940	10.74	5,660
	Mar. 30, 1924	12.4	9,010		Mar. 31, 1940	14.05	12,700
	Apr. 6, 1924	10.0	5,160		Apr. 20, 1940	10.68	5,660
	May 12, 1924	11.0	6,650				
	June 29, 1924	13.4	11,200	1941	June 5, 1941	9.95	4,600
	Aug. 25, 1924	10.0	5,160				

West Branch Susquehanna River at Bower, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 9, 1942	11.13	6,320	1951 Cont.	Jan. 4, 1951	10.89	5,980
	Mar. 17, 1942	10.0	4,600		Jan. 21, 1951	10.31	5,040
	Apr. 10, 1942	10.23	4,890		Mar. 31, 1951	10.64	5,500
1943	Dec. 30, 1942	14.60	14,300		Apr. 30, 1951	11.66	7,410
	Apr. 20, 1943	10.54	5,340	1952	Jan. 2, 1952	10.90	5,980
	May 12, 1943	10.43	5,190		Jan. 27, 1952	13.53	11,400
1944	Mar. 17, 1944	10.64	5,500		Mar. 11, 1952	11.76	7,600
1945	Feb. 22, 1945	[a]15.15	——		Apr. 14, 1952	10.08	4,740
	Feb. 27, 1945	11.71	7,410		May 21, 1952	10.03	4,590
	Mar. 3, 1945	13.09	10,400		May 25, 1952	9.97	4,590
	Mar. 7, 1945	13.44	11,200	1953	May 26, 1953	11.20	6,490
	Mar. 22, 1945	10.46	5,340		May 31, 1953	12.01	8,000
1946	Jan. 6, 1946	[a]12.82	——		June 7, 1953	9.94	4,450
	Feb. 27, 1946	[a]10.52	——	1954	Mar. 2, 1954	12.95	10,200
	May 27, 1946	11.96	8,000	1955	Oct. 16, 1954	12.55	9,270
	June 2, 1946	10.02	4,600		Dec. 30, 1954	12.18	8,410
	June 13, 1946	12.03	8,000		Feb. 23, 1955	10.02	4,590
	June 21, 1946	10.91	5,980		Mar. 1, 1955	10.01	4,590
1947	Apr. 26, 1947	9.30	3,660		Mar. 4, 1955	10.39	5,190
1948	Apr. 14, 1948	13.30	10,900	1956	Feb. 25, 1956	12.35	8,830
	Apr. 28, 1948	9.87	4,460		Mar. 8, 1956	11.62	7,220
1949	Jan. 6, 1949	9.87	4,460		Apr. 3, 1956	10.42	5,190
	Jan. 27, 1949	9.98	4,600		May 7, 1956	10.33	5,040
1950	Jan. 10, 1950	10.80	5,820		May 13, 1956	11.91	7,800
	Feb. 15, 1950	10.17	4,890		July 3, 1956	12.84	9,720
	Mar. 28, 1950	11.45	6,850		Aug. 8, 1956	10.23	4,890
1951	Nov. 5, 1950	12.20	8,410	1957	Jan. 23, 1957	11.34	6,670
	Dec. 4, 1950	10.72	5,660		Aug. 6, 1957	11.75	7,600
				1958	May 8, 1958	10.43	5,190
					July 23, 1958	10.0	4,590

[a]Backwater from ice.

5415. Clearfield Creek at Dimeling, Pa.

Location. --Lat 40°58'15", long 78°24'25", on right bank on downstream side of highway bridge at Dimeling, Clearfield County, 400 ft downstream from Little Clearfield Creek.

Drainage area. --371 sq mi.

Gage. --Nonrecording gage prior to Oct. 17, 1928; recording gage thereafter. Datum of gage is 1,146.08 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 15,000 cfs and extended by logarithmic plotting.

Bankfull stage. --10 ft.

Remarks. --Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Nov. 10, 1913	9.7	5,270	1916 Cont.	Jan. 22, 1916	9.56	5,100
	Jan. 31, 1914	10.8	7,340		Mar. 23, 1916	[a]16.10	——
	Mar. 28, 1914	9.8	5,440		Mar. 28, 1916	12.3	10,500
	Apr. 16, 1914	9.7	5,270		Apr. 14, 1916	9.40	4,760
1915	Jan. 7, 1915	12.2	10,300		June 3, 1916	11.88	9,660
	Feb. 2, 1915	9.8	5,440		June 17, 1916	10.28	6,360
	Feb. 25, 1915	9.4	4,760	1917	Dec. 28, 1916	10.06	5,990
1916	Dec. 18, 1915	9.82	5,440		Jan. 22, 1917	[a]13.24	——
	Jan. 2, 1916	9.96	5,800		Mar. 12, 1917	10.46	6,750
					June 8, 1917	9.40	4,760

Clearfield Creek at Dimeling, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1918	Feb. 13, 1918	[a]16.5	—
	Feb. 20, 1918	12.0	9,880
	Feb. 26, 1918	10.9	7,540
	Mar. 16, 1918	10.3	6,360
1919	Oct. 31, 1918	9.80	5,440
	May 10, 1919	9.38	4,760
	May 22, 1919	11.5	8,790
1920	Nov. 27, 1919	9.72	5,270
	Jan. 10, 1920	12.7	11,500
	Mar. 6, 1920	[a]12.8	—
	Mar. 11, 1920	[a]18.5	—
	Mar. 13, 1920	12.8	11,700
	Mar. 17, 1920	10.0	5,800
	June 17, 1920	12.3	10,500
1921	May 5, 1921	10.4	6,560
	Aug. 8, 1921	10.6	6,940
1922	Nov. 29, 1921	12.0	9,880
	Feb. 3, 1922	10.4	6,560
	Apr. 15, 1922	11.7	9,220
1923	Mar. 4, 1923	10.6	6,940
	May 13, 1923	10.68	7,140
1924	Dec. 23, 1923	9.5	4,920
	Dec. 29, 1923	9.4	4,760
	Jan. 3, 1924	10.3	6,360
	Jan. 17, 1924	9.8	5,440
	Feb. 6, 1924	9.8	5,440
	Mar. 30, 1924	11.4	8,580
	May 13, 1924	11.9	9,660
	June 30, 1924	12.0	9,880
	Aug. 25, 1924	12.6	11,200
1925	Feb. 9, 1925	12.65	11,200
	Feb. 12, 1925	11.6	9,000
1926	Feb. 26, 1926	10.0	5,800
	Sept. 6, 1926	11.3	8,370
1927	Mar. 8, 1927	11.8	9,440
1928	Oct. 20, 1927	10.6	6,940
	Dec. 14, 1927	9.6	5,100
	Mar. 30, 1928	11.1	7,960
	Apr. 8, 1928	10.2	6,180
	May 1, 1928	10.3	6,360
	June 22, 1928	9.4	4,760
1929	Feb. 27, 1929	[a]18.4	—
	Mar. 14, 1929	9.9	5,620
	Apr. 5, 1929	12.3	10,500
1930	Oct. 23, 1929	11.0	7,630
	Feb. 26, 1930	10.65	6,810
1931	Apr. 4, 1931	9.99	5,650
1932	Apr. 1, 1932	9.66	5,130
1933	Mar. 15, 1933	10.63	6,950
	May 10, 1933	9.65	4,950
1934	Dec. 18, 1933	8.22	2,960
	Mar. 4, 1934	[a]13.2	—
1935	Jan. 1, 1935	[a]11.61	—
	May 7, 1935	9.2	4,290
1936	Mar. 12, 1936	11.96	10,600
	Mar. 18, 1936	18.49	30,600
1937	Nov. 5, 1936	10.17	6,030
	Jan. 22, 1937	11.98	9,900
	Jan. 25, 1937	10.17	6,030
	Apr. 27, 1937	12.39	10,900
1938	Oct. 29, 1937	10.13	5,840
	Dec. 18, 1937	11.73	9,160
1939	Feb. 15, 1939	9.18	4,320
1940	Mar. 31, 1940	14.23	15,400
	Apr. 4, 1940	9.88	5,480
	Apr. 21, 1940	10.37	6,410
1941	Apr. 5, 1941	9.91	5,480
	June 6, 1941	9.87	5,480
1942	Mar. 9, 1942	11.03	7,610
1943	Dec. 30, 1942	13.21	12,900
	Jan. 19, 1943	9.42	4,720
	Apr. 21, 1943	9.98	5,680
	May 12, 1943	9.60	5,020
1944	Mar. 17, 1944	10.19	6,040
	May 27, 1944	9.57	5,020
1945	Feb. 27, 1945	10.27	6,220
	Mar. 4, 1945	11.22	8,030
	Mar. 7, 1945	12.09	10,200
	May 18, 1945	10.24	6,040
1946	May 28, 1946	11.28	8,250
	June 3, 1946	9.67	5,180
	June 14, 1946	10.77	7,200
	June 21, 1946	9.89	5,510
1947	Apr. 26, 1947	8.39	3,370
1948	Feb. 14, 1948	[a]14.89	—
	Apr. 14, 1948	12.48	11,200
1949	Jan. 6, 1949	9.15	4,390
1950	Jan. 10, 1950	9.53	4,850
	Mar. 28, 1950	10.98	7,610
1951	Oct. 10, 1950	9.69	5,170
	Nov. 5, 1950	9.63	5,010
	Dec. 4, 1950	10.33	6,220
	Dec. 8, 1950	10.13	5,860
	Jan. 4, 1951	9.75	5,340
	Jan. 21, 1951	9.51	4,850
	Mar. 31, 1951	10.25	6,040
1952	Jan. 2, 1952	9.59	5,010
	Jan. 27, 1952	11.14	7,820
	Mar. 11, 1952	11.27	8,250
1953	Mar. 24, 1953	9.65	5,010
	May 26, 1953	10.37	6,410
	May 31, 1953	10.30	6,220
1954	Mar. 2, 1954	12.89	12,200
1955	Oct. 17, 1954	11.63	8,930
	Dec. 30, 1954	10.32	6,220

Clearfield Creek at Dimeling, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Feb. 25, 1956	10.22	6,040	1957	Jan. 23, 1957	9.29	4,550
	Mar. 8, 1956	10.13	5,860		Apr. 6, 1957	10.21	6,040
	Apr. 4, 1956	9.28	4,550		Apr. 9, 1957	9.28	4,550
	May 13, 1956	11.91	9,650				
	July 2, 1956	11.21	8,030	1958	July 23, 1958	9.51	4,850

[a]Backwater from ice.

5420. Moshannon Creek at Osceola Mills, Pa.

Location. --Lat 40°50'55", long 78°16'05", on left bank 10 ft upstream from Pennsylvania Railroad bridge at Osceola Mills, Clearfield County, and 0.1 mile downstream from Trout Run.

Drainage area. --68.8 sq mi.

Gage. --Recording gage. Datum of gage is 1,446.98 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 1,500 cfs and extended above on basis of contracted-opening measurement.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	17.7	—	1951	Oct. 10, 1950	4.18	600
					Nov. 26, 1950	6.61	1,680
1941	Apr. 5, 1941	5.25	1,060		Dec. 4, 1950	6.73	1,720
	June 5, 1941	5.37	1,110		Dec. 8, 1950	6.23	1,500
					Jan. 4, 1951	4.64	740
1942	Dec. 24, 1941	5.23	1,060		Jan. 21, 1951	4.65	740
	Mar. 9, 1942	5.30	1,080		Mar. 30, 1951	6.08	1,460
	Mar. 16, 1942	4.29	665		June 14, 1951	4.42	617
	Mar. 22, 1942	4.75	844				
				1952	Jan. 1, 1952	4.83	848
1943	Dec. 30, 1942	7.84	2,220		Jan. 27, 1952	5.76	1,320
	Apr. 21, 1943	5.53	1,200		Mar. 11, 1952	8.35	2,490
	May 12, 1943	4.82	865		Mar. 23, 1952	4.39	621
	May 21, 1943	5.14	1,020		May 25, 1952	4.52	675
1944	Mar. 17, 1944	5.61	1,230	1953	Nov. 22, 1952	4.48	743
	May 7, 1944	4.78	865		Dec. 11, 1952	4.37	684
	May 24, 1944	4.90	907		Mar. 24, 1953	5.58	1,230
	May 27, 1944	4.68	824		May 26, 1953	6.72	1,720
					May 31, 1953	5.51	1,180
1945	Feb. 27, 1945	5.05	972		Aug. 10, 1953	4.50	743
	Mar. 3, 1945	5.97	1,410				
	Mar. 7, 1945	6.68	1,720	1954	Mar. 1, 1954	9.00	2,760
	Mar. 21, 1945	6.01	1,410				
	May 18, 1945	7.28	2,000	1955	Oct. 16, 1954	8.75	2,670
					Dec. 30, 1954	5.35	1,140
1946	Feb. 27, 1946	4.20	627		Mar. 4, 1955	4.27	694
	May 27, 1946	6.95	1,860				
	June 2, 1946	5.13	1,020	1956	Oct. 14, 1955	4.66	846
	June 12, 1946	4.50	743		Feb. 25, 1956	5.64	1,230
	June 21, 1946	4.35	684		Mar. 8, 1956	6.11	1,460
					Apr. 3, 1956	4.03	622
1947	May 18, 1947	3.96	562		Apr. 7, 1956	4.20	676
					May 7, 1956	4.97	965
1948	Feb. 14, 1948	4.48	—		May 13, 1956	7.08	1,900
	Apr. 12, 1948	5.30	1,040		July 2, 1956	6.24	1,500
	Apr. 14, 1948	7.58	2,130		July 4, 1956	4.61	826
					Aug. 5, 1956	4.07	622
1949	Jan. 26, 1949	4.23	620		Aug. 12, 1956	5.03	1,000
1950	Jan. 10, 1950	4.85	880	1957	Apr. 6, 1957		—
	Mar. 28, 1950	5.78	1,320		Apr. 9, 1957	5.85	1,320
				1958	Apr. 7, 1958	4.76	885
					May 7, 1958	4.20	676

5425. West Branch Susquehanna River at Karthaus, Pa.

Location. --Lat 41°06'55", long 78°06'40", on left bank 900 ft upstream from highway bridge at Karthaus, Clearfield County, 1,000 ft upstream from Mosquito Creek and 3.3 miles downstream from Moshannon Creek. Records include flow of Mosquito Creek.

Drainage area. --1,462 sq mi, including that of Mosquito Creek.

Gage. --Nonrecording gage prior to Oct. 1, 1940; recording gage thereafter. Prior to Oct. 1, 1940 at site 900 ft downstream. Datum of gage is 830.59 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 50,000 cfs and extended above.

Bankfull stage. --19 ft.

Remarks. --Base for partial-duration series, 13,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	24.5	135,000
1940	Mar. 19, 1940	6.50	14,800
	Apr. 1, 1940	12.4	50,900
	Apr. 7, 1940	8.4	24,700
	Apr. 22, 1940	7.3	18,800
1941	Mar. 5, 1941	[a]8.95	——
	Apr. 6, 1941	8.79	19,600
1942	Dec. 25, 1941	7.46	13,600
	Mar. 10, 1942	9.38	22,600
	Mar. 17, 1942	8.15	16,600
1943	Dec. 30, 1942	13.82	50,200
	Jan. 20, 1943	7.86	15,200
	Apr. 21, 1943	9.36	22,600
	May 12, 1943	9.10	21,100
1944	Mar. 17, 1944	9.13	21,100
	May 25, 1944	8.07	16,100
1945	Feb. 27, 1945	9.33	22,100
	Mar. 4, 1945	11.62	35,600
	Mar. 7, 1945	12.47	41,100
	Mar. 22, 1945	9.52	23,100
	May 18, 1945	8.60	18,600
1946	May 28, 1946	11.95	36,900
	June 3, 1946	7.90	14,700
	June 14, 1946	8.67	18,200
	June 22, 1946	7.77	14,300
1947	May 19, 1947	7.26	12,400
1948	Apr. 14, 1948	12.91	43,200
1949	Jan. 27, 1949	7.73	13,900
1950	Jan. 11, 1950	8.72	18,200
	Feb. 15, 1950	7.91	14,700
	Mar. 28, 1950	10.44	27,100
1951	Oct. 10, 1950	7.46	13,200
	Nov. 5, 1950	9.07	20,200
	Nov. 25, 1950	12.16	38,300
	Dec. 5, 1950	8.96	19,700
	Dec. 8, 1950	8.33	16,600
	Jan. 5, 1951	8.15	16,200
	Jan. 21, 1951	8.01	15,400
	Feb. 22, 1951	8.05	15,400
	Mar. 5, 1951	7.51	13,400
	Mar. 31, 1951	9.12	20,200
	Apr. 30, 1951	7.77	14,600
1952	Jan. 2, 1952	8.61	17,800
	Jan. 27, 1952	11.21	31,900
	Mar. 12, 1952	10.42	27,100
	Apr. 16, 1952	8.22	16,200
	May 21, 1952	7.58	13,800
	May 26, 1952	8.49	17,400
1953	Mar. 25, 1953	8.53	17,400
	May 27, 1953	10.34	26,500
	May 31, 1953	9.57	22,700
1954	Mar. 2, 1954	11.42	33,100
1955	Oct. 17, 1954	9.05	19,700
	Dec. 30, 1954	9.62	22,700
	Feb. 23, 1955	7.94	15,000
	Mar. 5, 1955	8.33	16,600
	Mar. 23, 1955	7.41	13,000
1956	Feb. 26, 1956	9.59	22,700
	Mar. 8, 1956	10.73	28,900
	Apr. 4, 1956	8.02	15,400
	May 13, 1956	10.14	25,300
	July 3, 1956	9.40	21,700
	Aug. 7, 1956	8.16	16,200
1957	Jan. 23, 1957	[a]8.23	——
	Apr. 6, 1957	9.42	21,700
1958	Apr. 7, 1958	7.45	13,000
	May 8, 1958	8.28	16,600

[a]Backwater from ice.

5430. Driftwood Branch Sinnemahoning Creek at Sterling Run, Pa.

Location. --Lat 41°24'45", long 78°11'50", on downstream side of first pier from right bank of highway bridge at Sterling Run, Cameron County, 300 ft upstream from Sterling Run.

Drainage area. --272 sq mi.

Gage. --Nonrecording gage prior to Sept. 30, 1931; recording gage Oct. 1, 1931, to Sept. 30, 1932; nonrecording gage Oct. 1, 1932 to Sept. 30, 1942; recording gage thereafter. Prior to Oct. 1, 1932 at present site; Oct. 1, 1932 to Sept. 30, 1942, at site 800 ft upstream. Datum of gage is 894.84 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 6,200 cfs and extended above on basis of slope-area measurement of peak flow.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 4,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 28, 1914	6.0	8,340
1915	Feb. 25, 1915	4.97	6,090
1916	Mar. 28, 1916	6.6	9,800
1917	Aug. 15, 1917	10.0	20,000
1918	Feb. 20, 1918	7.30	11,600
	Mar. 14, 1918	7.70	12,600
1919	May 22, 1919	5.84	7,880
1920	Mar. 5, 1920	[a]10.4	—
	Mar. 13, 1920	5.9	8,110
	Mar. 17, 1920	4.4	4,820
1921	Mar. 7, 1921	3.22	2,470
1922	Nov. 2, 1921	4.5	4,880
1923	Mar. 5, 1923	6.4	9,280
	May 12, 1923	5.8	7,840
	May 21, 1923	7.0	10,800
1924	Apr. 6, 1924	5.7	7,650
1925	Feb. 12, 1925	7.8	12,700
1926	Feb. 26, 1926	4.4	4,820
	Mar. 23, 1926	4.6	5,240
1927	Jan. 22, 1927	4.4	4,820
	Mar. 8, 1927	4.5	5,030
	Mar. 14, 1927	5.0	6,090
	Mar. 21, 1927	5.1	6,310
	May 25, 1927	6.2	8,820
1928	Dec. 14, 1927	4.9	5,870
	Dec. 16, 1927	5.6	7,420
	Apr. 8, 1928	5.0	6,090
	June 6, 1928	6.4	9,300
1929	Jan. 19, 1929	4.7	5,450
	Mar. 15, 1929	5.6	7,420
1930	Jan. 13, 1930	4.82	5,660
1931	June 8, 1931	4.27	4,500
1932	Dec. 13, 1931	4.73	5,450
	Jan. 15, 1932	4.60	5,240
	Jan. 18, 1932	5.18	6,530
	Apr. 1, 1932	4.62	5,240
	May 8, 1932	6.47	9,550
1933	Mar. 15, 1933	6.10	4,990
1934	Apr. 12, 1934	5.2	3,330
1935	May 8, 1935	5.80	4,380
1936	Mar. 12, 1936	8.40	11,800
	Mar. 17, 1936	12.0	28,400
1937	Jan. 22, 1937	7.37	8,210
	Jan. 25, 1937	7.14	7,390
	Apr. 28, 1937	6.70	6,370
1938	Dec. 18, 1937	7.25	7,660
	Mar. 6, 1938	6.53	5,890
1939	Feb. 15, 1939	5.9	4,580
1940	Mar. 31, 1940	7.0	7,130
	Apr. 4, 1940	7.1	7,390
1941	Apr. 15, 1941	6.6	6,130
1942	Mar. 9, 1942	6.54	5,890
	Mar. 17, 1942	6.74	6,370
	July 18, 1942	15.0	47,800
1943	Dec. 30, 1942	8.30	14,800
	Mar. 17, 1943	5.12	5,680
	Apr. 21, 1943	7.45	11,600
	May 26, 1943	5.06	5,470
	June 2, 1943	7.26	11,300
1944	Mar. 17, 1944	6.80	6,620
1945	Mar. 3, 1945	5.99	8,660
	Mar. 7, 1945	4.67	5,850
	Mar. 17, 1945	5.05	6,450
	Mar. 22, 1945	5.76	8,190
1946	Oct. 2, 1945	5.27	7,080
	May 27, 1946	9.66	21,600
	June 13, 1946	4.67	5,850
1947	Apr. 5, 1947	5.27	7,080
	June 7, 1947	4.10	4,730
1948	Mar. 20, 1948	4.90	6,250
	Apr. 12, 1948	6.51	9,900
	Apr. 14, 1948	5.05	6,450
1949	Jan. 28, 1949	3.45	3,560
1950	Jan. 7, 1950	5.07	6,660
	Mar. 28, 1950	5.46	7,520
	Apr. 5, 1950	5.54	6,640

Driftwood Branch Sinnemahoning Creek at Sterling Run, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 5, 1950	6.83	10,100	1954	Mar. 1, 1954	7.45	12,100
	Nov. 25, 1950	10.65	25,800				
	Mar. 31, 1951	6.19	8,320	1955	Mar. 1, 1955	5.36	6,430
					Mar. 5, 1955	5.20	6,040
1952	Jan. 18, 1952	6.65	9,500				
	Jan. 27, 1952	6.02	7,790	1956	Oct. 15, 1955	5.19	6,040
	Mar. 11, 1952	4.73	5,250		Feb. 25, 1956	5.43	6,430
	Apr. 15, 1952	5.21	6,070		Mar. 8, 1956	8.92	17,800
	May 25, 1952	5.44	6,440		Apr. 4, 1956	4.67	5,140
					May 13, 1956	5.01	5,670
1953	Mar. 24, 1953	5.79	7,300		Aug. 6, 1956	4.56	4,970
	May 23, 1953	8.74	17,000				
	May 26, 1953	6.90	10,400	1957	Jan. 23, 1957	5.11	6,430
	May 31, 1953	5.63	6,850				
				1958	Apr. 7, 1958	4.15	4,990

[a]Backwater from ice.

5435. Sinnemahoning Creek at Sinnemahoning, Pa.

Location. --Lat 41°19'00", long 78°06'10", on left bank 0.2 mile upstream from Grove Run and 0.7 mile upstream from Pennsylvania Railroad bridge at Sinnemahoning, Cameron County.

Drainage area. --685 sq mi.

Gage. --Recording gage. Datum of gage is 769.36 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 31,000 cfs and extended on basis of slope-area measurement of peak flow.

Bankfull stage. --17 ft.

Remarks. --Base for partial-duration series, 8,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	21.94	61,200	1948	Mar. 20, 1948	7.87	10,700
					Apr. 12, 1948	9.67	16,000
1939	Feb. 15, 1939	7.19	8,120		Apr. 14, 1948	9.41	15,100
1940	Mar. 31, 1940	10.57	19,100	1949	Jan. 28, 1949	6.58	7,450
	Apr. 5, 1940	10.00	17,000				
	Apr. 9, 1940	7.81	10,400	1950	Jan. 7, 1950	8.04	11,000
					Mar. 27, 1950	7.25	8,900
1941	Apr. 5, 1941	8.01	10,900		Mar. 29, 1950	9.68	16,000
					Apr. 5, 1950	7.86	10,700
1942	Mar. 9, 1942	8.54	12,400				
	July 18, 1942	21.58	59,800	1951	Nov. 5, 1950	10.98	19,900
					Nov. 25, 1950	19,66	52,200
1943	Dec. 30, 1942	13.44	28,300		Dec. 4, 1950	7.97	11,000
	Apr. 21, 1943	11.14	20,200		Jan. 4, 1951	7.61	9,930
	May 26, 1943	7.47	9,670		Feb. 22, 1951	7.23	8,900
	June 3, 1943	8.62	12,700		Mar. 31, 1951	9.76	16,300
1944	Mar. 17, 1944	8.78	13,300	1952	Jan. 18, 1952	10.11	17,200
					Jan. 27, 1952	10.47	18,400
1945	Mar. 3, 1945	10.40	18,100		Mar. 11, 1952	8.94	13,600
	Mar. 7, 1945	9.40	15,100		Apr. 15, 1952	9.05	13,900
	Mar. 17, 1945	8.11	11,300		May 25, 1952	9.97	16,900
	Mar. 22, 1945	9.90	16,600				
	May 18, 1945	7.56	9,930	1953	Mar. 24, 1953	9.26	14,800
					May 23, 1953	11.67	22,400
1946	Oct. 2, 1945	8.04	11,000		May 26, 1953	11.32	21,000
	May 28, 1946	15.76	36,700		May 31, 1953	9.38	15,100
	June 13, 1946	7.74	10,200				
				1954	Mar. 1, 1954	12.25	24,100
1947	Apr. 5, 1947	7.42	9,410		Apr. 27, 1954	7.96	11,000
	May 22, 1947	7.34	9,150				

Sinnemahoning Creek at Sinnemahoning, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1955	Dec. 30, 1954	8.12	11,300	1956 Cont.	Apr. 5, 1956	7.54	9,670
	Mar. 1, 1955	8.61	12,700		May 13, 1956	8.59	12,700
	Mar. 5, 1955	8.05	11,000		Aug. 7, 1956	8.23	11,600
	Mar. 22, 1955	7.26	9,150	1957	Jan. 23, 1957	8.58	12,700
1956	Oct. 15, 1955	8.97	13,900				
	Nov. 16, 1955	7.25	8,900	1958	Apr. 7, 1958	7.78	10,400
	Feb. 25, 1956	9.86	16,600		May 8, 1958	7.63	9,830
	Mar. 8, 1956	13.87	30,000				

5445. Kettle Creek at Cross Fork, Pa.

Location. --Lat 41°28'30", long 77°49'35", on right bank just upstream from bridge on State Highway 144, 0.2 mile downstream from Potter-Clinton County line, 0.7 mile southwest of village of Cross Fork, Potter County.

Drainage area. --136 sq mi.

Gage. --Recording gage. Datum of gage is 1,027.12 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements below 2,500 cfs and extended on basis of slope-area measurement of peak flow.

Remarks. --Base for partial-duration series, 2,400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	14	20,000	1949	Feb. 16, 1949	3.96	1,260
1941	Apr. 6, 1941	5.42	2,370	1950	Apr. 5, 1950	6.69	4,180
1942	Dec. 24, 1941	5.87	2,860	1951	Nov. 25, 1950	11.04	12,400
	Mar. 9, 1942	6.37	3,520		Mar. 30, 1951	8.74	7,400
	May 22, 1942	7.98	6,100				
	July 18, 1942	5.96	2,960	1952	Jan. 18, 1952	5.46	2,680
					Apr. 6, 1952	5.59	2,850
1943	Dec. 30, 1942	6.50	3,660				
	Apr. 21, 1943	5.94	2,960	1953	Mar. 24, 1953	6.61	4,050
					May 23, 1953	5.97	3,310
1944	Mar. 17, 1944	5.50	2,470				
	May 8, 1944	5.60	2,580	1954	Mar. 2, 1954	6.32	3,670
1945	Mar. 18, 1945	6.45	3,520	1955	Mar. 5, 1955	5.24	2,460
1946	May 28, 1946	10.38	11,000	1956	Oct. 14, 1955	7.35	5,140
					Mar. 8, 1956	7.37	5,140
1947	Apr. 6, 1947	5.49	2,470		Apr. 5, 1956	5.86	3,190
1948	Mar. 20, 1948	5.50	2,680	1957	Jan. 23, 1957	[a]5.74	—
	Mar. 22, 1948	5.45	2,630		Apr. 6, 1957	4.39	1,620
	Apr. 12, 1948	5.35	2,520				
	Apr. 15, 1948	5.56	2,800	1958	Dec. 21, 1957	5.60	2,850
					Apr. 7, 1958	5.40	2,630

[a]Backwater from ice.

5455. West Branch Susquehanna River at Renovo, Pa.

Location. --Lat 41°19'30", long 77°45'05", on left bank on upstream side of Eighth Street Bridge at Renovo, Clinton County, 1 mile upstream from Paddy Run.

Drainage area. --2,975 sq mi.

Gage. --Nonrecording gage prior to Mar. 17, 1930; recording gage thereafter. Datum of gage is 634.19 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 87,000 cfs and extended above on basis of slope-area measurement of peak flow.

Bankfull stage. --16 ft.

Remarks. --Base for partial-duration series, 31,000 cfs. Only annual peaks are shown after December 1955. Flow regulated. Records prior to 1908 from U. S. Weather Bureau.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1889	June 1, 1889	28.8	254,000
1894	May 21, 1894	23	187,000
1896	Mar. 31, 1896	10.4	46,900
1897	Mar. 7, 1897	8.5	32,800
1898	Mar. 24, 1898	15.4	101,000
	Mar. 30, 1898	10.0	43,700
1899	Mar. 6, 1899	9.0	36,300
1900	Jan. 21, 1900	[a]12.0	—
1901	Nov. 27, 1900	11.0	52,200
	Apr. 8, 1901	8.5	32,800
	Apr. 22, 1901	11.1	53,200
	May 30, 1901	10.0	43,700
1902	Dec. 15, 1901	13.5	79,100
	Mar. 1, 1902	[a]17.0	—
	Mar. 14, 1902	8.8	34,900
	Mar. 17, 1902	8.5	32,800
	Apr. 9, 1902	12.5	67,400
	July 4, 1902	11.0	52,200
1903	Feb. 5, 1903	11.0	52,200
	Mar. 1, 1903	13.0	73,400
	Mar. 9, 1903	10.0	43,700
	Mar. 24, 1903	9.0	36,300
1906	Dec. 4, 1905	11.7	59,000
	Jan. 24, 1906	10.0	43,700
1907	Jan. 21, 1907	10.0	43,700
	Mar. 15, 1907	[a]14.0	—
1908	Feb. 16, 1908	13.5	71,100
1909	Apr. 30, 1909	15.5	88,100
1910	Mar. 1, 1910	—	[b]61,000
1911	Jan. 15, 1911	13.1	62,300
1912	Oct. 2, 1911	11.15	67,900
1913	Jan. 9, 1913	14.9	83,000
	Mar. 27, 1913	12.8	65,500
1914	Feb. 14, 1914	8.74	34,500
	Mar. 28, 1914	12.54	63,100
1915	Jan. 8, 1915	13.0	67,100
1916	Mar. 28, 1916	15.8	87,000
	June 4, 1916	12.4	56,600
	June 17, 1916	14.6	76,200
1917	Mar. 7, 1917	[a]10.7	—
	Mar. 17, 1917	8.8	32,800
1918	Feb. 20, 1918	14.5	75,300
	Feb. 26, 1918	10.1	41,700
1919	May 11, 1919	11.4	50,800
	May 22, 1919	13.8	69,400
1920	Nov. 27, 1919	8.8	33,900
	Mar. 6, 1920	[a]9.9	—
	Mar. 13, 1920	15.0	81,300
	Mar. 17, 1920	9.6	39,500
	June 18, 1920	9.2	36,700
1921	Mar. 8, 1921	7.97	28,600
1922	Nov. 29, 1921	11.2	50,700
	Apr. 16, 1922	8.6	32,500
1923	Feb. 18, 1923	8.9	34,600
	Mar. 5, 1923	13.06	65,800
	May 13, 1923	11.8	55,400
1924	Jan. 1, 1924	8.9	34,600
	Jan. 4, 1924	9.2	36,700
	Mar. 30, 1924	10.2	43,700
	Apr. 7, 1924	13.0	65,000
	May 13, 1924	10.8	47,900
	June 30, 1924	9.4	38,100
1925	Feb. 12, 1925	14.5	77,000
1926	Jan. 19, 1926	8.9	34,600
	Feb. 26, 1926	9.0	35,300
	Sept. 6, 1926	11.1	50,000
1927	Jan. 23, 1927	11.8	55,400
	Mar. 8, 1927	10.5	45,800
	Mar. 14, 1927	8.4	31,100
	Mar. 21, 1927	11.8	55,400
	May 25, 1927	9.6	39,500
1928	Nov. 29, 1927	8.85	33,900
	Dec. 14, 1927	10.7	47,200
	Dec. 17, 1927	10.4	45,100
	Mar. 31, 1928	10.2	43,700
	Apr. 8, 1928	9.2	36,700
	May 1, 1928	8.8	33,900
	June 6, 1928	11.9	56,200
	July 6, 1928	9.9	41,600

West Branch Susquehanna River at Renovo, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 27, 1929	8.4	31,100
	Mar. 15, 1929	12.3	59,400
1930	Feb. 27, 1930	9.8	42,200
1931	Apr. 5, 1931	8.97	36,400
	May 24, 1931	8.47	32,900
1932	Apr. 1, 1932	9.80	42,200
1933	Mar. 15, 1933	11.09	52,000
1934	Apr. 12, 1934	6.85	21,500
1935	May 8, 1935	9.13	33,600
1936	Mar. 6, 1936	[a]14.0	——
	Mar. 12, 1936	15.33	82,500
	Mar. 18, 1936	29.39	236,000
1937	Nov. 6, 1936	8.97	32,900
	Jan. 22, 1937	13.02	62,200
	Jan. 25, 1937	11.63	51,000
	Apr. 28, 1937	13.21	63,800
1938	Dec. 18, 1937	12.83	57,400
1939	Feb. 16, 1939	8.65	27,900
1940	Mar. 19, 1940	[a]13.03	——
	Apr. 1, 1940	16.51	92,900
	Apr. 5, 1940	13.26	63,800
	Apr. 9, 1940	10.80	43,800
	Apr. 21, 1940	10.10	38,400
1941	Mar. 5, 1941	[a]14.37	——
	Apr. 6, 1941	10.79	43,800
1942	Mar. 9, 1942	14.38	73,500
	Mar. 17, 1942	9.92	37,000
	May 23, 1942	9.14	31,400
	July 18, 1942	18.92	117,000
1943	Dec. 30, 1942	17.74	105,000
	Apr. 21, 1943	13.55	66,300
	May 12, 1943	10.34	39,800
	June 3, 1943	9.12	31,900
1944	Jan. 29, 1944	[a]11.15	——
	Mar. 17, 1944	11.16	47,000
1945	Feb. 27, 1945	9.97	37,700
	Mar. 4, 1945	13.94	69,000
	Mar. 7, 1945	14.18	71,700
	Mar. 17, 1945	10.12	38,400
	Mar. 22, 1945	11.90	52,600
	May 18, 1945	10.80	43,800
1946	May 28, 1946	20.11	130,000
	June 13, 1946	9.62	34,900
1947	Apr. 6, 1947	8.48	28,000
1948	Apr. 15, 1948	15.07	79,800
1949	Jan. 29, 1949	8.75	29,800
1950	Jan. 7, 1950	9.02	31,000
	Jan. 11, 1950	9.47	34,200
	Mar. 29, 1950	13.21	63,000
	Apr. 5, 1950	9.99	37,700
1951	Nov. 5, 1950	11.60	50,200
	Nov. 26, 1950	21.96	151,000
	Dec. 5, 1950	10.30	39,800
	Dec. 8, 1950	9.45	33,200
	Feb. 22, 1951	9.06	31,100
	Mar. 31, 1951	12.79	59,800
1952	Jan. 2, 1952	9.34	32,500
	Jan. 18, 1952	10.22	39,000
	Jan. 27, 1952	13.33	63,800
	Mar. 12, 1952	12.01	53,400
	Apr. 16, 1952	11.03	45,400
	May 26, 1952	10.82	43,800
1953	Mar. 24, 1953	11.21	47,000
	May 23, 1953	11.17	47,000
	May 26, 1953	12.74	59,000
	May 31, 1953	11.58	50,200
1954	Mar. 2, 1954	14.79	77,600
1955	Dec. 31, 1954	10.74	43,000
	Mar. 2, 1955	10.15	39,000
	Mar. 5, 1955	10.46	41,400
	Mar. 23, 1955	9.20	31,800
1956	Oct. 15, 1955	10.53	41,400
	Mar. 8, 1956	15.40	82,500
1957	Apr. 7, 1957	10.48	41,400
1958	Apr. 7, 1958	10.31	39,800

[a]Backwater from ice.
[b]Maximum daily discharge.

5460. North Bald Eagle Creek at Milesburg, Pa.

Location. --Lat 40°56'30", long 77°47'40", at Milesburg, Centre County, 0.5 mile upstream from Spring Creek and 1.4 miles downstream from Snowshoe Creek.

Drainage area. --119 sq mi.

Gage. --Nonrecording gage. Altitude of gage is 690 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 2,000 cfs and extended above.

Remarks. --Only annual peaks are shown.

North Bald Eagle Creek at Milesburg, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Sept. 9, 1911	6.5	6,730	1921	Dec. 14, 1920	5.7	5,200
1912	Oct. 2, 1911	11.0	17,000	1922	Nov. 29, 1921	7.0	7,750
1913	Mar. 27, 1913	6.4	6,530	1923	Mar. 3, 1923	8.0	9,800
1914	Mar. 28, 1914	6.0	5,750	1924	Apr. 6, 1924	7.7	9,150
1915	Feb. 24, 1915	6.6	6,930	1925	Feb. 10, 1925	5.50	4,850
1916	June 17, 1916	11.5	18,500	1926	Feb. 26, 1926	5.1	3,970
1917	Mar. 11, 1917	4.7	3,390	1927	Jan. 22, 1927	5.7	5,300
1918	Feb. 26, 1918	8.3	10,400	1928	Mar. 30, Apr. 30	5.6	5,000
1919	May 22, 1919	6.6	6,930				
1920	Mar. 12, 1920	8.2	10,000	1934	Apr. 11, 1934	5.3	4,470

5465. Spring Creek near Axemann, Pa.

Location. --Lat 40°53'25", long 77°47'40", on right bank at upstream side of highway bridge, 1.6 miles west of Axemann, Centre County, 1.7 miles southwest of Bellefonte, and 2.5 miles upstream from Logan Branch.

Drainage area. --87.2 sq mi.

Gage. --Nonrecording gage prior to Nov. 19, 1940; recording thereafter. Datum of gage is 788.81 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 650 cfs and extended above.

Bankfull stage. --4 ft.

Historical data. --Flood of March 1936 reached a stage of 8.6 ft, from information by local residents.

Remarks. --Base for partial-duration series, 350 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 1936	8.6	—	1946	Nov. 29, 1945	3.79	577
					Feb. 28, 1946	4.27	822
1941	Mar. 22, 1941	3.62	500		May 27, 1946	3.53	456
					June 2, 1946	3.54	460
1942	Mar. 8, 1942	3.75	560				
	Mar. 9, 1942	3.39	402	1947	June 8, 1947	3.01	229
	Apr. 4, 1942	3.61	496				
	May 23, 1942	3.92	642	1948	Feb. 14, 1948	3.50	398
					Apr. 14, 1948	4.02	685
1943	Dec. 30, 1942	4.56	990		May 13, 1948	4.07	712
	Jan. 17, 1943	3.33	369				
	Jan. 18, 1943	3.30	357	1949	Dec. 30, 1948	3.49	438
	Mar. 12, 1943	3.69	529				
	Apr. 21, 1943	3.90	632	1950	Mar. 28, 1950	3.79	577
	Aug. 4, 1943	3.65	510				
				1951	Nov. 25, 1950	5.44	1,670
1944	Jan. 26, 1944	3.48	433		Dec. 4, 1950	3.96	671
	Jan. 27, 1944	3.61	492		Dec. 8, 1950	3.82	606
	Mar. 13, 1944	3.58	478		Feb. 7, 1951	4.45	950
	Mar. 17, 1944	3.38	390		Feb. 13, 1951	3.49	454
	May 7, 1944	4.03	712		Feb. 21, 1951	3.28	368
	May 28, 1944	3.40	398		Mar. 30, 1951	4.23	832
	June 2, 1944	3.35	378				
				1952	Mar. 11, 1952	3.98	696
1945	Feb. 27, 1945	3.34	373				
	Mar. 4, 1945	3.41	402	1953	Mar. 24, 1953	3.79	590
	Mar. 7, 1945	3.52	451		May 26, 1953	5.13	1,430
	Mar. 22, 1945	3.75	558		May 31, 1953	4.12	750
	May 18, 1945	3.41	402		June 7, 1953	3.53	472
	May 29, 1945	3.88	622				

Spring Creek at Axemann, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Mar. 1, 1954	4.09	750	1956 Cont.	Feb. 18, 1956	3.81	605
					Feb. 25, 1956	4.42	920
1955	Oct. 16, 1954	3.63	518		Mar. 8, 1956	3.27	364
	Feb. 23, 1955	3.40	416		Aug. 6, 1956	3.36	400
	Mar. 22, 1955	3.33	383		Aug. 12, 1956	3.26	360
	Aug. 13, 1955	3.43	426				
				1957	Apr. 6, 1957	3.91	650
1956	Oct. 15, 1955	3.30	370				
	Jan. 30, 1956	3.65	528	1958	Jan. 15, 1958	3.40	416
	Feb. 10, 1956	3.71	556		Feb. 26, 1958	3.80	600
	Feb. 15, 1956	3.52	468		Feb. 28, 1958	3.74	571

5470. Spring Creek near Bellefonte, Pa.

Location. --Lat 40°55'20", long 77°47'10", at highway bridge, 0.4 mile downstream from Buffalo Run, three-quarters of a mile east of Bellefonte, Centre County, and 1.7 miles upstream from mouth.

Drainage area. --145 sq mi.

Gage. --Nonrecording gage. Datum of gage is 714.25 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 1,000 cfs and extended above by logarithmic plotting.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	May 19, 1911	5.4	3,410	1916	June 17, 1916	5.4	2,740
1912	Mar. 15, 1912	6.4	5,160	1917	Feb. 24, 1917	4.2	1,340
1913	Mar. 27, 1913	3.8	1,380	1918	Feb. 26, 1918	5.0	2,210
1914	Mar. 28, 1914	3.5	1,090'	1919	May 22, 1919	4.3	1,430
1915	Feb. 15, 1915	3.9	1,480				

5480. North Bald Eagle Creek at Beech Creek Station, Pa.

Location. --Lat 41°03'55", long 77°34'00", at downstream end of center pier of highway bridge just downstream from Beech Creek, at Beech Creek Station, Clinton County.

Drainage area. --559 sq mi.

Gage. --Nonrecording gage prior to Jan. 10, 1930; recording gage thereafter. Datum of gage is 571.74 ft above mean sea level (Pennsylvania State highway benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 12,000 cfs and extended above by logarithmic plotting.

Remarks. --Base for partial-duration series, 5,700 cfs. Only annual peaks prior to 1920 are shown.

North Bald Eagle Creek at Beech Creek Station, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Sept. 9, 1911	8.8	10,800
1912	Oct. 2, 1911	10.9	15,700
1913	Mar. 27, 1913	9.4	12,000
1914	Mar. 28, 1914	9.3	11,800
1915	Feb. 25, 1915	9.0	11,100
1916	June 17, 1916	13.2	22,000
1917	Mar. 12, 1917	6.6	6,550
1918	Feb. 26, 1918	9.5	12,300
1919	May 22, 1919	9.4	12,000
1920	Nov. 27, 1919	6.4	5,960
	Mar. 13, 1920	10.2	13,900
	Mar. 17, 1920	7.0	7,060
1921	May 5, 1921	7.3	8,120
1922	Nov. 29, 1921	9.5	12,300
	Apr. 15, 1922	7.8	8,610
1923	Mar. 4, 1923	8.9	10,700
	Mar. 5, 1923	8.6	10,300
	July 28, 1923	6.6	6,320
1924	Jan. 17, 1924	7.5	8,010
	Mar. 29, 1924	6.4	5,960
	Apr. 6, 1924	11.0	15,900
	May 9, 1924	6.4	5,960
	May 12, 1924	8.9	10,900
	June 29, 1924	7.4	7,820
1925	Feb. 12, 1925	9.2	11,600
1926	Feb. 26, 1926	7.6	8,840
	Sept. 5, 1926	7.4	7,820
1927	Nov. 16, 1926	7.8	9,330
	Mar. 8, 1927	6.9	6,870
	Mar. 21, 1927	7.4	7,820
1928	Apr. 30, 1928	8.2	10,100
	June 6, 1928	6.8	6,680
1929	Feb. 26, 1929	7.2	7,440
	Mar. 14, 1929	7.4	8,360
	Apr. 17, 1929	7.2	7,440
	May 28, 1929	7.3	7,630
1930	Feb. 26, 1930	6.16	5,720
1931	Apr. 2, 1931	6.30	5,780
	May 8, 1931	6.75	6,680
	May 23, 1931	8.71	11,500
1932	Apr. 1, 1932	7.53	8,600
	May 11, 1932	6.73	6,500
1933	Mar. 15, 1933	6.69	6,760
1934	Apr. 12, 1934	6.37	6,120
1935	Jan. 10, 1935	6.00	5,350
1936	Mar. 12, 1936	10.90	15,700
	Mar. 18, 1936	14.42	25,600
1937	Jan. 22, 1937	7.05	6,990
	Apr. 28, 1937	8.88	10,900
1938	Dec. 19, 1937	7.34	7,560
	Jan. 25, 1938	6.69	6,420
1939	Feb. 15, 1939	6.17	5,520
1940	Mar. 31, 1940	11.06	16,200
	Apr. 4, 1940	7.08	7,180
	Apr. 9, 1940	6.63	6,240
	Apr. 21, 1940	6.90	6,800
1941	Apr. 6, 1941	6.33	5,970
1942	Dec. 24, 1941	7.48	8,010
	Mar. 9, 1942	7.31	7,630
	Apr. 4, 1942	7.19	7,440
	May 22, 1942	9.00	11,100
1943	Dec. 30, 1942	10.94	15,700
	Apr. 21, 1943	8.70	10,500
	May 12, 1943	6.43	5,970
1944	Mar. 17, 1944	6.91	6,870
	May 7, 1944	9.38	12,000
1945	Mar. 4, 1945	7.71	8,410
	Mar. 7, 1945	8.12	9,210
	Mar. 22, 1945	9.02	11,100
	May 18, 1945	6.72	6,510
1946	Nov. 29, 1945	8.23	9,420
	Feb. 28, 1946	6.26	5,790
	May 27, 1946	12.48	20,000
1947	June 8, 1947	5.60	4,610
1948	Apr. 12, 1948	6.86	6,870
	Apr. 15, 1948	9.65	12,500
1949	Dec. 30, 1948	7.91	8,810
	May 21, 1949	6.3	5,780
1950	Jan. 10, 1950	7.00	7,060
	Mar. 27, 1950	6.32	5,780
	Mar. 29, 1950	7.94	8,810
1951	Nov. 25, 1950	12.96	21,400
	Dec. 4, 1950	7.31	7,630
	Dec. 8, 1950	6.59	6,320
	Mar. 31, 1951	9.18	11,600
	June 14, 1951	7.72	8,410
1952	Jan. 27, 1952	6.94	6,870
	Mar. 11, 1952	9.52	12,300
	May 25, 1952	7.18	7,440
1953	Mar. 24, 1953	8.59	10,300
	May 23, 1953	8.05	9,010
	May 26, 1953	10.30	14,200
	May 31, 1953	8.34	9,630
1954	Mar. 2, 1954	9.24	11,600
1955	Oct. 16, 1954	6.28	5,780
	Mar. 22, 1955	6.53	6,140
1956	Oct. 15, 1955	8.58	10,300
	Mar. 8, 1956	7.93	8,810
1957	Apr. 9, 1957	7.96	9,010
1958	Feb. 28, 1958	[a]—	—

[a]Backwater from ice, discharge not determined.

5485. Pine Creek at Cedar Run, Pa.

Location. --Lat 41°31'20", long 77°26'55", on left bank at downstream side of highway bridge at village of Cedar Run, Lycoming County, 2,000 ft downstream from Cedar Run and 1.2 miles upstream from Gamble Run.

Drainage area. --604 sq mi.

Gage. --Nonrecording gage prior to Feb. 13, 1930; recording gage thereafter. Datum of gage is 780.36 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 16,000 cfs and extended on basis of slope-area measurement.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 5,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	May 11, 1919	5.7	7,800	1937	Nov. 5, 1936	5.37	6,810
	May 22, 1919	9.1	19,500		Jan. 22, 1937	5.91	8,400
					Jan. 25, 1937	5.15	6,260
1920	Mar. 13, 1920	7.5	12,500		Aug. 27, 1937	7.23	12,300
1921	Feb. 16, 1921	5.0	5,700	1938	Oct. 29, 1937	5.32	6,670
					Nov. 13, 1937	7.96	15,100
1922	Nov. 29, 1921	5.52	7,230		Jan. 25, 1938	5.58	7,520
	Mar. 7, 1922	5.4	6,940		Mar. 6, 1938	5.51	7,230
	Apr. 18, 1922	5.1	6,100		June 27, 1938	5.34	6,810
1923	Mar. 4, 1923	6.3	9,600	1939	Feb. 20, 1939	6.32	9,600
1924	Jan. 11, 1924	5.5	7,230	1940	Mar. 31, 1940	7.90	14,700
	Jan. 17, 1924	5.1	6,100		Apr. 4, 1940	7.89	14,700
	Apr. 6, 1924	8.6	16,700		Apr. 9, 1940	7.12	12,000
	Apr. 18, 1924	5.3	6,660		Apr. 12, 1940	5.94	8,400
	May 12, 1924	7.1	12,000				
	Sept. 30, 1924	5.9	8,400	1941	Apr. 5, 1941	6.33	9,600
1925	Feb. 12, 1925	7.2	11,500	1942	Dec. 24, 1941	6.00	8,700
					Mar. 9, 1942	7.34	12,600
1926	Jan. 19, 1926	[a]8.6	——		Mar. 18, 1942	5.29	6,670
	Mar. 25, 1926	5.8	8,140		May 22, 1942	8.26	16,300
					July 18, 1942	7.50	13,200
1927	Nov. 16, 1926	6.1	8,990				
	Mar. 8, 1927	5.5	7,230	1943	Dec. 30, 1942	7.56	13,500
	Mar. 21, 1927	5.6	7,520		Mar. 17, 1943	5.50	7,230
					Apr. 21, 1943	7.33	12,600
1928	Nov. 29, 1927	5.6	7,580		May 12, 1943	5.80	8,100
	Mar. 27, 1928	5.6	7,580		May 21, 1943	5.16	6,280
	Apr. 8, 1928	5.2	6,400				
	Apr. 30, 1928	5.7	7,870	1944	Nov. 8, 1943	5.18	6,410
	June 6, 1928	7.2	12,200		Mar. 17, 1944	5.50	7,230
					May 7, 1944	6.40	9,900
1929	Mar. 14, 1929	7.16	12,200		June 19, 1944	5.36	6,820
	Apr. 6, 1929	7.10	12,000				
	Apr. 21, 1929	6.40	9,870	1945	Mar. 3, 1945	6.67	10,800
					Mar. 7, 1945	5.05	6,020
1930	Nov. 18, 1929	5.0	5,840		Mar. 18, 1945	6.53	10,200
					Mar. 22, 1945	5.47	7,090
1931	May 24, 1931	5.09	6,120		May 5, 1945	5.27	6,540
					May 18, 1945	6.28	9,600
1932	Apr. 1, 1932	5.91	8,470		June 2, 1945	5.15	6,280
	May 11, 1952	5.84	8,110				
				1946	Jan. 6, 1946	5.50	7,230
1933	Nov. 10, 1932	5.44	7,100		Mar. 7, 1946	5.52	7,230
	Aug. 24, 1933	5.13	6,260		Mar. 9, 1946	5.33	6,820
					May 28, 1946	14.39	52,000
1934	Apr. 12, 1934	5.03	5,980		June 2, 1946	6.00	6,600
1935	Jan. 9, 1935	4.82	5,330	1947	Apr. 5, 1947	9.01	18,100
	Mar. 6, 1935	[a]5.00	——		May 22, 1947	6.11	6,900
1936	Mar. 12, 1936	9.30	20,300	1948	Feb. 20, 1948	—	8,700
	Mar. 18, 1936	11.39	30,900		Mar. 17, 1948	6.10	7,800
	Mar. 26, 1936	6.24	9,300		Mar. 22, 1948	8.90	18,100

Pine Creek at Cedar Run, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 12, 1948	6.13	7,800	1953	Dec. 11, 1952	6.96	10,500
Cont.	Apr. 14, 1948	7.25	11,300		Jan. 24, 1953	5.84	6,640
					Mar. 24, 1953	7.95	14,500
1949	Dec. 30, 1948	5.19	5,130		May 23, 1953	6.55	8,880
1950	Jan. 7, 1950	5.87	7,050	1954	Mar. 1, 1954	8.76	17,700
	Mar. 28, 1950	7.26	11,700		May 4, 1954	5.91	6,790
	Apr. 5, 1950	8.35	16,100				
				1955	Mar. 4, 1955	6.06	7,240
1951	Oct. 9, 1950	5.82	6,900				
	Nov. 5, 1950	5.66	6,450	1956	Oct. 14, 1955	9.19	19,600
	Nov. 25, 1950	11.77	33,400		Mar. 8, 1956	8.83	17,600
	Dec. 4, 1950	6.28	8,000		Apr. 5, 1956	7.58	12,900
	Dec. 8, 1950	6.52	8,700				
	Mar. 30, 1951	10.88	28,100	1957	Nov. 2, 1956	6.52	8,700
					Jan. 23, 1957	5.84	6,640
1952	Jan. 18, 1952	6.32	8,000		Apr. 6, 1957	6.21	7,690
	Mar. 11, 1952	7.66	13,300		Apr. 25, 1957	5.92	6,790
	Apr. 6, 1952	7.03	10,500				
	Apr. 15, 1952	5.68	6,190	1958	Dec. 21, 1957	6.26	7,840
	May 25, 1952	6.08	7,390		Apr. 7, 1958	7.04	10,500
					Apr. 17, 1958	5.69	6,190
					May 7, 1958	5.80	6,490

[a]Backwater from ice.

5490. Pine Creek near Waterville, Pa.

Location. --Lat 41°18'45", long 77°22'45", at highway bridge on State Highway 44, 0.7 mile downstream from Bottom Run, 0.9 mile northwest of Waterville, Lycoming County, and 1.0 mile upstream from Little Pine Creek.

Drainage area. --750 sq mi.

Gage. --Nonrecording gage. Datum of gage is 608.04 ft above mean sea level (unadjusted).

Stage-discharge relation. --Defined by current-meter measurements below 22,000 cfs and extended.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	May 1, 1909	12.5	30,000	1916	Apr. 14, 1916	9.9	19,600
1910	Apr. 26, 1910	12.16	28,570	1917	Mar. 12, 1917	6.7	9,500
				1918	Mar. 14, 1918	12.3	28,700
1911	Mar. 28, 1911	5.67	6,830	1919	May 22, 1919	12.1	27,900
1912	Apr. 3, 1912	8.73	15,600	1920	Mar. 13, 1920	9.9	19,600
1913	Mar. 27, 1913	12	27,900				
1914	Mar. 28, 1914	11.41	25,500				
1915	Feb. 25, 1915	9.97	19,900				

5495. Blockhouse Creek near English Center, Pa.

Location. --Lat 41°28'30", long 77°13'50", on right bank just downstream from bridge on State Highway 284, 0.7 mile upstream from Blacks Creek, 1.7 miles upstream from confluence with Texas Creek, and 5 miles northeast of English Center, Lycoming County.

Drainage area. --37.7 sq mi.

Gage. --Recording gage. Datum of gage is 1,041.85 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 920 cfs and extended on basis of contracted-opening measurement.

Remarks. --Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	9.0	5,780	1950	Mar. 28, 1950	5.57	1,700
					Apr. 5, 1950	4.83	1,220
1941	Apr. 5, 1941	5.39	1,450		Sept. 1, 1950	5.06	1,350
1942	Dec. 24, 1941	7.29	3,340	1951	Nov. 25, 1950	7.26	3,360
	Mar. 9, 1942	6.53	2,460		Dec. 8, 1950	5.74	1,850
	Mar. 16, 1942	5.00	1,140		Mar. 30, 1951	8.61	5,180
	May 22, 1942	6.34	2,250				
				1952	Mar. 11, 1952	7.17	3,240
1943	Dec. 30, 1942	6.42	2,300		Apr. 5, 1952	4.90	1,250
	Feb. 21, 1943	[a]5.10	——				
	Apr. 21, 1943	5.47	1,460	1953	Nov. 22, 1952	4.91	1,250
					Dec. 11, 1952	6.96	3,010
1944	Nov. 9, 1943	6.06	1,960		Mar. 24, 1953	5.94	2,010
	May 7, 1944	6.02	1,920				
				1954	Nov. 23, 1953	4.94	1,280
1945	Feb. 22, 1945	[a]5.07	——		Mar. 1, 1954	6.93	2,900
	Mar. 3, 1945	5.28	1,340		May 4, 1954	5.15	1,420
1946	Nov. 22, 1945	5.05	1,180	1955	Mar. 4, 1955	4.14	780
	Nov. 29, 1945	5.21	1,280				
	Feb. 27, 1946	6.28	2,200	1956	Oct. 14, 1955	7.67	3,830
	May 27, 1946	8.81	5,480		Mar. 8, 1956	5.00	1,320
	July 21, 1946	4.96	1,120				
				1957	Nov. 2, 1956	7.85	4,010
1947	Apr. 5, 1947	4.86	1,060		Apr. 5, 1957	5.36	1,560
1948	Mar. 21, 1948	5.19	1,460	1958	Dec. 20, 1957	4.96	1,280
	Apr. 14, 1948	5.17	1,420		Jan. 15, 1958	4.95	1,280
1949	Nov. 20, 1948	5.06	1,360				

[a]Backwater from ice.

5500. Lycoming Creek near Trout Run, Pa.

Location. --Lat 41°25'05", long 77°02'00", on right bank 150 ft upstream from highway bridge, 300 ft upstream from Pennsylvania Railroad bridge, 0.5 mile downstream from Grays Run, and 2 3/4 miles upstream from village of Trout Run, Lycoming County.

Drainage area. --173 sq mi.

Gage. --Nonrecording gage prior to May 26, 1939; recording gage thereafter. Prior to May 26, 1939 at site 150 ft downstream. Datum of gage is 693.95 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 9,200 cfs and extended above.

Bankfull stage. --9 ft.

Remarks. --Base for partial-duration series, 2,900 cfs.

Lycoming Creek near Trout Run, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 28, 1914	10.28	5,760
	May 13, 1914	8.2	3,400
1915	Jan. 7, 1915	10.3	5,760
	Feb. 24, 1915	9.99	5,730
	July 8, 1915	11.30	7,420
1916	Mar. 31, 1916	8.8	4,380
	June 17, 1916	10.8	6,740
	Apr. 14, 1916	8.4	3,980
1917	Mar. 27, 1917	7.4	2,980
	Aug. 9, 1917	9.3	4,930
1918	Feb. 26, 1918	10.1	5,850
	Mar. 14, 1918	10.2	5,970
1919	May 22, 1919	10.8	6,740
	July 22, 1919	12.14	8,550
1920	Mar. 12, 1920	8.5	4,080
1921	Dec. 14, 1920	8.8	4,380
1922	June 3, 1922	11.24	7,280
1923	Mar. 16, 1923	7.10	2,690
1924	Jan. 11, 1924	9.60	5,260
	Apr. 6, 1924	13.80	11,000
	Sept. 30, 1924	10.00	5,730
1925	Feb. 11, 1925	9.50	5,150
1926	Nov. 13, 1925	7.80	3,380
	Mar. 25, 1926	7.6	3,180
1927	Nov. 16, 1926	16.3	15,400
	Mar. 13, 1927	8.1	4,250
1928	Apr. 30, 1928	7.7	3,810
	June 6, 1928	11.0	8,000
	June 30, 1928	9.0	5,300
1929	Mar. 14, 1929	8.42	4,580
1930	Mar. 8, 1930	6.80	2,860
1931	May 23, 1931	6.74	2,760
1932	Mar. 31, 1932	6.60	2,660
1933	Nov. 10, 1932	7.3	3,380
	Nov. 19, 1932	6.9	2,960
	Aug. 24, 1933	13.9	11,800
	Sept. 10, 1933	10.5	7,150
1934	Apr. 11, 1934	7.84	3,920
1935	Dec. 1, 1934	9.4	5,780
1936	Nov. 13, 1935	7.8	3,920
	Mar. 12, 1936	11.99	9,100
	Mar. 18, 1936	17.34	17,000
1937	Apr. 6, 1937	6.6	3,100
1938	Nov. 13, 1937	13.74	11,500
1939	Feb. 15, 1939	6.6	3,100
	Feb. 20, 1939	6.8	3,300
1940	Mar. 31, 1940	10.10	6,630
	Apr. 4, 1940	9.88	6,370
	Apr. 8, 1940	9.91	6,370
1941	Apr. 5, 1941	8.98	5,220
1942	Dec. 24, 1941	13.72	11,500
	Mar. 9, 1942	9.85	6,240
	May 22, 1942	10.94	7,670
	Sept. 27, 1942	7.50	3,590
1943	Dec. 30, 1942	9.43	5,720
	Apr. 21, 1943	8.20	4,320
1944	Nov. 9, 1943	11.71	8,710
	Mar. 17, 1944	7.07	3,190
	May 7, 1944	10.56	7,280
1945	Mar. 3, 1945	7.72	3,790
	Mar. 16, 1945	7.80	3,890
	Mar. 17, 1945	7.94	3,990
	Mar. 22, 1945	7.20	3,290
	May 28, 1945	8.58	4,760
	June 3, 1945	7.68	3,790
1946	Nov. 22, 1945	8.30	4,430
	Nov. 29, 1945	7.54	3,590
	Mar. 9, 1946	8.98	5,220
	May 27, 1946	19.37	21,800
1947	Oct. 12, 1946	7.14	3,280
	Apr. 5, 1947	8.92	5,550
	Aug. 21, 1947	7.86	4,210
	Aug. 26, 1947	7.27	3,500
1948	Mar. 16, 1948	7.24	3,390
	Mar. 21, 1948	8.90	5,550
	Apr. 1, 1948	7.12	3,280
	Apr. 2, 1948	6.94	3,060
	Apr. 14, 1948	5.16	5,160
1949	Nov. 20, 1948	9.83	6,810
	Dec. 30, 1948	7.33	3,650
1950	Mar. 28, 1950	8.71	5,290
	Apr. 4, 1950	8.79	5,420
	Sept. 1, 1950	7.82	4,180
1951	Nov. 25, 1950	12.58	10,900
	Dec. 4, 1950	8.01	4,420
	Dec. 8, 1950	9.13	5,830
	Jan. 24, 1951	6.56	2,920
	Mar. 30, 1951	11.86	9,850
1952	Dec. 5, 1951	6.89	3,220
	Feb. 4, 1952	7.64	3,960
	Mar. 11, 1952	11.78	9,700
	Apr. 5, 1952	8.88	5,550
1953	Nov. 22, 1952	8.68	5,290
	Dec. 11, 1952	12.31	10,400
	Jan. 24, 1953	8.10	4,540
	Mar. 24, 1953	10.46	7,790
1954	Nov. 23, 1953	7.44	3,740
	Feb. 21, 1954	7.90	4,300
	Mar. 1, 1954	11.24	8,800
	May 4, 1954	10.10	7,230
1955	Dec. 30, 1954	6.67	3,020
	Mar. 4, 1955	6.73	3,020

Lycoming Creek near Trout Run, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1956	Oct. 14, 1955	16.40	16,800	1958	Dec. 21, 1957	10.61	7,930
	Oct. 16, 1955	7.40	3,740		Dec. 26, 1957	6.72	3,020
	Mar. 8, 1956	8.44	4,900		Apr. 6, 1958	7.72	4,070
	Apr. 4, 1956	6.88	3,220		Apr. 22, 1958	6.69	3,020
1957	Nov. 2, 1956	12.21	10,300				
	Jan. 23, 1957	7.00	3,320				
	Apr. 6, 1957	8.67	5,290				

5510. Grafius Run at Williamsport, Pa.

Location.--Lat 41°15'15", long 77°00'40", on left bank 10 ft downstream from footbridge at end of Vallamont Drive in Williamsport, Lycoming County, and 1.5 miles upstream from mouth.

Drainage area.--3.14 sq mi.

Gage.--Recording gage. Datum of gage is 553.66 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 99 cfs and extended above.

Remarks.--Base for partial-duration series, 65 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 3, 1940	1.63	107	1947	Jan. 15, 1947	1.55	71
	Apr. 8, 1940	1.65	111				
	Apr. 21, 1940	1.48	77	1948	Mar. 16, 1948	1.79	131
	June 1, 1940	1.55	90		Apr. 2, 1948	1.72	113
	July 23, 1940	1.43	70		Apr. 14, 1948	2.13	245
					July 13, 1948	1.59	88
1941	Aug. 15, 1941	1.40	62		July 23, 1948	2.30	245
1942	Nov. 7, 1941	1.68	117	1949	Nov. 1, 1948	1.87	99
	Dec. 24, 1941	2.54	420		Nov. 6, 1948	2.35	238
	July —, 1942	1.60	85		Nov. 20, 1948	1.84	101
					Dec. 30, 1948	1.98	169
1943	Dec. 30, 1942	2.30	309		May 20, 1949	1.51	69
	Feb. 11, 1943	1.62	90				
	Mar. 7, 1943	1.62	90	1950	Dec. 26, 1949	1.54	65
	Apr. 19, 1943	1.71	111		Mar. 28, 1950	2.28	293
	Aug. 14, 1943	1.61	87				
				1951	Nov. 25, 1950	2.91	606
1944	Oct. 26, 1943	1.85	148		Dec. 4, 1950	1.94	176
	Nov. 8, 1943	2.25	288		Dec. 7, 1950	2.01	198
	Mar. 12, 1944	1.58	81		Mar. 30, 1951	1.72	114
	May 7, 1944	1.61	87				
	June 19, 1944	2.47	386	1952	Mar. 11, 1952	2.56	430
					Apr. 5, 1952	1.55	82
1945	Mar. 21, 1945	1.74	118		Apr. 16, 1952	1.53	78
	May 28, 1945	1.55	75		July 21, 1952	1.54	80
	June 2, 1945	2.15	249				
	Sept. 27, 1945	1.74	103	1953	Nov. 22, 1952	1.49	70
					Dec. 11, 1952	2.03	206
1946	Nov. 22, 1945	1.60	82		Mar. 24, 1953	1.76	125
	Nov. 29, 1945	2.43	367		May 22, 1953	2.53	415
	Feb. 28, 1946	2.00	195		May 23, 1953	1.52	76
	Mar. 8, 1946	1.93	173				
	May 27, 1946	3.43	910				
	Sept. 24, 1946	1.79	130				

Note.-1940 records, April to September only.

5515. West Branch Susquehanna River at Williamsport, Pa.

Location. --Lat 41°14'15", long 76°59'55", on left bank at upstream edge of Market Street Bridge at Williamsport, Lycoming County, 350 ft upstream from Hagermans Run.

Drainage area. --5,682 sq mi.

Gage. --Nonrecording gage prior to Sept. 30, 1928; recording gage thereafter. Datum of gage is 494.98 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 210,000 cfs and extended on basis of slope-area measurement.

Bankfull stage. --20 ft.

Remarks. --Base for partial-duration series, 51,000 cfs. Only annual peaks are shown prior to 1901.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1895	Apr. 10, 1895	12.0	52,400
1896	Mar. 31, 1896	14.4	72,700
1897	Mar. 25, 1897	11.9	51,600
1898	Mar. 24, 1898	21.0	141,000
1899	Mar. 5, 1899	13.5	64,600
1900	Jan. 21, 1900	14.6	74,600
1901	Nov. 27, 1900	17.0	98,600
	Apr. 22, 1901	15.9	87,400
	May 30, 1901	14.0	69,100
1902	Dec. 15, 1901	20.7	138,000
	Mar. 1, 1902	21.7	149,000
	Mar. 17, 1902	13.8	67,300
	Apr. 10, 1902	17.0	98,600
1903	Feb. 4, 1903	16.0	88,400
	Mar. 1, 1903	17.7	106,000
	Mar. 10, 1903	13.2	62,000
	Mar. 24, 1903	13.3	62,800
1904	Nov. 18, 1903	12.0	52,400
	Jan. 23, 1904	[a]16.2	———
	Mar. 4, 1904	21.0	141,000
	Mar. 8, 1904	18.0	109,000
	Mar. 24, 1904	18.0	109,000
	Apr. 2, 1904	17.2	100,000
1905	Mar. 20, 1905	19.4	124,000
1906	Dec. 4, 1905	16.8	96,600
1907	Mar. 15, 1907	18.8	117,000
1908	Feb. 16, 1908	17.0	98,600
	Mar. 20, 1908	17.4	103,000
	Mar. 30, 1908	12.4	55,400
1909	Feb. 17, 1909	12.0	52,400
	Feb. 25, 1909	14.5	73,600
	Apr. 15, 1909	12.8	58,600
	May 1, 1909	21.0	141,000
1910	Jan. 22, 1910	12.5	56,200
	Mar. 1, 1910	16.4	92,500
	Apr. 26, 1910	17.3	102,000
1911	Jan. 15, 1911	19.0	120,000
1912	Oct. 3, 1911	16.0	88,400
	Mar. 16, 1912	18.4	113,000
	Mar. 30, 1912	16.6	94,500
	Apr. 3, 1912	17.9	108,000
1913	Jan. 9, 1913	17.4	102,000
	Mar. 27, 1913	20.4	135,000
	Apr. 29, 1913	12.0	52,400
	May 29, 1913	12.4	55,400
1914	Mar. 29, 1914	18.9	119,000
	May 13, 1914	14.15	70,900
1915	Jan. 8, 1915	16.3	91,900
	Feb. 16, 1915	12.65	57,000
	Feb. 25, 1915	17.4	103,000
1916	Mar. 29, 1916	20.5	136,000
	Apr. 15, 1916	14.8	76,500
	June 4, 1916	16.2	———
	June 17, 1916	21.0	141,000
1917	Mar. 13, 1917	11.6	49,400
1918	Feb. 21, 1918	21.4	145,000
	Feb. 27, 1918	14.56	74,600
	Mar. 15, 1918	19.12	121,000
1919	May 11, 1919	15.7	85,400
	May 22, 1919	20.9	140,000
1920	Mar. 13, 1920	20.4	135,000
	Mar. 18, 1920	13.5	64,600
1921	Mar. 9, 1921	11.8	50,900
1922	Nov. 29, 1921	15.8	86,400
1923	Mar. 5, 1923	21.6	147,000
	May 13, 1923	14.5	73,600
1924	Mar. 31, 1924	13.0	60,300
	Apr. 7, 1924	19.0	120,000
	May 13, 1924	16.2	90,400
1925	Feb. 12, 1925	19.5	125,000
1926	Sept. 6, 1926	13.5	64,600
1927	Dec. 23, 1926	14.7	75,600
	Jan. 22, 1927	18.7	117,000
	Mar. 9, 1927	13.6	65,500
	Mar. 15, 1927	13.4	63,700
	Mar. 22, 1927	15.5	83,400
	May 26, 1927	12.8	58,600
1928	Dec. 15, 1927	13.3	62,800
	Dec. 17, 1927	14.0	69,100
	Apr. 9, 1928	12.2	53,900
	May 1, 1928	13.7	66,400
	June 6, 1928	17.86	108,000
	July 6, 1928	14.5	73,700

West Branch Susquehanna River at Williamsport, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 15, 1929	16.62	94,500
1930	Feb. 27, 1930	12.29	54,700
1931	May 24, 1931	12.76	58,600
1932	Apr. 1, 1932	14.68	75,600
	May 12, 1932	13.94	68,200
1933	Mar. 16, 1933	14.30	71,800
	Aug. 24, 1933	14.00	69,100
1934	Jan. 2, 1934	11.49	48,800
1935	Jan. 10, 1935	12.20	53,900
1936	Mar. 12, 1936	23.6	164,000
	Mar. 18, 1936	33.57	264,000
1937	Jan. 24, 1937	16.74	95,000
	Jan. 27, 1937	14.42	72,800
	Apr. 29, 1937	16.23	90,000
1938	Nov. 14, 1937	13.30	57,800
	Dec. 19, 1937	16.10	80,600
1939	Feb. 21, 1939	12.30	51,600
1940	Apr. 1, 1940	22.73	146,000
	Apr. 5, 1940	19.33	112,000
	Apr. 9, 1940	16.87	89,900
	Apr. 21, 1940	13.85	64,000
1941	Apr. 6, 1941	15.46	72,500
1942	Dec. 25, 1941	13.35	56,800
	Mar. 10, 1942	16.23	82,600
	Mar. 18, 1942	13.58	61,000
	May 23, 1942	19.19	101,000
	July 19, 1942	18.76	110,000
1943	Dec. 31, 1942	23.03	148,000
	Apr. 22, 1943	19.00	109,000
	May 13, 1943	13.33	60,300
1944	Mar. 18, 1944	14.95	68,000
	May 8, 1944	15.70	69,600
1945	Feb. 28, 1945	15.60	74,200
	Mar. 4, 1945	17.99	97,000
	Mar. 7, 1945	17.72	94,000
	Mar. 18, 1945	14.90	68,500
1945 Cont.	Mar. 23, 1945	16.31	80,500
	May 18, 1945	14.78	67,700
1946	Nov. 30, 1945	13.16	56,000
	Mar. 9, 1946	13.58	58,800
	May 28, 1946	29.63	223,000
1947	Apr. 6, 1947	12.16	49,600
1948	Mar. 22, 1948	13.67	59,500
	Apr. 15, 1948	20.63	124,000
1949	Dec. 31, 1948	12.54	51,500
1950	Mar. 29, 1950	18.35	101,000
	Apr. 5, 1950	16.01	77,800
1951	Nov. 6, 1950	13.66	59,300
	Nov. 26, 1950	28.11	206,000
	Dec. 5, 1950	14.90	68,500
	Dec. 9, 1950	13.96	61,600
	Mar. 31, 1951	20.15	119,000
1952	Jan. 3, 1952	13.55	58,600
	Jan. 19, 1952	13.33	56,400
	Jan. 28, 1952	16.59	83,200
	Apr. 16, 1952	15.36	72,500
	May 26, 1952	14.71	66,900
1953	Mar. 25, 1953	16.64	83,200
	May 23, 1953	16.08	78,700
	May 27, 1953	15.78	76,000
	June 1, 1953	15.52	73,300
1954	Mar. 2, 1954	19.97	117,000
1955	Dec. 31, 1954	13.27	56,400
	Mar. 2, 1955	12.88	53,600
	Mar. 6, 1955	13.61	58,600
	Mar. 23, 1955	12.84	52,900
1956	Oct. 15, 1955	16.86	86,000
	Mar. 9, 1956	20.37	121,000
	Apr. 5, 1956	14.22	63,000
	May 14, 1956	13.75	60,000
1957	Nov. 3, 1956	14.79	67,700
	Apr. 7, 1957	15.17	70,900
1958	Apr. 7, 1958	15.68	75,100
	May 9, 1958	13.20	55,700

[a]Backwater from ice.

5520. Loyalsock Creek at Loyalsock, Pa.

Location. --Lat 41°19'25", long 76°54'40", on left bank just downstream from highway bridge at Loyalsock, Lycoming County, 2.5 miles downstream from Wallis Run and 7.3 miles upstream from mouth.

Drainage area. --443 sq mi.

Gage. --Nonrecording gage prior to Sept. 17, 1926; recording gage thereafter. Datum of gage is 585.63 ft above mean sea level (Pennsylvania State highway benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 10,000 cfs and extended on basis of slope-area measurement.

Remarks. --Base for partial-duration series, 6,400 cfs.

Loyalsock Creek at Loyalsock, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Nov. 13, 1925	6.80	7,300
1927	Oct. 6, 1926	7.75	11,300
	Nov. 16, 1926	12.3	51,200
	Nov. 19, 1926	7.42	9,550
	Mar. 14, 1927	7.43	9,550
1928	Oct. 19, 1927	8.58	15,100
	Dec. 8, 1927	8.50	14,600
	Feb. 15, 1928	6.68	7,000
	Apr. 30, 1928	8.20	13,100
	June 6, 1928	8.72	15,600
	June 30, 1928	9.00	17,400
	July 6, 1928	6.48	6,400
1929	Mar. 14, 1929	7.00	8,000
	May 3, 1929	10.50	29,600
1930	Apr. 7, 1930	6.44	6,340
1931	Mar. 29, 1931	7.66	10,500
1932	Apr. 1, 1932	8.06	12,000
	Apr. 3, 1932	6.98	8,000
1933	Oct. 6, 1932	6.78	7,300
	Nov. 19, 1932	6.57	6,550
	Aug. 24, 1933	12.20	50,000
	Sept. 4, 1933	6.56	6,550
	Sept. 16, 1933	8.49	14,600
1934	Apr. 1, 1934	7.75	10,900
	Sept. 17, 1934	7.62	10,400
1935	Dec. 1, 1934	9.31	19,400
1936	Nov. 13, 1935	8.68	15,600
	Mar. 12, 1936	10.80	32,700
	Mar. 18, 1936	11.58	42,900
	Mar. 21, 1936	7.25	8,320
1937	Feb. 22, 1937	6.92	6,900
	Aug. 11, 1937	6.94	7,100
1938	Oct. 23, 1937	9.25	18,600
	Nov. 13, 1937	7.52	9,450
	Jan. 25, 1938	7.05	7,500
1939	Dec. 10, 1938	8.61	14,700
	Feb. 15, 1939	7.50	9,450
	Feb. 20, 1939	6.93	7,100
1940	Mar. 31, 1940	9.51	21,300
	Apr. 4, 1940	8.47	15,200
	Apr. 7, 1940	8.21	13,600
	Apr. 20, 1940	7.73	11,400
	Sept. 1, 1940	9.62	22,000
1941	Apr. 5, 1941	8.32	14,100
1942	Dec. 24, 1941	9.87	24,100
	Mar. 9, 1942	8.44	14,600
	May 23, 1942	9.06	18,200
	Sept. 27, 1942	8.66	16,400
1943	Dec. 30, 1942	9.22	19,400
	Feb. 24, 1943	6.70	6,600
	Mar. 20, 1943	6.74	6,800
	Apr. 20, 1943	7.37	9,350
	May 26, 1943	6.75	6,800
1944	Oct. 28, 1943	7.50	10,100
	Nov. 9, 1943	9.05	18,200
1944 Cont.	Mar. 17, 1944	7.38	9,600
	Mar. 24, 1944	7.02	8,000
	May 7, 1944	9.49	21,300
1945	Mar. 3, 1945	7.67	10,800
	Mar. 17, 1945	7.25	8,850
	Mar. 22, 1945	6.77	6,800
	May 5, 1945	6.83	7,200
	May 29, 1945	7.00	7,800
1946	Nov. 22, 1945	7.31	91,000
	Mar. 9, 1946	9.08	19,800
	May 28, 1946	12.20	50,000
	Sept. 24, 1946	6.64	6,400
1947	Mar. 14, 1947	7.88	12,100
	Apr. 5, 1947	8.40	15,100
	May 6, 1947	6.90	7,400
	May 25, 1947	8.13	13,600
	June 15, 1947	6.80	7,000
1948	Mar. 16, 1948	7.50	10,100
	Mar. 20, 1948	7.08	8,200
	Mar. 22, 1948	7.87	11,800
	Apr. 2, 1948	7.13	8,400
	Apr. 14, 1948	7.90	12,100
1949	Nov. 20, 1948	7.74	11,400
	Dec. 30, 1948	8.71	17,000
	Apr. 14, 1949	7.15	8,400
1950	Dec. 27, 1949	6.79	7,000
	Jan. 7, 1950	6.67	6,400
	Mar. 28, 1950	8.29	14,500
	Apr. 5, 1950	8.03	13,000
1951	Nov. 26, 1950	12.32	51,200
	Dec. 4, 1950	8.71	17,000
	Dec. 8, 1950	7.80	11,600
	Jan. 24, 1951	7.51	10,100
	Feb. 7, 1951	7.19	8,600
	Mar. 31, 1951	7.75	11,400
1952	Mar. 11, 1952	10.70	33,400
	Apr. 5, 1952	6.79	7,000
	May 12, 1952	7.16	8,400
1953	Nov. 22, 1952	7.78	11,600
	Dec. 11, 1952	8.81	17,700
	Jan. 24, 1953	8.20	13,900
	Feb. 21, 1953	6.66	6,400
	Mar. 24, 1953	7.04	8,000
1954	Dec. 7, 1953	6.71	6,600
	Feb. 21, 1954	7.33	9,280
	Mar. 2, 1954	7.38	9,500
	Apr. 17, 1954	6.84	7,200
	May 4, 1954	8.01	12,200
1955	Dec. 30, 1954	7.18	8,700
1956	Oct. 14, 1955	8.82	16,200
	Mar. 8, 1956	7.79	11,300
1957	Nov. 2, 1956	11.78	44,600
	Jan. 23, 1957	8.27	13,200
	Apr. 6, 1957	9.35	20,100
1958	Dec. 21, 1957	9.98	24,900
	Dec. 26, 1957	7.46	9,420
	Apr. 6, 1958	7.82	11,000
	Apr. 22, 1958	7.70	10,500

5525. Muncy Creek near Sonestown, Pa.

Location. --Lat 41°21'25", long 76°32'05", on right bank 150 ft downstream from Slip Run, 185 ft downstream from bridge on State Highway 464, and 1.2 miles east of Sonestown, Sullivan County.

Drainage area. --23.8 sq mi.

Gage. --Nonrecording gage prior to Apr. 1, 1941; recording gage thereafter. Datum of gage is 1,025.01 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,000 cfs and extended above.

Remarks. --Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 1936	9.3	——	1949	May 24, 1949	4.58	1,240
				Cont.	Aug. 29, 1949	5.19	1,250
1941	Apr. 5, 1941	5.16	1,830				
				1950	Aug. 20, 1950	5.54	1,530
1942	Dec. 24, 1941	7.35	5,240				
	May 22, 1942	5.28	2,020	1951	Nov. 25, 1950	7.38	4,430
					Dec. 4, 1950	6.29	2,420
1943	Dec. 2, 1942	4.46	1,120		Jan. 24, 1951	5.94	1,940
	Dec. 30, 1942	4.88	1,560		Feb. 7, 1951	5.53	1,500
	May 26, 1943	4.63	1,300		Mar. 30, 1951	5.61	1,550
1944	Oct. 26, 1943	4.43	1,100	1952	Mar. 11, 1952	8.61	7,310
	Nov. 8, 1943	4.87	1,500				
	May 7, 1944	5.00	1,670	1953	Nov. 22, 1952	5.38	1,460
					Dec. 11, 1952	4.99	1,160
1945	Sept. 18, 1945	4.90	1,560		Jan. 24, 1953	5.04	1,200
1946	Nov. 22, 1945	4.75	1,400	1954	Feb. 21, 1954	4.73	988
	Mar. 9, 1946	4.99	1,670				
	May 21, 1946	4.68	1,360	1955	Aug. 13, 1955	4.30	705
	May 27, 1946	6.22	3,250				
				1956	Oct. 14, 1955	5.39	1,460
1947	May 29, 1947	5.13	1,840				
				1957	Nov. 2, 1956	5.77	1,760
1948	Mar. 19, 1948	4.19	882		Jan. 23, 1957	5.18	1,300
					Apr. 6, 1957	5.13	1,140
1949	Dec. 30, 1948	4.88	1,560				
	Apr. 14, 1949	4.74	1,410	1958	Dec. 20, 1957	5.50	1,510

5535. West Branch Susquehanna River at Lewisburg, Pa.

Location. --Lat 40°58'05", long 76°52'25", at Market Street Bridge at Lewisburg, Union County, 0.2 mile downstream from Buffalo Creek and 7.4 miles upstream from mouth.
Drainage area. --6,847 sq mi.
Gage. --Nonrecording gage prior to July 2, 1940; recording gage therafter. Datum of gage is 428.20 ft above mean sea level, datum of 1929.
Bankful stage. --23 ft.
Stage-discharge relation. --Defined by current-meter and slope-area measurements.
Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1865	Mar. 17, 1865	26.5	——	1946	May 29, 1946	28.43	262,000
				1947	Apr. 6, 1947	13.29	58,700
1889	June 1, 1889	29.8	——	1948	Apr. 15, 1948	20.07	132,000
				1949	Dec. 31, 1948	13.66	70,000
1894	May 21, 1894	28.5	——	1950	Mar. 30, 1950	18.15	107,000
1902	Mar. 1, 1902	22.3	——	1951	Nov. 26, 1950	26.05	216,000
				1952	Mar. 12, 1952	18.08	112,000
1909	May 1, 1909	19.5	——	1953	Mar. 25, 1953	15.62	90,100
				1954	Mar. 3, 1954	18.51	118,000
1936	Mar. 19, 1936	32.1	287,000	1955	Mar. 6, 1955	13.27	68,100
1940	Apr. 1, 1940	22.7	164,000	1956	Mar. 9, 1956	19.80	121,000
				1957	Nov. 3, 1956	18.60	118,000
1941	Apr. 7, 1941	15.21	83,800	1958	Apr. 8, 1958	16.13	85,800
1942	May 23, 1942	18.57	117,000				
1943	Dec. 31, 1942	22.47	151,000				
1944	May 8, 1944	15.32	86,000				
1945	Mar. 5, 1945	17.23	102,000				

5540. Susquehanna River at Sunbury, Pa.

Location. --Lat 40°51'10", long 76°48'10", on left bank 50 ft downstream from highway bridge at Sunbury, Northumberland County, 0.7 miles upstream from Shamokin Creek and 1 3/4 miles downstream from West Branch Susquehanna River.

Drainage area. --18,300 sq mi, approximately.

Gage. --Nonrecording gage prior to Sept. 3, 1919; recording gage Sept. 4, 1919 to January 1922; nonrecording gage February 1922 to Dec. 11, 1937; recording gage thereafter. Prior to Nov. 20, 1934 at site 3,700 ft upstream. Prior to Sept. 30, 1923 at datum 1 ft higher. Datum of present gage is 419.66 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 430,000 cfs and extended above.

Bankfull stage. --16 ft.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1865	Mar. 1865	22.5	——	1938	Dec. 20, 1937	10.25	140,000
1889	June 1889	20.0	——	1939	Feb. 22, 1939	12.63	183,000
1894	May 1894	19.8	——	1940	Apr. 1, 1940	20.14	368,000
1919	May 23, 1919	12.50	190,000	1941	Apr. 7, 1941	13.58	212,000
1920	Mar. 14, 1920	17.0	290,000	1942	May 23, 1942	14.06	223,000
1921	Mar. 10, 1921	10.33	146,000	1943	Jan. 1, 1943	19.32	348,000
1922	Nov. 30, 1921	13.17	204,000	1944	May 9, 1944	11.75	174,000
1923	Mar. 5, 1923	13.8	217,000	1945	Mar. 5, 1945	13.83	217,000
1924	Apr. 7, 1924	15.8	261,000	1946	May 29, 1946	22.98	446,000
1925	Feb. 12, 1925	17.2	295,000	1947	Apr. 7, 1947	13.19	204,000
1926	Mar. 26, 1926	11.2	164,000	1948	Apr. 15, 1948	15.14	245,000
1927	Nov. 17, 1926	14.8	239,000	1949	Dec. 31, 1948	11.18	164,000
1928	Oct. 21, 1927 May 2, 1928	12.8 12.8	196,000 196,000	1950	Mar. 30, 1950	16.02	266,000
1929	Mar. 16, 1929	13.79	217,000	1951	Nov. 27, 1950	18.64	330,000
1930	Feb. 27, 1930	10.03	140,000	1952	Mar. 12, 1952	15.06	244,000
1931	Mar. 30, 1931	10.00	140,000	1953	Dec. 12, 1952	11.26	165,000
1932	Apr. 2, 1932	13.16	204,000	1954	Mar. 3, 1954	12.30	186,000
1933	Aug. 25, 1933	12.78	196,000	1955	Mar. 3, 1955	10.51	150,000
1934	Mar. 6, 1934	10.28	146,000	1956	Mar. 9, 1956	17.54	303,000
1935	July 11, 1935	11.7	174,000	1957	Apr. 7, 1957	13.18	204,000
1936	Mar. 19, 1936	26.85	556,000	1958	Apr. 8, 1958	15.38	252,000
1937	Jan. 23, 1937	11.92	178,000				

5545. Shamokin Creek at Weigh Scale, Pa.

Location. --Lat 40°48'30", long 76°35'05", on right bank at Weigh Scale, Northumberland County, 1 mile downstream from Trout Run and 2 miles northwest of Shamokin.

Drainage area. --54.2 sq mi.

Gage. --Recording gage. Datum of gage is 608.28 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 600 cfs and extended above.

Remarks. --Base for partial-duration series, 700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 30, 1940	3.94	1,850	1948	May 13, 1948	2.67	634
	July 23, 1940	4.18	2,040				
	Aug. 6, 1940	3.05	1,070	1949	Sept. 18, 1949	2.62	692
1941	Aug. 26, 1941	2.75	865	1950	July 24, 1950	2.81	775
1942	May 22, 1942	3.92	1,720	1951	Nov. 25, 1950	4.26	2,110
	May 31, 1942	2.88	872		Dec. 4, 1950	3.79	1,660
	June 3, 1942	2.72	754		Dec. 8, 1950	2.69	722
	June 4, 1942	3.78	1,580		Feb. 7, 1951	2.70	729
					Aug. 15, 1951	3.01	953
1943	Dec. 30, 1942	2.80	795				
	May 18, 1943	2.81	760	1952	Mar. 11, 1952	2.90	870
	May 19, 1943	2.98	844		May 11, 1952	3.34	1,240
	June 7, 1943	3.64	1,350				
	June 17, 1943	4.18	1,930	1953	Nov. 22, 1952	2.76	770
	June 28, 1943	3.82	1,560		May 23, 1953	2.70	729
					May 26, 1953	3.15	1,060
1944	Nov. 9, 1943	4.62	2,590				
	May 7, 1944	2.96	893	1954	Feb. 17, 1954	2.71	736
	June 18, 1944	2.91	830		Mar. 1, 1954	2.66	703
	June 19, 1944	3.18	1,020		Apr. 17, 1954	2.77	777
	Aug. 7, 1944	2.65	767		May 29, 1954	2.87	848
					June 13, 1954	2.82	812
1945	May 15, 1945	2.83	809				
	May 17, 1945	2.82	795	1955	Aug. 18, 1955	3.84	1,710
	June 28, 1945	2.71	760				
	June 29, 1945	2.61	700	1956	Oct. 14, 1955	2.66	772
	July 28, 1945	2.73	730		June 10, 1956	2.66	772
					July 4, 1956	2.82	884
1946	May 21, 1946	3.13	977		July 26, 1956	3.71	1,570
	May 25, 1946	2.76	724		Aug. 31, 1956	2.78	856
	May 26, 1946	2.98	858		Sept. 23, 1956	3.45	1,360
	May 27, 1946	3.23	1,030				
	June 29, 1946	3.24	1,050	1957	June 12, 1957	2.99	912
	July 16, 1946	2.91	809		July 9, 1957	2.81	816
1947	July 10, 1947	3.67	1,390	1958	Dec. 20, 1957	2.95	936
	July 21, 1947	2.83	754		July 5, 1958	3.40	1,300
	July 22, 1947	2.76	712		July 15, 1958	2.83	851
	July 28, 1947	3.70	1,390		July 28, 1958	3.54	1,440
	Aug. 30, 1947	2.72	736				

5550. Penn Creek at Penns Creek, Pa.

Location. --Lat 40°52'00", long 77°02'55", on left bank 200 ft downstream from bridge on State Highway 104 and three-quarters of a mile northeast of Penns Creek, Snyder County.

Drainage area. --301 sq mi.

Gage. --Nonrecording gage prior to Feb. 1, 1930; recording gage thereafter. Datum of gage is 506.72 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements below 5,600 cfs and extended above by logarithmic plotting.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 3,100 cfs.

Penn Creek at Penns Creek, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 23, 1929	6.95	4,020	1946	Nov. 29, 1945	8.68	6,340
	Mar. 8, 1930	6.26	3,260		May 27, 1946	9.79	8,170
1931	May 23, 1931	7.80	4,900		June 2, 1946	6.35	3,370
1932	Apr. 1, 1932	7.19	4,240	1947	Mar. 14, 1947	4.84	1,980
1933	Apr. 18, 1933	6.36	3,360	1948	Feb. 21, 1948	[a]6.75	—
	Aug. 24, 1933	11.00	10,400		Apr. 15, 1948	7.65	4,760
1934	Mar. 5, 1934	8.32	5,750	1949	Dec. 30, 1948	6.53	3,470
	Sept. 16, 1934	13.00	14,900		Apr. 14, 1949	6.20	3,170
1935	Dec. 1, 1934	8.52	6,010	1950	Mar. 29, 1950	8.53	6,340
1936	Mar. 11, 1936	10.90	10,200	1951	Nov. 25, 1950	11.62	11,700
	Mar. 18, 1936	12.12	12,800		Dec. 4, 1950	8.00	5,640
1937	Feb. 22, 1937	7.05	4,000		Dec. 8, 1950	8.17	5,920
	Apr. 28, 1937	6.95	4,000		Mar. 31, 1951	8.92	6,930
1938	Nov. 13, 1937	9.16	7,140	1952	Mar. 11, 1952	9.29	7,540
1939	Feb. 4, 1939	6.56	3,530		Apr. 6, 1952	6.06	3,290
1940	Mar. 31, 1940	11.61	11,700	1953	Nov. 22, 1952	5.98	3,180
	Apr. 21, 1940	6.41	3,310		Mar. 24, 1953	6.92	4,220
1941	Apr. 5, 1941	5.80	2,690		May 23, 1953	7.36	4,850
1942	Dec. 24, 1941	7.04	4,000		May 26, 1953	8.36	6,200
	Mar. 9, 1942	6.89	3,890		May 31, 1953	7.86	5,500
	May 23, 1942	10.14	8,710	1954	Mar. 2, 1954	9.02	7,080
1943	Dec. 30, 1942	9.26	7,310		May 4, 1954	7.72	5,240
	Apr. 21, 1943	6.71	3,670	1955	Aug. 13, 1955	6.39	3,620
1944	Nov. 9, 1943	7.25	4,240	1956	Oct. 15, 1955	9.30	7,540
	Jan. 4, 1944	6.70	3,670	1957	Nov. 2, 1956	9.88	8,510
	May 8, 1944	6.80	3,780		Apr. 6, 1957	7.50	4,980
1945	May 18, 1945	7.10	4,120		Apr. 9, 1957	6.64	3,860
				1958	Dec. 27, 1957	5.70	2,860

[a]Backwater from ice.

5555. East Mahantango Creek near Dalmatia, Pa.

Location.--Lat 40°36'40", long 76°54'45", on right bank at highway bridge 2 miles upstream from mouth and 3¼ miles south of Dalmatia, Northumberland County.

Drainage area.--162 sq mi.

Gage.--Nonrecording gage prior to Feb. 11, 1930; recording gage thereafter. Datum of gage is 400.50 ft above mean sea level (Pennsylvania State highway benchmark).

Stage-discharge relation.--Defined by current-meter measurements below 4,000 cfs and extended above.

Remarks.--Base for partial-duration series, 1,900 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	10.20	6,050	1933	Aug. 24, 1933	13.66	10,600
	Nov. 18, 1929	5.7	2,180	Cont.	Sept. 4, 1933	8.85	4,180
	Apr. 7, 1930	5.62	2,090	1934	Mar. 4, 1934	[a]6.85	—
	June 18, 1930	6.03	2,500		Sept. 17, 1934	6.69	2,440
1931	May 8, 1931	3.97	900	1935	Dec. 1, 1934	13.00	8,940
1932	Apr. 1, 1932	6.88	3,370		July 15, 1935	8.17	3,650
1933	Mar. 21, 1933	6.12	1,940				

East Mahantango Creek near Dalmatia, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 12, 1936	9.75	5,180
	Mar. 19, 1936	8.72	4,100
1937	Dec. 20, 1936	5.62	1,950
	Feb. 22, 1937	8.49	4,730
	Aug. 27, 1937	7.05	3,140
1938	Oct. 23, 1937	9.35	5,200
	Nov. 13, 1937	6.17	2,430
	May 29, 1938	6.54	2,690
	July 22, 1938	7.28	3,440
1939	Dec. 6, 1938	7.98	4,170
	Feb. 4, 1939	5.98	2,270
1940	Mar. 15, 1940	6.33	2,450
	Mar. 31, 1940	9.25	5,180
	Apr. 20, 1940	8.32	4,250
	Sept. 1, 1940	5.63	1,960
1941	Nov. 15, 1940	5.17	1,620
1942	Dec. 24, 1941	8.05	3,950
	Feb. 7, 1942	5.76	2,020
	May 23, 1942	10.40	6,510
	Sept. 28, 1942	5.64	1,960
1943	Dec. 30, 1942	8.38	4,230
1944	Oct. 29, 1943	5.47	1,930
	Nov. 9, 1943	12.53	8,880
	Jan. 3, 1944	7.16	3,200
	Apr. 25, 1944	5.84	2,140
	May 7, 1944	7.84	3,690
	June 20, 1944	6.48	2,640
1945	July 19, 1945	7.75	3,690
	July 27, 1945	6.01	2,280
	July 29, 1945	6.40	2,560
1946	Nov. 22, 1945	5.53	1,930
	Jan. 7, 1946	6.21	2,420
	Feb. 28, 1946	5.57	2,000
	May 21, 1946	5.88	2,210
	May 27, 1946	7.12	3,120
	June 2, 1946	5.65	2,000
	June 29, 1946	10.19	6,050
	Aug. 1, 1946	6.30	2,490
1947	July 17, 1947	5.57	2,000
	July 22, 1947	6.70	2,880
1948	Apr. 15, 1948	5.88	2,210
	May 14, 1948	5.53	1,930
1949	Nov. 7, 1948	5.66	2,070
	Dec. 30, 1948	8.31	4,140
	Jan. 6, 1949	6.12	2,350
1950	Mar. 23, 1950	5.91	2,210
	Mar. 24, 1950	6.84	2,880
1951	Nov. 25, 1950	13.18	9,860
	Dec. 4, 1950	12.15	8,480
	Dec. 8, 1950	7.40	3,500
	Jan. 24, 1951	6.41	2,760
	Feb. 7, 1951	8.80	4,620
1952	Dec. 6, 1951	5.26	1,990
	Mar. 12, 1952	11.20	7,210
	May 12, 1952	7.71	3,720
1953	Nov. 22, 1952	7.90	3,880
	Dec. 11, 1952	6.78	3,050
	Jan. 24, 1953	7.30	3,420
	Mar. 24, 1953	5.36	2,060
	May 23, 1953	7.86	3,880
	May 26, 1953	6.85	3,050
1954	Dec. 7, 1953	5.52	2,130
	Mar. 1, 1954	8.51	4,350
	Apr. 17, 1954	5.46	2,020
1955	Aug. 19, 1955	11.87	8,090
1956	Oct. 14, 1955	7.26	3,150
	June 24, 1956	6.06	2,480
1957	Dec. 14, 1956	6.33	2,620
	Apr. 5, 1957	6.67	2,920
1958	Dec. 20, 1957	8.83	4,620
	Dec. 27, 1957	6.58	2,850
	Jan. 22, 1958	5.47	2,040
	Feb. 28, 1958	8.10	4,030
	Mar. 26, 1958	6.31	2,620

[a]Backwater from ice.

5560. Frankstown Branch Juniata River at Williamsburg, Pa.

Location. --Lat 40°27'45", long 78°12'00", on left bank 10 ft downstream from highway bridge at Williamsburg, Blair County, and 2.5 miles upstream from Clover Creek.

Drainage area. --291 sq mi.

Gage. --Nonrecording gage prior to Aug. 14, 1928; recording gage thereafter. Datum of gage is 831.78 ft above mean sea level (Pennsylvania Railroad benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 7,300 cfs and extended on basis of slope-area measurement of peak flow.

Bankfull stage. --9 ft.

Remarks. --Base for partial-duration series, 4,200 cfs.

Frankstown Branch Juniata River at Williamsburg, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1889	June 1, 1889	19.1	35,500
1917	Mar. 12, 1917	10.0	5,950
1918	Feb. 26, 1918	11.3	7,800
1919	May 22, 1919	11.8	8,550
1920	Mar. 13, 1920	10.25	6,700
1921	May 5, 1921	10.7	7,400
1922	Nov. 29, 1921	11.6	9,000
	Apr. 15, 1922	8.8	4,710
1923	Mar. 4, 1923	7.2	2,960
1924	Jan. 17, 1924	9.7	5,900
	Mar. 30, 1924	9.9	6,180
	Apr. 6, 1924	9.2	5,230
	May 12, 1924	12.8	11,000
	June 29, 1924	10.7	7,430
1925	Feb. 12, 1925	12.4	10,200
1926	Feb. 22, 1926	9.2	5,230
	Feb. 25, 1926	9.5	5,620
	Sept. 5, 1926	8.4	4,230
1927	Nov. 19, 1926	8.6	4,470
	Jan. 22, 1927	9.3	5,360
	Mar. 8, 1927	8.4	4,230
1928	Oct. 20, 1927	9.2	5,230
	Nov. 3, 1927	8.4	4,230
	Mar. 30, 1928	9.1	5,100
	May 1, 1928	11.1	8,210
1929	Feb. 26, 1929	9.96	6,330
	Apr. 5, 1929	10.20	6,630
	Apr. 16, 1929	9.53	5,620
1930	Oct. 3, 1929	8.48	4,350
	Oct. 23, 1929	13.90	13,000
	Feb. 25, 1930	10.78	7,590
1931	Apr. 4, 1931	8.35	4,230
1932	Apr. 1, 1932	8.85	4,710
1933	Mar. 15, 1933	9.06	4,810
	Mar. 19, 1933	9.08	4,810
	May 10, 1933	8.87	4,570
1934	Sept. 17, 1934	8.63	4,320
1935	Mar. 2, 1935	7.76	3,430
1936	Mar. 12, 1936	11.36	8,180
	Mar. 18, 1936	18.58	47,600
	Apr. 6, 1936	8.98	4,910
1937	Oct. 17, 1936	8.95	4,910
	Nov. 5, 1936	9.15	5,210
1937	Jan. 10, 1937	8.67	4,460
	Jan. 22, 1937	9.73	6,010
	Apr. 26, 1937	13.90	16,600
	Apr. 28, 1937	12.43	11,400
1938	Oct. 28, 1937	9.60	5,850
	Jan. 25, 1938	8.55	4,310
1939	Feb. 3, 1939	9.07	5,060
	Feb. 28, 1939	8.58	4,310
	June 23, 1939	10.20	6,850
1940	Mar. 31, 1940	12.94	12,900
	Apr. 4, 1940	9.20	5,210
	Apr. 20, 1940	9.42	5,530
1941	June 5, 1941	10.60	7,560
1942	Dec. 24, 1941	9.90	6,340
	Mar. 9, 1942	8.60	4,350
	Apr. 9, 1942	10.10	6,680
1943	Dec. 30, 1942	11.60	9,540
	Apr. 21, 1943	9.32	5,370
	May 12, 1943	9.08	5,060
1944	Mar. 14, 1944	8.69	4,480
	May 7, 1944	8.72	4,480
1945	Feb. 16, 1945	8.85	4,510
	Mar. 4, 1945	8.56	4,270
	Mar. 6, 1945	11.40	8,380
	May 18, 1945	9.83	5,790
	Sept. 18, 1945	10.20	6,350
1946	Feb. 28, 1946	8.78	4,510
	June 2, 1946	10.12	6,210
	June 12, 1946	10.22	6,350
	June 13, 1946	10.07	6,210
1947	Oct. 26, 1946	7.85	3,350
1948	Apr. 12, 1948	10.01	6,070
	Apr. 14, 1948	11.88	9,680
	June 19, 1948	9.30	4,740
1949	Jan. 26, 1949	8.76	4,190
1950	Feb. 14, 1950	8.92	4,300
1951	Oct. 10, 1950	9.75	5,330
	Nov. 25, 1950	11.74	7,040
	Dec. 4, 1950	9.88	4,810
	Dec. 8, 1950	9.78	4,700
	Feb. 21, 1951	9.35	4,280
	Mar. 31, 1951	9.45	4,280
	June 14, 1951	10.57	5,620
1952	Jan. 27, 1952	9.63	4,480
	Mar. 11, 1952	12.82	9,250
1953	Nov. 22, 1952	9.93	4,810
	Mar. 24, 1953	11.36	6,630
	May 31, 1953	10.03	4,920
1954	Mar. 1, 1954	13.98	13,600
1955	Oct. 16, 1954	12.27	8,000
	Dec. 30, 1954	9.63	4,480
	Apr. 22, 1955	11.57	6,900
1956	Mar. 8, 1956	10.67	5,740
	July 16, 1956	10.13	5,030
	Aug. 8, 1956	13.23	10,500
1957	Apr. 6, 1957	8.23	3,170
1958	Dec. 26, 1957	9.12	3,980
	Aug. 1, 1958	9.12	3,980

5565. Little Juniata River at Tipton, Pa.

Location. --Lat 40°37'40", long 78°17'38", on left bank at Tipton, Blair County, 100 ft downstream from bridge on U. S. Highway 220 and 150 ft downstream from Tipton Run.

Drainage area. --93.7 sq mi.

Gage. --Recording gage. Datum of gage is 946.76 ft above mean sea level (Pennsylvania State Highway benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 3,700 cfs and extended above by logarithmic plotting.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Feb. 27, 1946	4.61	1,160	1952	May 20, 1952	4.54	1,280
	May 27, 1946	6.12	2,210	Cont.	May 25, 1952	4.63	1,360
	June 2, 1946	5.70	1,740		Sept. 1, 1952	5.50	1,980
	June 12, 1946	6.03	2,130				
	June 13, 1946	7.22	3,240	1953	Nov. 22, 1952	5.73	2,140
	June 21, 1946	4.58	1,160		Dec. 11, 1952	5.4	1,840
					Mar. 24, 1953	6.90	3,260
1947	Oct. 25, 1946	4.68	1,210		May 26, 1953	4.72	1,300
	July 16, 1947	4.79	1,160		May 31, 1953	5.95	2,370
					July 5, 1953	4.53	1,200
1948	Apr. 12, 1948	5.70	1,740				
	Apr. 14, 1948	6.75	2,840	1954	Mar. 1, 1954	8.46	5,130
	May 3, 1948	4.90	1,320				
	June 19, 1948	4.72	1,220	1955	Oct. 15, 1954	8.20	4,740
					Dec. 30, 1954	5.87	2,240
1949	Jan. 26, 1949	4.42	1,080		Mar. 1, 1955	5.02	1,520
					Mar. 4, 1955	5.47	1,880
1950	Feb. 14, 1950	4.44	1,100		Mar. 22, 1955	5.24	1,720
	Mar. 26, 1950	4.71	1,210		Apr. 21, 1955	5.60	2,010
	Mar. 28, 1950	4.55	1,140				
				1956	Feb. 18, 1956	4.49	1,160
1951	Oct. 9, 1950	5.25	1,580		Feb. 25, 1956	5.56	1,960
	Nov. 25, 1950	9.06	5,700		Mar. 7, 1956	6.12	2,460
	Dec. 4, 1950	5.45	1,720		Apr. 3, 1956	4.82	1,370
	Dec. 7, 1950	5.44	1,720		Apr. 7, 1956	4.99	1,520
	Feb. 21, 1951	5.25	1,580		May 13, 1956	5.77	2,140
	Mar. 30, 1951	5.90	2,050		July 2, 1956	7.87	4,380
	Apr. 12, 1951	4.48	1,130		July 20, 1956	5.04	1,560
	June 10, 1951	5.09	1,470				
	June 13, 1951	7.87	4,040	1957	Apr. 9, 1957	4.79	1,370
					June 24, 1957	4.75	1,340
1952	Jan. 3, 1952	4.71	1,390				
	Jan. 27, 1952	5.56	2,020	1958	Dec. 26, 1957	4.70	1,300
	Mar. 11, 1952	7.10	3,470		May 8, 1958	4.51	1,160
	Apr. 5, 1952	4.39	1,190				

5570. Little Juniata River near Tyrone, Pa.

Location. --Lat 40°39'20", long 78°15'25", at Pennsylvania Railroad Bridge, 0.5 mile upstream from Hutchinson Run and 1½ miles southwest of Tyrone, Blair County.

Drainage area. --101 sq mi.

Gage. --Nonrecording gage. Datum of gage is 905.49 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 880 cfs and extended on basis of velocity area studies.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 30, 1940	8.0	4,240	1943	Dec. 30, 1942	5.58	2,310
				1944	Mar. 17, 1944	4.6	1,630
1941	June 5, 1941	6.1	2,670	1945	May 17, 1945	6.0	2,840
1942	Dec. 24, 1941	5.3	2,100				

5575. South Bald Eagle Creek at Tyrone, Pa.

Location. --Lat 40°41'00", long 78°14'05", on left bank 0.2 mile upstream from plant of West Virginia Pulp and Paper Co., at Tyrone, Blair County, 0.2 mile upstream from Laurel Run, and 1.3 miles upstream from mouth.

Drainage area. --44.1 sq mi.

Gage. --Recording gage prior to Nov. 15, 1950; nonrecording gage Nov. 16, 1950 to Nov. 30, 1952; recording gage thereafter. Prior to Nov. 30, 1952 at site half a mile downstream at datum 17.99 ft lower. Datum of gage is 921.80 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,100 cfs and extended on basis of contracted-opening measurement of peak flow.

Remarks. --Base for partial-duration series, 940 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 17, 1936	15	—	1951	Oct. 9, 1950	3.77	1,260
					Nov. 25, 1950	7.5	5,140
1940	Mar. 31, 1940	5.2	2,120		Dec. 4, 1950	3.65	1,190
	Apr. 20, 1940	3.93	1,070		Dec. 7, 1950	3.85	1,340
					Feb. 21, 1951	3.4	1,050
1941	June 5, 1941	3.28	720		Mar. 30, 1951	4.35	1,860
					June 13, 1951	5.3	2,750
1942	Dec. 24, 1941	4.53	1,510				
	Mar. 9, 1942	4.04	1,140	1952	Jan. 3, 1952	3.4	1,050
					Jan. 27, 1952	3.8	1,340
1943	Apr. 21, 1943	3.66	950		Mar. 11, 1952	5.0	2,450
					Sept. 1, 1952	3.95	1,500
1944	May 23, 1944	4.20	1,280				
				1953	Mar. 24, 1953	3.92	1,280
1945	Mar. 3, 1945	3.72	1,220		May 26, 1953	4.03	1,390
	Mar. 6, 1945	3.99	1,480		May 31, 1953	3.49	1,000
	Mar. 21, 1945	4.69	2,150				
	May 17, 1945	4.80	2,250	1954	Mar. 1, 1954	4.98	2,170
	Sept. 18, 1945	3.53	1,100				
				1955	Oct. 15, 1954	4.66	1,870
1946	May 27, 1946	4.72	2,150				
	June 12, 1946	3.48	1,060	1956	Oct. 14, 1955	3.63	1,100
					Mar. 8, 1956	3.76	1,180
1947	July 16, 1947	3.90	1,390		May 7, 1956	3.38	940
	Aug. 26, 1947	4.27	1,700		May 13, 1956	4.36	1,630
					July 2, 1956	4.32	1,590
1948	Apr. 12, 1948	4.11	1,570		Aug. 5, 1956	3.57	1,040
	Apr. 14, 1948	4.27	1,900		Sept. 6, 1956	3.65	1,100
1949	Dec. 30, 1948	3.34	945	1957	Oct. 23, 1956	3.95	1,320
1950	Jan. 10, 1950	3.35	945	1958	Dec. 26, 1957	2.83	596
	Mar. 28, 1950	3.42	980		Feb. 28, 1958	[a]3.26	—

[a]Backwater from ice.

5580. Little Juniata River at Spruce Creek, Pa.

Location. --Lat 40°36'45", long 78°08'35", on right bank 150 ft downstream from Pennsylvania Railroad bridge, 0.5 mile northwest of village of Spruce Creek, Huntingdon County, and 0.5 mile upstream from Spruce Creek.

Drainage area. --220 sq mi.

Gage. --Recording gage. Datum of gage is 751.15 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurement below 5,600 cfs and extended on basis of slope-area measurement.

Bankfull stage. --9 ft.

Remarks. --Base for partial-duration series, 3,000 cfs.

Little Juniata River at Spruce Creek, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	19.1	39,800	1949	Dec. 30, 1948	6.80	2,800
					Jan. 26, 1949	6.80	2,800
1939	Feb. 28, 1939	7.10	2,970				
				1950	Mar. 26, 1950	7.14	3,050
1940	Mar. 31, 1940	10.82	7,760		Mar. 28, 1950	7.09	3,050
	Apr. 4, 1940	7.98	4,000				
	Apr. 20, 1940	7.70	3,680	1951	Oct. 9, 1950	7.51	3,470
	June 8, 1940	8.44	4,440		Nov. 25, 1950	15.77	23,100
					Dec. 4, 1950	7.33	3,250
1941	Apr. 5, 1941	7.00	3,000		Dec. 7, 1950	7.72	3,690
	June 5, 1941	8.22	4,220		Feb. 21, 1951	7.15	3,150
					Mar. 30, 1951	8.24	4,260
1942	Dec. 24, 1941	8.25	4,220		June 14, 1951	10.68	8,040
	Mar. 9, 1942	7.60	3,580				
	Apr. 9, 1942	7.38	3,380	1952	Jan. 27, 1952	8.10	4,140
					Mar. 11, 1952	10.24	7,150
1943	Dec. 30, 1942	10.48	7,310		May 25, 1952	7.20	3,150
	Apr. 19, 1943	7.31	3,280				
	Apr. 21, 1943	7.56	3,580	1953	Nov. 22, 1952	8.19	4,260
					Dec. 11, 1952	7.60	3,580
1944	Mar. 17, 1944	7.34	3,300		Mar. 24, 1953	9.32	5,700
	May 7, 1944	7.26	3,300		May 26, 1953	7.63	3,580
	May 23, 1944	7.06	3,100		May 31, 1953	8.20	4,260
1945	Mar. 3, 1945	7.98	4,050	1954	Mar. 1, 1954	11.53	9,600
	Mar. 7, 1945	8.84	4,980		June 1, 1954	7.74	3,690
	Mar. 21, 1945	7.47	3,500				
	May 18, 1945	9.75	6,280	1955	Oct. 15, 1954	10.77	8,230
	Sept. 18, 1945	7.24	3,200		Dec. 30, 1954	7.54	3,470
					Mar. 22, 1955	7.35	3,360
1946	May 27, 1946	9.02	5,230				
	June 2, 1946	7.63	3,610	1956	Feb. 25, 1956	7.61	3,580
	June 12, 1946	7.34	3,300		Mar. 8, 1956	8.76	5,000
	June 13, 1946	8.13	4,160		May 13, 1956	8.86	5,130
					July 2, 1956	9.67	6,320
1947	July 16, 1947	7.64	3,610				
				1957	Apr. 9, 1957	7.15	3,150
1948	Apr. 12, 1948	8.41	4,500				
	Apr. 14, 1948	9.70	6,140	1958	Dec. 26, 1957	6.48	2,470

5585. Shaver Creek near Petersburg, Pa.

Location. --Lat 40°36'40", long 78°00'25", at highway bridge 3½ miles northeast of Petersburg, Huntingdon County, and 4.5 miles upstream from mouth.

Drainage area. --46.4 sq mi.

Gage. --Nonrecording gage. Datum of gage is 691.38 ft above mean sea level (preliminary levels of 1912).

Stage-discharge relation. --Defined by current-meter measurements below 750 cfs and extended by logarithmic plotting.

Remarks. --Base for partial-duration series, 750 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 22, 1929	5.62	1,070	1933	Mar. 15, 1933	5.1	870
	Feb. 25, 1930	5.3	950	Cont.	Mar. 19, 1933	6.2	1,360
	Feb. 26, 1930	5.4	990		Apr. 7, 1933	7.0	1,800
					Apr. 12, 1933	5.4	990
1931	May 8, 1931	6.85	1,680		May 8, 1933	6.95	1,800
	May 23, 1931	6.05	1,260		May 10, 1933	6.7	1,620
1932	Mar. 31, 1932	4.98	792	1934	Apr. 11, 1934	4.88	737
	May 11, 1932	4.82	738				
				1935	Dec. 1, 1934	6.6	1,510
1933	Nov. 19, 1932	6.3	1,410		May 7, 1935	5.0	831
	Mar. 14, 1933	5.2	910				

Shaver Creek near Petersburg, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 11, 1936	6.87	1,680	1937 Cont.	Apr. 26, 1937	7.4	2,040
	Mar. 18, 1936	9.32	3,420		Apr. 28, 1937	7.51	2,100
	Apr. 6, 1936	6.55	1,560				
	May 13, 1936	5.00	831	1938	Oct. 23, 1937	5.2	910
	June 13, 1936	4.80	755		Oct. 28, 1937	5.0	831
					Nov. 13, 1937	5.2	910
1937	Jan. 10, 1937	4.75	755		Dec. 18, 1937	6.6	1,560
	Jan. 22, 1937	5.9	1,210		Jan. 25, 1938	6.7	1,620

5590. Juniata River at Huntingdon, Pa.

Location.--Lat 40°29'05", long 78°01'10", on right bank 450 ft downstream from Smithfield Bridge at Huntingdon, Huntingdon County, and 0.8 mile upstream from Standing Stone Creek.

Drainage area.--816 sq mi.

Gage.--Nonrecording gage prior to Sept. 10, 1941; recording gage thereafter. Prior to Sept. 10, 1941 gage at different sites and datum. Datum of gage is 599.69 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 20,000 cfs and extended on basis of computation of peak flow over dam.

Remarks.--Base for partial-duration series, 5,500 cfs. Only annual peaks are shown prior to 1942.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1896	Sept. 30, 1896	11.8	22,500	1916	June 17, 1916	14.8	44,800
1897	Feb. 23, 1897	9.6	13,400	1917	Mar. 12, 1917	9.0	11,600
1898	Mar. 23, 1898	10.7	17,400	1918	Feb. 26, 1918	11.5	21,000
1900	Jan. 21, 1900	8.5	10,200	1919	May 22, 1919	11.4	20,500
1901	Mar. 10, 1901	11.0	18,600	1920	Mar. 13, 1920	12.3	25,300
1902	Feb. 28, 1902	13.8	36,200	1921	May 5, 1921	10.7	17,400
1903	Feb. 4, 1903	11.0	18,600	1922	Nov. 29, 1921	12.4	25,900
1904	Apr. 1, 1904	9.3	12,500	1924	May 12, 1924	12.2	24,700
1905	Mar. 21, 1905	9.5	13,100	1925	Feb. 12, 1925	12.3	25,300
1906	Mar. 30, 1906	8.4	9,920	1926	Feb. 26, 1926	8.9	11,300
1907	Mar. 14, 1907	13.4	33,000	1927	Jan. 22, 1927	7.2	6,810
1908	Mar. 19, 1908	13.9	37,000	1928	Apr. 30, 1928	11.7	22,000
1909	Feb. 24, 1909	9.5	13,100	1929	Apr. 17, 1929	9.9	14,400
1910	Mar. 1, 1910	9.4	12,800	1931	May 23, 1931	8.9	12,000
1911	Sept. 15, 1911	9.7	13,700	1932	Apr. 1, 1932	9.2	12,800
1912	Mar. 15, 1912	10.8	17,800	1933	Mar. 16, 1933	9.2	12,800
1913	May 28, 1913	10.1	15,100	1934	Sept. 17, 1934	6.9	7,440
1914	Mar. 28, 1914	8.4	9,920	1935	Mar. 3, 1935	7.1	7,850
1915	Feb. 24, 1915	10.3	15,800	1936	Mar. 18, 1936	21.87	81,000

Juniata River at Huntingdon, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1937	Apr. 27, 1937	13.7	26,400
1938	Oct. 29, 1937	8.6	11,200
1942	Dec. 24, 1941	8.51	11,000
	Mar. 8, 1942	7.33	8,270
	Apr. 10, 1942	8.86	12,000
	May 23, 1942	7.57	8,920
1943	Dec. 30, 1942	11.80	19,500
	Jan. 19, 1943	5.82	5,510
	Mar. 12, 1943	6.35	6,550
	Apr. 20, 1943	8.25	10,300
	Apr. 21, 1943	7.98	9,830
	May 12, 1943	7.14	7,920
1944	Jan. 28, 1944	6.47	6,740
	Mar. 14, 1944	7.05	7,720
	Mar. 17, 1944	7.31	8,330
	Mar. 25, 1944	6.01	5,850
	Apr. 25, 1944	6.22	6,190
	May 7, 1944	7.24	8,120
1945	Feb. 27, 1945	6.72	7,120
	Mar. 4, 1945	7.47	8,750
	Mar. 7, 1945	10.41	15,800
	Mar. 22, 1945	8.39	10,800
	May 18, 1945	9.19	12,800
	Sept. 18, 1945	8.01	9,830
1946	Nov. 22, 1945	6.30	6,370
	Nov. 29, 1945	6.94	7,520
	Feb. 28, 1946	6.66	7,120
	Mar. 9, 1946	5.90	5,680
	May 27, 1946	8.54	11,000
	June 2, 1946	8.22	10,300
	June 12, 1946	8.15	10,300
	June 13, 1946	8.20	10,300
1947	Oct. 26, 1946	5.75	5,510
1948	Mar. 20, 1948	6.44	5,680
	Apr. 14, 1948	11.21	17,000
	June 19, 1948	6.16	5,510
1949	Dec. 30, 1948	6.99	7,720
	Jan. 6, 1949	6.28	6,370
	Jan. 27, 1949	6.52	6,740
	Jan. 28, 1949	6.46	6,740
1950	Feb. 15, 1950	7.00	7,720
	Mar. 27, 1950	6.22	6,190
	Mar. 29, 1950	6.65	6,930
1951	Oct. 10, 1950	6.90	7,520
	Nov. 25, 1950	15.29	34,200
	Dec. 4, 1950	8.04	9,830
	Dec. 8, 1950	7.60	8,960
	Feb. 14, 1951	6.24	6,190
	Feb. 22, 1951	7.37	8,540
	Mar. 31, 1951	8.49	11,000
	June 14, 1951	10.39	15,800
1952	Jan. 3, 1952	6.68	7,120
	Jan. 27, 1952	7.66	9,170
	Mar. 11, 1952	10.95	17,200
	Mar. 23, 1952	6.12	6,020
	Apr. 5, 1952	6.42	6,550
	May 25, 1952	6.47	6,740
1953	Nov. 22, 1952	8.33	10,500
	Dec. 11, 1952	6.93	7,520
	Jan. 24, 1953	5.43	5,680
	Mar. 24, 1953	10.00	14,800
	May 26, 1953	6.82	7,320
	May 31, 1953	7.59	8,960
1954	Mar. 1, 1954	11.25	17,800
1955	Oct. 16, 1954	10.52	16,000
	Dec. 30, 1954	7.40	8,540
	Mar. 1, 1955	6.50	6,730
	Mar. 4, 1955	6.43	6,540
	Mar. 22, 1955	7.38	8,540
	Apr. 22, 1955	7.80	9,390
1956	Feb. 18, 1956	6.08	5,980
	Feb. 25, 1956	6.65	6,920
	Mar. 8, 1956	8.67	11,500
	Apr. 4, 1956	6.37	6,540
	Apr. 8, 1956	6.48	6,730
	May 13, 1956	7.68	9,170
	July 2, 1956	7.49	8,750
	Aug. 8, 1956	8.01	9,830
1957	Apr. 6, 1957	6.80	7,320
	Apr. 9, 1957	7.22	8,120
1958	Dec. 26, 1957	6.53	6,730
	May 8, 1958	6.32	6,350

5595. Standing Stone Creek near Huntingdon, Pa.

Location. --Lat 40°31'25", long 77°58'15", at bridge on State Highway 545, 3¼ miles northeast of Huntingdon, Huntingdon County, and 3.5 miles upstream from mouth.

Drainage area. --128 sq mi.

Gage. --Nonrecording gage prior to Feb. 4, 1930; recording gage thereafter. Datum of gage is 617.81 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 3,600 cfs and extended above.

Remarks. --Base for partial-duration series, 1,600 cfs.

Standing Stone Creek near Huntingdon, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1889	June 1, 1889	9.38	6,770
1930	Oct. 23, 1929	6.55	2,780
	Feb. 26, 1930	5.35	1,630
1931	May 8, 1931	6.75	3,000
	May 21, 1931	6.14	2,320
	May 23, 1931	6.70	2,890
1932	Apr. 1, 1932	5.67	1,870
1933	Apr. 7, 1933	5.46	1,710
	May 30, 1933	5.33	1,630
	Aug. 24, 1933	6.20	2,420
1934	Apr. 12, 1954	4.31	1,030
1935	Dec. 1, 1934	5.41	1,680
1936	Mar. 12, 1936	6.95	3,230
	Mar. 18, 1936	9.14	6,250
	Apr. 6, 1936	5.61	1,830
	June 14, 1936	7.16	3,470
1937	Nov. 5, 1936	6.34	2,520
	Jan. 22, 1937	5.71	1,910
	Feb. 22, 1937	5.50	1,750
	Apr. 28, 1937	7.24	3,240
1938	Dec. 18, 1937	5.72	1,960
	Jan. 25, 1938	5.50	1,830
1939	Feb. 4, 1939	5.83	2,000
1940	Mar. 31, 1940	7.48	3,560
1941	Apr. 5, 1941	5.35	1,620
1942	Dec. 24, 1941	6.63	2,780
	Apr. 4, 1942	6.37	2,570
	May 23, 1942	7.15	3,470
1943	Dec. 30, 1942	7.69	4,110
	Apr. 21, 1943	6.24	2,390
1944	Jan. 4, 1944	6.36	2,500
	Mar. 13, 1944	5.68	1,860
	Mar. 17, 1944	5.83	2,000
	May 7, 1944	6.70	2,880
1945	Mar. 7, 1945	6.45	2,080
	May 18, 1945	5.85	1,600
1946	Nov. 29, 1945	7.42	2,870
	Mar. 9, 1946	5.97	1,680
	May 28, 1946	6.63	2,300
	June 2, 1946	6.75	2,410
	June 13, 1946	6.25	1,900
1947	June 9, 1947	6.55	2,180
	Aug. 20, 1947	6.14	1,820
	Aug. 31, 1947	7.21	2,670
1948	Apr. 12, 1948	6.75	2,410
	Apr. 15, 1948	7.02	2,490
1949	Dec. 30, 1948	6.46	2,080
1950	Feb. 14, 1950	5.35	1,340
1951	Nov. 25, 1950	10.96	8,500
	Dec. 4, 1950	6.73	2,230
	Mar. 31, 1951	7.60	3,070
	June 14, 1951	7.40	2,870
1952	Jan. 27, 1952	5.92	1,650
	Mar. 11, 1952	7.50	2,990
1953	Nov. 22, 1952	6.40	2,090
	Dec. 11, 1952	6.54	2,160
	Jan. 25, 1953	5.76	1,710
	Mar. 24, 1953	7.08	2,620
	May 26, 1953	8.14	3,630
	May 31, 1953	6.37	2,090
1954	Mar. 2, 1954	7.51	2,990
1955	Oct. 16, 1954	8.23	3,750
	Dec. 30, 1954	5.97	1,830
	Mar. 22, 1955	5.98	1,830
1956	Oct. 15, 1955	6.33	2,020
	Mar. 8, 1956	6.60	2,230
	May 13, 1956	5.77	1,710
1957	Apr. 6, 1957	6.04	1,830
1958	Dec. 27, 1957	6.12	1,890

5600. Dunning Creek at Belden, Pa.

Location. --Lat 40°04'20", long 78°29'35", on left bank 10 ft upstream from covered highway bridge, 0.8 mile southeast of Belden, Bedford County, 3.8 miles north of Bedford, and 4.3 miles upstream from mouth.

Drainage area. --172 sq mi.

Gage. --Recording gage. Datum of gage is 1,051.16 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 4,000 cfs and extended above.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 2,300 cfs.

Dunning Creek at Belden, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	11.23	6,150	1949	Jan. 26, 1949	8.02	2,600
	Apr. 4, 1940	8.84	3,280				
	Apr. 20, 1940	8.72	3,190	1950	Feb. 14, 1950	7.68	2,390
1941	Apr. 5, 1941	8.47	3,010	1951	Dec. 4, 1950	8.09	2,640
	June 5, 1941	9.30	3,790		Dec. 8, 1950	9.95	4,530
					Feb. 21, 1951	8.55	3,020
1942	Dec. 24, 1941	7.90	2,470		Mar. 30, 1951	8.15	2,710
	Mar. 9, 1942	7.83	2,420				
	Apr. 10, 1942	8.72	2,950	1952	Jan. 27, 1952	8.80	3,200
					Mar. 11, 1952	10.57	5,310
1943	Oct. 16, 1942	10.11	4,590				
	Dec. 30, 1942	11.12	6,010	1953	Nov. 22, 1952	10.20	4,790
	Jan. 19, 1943	8.24	2,760		Mar. 24, 1953	9.66	4,170
	Apr. 20, 1943	9.46	4,010		May 31, 1953	9.84	4,290
	May 12, 1943	8.15	2,760				
				1954	Mar. 1, 1954	11.43	6,430
1944	Jan. 28, 1944	8.03	2,600				
	May 7, 1944	7.65	2,320	1955	Oct. 16, 1954	10.96	5,870
					Dec. 30, 1954	8.94	3,300
1945	Feb. 17, 1945	8.12	2,680		Mar. 1, 1955	7.56	2,330
	Feb. 27, 1945	8.45	2,920		Mar. 4, 1955	7.83	2,450
	Mar. 4, 1945	8.65	3,100		Mar. 22, 1955	7.93	2,510
	Mar. 7, 1945	10.00	4,590		Apr. 22, 1955	10.00	4,530
	Sept. 18, 1945	9.63	4,120				
				1956	Jan. 30, 1956	7.56	2,330
1946	Jan. 7, 1946	8.62	3,100		Mar. 8, 1956	9.60	4,050
	Feb. 28, 1946	7.81	2,460		Apr. 3, 1956	7.57	2,500
	June 2, 1946	9.95	4,590		Apr. 7, 1956	7.70	2,550
1947	Oct. 26, 1946	7.49	2,260	1957	Dec. 14, 1956	8.22	2,870
1948	Apr. 13, 1948	9.76	4,350	1958	Dec. 26, 1957	7.91	2,670
	May 29, 1948	9.69	4,230				
	June 20, 1948	8.34	2,840				

5605. Dunning Creek at Yount, Pa.

Location.--Lat 40°03'30", long 78°28'30", at highway bridge at Yount, Bedford County, 3 miles upstream from mouth and 3¼ miles northeast of Bedford.

Drainage area.--~~36.8 sq mi.~~ 191

Gage.--Nonrecording gage prior to Feb. 7, 1930; recording gage thereafter. Datum of gage is 1,122.39 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 2,800 cfs and extended above.

Bankful stage.--5 ft.

Remarks.--Base for partial-duration series, 480 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 23, 1929	[a]—	—	1936	Feb. 28, 1936	8.40	4,000
	Feb. 25, 1930	7.20	2,700		Mar. 12, 1936	9.6	5,300
					Mar. 18, 1936	18.08	17,900
1931	Mar. 29, 1931	7.2	2,910		Apr. 6, 1936	8.50	4,100
	Apr. 4, 1931	8.1	3,700				
				1937	Oct. 17, 1936	7.40	3,070
1932	Dec. 13, 1931	6.70	2,510		Nov. 5, 1936	8.20	3,800
	Apr. 1, 1932	7.40	2,820		Jan. 10, 1937	8.10	3,700
					Jan. 22, 1937	9.00	4,620
1933	Mar. 15, 1933	8.8	4,400		Apr. 26, 1937	13.38	11,000
	Mar. 20, 1933	7.7	3,340				
	May 10, 1933	7.7	3,340	1938	Oct. 29, 1937	8.2	3,800
	May 30, 1933	6.7	2,510		Dec. 18, 1937	6.7	2,510
					Jan. 25, 1938	6.9	2,670
1934	Jan. 7, 1934	8.25	3,800		Mar. 15, 1938	6.5	2,370
	Sept. 16, 1934	7.20	2,910				
				1939	Jan. 31, 1939	7.3	2,990
1935	Dec. 1, 1934	5.8	1,900		Feb. 4, 1939	8.3	3,900
					Feb. 28, 1939	8.0	3,610
					June 22, 1939	6.5	2,370

[a]No record, probable peak of year.

5610. Brush Creek at Gapsville, Pa.

Location. --Lat 39°57'20", long 78°15'15", on left bank 50 ft upstream from covered bridge three-quarters of a mile northwest of Gapsville, Bedford County, 1½ miles downstream from Little Brush Creek, and 5½ miles upstream from Shaffer Run.

Drainage area. --36.8 sq mi.

Gage. --Nonrecording gage prior to Feb. 7, 1930; recording gage thereafter. Datum of gage is 1,122.39 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,800 cfs and extended above.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 480 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Mar. 29, 1931	3.63	630
	May 23, 1931	4.44	962
	July 9, 1931	3.53	592
	July 10, 1931	4.30	895
	July 20, 1931	3.69	650
1932	Mar. 31, 1932	3.84	710
	May 13, 1932	3.30	500
1933	Nov. 10, 1932	3.60	610
	Nov. 19, 1932	3.50	570
	Mar. 14, 1933	3.64	630
	Apr. 17, 1933	3.99	790
	Apr. 20, 1933	3.56	630
	May 10, 1933	3.17	482
	May 26, 1933	3.36	552
1934	Jan. 7, 1934	3.32	500
	June 19, 1934	3.47	552
	Sept. 16, 1934	4.64	1,020
1935	Dec. 1, 1934	4.76	1,100
1936	Feb. 27, 1936	[a]—	—
	Mar. 11, 1936	4.59	1,030
	Mar. 17, 1936	9.81	6,870
	Apr. 6, 1936	3.36	524
	Aug. 26, 1936	4.18	860
1937	Oct. 17, 1936	4.01	504
	Jan. 10, 1937	4.00	500
	Feb. 22, 1937	4.85	930
	Apr. 26, 1937	7.03	2,810
	Apr. 28, 1937	6.30	2,100
1938	Oct. 28, 1937	4.74	912
1939	Dec. 10, 1938	5.29	795
	Feb. 3, 1939	4.66	520
	Feb. 28, 1939	4.57	486
1940	Oct. 2, 1939	4.82	584
	Mar. 31, 1940	4.72	544
	June 8, 1940	4.61	501
1941	June 5, 1941	4.83	596
1942	Dec. 24, 1941	5.21	750
	Mar. 9, 1942	4.73	556
	July 5, 1942	4.70	536
1943	Oct. 15, 1942	6.13	1,260
	Dec. 30, 1942	5.72	1,010
	Apr. 19, 1943	4.98	660
1944	Mar. 13, 1944	4.53	471
1945	Sept. 18, 1945	5.01	665
1946	June 2, 1946	4.79	580
1947	Mar. 14, 1947	3.82	253
1948	May 29, 1948	4.16	353
1949	July 13, 1949	5.56	930
	July 18, 1949	—	755
1950	May 18, 1950	4.34	409
1951	Nov. 25, 1950	7.98	2,930
	Dec. 8, 1950	5.55	932
	Mar. 30, 1951	6.50	1,520
	June 13, 1951	4.86	600
1952	Mar. 11, 1952	6.91	1,830
1953	Nov. 21, 1952	7.83	2,760
	Dec. 11, 1952	4.63	520
	Mar. 24, 1953	7.03	1,960
1954	Mar. 1, 1954	6.8	1,750
1955	Oct. 15, 1954	8.39	3,430
	Nov. 21, 1954	5.97	1,160
	Mar. 5, 1955	5.70	1,020
	Mar. 22, 1955	4.90	620
	Aug. 18, 1955	5.02	665
1956	Apr. 7, 1956	4.73	560
1957	Dec. 14, 1956	4.79	580
1958	May 5, 1958	5.7	1,020
	June 1, 1958	4.97	642

[a]Backwater from ice.

5620. Raystown Branch Juniata River at Saxton, Pa.

Location. --Lat 40°12'55", long 78°15'55", on left bank at former site of highway bridge, 500 ft downstream from present highway bridge on State Highway 913, 0.5 mile west of Saxton, Bedford County, and 1.5 miles upstream from Shoup Run.

Drainage area. --756 sq mi.

Gage. --Nonrecording gage prior to Oct. 1, 1931; recording gage thereafter. Prior to Oct. 1, 1931, at site 0.8 mile downstream at datum 4.82 ft lower. Datum of gage is 795.77 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 17,000 cfs and extended above by slope-area measurement of peak flow.

Bankfull stage. --15 ft.

Remarks. --Base for partial-duration series, 7,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Feb. 27, 1912	8.20	—
	Mar. 15, 1912	8.9	12,900
	Mar. 22, 1912	9.5	14,500
	May 13, 1912	8.7	12,400
	May 17, 1912	8.9	12,900
1913	Mar. 27, 1913	7.00	8,300
	May 28, 1913	11.0	19,100
1914	Nov. 10, 1913	7.88	10,400
	Feb. 1, 1914	7.8	10,100
	Mar. 18, 1914	8.4	11,600
1915	Feb. 2, 1915	8.80	12,600
	Feb. 16, 1915	8.80	12,600
	Feb. 25, 1915	7.80	10,100
	June 3, 1915	11.6	21,200
	Aug. 4, 1915	7.2	—
1916	Mar. 23, 1916	9.9	15,600
	Mar. 28, 1916	11.5	20,900
	June 17, 1916	9.8	15,400
	July 26, 1916	7.6	9,650
1917	Mar. 12, 1917	10.8	18,500
	June 7, 1917	7.9	10,400
1918	Feb. 20, 1918	9.0	13,100
	Feb. 26, 1918	10.8	18,500
	Apr. 15, 1918	8.5	11,800
1919	May 11, 1919	7.9	—
	May 22, 1919	10.56	17,800
1920	Mar. 5, 1920	12.0	22,700
	Mar. 13, 1920	8.2	11,100
1921	Mar. 4, 1921	6.8	7,860
	May 5, 1921	8.23	10,200
1922	Nov. 29, 1921	9.2	12,700
1923	Apr. 17, 1923	5.75	5,020
1924	Jan. 17, 1924	9.0	12,200
	Mar. 30, 1924	12.2	22,600
	Apr. 7, 1924	8.2	10,200
	May 10, 1924	9.0	12,200
	May 12, 1924	13.6	29,000
	June 29, 1924	10.2	15,600
1925	Feb. 12, 1925	11.28	19,200
1926	Nov. 13, 1925	7.8	9,300
1926 Cont.	Feb. 23, 1926	8.9	12,000
	Feb. 26, 1926	8.3	10,600
1927	Nov. 17, 1926	8.6	11,300
	Nov. 19, 1926	8.3	10,600
	Jan. 22, 1927	8.76	11,800
	Mar. 8, 1927	7.2	8,000
1928	Oct. 19, 1927	9.3	13,000
	May 1, 1928	11.14	18,400
	June 19, 1928	7.1	7,800
	July 14, 1928	10.4	16,200
1929	Feb. 27, 1929	7.2	8,000
	Feb. 28, 1929	7.4	8,400
	Apr. 17, 1929	10.85	17,400
1930	Oct. 23, 1929	11.75	21,000
1931	May 23, 1931	7.42	8,400
1932	Apr. 1, 1932	8.26	9,830
1933	Mar. 14, 1933	10.3	13,800
	Mar. 20, 1933	7.9	9,070
1934	Jan. 8, 1934	7.21	7,800
1935	May 10, 1935	6.23	6,180
1936	Feb. 28, 1936	[a]12.75	—
	Mar. 12, 1936	10.78	15,600
	Mar. 18, 1936	24.54	80,500
	Apr. 6, 1936	7.98	9,580
1937	Oct. 18, 1936	7.36	8,380
	Nov. 5, 1936	7.50	8,580
	Jan. 11, 1937	8.77	11,200
	Jan. 23, 1937	8.28	10,200
	Apr. 27, 1937	16.15	31,300
1938	Oct. 29, 1937	9.44	12,500
1939	Feb. 4, 1939	9.34	12,300
	Mar. 1, 1939	9.00	11,700
1940	Mar. 31, 1940	11.07	14,600
	Apr. 4, 1940	7.95	8,470
	Apr. 20, 1940	10.10	12,500
1941	Apr. 6, 1941	7.87	8,300
	June 5, 1941	10.20	12,700

Raystown Branch Juniata River at Saxton, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 9, 1942	8.42	9,520
	Apr. 10, 1942	8.84	10,300
	May 23, 1942	7.55	8,080
1943	Oct. 16, 1942	12.63	19,800
	Dec. 30, 1942	12.75	20,400
	Apr. 20, 1943	10.29	13,600
1944	Jan. 29, 1944	7.85	8,310
	Mar. 13, 1944	7.71	8,130
	Apr. 25, 1944	8.46	9,640
	Apr. 28, 1944	7.58	7,950
	May 7, 1944	8.31	9,260
1945	Feb. 27, 1945	8.8	10,200
	Mar. 7, 1945	9.07	10,800
	Sept. 19, 1945	8.85	10,200
1946	June 3, 1946	9.88	12,600
1947	Oct. 26, 1946	5.64	4,720
1948	Apr. 14, 1948	9.48	11,700
1949	Jan. 27, 1949	7.68	8,130
1950	Feb. 15, 1950	7.32	7,410
1951	Nov. 25, 1950	10.21	13,300
	Dec. 4, 1950	9.03	10,100
	Dec. 8, 1950	10.83	14,000
	Feb. 22, 1951	8.29	8,860
	Mar. 31, 1951	9.63	11,300
	June 14, 1951	7.71	7,840
1952	Jan. 28, 1952	7.76	8,010
	Mar. 11, 1952	12.26	18,000
1953	Nov. 22, 1952	12.16	17,700
	Mar. 24, 1953	11.19	15,000
	June 1, 1953	10.37	13,000
1954	Mar. 2, 1954	12.20	17,700
1955	Oct. 16, 1954	13.78	22,800
	Dec. 30, 1954	8.39	9,040
	Mar. 5, 1955	10.95	14,500
	Mar. 22, 1955	9.85	11,700
	Apr. 22, 1955	8.36	9,040
1956	Mar. 9, 1956	8.36	9,040
	Apr. 8, 1956	8.53	9,220
1957	Dec. 15, 1956	9.53	11,100
1958	Dec. 27, 1957	7.67	7,840
	May 5, 1958	9.97	12,200

[a]Backwater from ice.

5625. Great Trough Creek near Marklesburg, Pa.

Location. --Lat 40°21'00", long 78°07'50", on left bank 40 ft downstream from highway bridge, 0.5 mile upstream from mouth and 3 miles southeast of Marklesburg, Huntingdon County.

Drainage area. --84.6 sq mi.

Gage. --Recording gage. Datum of gage is 714.48 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 2,600 cfs and extended above.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 950 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 23, 1929	—	—
	Feb. 25, 1930	4.14	1,340
1931	Apr. 1, 1931	3.78	1,000
	May 23, 1931	4.80	1,980
1932	Apr. 1, 1932	4.52	1,680
1933	Nov. 10, 1932	4.00	1,220
	Mar. 15, 1933	4.68	2,040
	May 10, 1933	3.84	1,070
	May 29, 1933	3.73	986
	Aug. 24, 1933	4.52	1,780
1934	Sept. 16, 1934	4.48	1,780
1935	July 8, 1935	3.67	976
1936	Feb. 16, 1936	[a]4.15	—
	Mar. 12, 1936	5.57	2,760
	Mar. 17, 1936	8.46	8,400
1937	Feb. 22, 1937	4.27	1,220
	Apr. 26, 1937	6.10	3,440
1938	Oct. 29, 1937	3.72	996
	May 24, 1938	3.77	1,040
1939	Feb. 3, 1939	3.89	1,140
1940	Mar. 31, 1940	5.47	2,670
	Apr. 4, 1940	3.87	1,250
	Apr. 21, 1940	4.01	1,370
1941	Mar. 4, 1941	[a]4.70	—
	June 5, 1941	3.86	1,250

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Dec. 24, 1941	3.50	1,060	1950	Feb. 14, 1950	3.24	842
	Mar. 9, 1942	3.42	970				
	Apr. 4, 1942	3.57	1,110	1951	Nov. 25, 1950	6.63	4,180
	Apr. 9, 1942	3.83	1,250		Dec. 4, 1950	3.48	980
	May 22, 1942	4.34	1,650		Dec. 7, 1950	4.61	1,870
	June 5, 1942	3.70	1,130		Mar. 30, 1951	4.97	2,180
1943	Oct. 15, 1942	3.55	1,110	1952	Mar. 11, 1952	4.92	2,140
	Dec. 30, 1942	5.58	2,830				
	Apr. 19, 1943	4.53	1,820	1953	Nov. 22, 1952	5.58	2,830
					Dec. 11, 1952	3.53	1,010
1944	Apr. 24, 1944	3.38	930		Jan. 24, 1953	3.50	975
					Mar. 24, 1953	4.82	2,050
1945	Jan. 28, 1945	[a]5.05	—				
	Feb. 16, 1945	[a]4.98	—	1954	Mar. 1, 1954	4.89	2,140
	July 26, 1945	3.88	1,320				
	Sept. 18, 1945	4.06	1,440	1955	Oct. 15, 1954	5.35	2,570
					Mar. 23, 1955	3.47	1,010
1946	Nov. 29, 1945	3.91	1,320		Apr. 21, 1955	3.70	1,190
	May 27, 1946	5.24	2,470				
	June 2, 1946	5.06	2,280	1956	Mar. 8, 1956	3.28	1,310
					Apr. 7, 1956	2.84	975
1947	Mar. 15, 1947	2.91	597		Aug. 5, 1956	3.27	1,270
					Aug. 7, 1956	2.90	1,010
1948	Apr. 14, 1948	3.93	1,360				
				1957	Dec. 14, 1956	3.05	1,120
1949	Dec. 30, 1948	3.38	962				
	July 12, 1949	3.65	1,210				

[a]Backwater from ice.

5630. Raystown Branch Juniata River near Huntingdon, Pa.

Location.--Lat 40°25'35", long 78°01'50", 5 ft downstream from left abutment of highway bridge at village of Hawn Bridge, 6 miles south of Huntington, Huntingdon County, and 9 miles upstream from mouth.
Drainage area.--957 sq mi.
Gage.--Recording gage. Datum of gage is 620.08 ft above mean sea level, adjustment of 1907.
Stage-discharge relation.--Defined by current-meter measurements below 16,000 cfs and extended on basis of computation of flow over dam.
Bankfull stage.--11 ft.
Remarks.--Base for partial-duration series, 6,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Jan. 8, 1946	9.33	8,540	1952 Cont.	Mar. 24, 1952	8.22	6,780
	Feb. 28, 1946	8.56	7,420		Apr. 28, 1952	9.38	8,700
	May 18, 1946	8.22	6,800				
	May 27, 1946	8.57	7,420	1953	Nov. 22, 1952	14.94	19,600
	June 3, 1946	12.46	14,300		Dec. 12, 1952	9.05	8,060
					Jan. 25, 1953	9.06	8,220
1947	Mar. 15, 1947	6.74	4,650		Mar. 25, 1953	13.33	15,900
					June 1, 1953	12.38	14,100
1948	Apr. 14, 1948	12.68	14,700				
				1954	Mar. 2, 1954	14.23	17,800
1949	Dec. 31, 1948	9.00	8,060				
	Jan. 27, 1949	9.60	9,040	1955	Oct. 16, 1954	15.56	21,400
	July 18, 1949	8.74	7,580		Dec. 31, 1954	10.05	9,720
					Mar. 5, 1955	12.71	14,700
1950	Feb. 15, 1950	9.75	9,380		Mar. 23, 1955	11.94	13,200
	Mar. 25, 1950	8.86	7,900		Apr. 23, 1955	10.29	10,200
					Apr. 26, 1955	8.26	6,940
1951	Nov. 25, 1950	16.74	24,500				
	Dec. 5, 1950	11.18	11,800	1956	Mar. 9, 1956	10.61	10,800
	Dec. 8, 1950	12.84	14,900		Apr. 4, 1956	8.86	7,900
	Feb. 22, 1951	10.67	10,900		Apr. 8, 1956	10.53	10,600
	Apr. 1, 1951	11.66	12,800				
	June 14, 1951	9.56	9,040	1957	Dec. 15, 1956	11.60	12,600
1952	Jan. 3, 1952	9.54	8,870	1958	Dec. 27, 1957	9.18	8,380
	Jan. 28, 1952	10.09	9,890		Mar. 1, 1958	8.42	7,100
	Mar. 12, 1952	14.39	18,400		Mar. 28, 1958	8.33	6,940
					May 6, 1958	12.02	13,300

5635. Juniata River at Mapleton Depot, Pa.

Location. --Lat 40°23'30", long 77°56'10", on right bank a quarter of a mile downstream from Scrub Run and a third of a mile downstream from highway bridge on State Highway 376 at Mapleton Depot, Huntingdon County.

Drainage area. --2,030 sq mi.

Gage. --Recording gage. Datum of gage is 557.31 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 31,000 cfs and extended above.

Bankfull stage. --20 ft.

Remarks. --Base for partial-duration series, 12,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1889	June 1, 1889	35.9	209,000	1947	Aug. 31, 1947	9.89	11,400
1936	Mar. 18, 1936	38.2	145,000	1948	Apr. 15, 1948	18.05	37,700
1938	Dec. 18, 1937	10.82	13,700	1949	Dec. 31, 1948	11.63	15,900
					Jan. 28, 1949	11.85	16,500
1939	Feb. 4, 1939	12.87	19,800				
	Mar. 1, 1939	12.71	19,200	1950	Feb. 15, 1950	12.38	18,200
					Mar. 26, 1950	10.47	12,900
1940	Mar. 20, 1940	11.38	15,300		Mar. 27, 1950	10.73	13,400
	Mar. 31, 1940	18.73	40,500		Mar. 29, 1950	11.13	14,500
	Apr. 4, 1950	12.87	19,800				
	Apr. 9, 1940	10.73	13,400	1951	Oct. 10, 1950	11.09	14,500
	Apr. 21, 1940	16.40	32,000		Nov. 25, 1950	26.4	76,800
					Dec. 5, 1950	13.50	21,500
1941	Apr. 6, 1941	11.70	16,200		Dec. 9, 1950	14.31	23,900
	June 5, 1941	15.28	26,900		Feb. 22, 1951	12.63	18,800
					Mar. 31, 1951	14.41	24,200
1942	Dec. 24, 1941	11.87	16,800		June 14, 1951	14.58	24,800
	Mar. 10, 1942	12.77	19,400				
	Apr. 3, 1942	11.08	14,500	1952	Jan. 3, 1952	12.46	18,500
	Apr. 10, 1942	13.77	22,400		Jan. 28, 1952	12.49	18,500
	May 23, 1942	13.87	22,700		Mar. 12, 1952	18.14	38,100
					Mar. 24, 1952	10.58	13,200
1943	Oct. 16, 1942	13.90	22,700				
	Dec. 31, 1942	20.82	48,900	1953	Nov. 22, 1952	16.47	31,700
	Jan. 19, 1943	10.78	13,700		Dec. 11, 1952	10.57	13,200
	Mar. 13, 1943	10.42	12,700		Jan. 25, 1953	10.70	13,400
	Apr. 20, 1943	15.30	26,900		Mar. 25, 1953	16.14	30,100
	May 13, 1943	11.65	15,900		June 1, 1953	13.94	22,700
1944	Jan. 29, 1944	10.43	12,700	1954	Mar. 2, 1954	17.14	34,100
	Mar. 14, 1944	12.80	19,400				
	Mar. 17, 1944	11.92	16,800	1955	Oct. 16, 1954	16.84	32,900
	Mar. 25, 1944	11.38	15,300		Dec. 31, 1954	12.09	17,300
	Apr. 25, 1944	12.18	17,600		Mar. 5, 1955	13.83	22,400
	May 8, 1944	12.14	17,300		Mar. 23, 1955	13.72	22,100
					Apr. 22, 1955	12.72	19,100
1945	Feb. 27, 1945	13.28	20,900				
	Mar. 4, 1945	12.23	17,600	1956	Mar. 8, 1956	14.97	26,000
	Mar. 7, 1945	15.94	29,300		Apr. 4, 1956	10.74	13,400
	Mar. 22, 1945	11.57	15,900		Apr. 8, 1956	12.02	17,000
	May 18, 1945	12.22	17,600		May 13, 1956	11.27	15,000
	Sept. 19, 1945	13.13	20,300		Aug. 8, 1956	11.62	15,900
1946	Nov. 29, 1945	12.19	17,600	1957	Dec. 15, 1956	11.86	16,800
	Jan. 8, 1946	11.20	14,800		Apr. 6, 1957	11.77	16,500
	Mar. 1, 1946	10.47	12,900		Apr. 9, 1957	11.45	15,300
	May 28, 1946	13.90	22,700				
	June 3, 1946	14.54	24,500	1958	May 6, 1958	12.59	18,800
	June 13, 1946	12.45	18,200				

5640. Aughwick Creek near Orbisonia, Pa.

Location. --Lat 40°12'35", long 77°55'30", at highway bridge, 600 ft upstream from East Broad Top Railroad bridge, 650 feet upstream from Three Springs Creek, and 2¼ miles southwest of Orbisonia, Huntingdon County.

Drainage area. --174 sq mi.

Gage. --Nonrecording gage. Datum of gage is 619.51 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 11,500 cfs and extended above.

Remarks. --Base for partial-duration series, 3,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 8, 1930	7.7	3,810	1934	Sept. 17, 1934	11.6	6,840
1931	Apr. 1, 1931	8.7	3,690	1935	Dec. 1, 1934	12.01	7,350
	May 23, 1931	8.5	3,510		Feb. 28, 1935	[a]9.2	—
	July 10, 1931	10.67	5,760		Mar. 12, 1935	11.1	6,240
1932	Mar. 31, 1932	7.99	3,060		Mar. 18, 1935	19.16	18,900
1933	Nov. 10, 1932	8.6	3,600	1937	Feb. 22, 1937	10.8	5,880
	Nov. 19, 1932	8.2	3,240		Apr. 26, 1937	14.45	10,700
	Mar. 14, 1933	8.1	3,150		Apr. 28, 1937	12.1	7,480
	Aug. 24, 1933	10.83	5,880	1938	Oct. 28, 1937	9.1	4,070

[a]Backwater from ice.

5645. Aughwick Creek near Three Springs, Pa.

Location. --Lat 40°12'45", long 77°55'30", on right bank 10 ft downstream from bridge on State Highway 377, 300 ft upstream from East Broad Top Railroad bridge, 350 ft upstream from Three Springs Creek, and 3½ miles northeast of village of Three Springs Huntingdon County. Records include flow of Three Springs Creek.

Drainage area. --205 sq mi, includes that of Three Springs Creek.

Gage. --Recording gage. Datum of gage is 618.65 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 2,900 cfs and extended above on basis of contracted-opening measurement of peak flow.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 2,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Dec. 10, 1938	10.63	6,030	1943 Cont.	Mar. 12, 1943	7.10	2,150
	Feb. 4, 1939	9.72	4,890		Apr. 20, 1943	9.03	4,030
	Feb. 28, 1939	8.91	3,970		May 11, 1943	8.34	3,270
1940	Jan. 15, 1940	7.49	2,580		May 12, 1943	7.73	2,680
	Mar. 31, 1940	10.00	5,250	1944	Jan. 28, 1944	7.39	2,410
	Apr. 4, 1940	8.92	3,970		Mar. 13, 1944	8.70	3,700
	Apr. 9, 1940	7.60	2,670		Apr. 25, 1944	9.53	4,620
	Apr. 21, 1940	8.89	3,970		Apr. 27, 1944	7.49	2,500
1941	Apr. 5, 1941	7.94	2,940		May 7, 1944	8.88	3,920
	June 5, 1941	9.08	4,190		May 27, 1944	8.09	3,070
1942	Dec. 24, 1941	8.58	3,640	1945	Feb. 27, 1945	8.39	3,370
	Mar. 9, 1942	8.42	3,440		Mar. 7, 1945	7.54	2,500
	Apr. 3, 1942	8.18	3,240		May 18, 1945	8.26	2,800
	Apr. 10, 1942	8.18	3,240		Sept. 18, 1945	10.23	5,020
	May 23, 1942	8.22	3,240	1946	Nov. 28, 1945	10.03	4,720
	Aug. 18, 1942	7.78	2,840		Mar. 9, 1946	7.57	2,290
1943	Oct. 16, 1942	9.36	4,500		May 27, 1946	9.60	4,150
	Dec. 30, 1942	12.32	8,680		June 2, 1946	12.47	8,770
					June 15, 1946	8.54	2,960

Aughwick Creek near Three Springs, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	Mar. 14, 1947	7.29	2,080	1952	Apr. 5, 1952	8.12	2,550
				Cont.	Apr. 27, 1952	9.22	3,480
1948	Apr. 15, 1948	7.50	2,280				
	June 19, 1948	7.45	2,210	1953	Nov. 22, 1952	17.23	18,600
	June 27, 1948	7.35	2,210		Dec. 11, 1952	10.59	5,380
	June 30, 1948	7.31	2,140		Jan. 24, 1953	8.93	3,190
					Mar. 24, 1953	12.30	8,290
1949	Nov. 20, 1948	8.57	3,060		May 31, 1953	8.31	2,690
	Dec. 30, 1948	10.17	5,020				
	Jan. 27, 1949	7.44	2,150	1954	Mar. 1, 1954	14.25	12,000
	July 28, 1949	9.41	3,890		Apr. 28, 1954	8.33	2,690
1950	Feb. 15, 1950	7.84	2,430	1955	Oct. 16, 1954	16.28	16,500
	Mar. 25, 1950	8.17	2,720		Dec. 30, 1954	7.81	2,340
	May 19, 1950	9.13	3,540		Mar. 5, 1955	7.94	2,410
					Mar. 22, 1955	11.10	6,190
1951	Oct. 9, 1950	7.60	2,290		Apr. 22, 1955	8.00	2,480
	Nov. 5, 1950	7.78	2,430		Aug. 13, 1955	7.60	2,200
	Nov. 25, 1950	18.04	20,600		Aug. 19, 1955	9.29	3,590
	Dec. 4, 1950	9.51	3,820				
	Dec. 8, 1950	10.38	5,070	1956	Oct. 15, 1955	9.26	3,590
	Feb. 7, 1951	8.31	2,690		Apr. 3, 1956	8.44	2,770
	Feb. 21, 1951	9.05	3,280		Apr. 7, 1956	8.22	2,620
	Mar. 31, 1951	13.79	11,200		July 3, 1956	8.22	2,620
	Apr. 13, 1951	8.71	3,010				
	June 13, 1951	10.05	4,480	1957	Oct. 23, 1956	10.73	5,540
					Nov. 2, 1956	7.46	2,130
1952	Jan. 2, 1952	7.79	2,340		Dec. 14, 1956	11.55	7,040
	Jan. 27, 1952	7.57	2,200				
	Feb. 4, 1952	7.63	2,200	1958	Dec. 26, 1957	9.47	3,820
	Mar. 11, 1952	13.78	11,200		Feb. 28, 1958	9.08	3,380
					May 7, 1958	8.54	2,850

5650. Kishacoquillas Creek at Reedsville, Pa.

Location. --Lat 40°39'15", long 77°35'00", on left bank 150 ft downstream from bridge on U. S. Highway 322, 1 mile southeast of Reedsville, Mifflin County, and 1 mile downstream from Honey Creek.

Drainage area. --164 sq mi.

Gage. --Recording gage. Datum of gage is 551.23 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,400 cfs and extended on basis of slope-area measurement.

Bankfull stage. --9 ft.

Remarks. --Base for partial-duration series, 1,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	9.58	4,870	1944	Mar. 17, 1944	6.53	1,580
	Apr. 8, 1940	6.27	1,400	Cont.	May 7, 1944	6.87	1,800
	Apr. 20, 1940	6.51	1,560				
				1945	Mar. 4, 1945	5.93	1,190
1941	Apr. 5, 1941	5.74	1,110		Mar. 7, 1945	6.62	1,610
					Mar. 21, 1945	6.28	1,400
1942	Dec. 24, 1941	6.71	1,680		May 18, 1945	8.98	4,080
	Mar. 9, 1942	6.39	1,470		May 28, 1945	5.79	1,100
	Apr. 4, 1942	6.53	1,580				
	Apr. 10, 1942	5.80	1,110	1946	Nov. 29, 1945	7.15	2,040
	May 22, 1942	11.19	7,200		Mar. 9, 1946	6.37	1,440
					May 28, 1946	8.25	3,100
1943	Dec. 30, 1942	8.91	3,950		June 2, 1946	7.34	2,220
	Apr. 21, 1943	7.54	2,410				
				1947	June 8, 1947	6.01	1,220
1944	Nov. 9, 1943	6.18	1,340				
	Jan. 4, 1944	6.87	1,800				

Kishacoquillas Creek at Reedsville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Mar. 20, 1948	6.01	1,220	1953	Nov. 22, 1952	6.72	1,840
	Apr. 12, 1948	6.35	1,440		Dec. 11, 1952	—	—
	Apr. 14, 1948	7.87	2,720		Jan. 24, 1953	6.71	1,840
					Mar. 24, 1953	7.80	2,810
1949	Dec. 30, 1948	6.63	1,640		May 26, 1953	9.38	4,540
	Apr. 14, 1949	6.50	1,540		May 31, 1953	7.67	2,710
1950	Mar. 24, 1950	6.26	1,370	1954	Mar. 1, 1954	8.48	3,520
	Mar. 26, 1950	5.85	1,140		May 4, 1954	7.71	2,710
	Mar. 29, 1950	6.38	1,470				
				1955	Oct. 16, 1954	7.59	2,620
1951	Nov. 25, 1950	13.12	9,830		Dec. 30, 1954	5.67	1,100
	Dec. 4, 1950	7.88	2,910		Mar. 22, 1955	6.05	1,360
	Dec. 8, 1950	8.23	3,210		Aug. 13, 1955	6.34	1,560
	Feb. 7, 1951	7.28	2,350				
	Feb. 21, 1951	5.84	1,220	1956	Oct. 14, 1955	8.11	3,110
	Mar. 30, 1951	9.58	4,780		Feb. 11, 1956	5.83	1,220
	Apr. 12, 1951	6.42	1,600		Feb. 18, 1956	5.68	1,130
	Apr. 23, 1951	5.83	1,220		Feb. 25, 1956	6.36	1,560
	June 13, 1951	6.78	1,920		Mar. 8, 1956	6.57	1,720
1952	Jan. 3, 1952	5.90	1,250	1957	Nov. 2, 1956	8.48	3,520
	Jan. 27, 1952	5.79	1,190		Apr. 6, 1957	7.25	2,260
	Feb. 4, 1952	6.04	1,360		Apr. 9, 1957	6.79	1,920
	Mar. 11, 1952	8.16	3,210				
	Apr. 5, 1952	6.03	1,360	1958	Dec. 26, 1957	6.32	1,530
					Jan. 22, 1958	5.65	1,100
					Feb. 28, 1958	8.10	3,110
					May 7, 1958	5.88	1,250

5660. Tuscarora Creek near Port Royal, Pa.

Location. --Lat 40°30'55", long 77°25'10", on left bank 100 ft upstream from highway bridge, 2 miles southwest of Port Royal, Juniata County, and $3\frac{1}{2}$ miles upstream from mouth.

Drainage area. --214 sq mi.

Gage. --Nonrecording gage prior to Aug. 5, 1931; recording gage thereafter. Prior to Aug. 5, 1931, at site 100 ft downstream. Datum of gage is 420.27 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 5,000 cfs and extended by logarithmic plotting.

Bankfull stage. --11 ft.

Remarks. --Base for partial-duration series, 3,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Mar. 15, 1912	10.7	6,890	1917	Mar. 12, 1917	8.8	4,340
	May 13, 1912	12.4	9,950				
				1918	Feb. 26, 1918	11.4	8,080
1913	Mar. 27, 1913	10.8	7,030		Apr. 16, 1918	9.6	5,350
1914	Jan. 31, 1914	8.9	4,460	1919	May 21, 1919	12.2	9,550
	Apr. 16, 1914	8.7	4,220				
				1920	Mar. 6, 1920	[a]12.6	—
1915	Jan. 7, 1915	8.55	4,110		Mar. 13, 1920	—	[b]5,500
	Jan. 13, 1915	8.8	4,340				
	Feb. 2, 1915	8.9	4,460	1921	May 5, 1921	11.68	8,600
	Feb. 24, 1915	9.4	5,080				
				1922	Nov. 28, 1921	8.4	3,880
1916	Mar. 28, 1916	11.5	8,250		July 2, 1922	8.4	3,880
	June 17, 1916	11.8	8,790				

Tuscarora Creek near Port Royal, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Mar. 3, 1923	8.3	3,780	1941	Apr. 6, 1941	8.23	2,690
1924	Jan. 17, 1924	11.0	7,320	1942	Apr. 4, 1942	9.39	3,800
	Apr. 6, 1924	12.3	9,780		Apr. 10, 1942	9.48	3,900
	May 9, 1924	9.5	5,220		May 22, 1942	14.44	10,100
	May 12, 1924	12.4	10,000				
	June 29, 1924	9.0	4,580	1943	Dec. 30, 1942	11.73	6,330
					Apr. 20, 1943	10.50	4,940
1925	Feb. 12, 1925	9.2	4,820				
				1944	Apr. 25, 1944	9.72	4,100
1926	Feb. 26, 1926	10.2	6,180				
				1945	May 18, 1945	9.67	4,100
1927	Nov. 16, 1926	12.8	10,800				
	Nov. 19, 1926	9.0	4,580	1946	Nov. 29, 1945	11.44	5,970
	Mar. 8, 1927	8.6	4,110		May 28, 1946	10.93	5,380
	July 23, 1927	10.0	5,900		June 3, 1946	10.88	5,380
1928	Oct. 13, 1927	8.6	4,110	1947	July 16, 1947	12.16	6,960
	Oct. 19, 1927	11.1	7,020				
	Nov. 18, 1927	9.4	5,080	1948	May 13, 1948	9.87	4,300
	Apr. 30, 1928	10.4	6,460				
				1949	Dec. 30, 1948	10.18	4,610
1929	Feb. 27, 1929	9.6	4,920				
	Apr. 16, 1929	10.4	5,850	1950	Feb. 15, 1950	8.42	2,850
					Mar. 25, 1950	8.42	2,850
1930	Oct. 3, 1929	8.8	4,020				
	Oct. 23, 1929	16.21	13,000	1951	Nov. 25, 1950	19.73	19,400
	Feb. 25, 1930	8.8	4,020		Dec. 4, 1950	10.32	4,720
	Mar. 8, 1930	9.8	5,150		Dec. 8, 1950	11.68	6,330
					Mar. 31, 1951	13.22	8,310
1931	July 11, 1931	9.44	4,390		Apr. 13, 1951	9.54	3,890
1932	Apr. 1, 1932	8.71	3,510	1952	Mar. 11, 1952	13.37	8,590
					Sept. 1, 1952	9.90	4,290
1933	Aug. 24, 1933	13.41	8,900				
				1953	Nov. 22, 1952	16.79	14,100
1934	Sept. 17, 1934	12.23	6,720		Mar. 24, 1953	10.86	5,380
1935	Dec. 1, 1934	13.05	7,520	1954	Mar. 2, 1954	12.48	7,350
1936	Nov. 13, 1935	9.46	3,870	1955	Oct. 16, 1954	11.87	6,570
	Mar. 12, 1936	15.46	11,800		Mar. 22, 1955	9.76	4,190
	Mar. 18, 1936	[c]21.60	14,400		Aug. 19, 1955	9.88	4,290
1937	Feb. 22, 1937	10.72	5,160	1956	Oct. 15, 1955	10.70	5,160
	Apr. 27, 1937	15.68	12,200				
				1957	Nov. 1, 1956	11.93	6,570
1938	Nov. 13, 1937	10.06	4,500		Dec. 15, 1956	9.52	3,890
1939	Feb. 3, 1939	8.83	3,230	1958	Feb. 28, 1958	10.40	4,830
1940	Mar. 31, 1940	10.97	5,490				
	Apr. 20, 1940	9.41	3,800				

[a]Backwater from ice.
[b]Maximum daily discharge.
[c]Occurred following day.

5665. Cocolamus Creek near Millerstown, Pa.

Location. --Lat 40°33'55", long 77°07'05", on right bank 10 ft upstream from bridge on State Highway 17, 2.3 miles northeast of Millerstown, Perry County, and 3 miles upstream from mouth.

Drainage area. --57.2 sq mi.

Gage. --Recording gage. Datum of gage is 425.50 ft above mean sea level (Pennsylvania State Highway benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 1,000 cfs.

Cocolamus Creek near Millerstown, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Mar. 8, 1930	4.95	1,280
1931	Apr. 1, 1931	5.15	1,400
	May 23, 1931	4.90	1,250
	Aug. 10, 1931	4.71	1,140
1932	May 11, 1932	4.50	1,010
1933	Oct. 18, 1932	4.72	1,110
	Nov. 19, 1932	4.73	1,140
	Apr. 17, 1933	4.59	1,060
	Aug. 24, 1933	8.20	4,56
	Sept. 4, 1933	5.58	1,710
1934	Jan. 7, 1934	5.08	1,340
	Aug. 11, 1934	5.16	1,380
	Sept. 17, 1934	7.67	3,910
1935	Dec. 1, 1934	7.59	3,780
1936	Nov. 13, 1935	6.48	2,530
	Mar. 11, 1936	7.18	3,300
	Mar. 18, 1936	6.48	2,530
	Mar. 21, 1936	4.51	1,010
	Apr. 6, 1936	6.06	2,100
1937	Feb. 22, 1937	5.43	1,590
	Apr. 26, 1937	5.17	1,380
1938	Nov. 13, 1937	7.78	4,040
1939	Feb. 28, 1939	4.47	986
1940	Mar. 14, 1940	4.58	1,020
	Mar. 31, 1940	7.07	3,180
	Apr. 9, 1940	4.92	1,190
	Apr. 20, 1940	5.95	1,900
1941	Dec. 28, 1940	4.55	990
1942	Dec. 24, 1941	7.04	3,060
	May 22, 1942	7.21	3,300
1943	Oct. 16, 1942	4.70	1,070
	Oct. 17, 1942	4.99	1,250
	Dec. 2, 1942	4.63	1,040
	Dec. 30, 1942	6.91	2,940
	Apr. 20, 1943	5.83	1,820
	May 26, 1943	5.44	1,540
1944	Oct. 27, 1943	5.17	1,320
	Nov. 9, 1943	6.61	2,570
	Jan. 4, 1944	6.45	2,400
	Mar. 13, 1944	4.97	1,200
	Mar. 24, 1944	4.60	1,020
	Apr. 25, 1944	4.77	1,090
	May 7, 1944	6.05	2,000
	May 23, 1944	6.50	2,460
1945	May 18, 1945	5.37	1,440
	May 28, 1945	5.66	1,660
	Aug. 25, 1945	4.89	1,180
	Sept. 18, 1945	6.25	2,200
1946	Nov. 22, 1945	4.70	1,070
	Nov. 29, 1945	7.44	3,520
	May 27, 1946	6.85	2,860
	June 2, 1946	5.39	1,480
1947	Mar. 14, 1947	4.73	1,100
1948	Nov. 12, 1947	4.82	1,120
	Apr. 14, 1948	5.18	1,350
	May 5, 1948	4.65	1,040
	May 13, 1948	4.65	1,040
1949	Dec. 30, 1948	5.83	1,820
	Apr. 14, 1949	6.02	1,960
1950	Jan. 7, 1950	4.71	1,070
	Feb. 14, 1950	4.88	1,180
	Feb. 15, 1950	5.47	1,520
	Mar. 24, 1950	5.48	1,550
	Aug. 19, 1950	4.86	1,150
1951	Nov. 25, 1950	8.18	4,560
	Dec. 4, 1950	7.20	3,280
	Dec. 8, 1950	5.24	1,380
	Jan. 24, 1951	4.95	1,210
	Feb. 7, 1951	5.78	1,780
	Feb. 21, 1951	4.83	1,150
	June 13, 1951	4.69	1,070
1952	Feb. 4, 1952	4.76	1,100
	Mar. 11, 1952	7.94	4,170
	Apr. 5, 1952	5.38	1,480
	May 12, 1952	5.32	1,410
1953	Nov. 22, 1952	6.21	2,150
	Dec. 11, 1952	5.00	1,240
	Jan. 24, 1953	5.43	1,520
	Mar. 24, 1953	5.70	1,700
	May 26, 1953	5.30	1,410
	May 31, 1953	6.67	2,620
	June 6, 1953	4.58	1,020
1954	Feb. 21, 1954	5.03	1,260
	Mar. 1, 1954	7.49	3,650
	May 4, 1954	4.58	1,020
1955	Dec. 30, 1954	4.67	1,040
	Mar. 22, 1955	4.92	1,180
	Aug. 13, 1955	5.96	1,920
	Aug. 18, 1955	6.01	1,960
1956	Oct. 14, 1955	7.40	3,520
	Nov. 16, 1955	4.70	1,070
1957	Nov. 2, 1956	8.27	4,690
	Dec. 14, 1956	4.94	1,210
	Apr. 6, 1957	6.04	2,000
1958	Dec. 21, 1957	5.71	1,700
	Dec. 26, 1957	5.01	1,240
	Feb. 28, 1958	6.22	2,150

5670. Juniata River at Newport, Pa.

Location. --Lat 40°28'45", long 77°07'45", on right bank at downstream side of highway bridge at Newport, Perry County, 1,000 feet upstream from Little Buffalo Creek.

Drainage area. --3,354 sq mi.

Gage. --Nonrecording gage prior to July 16, 1929; recording gage thereafter. Datum of gage is 363.93 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 100,000 cfs and extended above.

Bankfull stage. --22 ft.

Remarks. --Base for partial-duration series, 29,000 cfs. Only annual peaks are shown prior to Oct. 1, 1913.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1889	June 1, 1889	35.9	209,000
1899	Mar. 29, 1899	11.0	31,400
1900	Mar. 2, 1900	14.4	48,200
1901	Mar. 11, 1901	17.7	68,000
1902	Mar. 1, 1902	25.3	118,000
1903	Mar. 1, 1903	16.0	57,800
1904	Mar. 8, 1904	14.7	50,000
1905	Mar. 22, 1905	16.0	54,500
1906	Mar. 30, 1906	11.8	32,200
1907	Mar. 15, 1907	23.0	98,400
1908	Mar. 20, 1908	21.3	87,100
1909	Feb. 25, 1909	12.2	34,100
1910	Jan. 22, 1910	17.4	62,800
1911	Jan. 15, 1911	11.1	29,000
1912	Mar. 16, 1912	13.8	42,200
1913	May 29, 1913	16.9	59,800
1914	Feb. 1, 1914	13.8	42,200
	Mar. 18, 1914	13.1	38,500
	Mar. 29, 1914	12.0	33,100
1915	Feb. 3, 1915	11.9	32,600
	Feb. 16, 1915	13.3	39,600
	Feb. 25, 1915	14.5	46,000
	June 4, 1915	16.16	55,400
1916	Mar. 29, 1916	20.0	72,300
	June 17, 1916	20.04	72,300
1917	Mar. 13, 1917	13.7	39,400
1918	Feb. 21, 1918	14.0	40,700
	Feb. 27, 1918	16.7	54,100
	Apr. 16, 1918	14.1	41,200
1919	May 11, 1919	11.5	29,700
	May 23, 1919	17.4	57,800
1920	Mar. 6, 1920	20.9	—
	Mar. 13, 1920	19.1	67,200
1921	May 5, 1921	16.0	50,500
1922	Nov. 30, 1921	14.4	42,600
1923	Mar. 3, 1923	15.1	46,000
1924	Jan. 17, 1924	13.7	39,400
	Mar. 31, 1924	15.5	48,000
	Apr. 7, 1924	16.0	50,500
	May 10, 1924	13.6	38,900
	May 13, 1924	18.97	66,600
	June 30, 1924	14.7	44,000
1925	Feb. 12, 1925	16.0	50,500
1926	Feb. 26, 1926	13.2	37,100
1927	Nov. 16, 1926	14.2	41,700
	Nov. 20, 1926	11.9	31,400
	Mar. 9, 1927	12.5	34,000
1928	Oct. 20, 1927	15.9	50,000
	May 1, 1928	17.6	58,800
1929	Apr. 17, 1929	15.4	47,500
1930	Oct. 23, 1929	17.26	57,500
	Feb. 26, 1930	11.68	30,500
1931	May 24, 1931	12.94	35,800
1932	Apr. 1, 1932	13.99	40,600
1933	Mar. 16, 1933	13.35	38,000
	Mar. 21, 1933	12.64	34,500
	May 11, 1933	12.28	33,100
	Aug. 24, 1933	12.35	33,600
1934	Sept. 17, 1934	12.84	35,300
1935	Dec. 1, 1934	14.07	41,400
1936	Feb. 28, 1936	—	[a]30,000
	Mar. 12, 1936	20.40	77,400
	Mar. 19, 1936	34.24	190,000
1937	Jan. 23, 1937	13.35	34,000
	Apr. 27, 1937	24.40	100,000
1938	Oct. 30, 1937	12.57	30,500
1939	Feb. 4, 1939	12.08	28,400
1940	Apr. 1, 1940	18.03	58,000
	Apr. 5, 1940	12.42	29,600
	Apr. 21, 1940	15.85	45,600
1941	June 6, 1941	13.06	32,700
1942	Apr. 10, 1942	13.18	33,100
	May 23, 1942	16.29	48,200

Juniata River at Newport, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Oct. 17, 1942	13.25	33,100	1951	Nov. 26, 1950	25.36	108,000
	Dec. 31, 1942	19.97	70,000		Dec. 5, 1950	13.58	34,900
	Apr. 21, 1943	15.23	42,600		Dec. 9, 1950	13.59	34,900
					Mar. 31, 1951	15.50	44,100
1944	Mar. 14, 1944	11.77	27,100		June 15, 1951	13.52	34,500
	Apr. 26, 1944	11.77	27,100	1952	Jan. 4, 1952	12.30	29,200
	May 8, 1944	11.77	27,100		Jan. 28, 1952	12.33	29,200
					Mar. 12, 1952	17.53	55,000
1945	Feb. 18, 1945	12.25	——				
	Mar. 8, 1945	14.54	39,200	1953	Nov. 23, 1952	18.33	59,800
	May 19, 1945	12.33	29,200		Mar. 25, 1953	15.47	44,100
					June 2, 1953	13.04	32,200
1946	Nov. 29, 1945	14.72	40,100				
	May 28, 1946	15.62	44,600	1954	Mar. 2, 1954	16.77	51,000
	June 3, 1946	14.95	41,600				
				1955	Oct. 17, 1954	15.94	46,100
1947	Aug. 31, 1947	8.15	14,300		Mar. 23, 1955	13.52	34,500
1948	Apr. 15, 1948	16.81	51,000	1956	Mar. 9, 1956	13.53	34,500
1949	Dec. 31, 1948	12.57	30,500	1957	Nov. 2, 1956	13.10	32,700
					Apr. 6, 1957	12.48	30,000
1950	Feb. 15, 1950	13.04	32,200				
				1958	May 7, 1958	12.78	31,100

[a]Daily discharge.

5680. Sherman Creek at Shermandale, Pa.

Location.--Lat 40°19'25", long 77°10'05", on left bank on downstream side of bridge on State Highway 34 at Shermandale, Perry County, 1¼ miles upstream from Fishing Run.

Drainage area.--200 sq mi.

Gage.--Nonrecording gage prior to Jan. 29, 1930; recording gage thereafter. Datum of gage is 422.60 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 6,500 cfs and extended above by slope-area measurement.

Bankfull stage.--9 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1927	July 22, 1927	20.34	44,000	1936	Oct. 30, 1935	8.18	6,310
					Nov. 13, 1955	7.83	5,620
1930	Oct. 2, 1929	6.0	3,250		Mar. 12, 1936	10.28	11,000
	Oct. 23, 1929	8.6	7,050		Mar. 18, 1936	8.99	7,840
	Mar. 8, 1930	6.48	3,810		Mar. 21, 1936	6.05	3,250
					Apr. 6, 1936	6.86	4,300
1931	May 23, 1931	6.18	3,460				
				1937	Feb. 22, 1937	7.15	4,780
1932	Mar. 31, 1932	5.08	2,320		Apr. 27, 1937	9.87	9,330
					Apr. 28, 1937	8.26	6,420
1933	Oct. 18, 1932	8.05	5,960				
	Nov. 10, 1932	7.37	4,990	1938	Oct. 28, 1937	6.43	3,770
	Nov. 19, 1932	5.91	3,130		Nov. 13, 1937	9.43	8,360
	Apr. 17, 1933	6.87	4,300				
	Apr. 19, 1933	6.95	4,430	1939	Feb. 28, 1939	5.71	2,980
	Aug. 11, 1933	6.89	4,300				
	Aug. 24, 1933	14.05	22,300	1940	Mar. 31, 1940	7.55	5,340
	Sept. 4, 1933	6.53	3,810		Apr. 8, 1940	6.34	3,650
					Apr. 20, 1940	7.87	5,790
1934	Sept. 17, 1934	9.06	8,060				
				1941	Apr. 5, 1941	5.82	3,080
1935	Dec. 1, 1934	12.28	16,700				
	July 9, 1935	7.97	5,960				

Sherman Creek at Shermandale, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Dec. 24, 1941	6.74	4,130	1951	Dec. 8, 1950	7.24	4,460
	Apr. 10, 1942	6.61	4,010	Cont.	Feb. 7, 1951	7.12	4,320
	May 22, 1942	11.14	11,800		Feb. 21, 1951	6.55	3,650
	Aug. 14, 1942	6.28	3,650		Apr. 13, 1951	7.05	4,180
	Aug. 18, 1942	6.08	3,410		Aug. 12, 1951	6.66	3,780
1943	Oct. 16, 1942	7.70	5,490	1952	Mar. 11, 1952	13.59	17,800
	Dec. 30, 1942	9.02	7,620		Apr. 5, 1952	8.29	6,170
	Apr. 20, 1943	6.86	4,380		Apr. 27, 1952	6.64	3,830
	May 20, 1943	8.04	5,940		Sept. 1, 1952	8.78	7,040
1944	Nov. 9, 1943	7.50	5,200	1953	Nov. 22, 1952	11.51	12,700
	Jan. 4, 1944	6.11	3,380		Dec. 11, 1952	7.05	4,320
	Apr. 25, 1944	6.80	4,250		Jan. 24, 1953	8.60	6,680
	May 7, 1944	8.06	6,100		Mar. 24, 1953	9.46	8,380
1945	Sept. 18, 1945	7.18	4,780		May 26, 1953	9.71	8,780
				1954	Feb. 21, 1954	6.48	3,710
1946	Nov. 28, 1945	8.72	7,090		Mar. 1, 1954	7.32	4,710
	May 25, 1946	6.13	3,380		May 4, 1954	6.96	4,320
	May 27, 1946	10.22	9,930				
	June 2, 1946	8.12	6,100	1955	Mar. 22, 1955	6.93	3,710
					Aug. 13, 1955	9.07	6,260
1947	May 25, 1947	7.24	4,780		Aug. 19, 1955	7.52	4,250
1948	May 13, 1948	6.93	4,380	1956	Oct. 14, 1955	10.90	10,000
1949	Dec. 30, 1948	7.94	5,490	1957	Nov. 2, 1956	12.75	18,300
	Apr. 14, 1949	6.36	3,400		Dec. 14, 1956	6.44	3,690
					Apr. 6, 1957	5.75	3,040
1950	Mar. 24, 1950	6.58	3,650				
	Aug. 20, 1950	7.87	5,520	1958	Dec. 20, 1957	7.19	4,700
					Dec. 26, 1957	6.44	3,690
1951	Nov. 25, 1950	11.48	12,700		Feb. 28, 1958	7.08	4,560
	Dec. 4, 1950	9.48	8,380				

5685. Clark Creek near Carsonville, Pa.

Location. --Lat 40°27'35", long 76°45'10", on right bank 0.3 mile downstream from DeHart Dam, 1 3/4 miles southeast of Carsonville, Dauphin County, and 15 miles upstream from mouth.
Drainage area. --22.5 sq mi.
Gage. --Nonrecording gage prior to July 27, 1940; recording gage thereafter. Prior to Jan. 6, 1939, at site about 1,700 ft upstream at datum 9.49 ft higher. Jan. 6, 1939 to July 27, 1940, at site about 100 ft downstream at different datum. Datum of present gage is 552.32 ft above mean sea level, datum of 1929.
Stage-discharge relation. --Defined by current-meter measurements below 400 cfs and extended above.
Bankfull stage. --5 ft.
Remarks. --Flow regulated since 1941. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Nov. 13, 1937	2.91	988	1949	Jan. 7, 1949	2.87	198
1939	Dec. 6, 1938	2.20	481	1950	June 1, 1950	2.98	222
1940	Apr. 25, 1940	2.91	161				
				1951	Dec. 8, 1950	3.88	469
1941	Apr. 7, 1941	2.65	152	1952	Mar. 11, 1952	4.77	752
1942	May 23, 1942	4.48	665	1953	Jan. 24, 1953	3.87	454
1943	May 20, 1943	3.24	282	1954	May 11, 1954	2.81	185
1944	Nov. 8, 1943	2.98	222	1955	Mar. 29, 1955	2.31	96
1945	July 19, 1945	3.53	359				
				1956	June 11, 1956	2.35	105
1946	May 27, 1946	4.81	769	1957	Apr. 6, 1957	3.28	293
1947	July 22, 1947	3.90	469	1958	Apr. 7, 1958	3.59	376
1948	Apr. 1, 1948	3.46	340				

5690. Stony Creek near Dauphin, Pa.

Location. --Lat 40°22'45", long 76°54'31", at site of Reading Co. railroad bridge (abandoned), 1½ miles northeast of Dauphin, Dauphin County.

Drainage area. --35 sq mi.

Gage. --Recording gage. Datum of gage is 353.7 ft above mean sea level, datum of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 1,200 cfs and extended above.

Remarks. --Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Oct. 24, 1937	4.14	527	1943	Dec. 30, 1942	4.72	723
	Nov. 13, 1937	5.00	835				
				1944	Nov. 9, 1943	7.97	2,360
1939	Dec. 6, 1938	4.32	599		Jan. 4, 1944	3.97	476
					Apr. 24, 1944	3.73	400
1940	Mar. 31, 1940	4.77	773		May 7, 1944	6.10	1,350
	Apr. 8, 1940	4.38	643				
	Apr. 20, 1940	4.87	811	1945	Apr. 5, 1945	3.78	415
					May 17, 1945	4.33	598
1941	Apr. 5, 1941	3.10	224		May 27, 1945	4.32	580
					May 29, 1945	4.82	760
1942	Dec. 24, 1941	4.41	615		July 19, 1945	5.89	1,250
	May 17, 1942	4.33	598				
	May 22, 1942	5.79	1,200				
	Aug. 17, 1942	4.41	615				

5700. Conodoguinet Creek near Hogestown, Pa.

Location. --Lat 40°15'10", long 77°01'15", on left bank 1,000 ft upstream from highway bridge, three-eights of a mile downstream from Hogestown Run, and 1 mile northeast of Hogestown, Cumberland County.

Drainage area. --470 sq mi.

Gage. --Nonrecording gage prior to Aug. 3, 1931; recording gage thereafter. Prior to September 1919 at site 2.5 miles downstream at different datum. October 1929 to Aug. 3, 1931, at site 1,000 ft downstream. Datum of gage is 351.00 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 11,400 cfs and extended.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Mar. 16, 1912	10.8	8,480	1931	May 23, 1931	5.7	4,040
	Sept. 26, 1912	10.4	7,820				
				1932	Mar. 29, 1932	6.07	4,090
1913	Mar. 28, 1913	9.6	6,600				
				1933	Oct. 18, 1932	8.89	8,020
1914	Oct. 26, 1913	8.55	5,130		Nov. 10, 1932	6.78	4,740
	Feb. 1, 1914	8.3	4,750		Nov. 20, 1932	6.45	4,240
					Mar. 21, 1933	6.51	4,360
1915	Jan. 13, 1915	11.48	9,710		Apr. 18, 1933	7.61	5,860
	June 4, 1915	10.20	7,500		Apr. 20, 1933	6.84	4,740
	Aug. 22, 1915	12.91	12,500		Aug. 11, 1933	8.26	6,970
					Aug. 24, 1933	10.66	11,800
1916	June 17, 1916	12.00	10,600		Sept. 4, 1933	6.88	4,870
1917	Jan. 15, 1917	9.8	6,900	1934	Sept. 17, 1934	8.97	8,200
1930	Oct. 2, 1929	6.6	5,150	1935	Dec. 2, 1934	11.32	13,100
	Oct. 23, 1929	6.3	4,780				

Conodoguinet Creek near Hogestown, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 13, 1936	10.37	11,100
	Mar. 19, 1936	9.00	8,200
	Apr. 7, 1936	7.50	5,710
1937	Apr. 27, 1937	9.66	9,580
	June 11, 1937	6.54	4,360
	Aug. 27, 1937	6.47	4,360
1938	Oct. 29, 1937	7.39	5,560
	Nov. 14, 1937	7.27	5,420
1939	Feb. 4, 1939	6.80	4,690
1940	Jan. 16, 1940	[a]6.32	—
	Feb. 21, 1940	[a]6.48	—
	Mar. 31, 1940	6.29	4,060
	Apr. 9, 1940	7.97	6,430
	Apr. 21, 1940	8.51	7,260
1941	Dec. 29, 1940	5.50	3,150
1942	Dec. 25, 1941	6.38	4,180
	Apr. 4, 1942	6.36	4,180
	May 23, 1942	9.39	8,910
	Aug. 18, 1942	8.51	7,260
1943	Oct. 17, 1942	8.00	6,430
	Dec. 31, 1942	9.15	8,530
	Apr. 20, 1943	6.52	4,300
1944	Nov. 9, 1943	6.84	4,690
	Jan. 4, 1944	7.33	5,370
	Mar. 14, 1944	6.40	4,180
	Mar. 25, 1944	6.28	4,060
	Apr. 25, 1944	6.32	4,060
1945	Sept. 19, 1945	7.66	5,960
1946	Nov. 29, 1945	8.46	7,260
	May 28, 1946	9.43	8,910
	June 3, 1946	8.07	6,590
1947	May 26, 1947	9.30	8,720
	May 30, 1947	6.53	4,300
1948	Nov. 12, 1947	6.58	4,430
1949	Dec. 31, 1948	7.93	6,270
1950	Mar. 24, 1950	6.79	4,530
1951	Nov. 26, 1950	9.27	8,720
	Dec. 5, 1950	8.11	6,590
	Feb. 8, 1951	6.57	4,370
	Feb. 22, 1951	7.19	5,190
	June 15, 1951	7.55	5,790
1952	Jan. 3, 1952	6.80	4,630
	Jan. 28, 1952	6.27	4,080
	Mar. 12, 1952	12.16	15,700
	Apr. 28, 1952	7.11	5,110
	Sept. 2, 1952	8.23	6,750
1953	Nov. 23, 1952	10.90	12,200
	Dec. 11, 1952	6.36	4,200
	Jan. 25, 1953	8.11	6,590
	Mar. 25, 1953	7.24	5,250
	May 26, 1953	7.61	5,820
1954	Mar. 2, 1954	6.08	3,840
1955	Mar. 23, 1955	8.11	6,590
	Aug. 19, 1955	7.12	5,110
1956	Oct. 15, 1955	8.50	7,260
	July 21, 1956	6.81	4,710
1957	Nov. 3, 1956	9.55	9,300
	Dec. 15, 1956	7.65	5,820
	Apr. 6, 1957	6.37	4,200
1958	Dec. 21, 1957	7.60	5,820
	Dec. 27, 1957	7.29	5,390
	Jan. 15, 1958	7.01	4,970
	Feb. 28, 1958	7.38	5,530
	Mar. 26, 1958	6.69	4,580
	May 8, 1958	6.52	4,320

[a]Backwater from ice.

5705. Susquehanna River at Harrisburg, Pa.

Location. --Lat 40°15'10", long 76°52'30", on left bank at Nagle Street, 500 ft upstream from sanitary dam, 3,700 ft downstream from Walnut Street Bridge in Harrisburg, Dauphin County, and 1.1 miles upstream from Paxton Creek.

Drainage area. --24,100 sq mi, approximately.

Gage. --Nonrecording gage prior to Oct. 1, 1928; recording gage thereafter. Prior to July 17, 1904 at Pumping Station 5,800 ft upstream. July 18, 1904 to Sept. 30, 1928 at Walnut Street Bridge 3,700 ft upstream. Datum of gage is 290,01 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --17 ft.

Remarks. --Base for partial-duration series, 180,000 cfs.

Susquehanna River at Harrisburg, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1787	Oct. 5, 1786	22	482,000
1846	Mar. 15, 1846	22	482,000
1865	Mar. 18, 1865	24.6	573,000
1868	Mar. 19, 1868	20.0	417,000
1886	Jan. 6, 1886	19.0	385,000
	Feb. 1886	[a]20.8	654
1889	June 2, 1889	26.8	620,000
1891	Feb. 19, 1891	19.7	408,000
1892	Apr. 5, 1892	15.0	270,000
1893	May 5, 1893	16.9	324,000
1894	May 22, 1894	25.7	613,000
1895	Apr. 11, 1895	13.5	230,000
1896	Apr. 1, 1896	14.8	265,000
1897	Mar. 26, 1897	11.5	180,000
1898	Mar. 24, 1898	16.6	315,000
1899	Mar. 6, 1899	13.4	228,000
1900	Mar. 2, 1900	13.8	238,000
1901	Nov. 28, 1900	14.2	249,000
1902	Mar. 3, 1902	[a]22.94	[b]449,000
1903	Mar. 2, 1903	16.7	276,000
1904	Mar. 8, 1904	[a]20.84	[b]298,000
1905	Mar. 21, 1905	16.3	306,000
1906	Dec. 4, 1905	12.8	210,000
	Mar. 31, 1906	11.9	187,000
	Apr. 16, 1906	11.6	180,000
1907	Mar. 15, 1907	14.2	247,000
1908	Feb. 17, 1908	15.0	269,000
	Mar. 16, 1908	15.1	272,000
	Mar. 20, 1908	16.0	297,000
1909	Feb. 26, 1909	13.0	215,000
	May 2, 1909	16.0	297,000
1910	Jan. 22, 1910	13.0	215,000
	Mar. 3, 1910	17.2	332,000
	Apr. 26, 1910	15.8	291,000
1911	Jan. 16, 1911	11.5	178,000
1912	Apr. 4, 1912	14.3	249,000
1913	Mar. 28, 1913	19.54	402,000
1914	Feb. 1, 1914	13.0	215,000
	Mar. 30, 1914	18.1	358,000
	May 14, 1914	13.0	215,000
1915	Jan. 9, 1915	12.3	190,000
	Feb. 17, 1915	12.9	208,000
	Feb. 26, 1915	15.7	286,000
1916	Mar. 29, 1916	18.8	379,000
	Apr. 16, 1916	13.4	220,000
	June 18, 1916	16.2	300,000
1917	Mar. 29, 1917	10.8	155,000
1918	Oct. 31, 1917	12.92	205,000
	Feb. 22, 1918	14.05	236,000
	Feb. 28, 1918	13.5	222,000
	Mar. 3, 1918	11.9	180,000
	Mar. 16, 1918	15.8	288,000
	Apr. 17, 1918	13.0	208,000
1919	May 12, 1919	12.1	185,000
	May 23, 1919	16.0	294,000
1920	Mar. 13, 1920	20.2	423,000
1921	Mar. 11, 1921	11.8	178,000
1922	Nov. 30, 1921	15.47	278,000
	Feb. 23, 1922	[a]16.6	———
	Mar. 9, 1922	12.40	192,000
1923	Mar. 6, 1923	14.9	261,000
1924	Apr. 8, 1924	17.0	324,000
	May 14, 1924	14.4	247,000
1925	Oct. 1, 1924	14.25	241,000
	Feb. 13, 1925	18.8	379,000
1926	Mar. 27, 1926	11.3	166,000
1927	Nov. 17, 1926	17.0	323,500
	Jan. 22, 1927	[a]13.9	———
	Mar. 16, 1927	12.3	190,000
	Mar. 23, 1927	13.0	208,000
	May 27, 1927	12.53	195,000
1928	Oct. 21, 1927	14.54	249,500
	May 2, 1928	14.65	252,400
1929	Mar. 17, 1929	12.55	235,000
	Apr. 18, 1929	11.23	201,000
	Apr. 23, 1929	12.29	228,000
1930	Feb. 28, 1930	10.15	177,000
1931	Mar. 31, 1931	9.18	153,000
1932	Apr. 2, 1932	13.02	245,000
1933	Aug. 25, 1933	14.04	269,000
1934	Apr.14, Sept.17	8.71	141,000
1935	Dec. 2, 1934	13.06	242,000
	July 11, 1935	10.74	187,000
1936	Mar. 8, 1936	[a]13.80	———
	Mar. 17, 1936	13.47	252,000
	Mar. 19, 1936	29.23	740,000
1937	Jan. 24, 1937	12.62	231,000
	Apr. 28, 1937	12.08	219,000
1938	Dec. 20, 1937	10.28	178,000
1939	Feb. 23, 1939	11.72	210,000
1940	Apr. 2, 1940	19.75	418,000
	Apr. 10, 1940	14.46	280,000
	Apr. 22, 1940	12.72	237,000

Susquehanna River at Harrisburg, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Apr. 7, 1941	13.03	244,000	1950	Mar. 30, 1950	15.20	300,000
					Apr. 6, 1950	12.31	219,000
1942	Mar. 11, 1942	12.72	216,000				
	May 24, 1942	15.05	290,000	1951	Nov. 27, 1950	19.34	416,000
					Dec. 5, 1950	15.07	293,000
1943	Jan. 1, 1943	19.40	412,000		Dec. 9, 1950	11.89	209,000
	Apr. 22, 1943	13.38	252,000		Apr. 1, 1951	14.08	266,000
1944	Mar. 19, 1944	10.68	184,000	1952	Jan. 29, 1952	11.79	206,000
	May 9, 1944	11.78	212,000		Mar. 13, 1952	16.23	324,000
					Apr. 17, 1952	11.03	187,000
1945	Feb. 24, 1945	[a]10.55	———				
	Mar. 1, 1945	11.18	197,000	1953	Dec. 13, 1952	11.39	196,000
	Mar. 5, 1945	13.41	252,000		Mar. 26, 1953	12.21	216,000
	Mar. 8, 1945	13.30	250,000				
	Mar. 19, 1945	10.91	190,000	1954	Mar. 3, 1954	13.15	242,000
	Mar. 24, 1945	12.10	220,000				
				1955	Mar. 6, 1955	10.65	177,000
1946	Mar. 10, 1946	11.83	212,000				
	May 29, 1946	21.80	494,000	1956	Oct. 17, 1955	13.97	263,000
					Mar. 10, 1956	16.66	338,000
1947	Apr. 7, 1947	11.94	214,000		Apr. 9, 1956	12.00	211,000
1948	Mar. 19, 1948	11.05	192,000	1957	Nov. 3, 1956	10.75	182,000
	Mar. 24, 1948	13.60	258,000		Apr. 7, 1957	13.46	250,000
	Apr. 16, 1948	15.53	308,000				
				1958	Apr. 9, 1958	14.72	281,000
1949	Jan. 1, 1949	12.10	220,000		May 9, 1958	10.98	182,000

[a]Backwater from ice.
[b]Maximum daily discharge.

5710. Paxton Creek near Penbrook, Pa.

Location. --Lat 40°18'30", long 70°51'00", at bridge on State Highway 543, 2 miles north of Penbrook, Dauphin County, and 7 3/4 miles upstream from mouth.

Drainage area. --11.2 sq mi.

Gage. --Recording gage. Altitude of gage is 350 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 4, 1940	3.30	405	1944	Mar. 13, 1944	3.50	409
	Mar. 14, 1940	3.75	580	Cont.	Apr. 24, 1944	3.69	470
	Mar. 30, 1940	3.87	622		May 7, 1944	6.57	1,490
	Apr. 8, 1940	3.36	427		June 18, 1944	5.00	910
	Apr. 20, 1940	3.87	622				
	Sept. 16, 1940	3.36	427	1945	Apr. 5, 1945	3.55	424
					May 17, 1945	5.11	928
1941	Nov. 2, 1940	2.98	307		July 19, 1945	6.38	1,540
					July 21, 1945	5.91	1,300
1942	May 22, 1942	6.31	1,440		July 22, 1945	3.53	424
	July 23, 1942	3.99	567				
	July 29, 1942	5.43	1,060	1946	Feb. 27, 1946	3.68	584
	Aug. 16, 1942	6.40	1,490		May 18, 1946	3.51	518
	Aug. 17, 1942	4.20	633		May 21, 1946	5.18	1,140
					May 26, 1946	3.66	567
1943	Dec. 30, 1942	4.16	616		May 27, 1946	4.04	700
	May 19, 1943	4.25	650		June 2, 1946	4.51	874
	May 20, 1943	5.26	1,020				
				1947	May 25, 1947	6.20	1,520
1944	Oct. 26, 1943	3.55	424		June 7, 1947	3.39	480
	Nov. 8, 1943	6.56	1,590		June 11, 1947	3.36	464
	Jan. 4, 1944	4.61	768		July 16, 1947	4.60	898
					July 21, 1947	4.91	1,010

Paxton Creek near Penbrook, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	Apr. 1, 1948	3.31	447	1949 Cont.	Aug. 27, 1949	6.97	1,900
	Apr. 14, 1948	3.66	563		Aug. 29, 1949	3.77	597
	June 12, 1948	3.16	402				
	July 23, 1948	5.60	1,280	1950	Mar. 23, 1950	4.40	825
					May 23, 1950	4.12	718
1949	Nov. 6, 1948	3.40	480		May 31, 1950	3.37	470
	Dec. 30, 1948	3.77	597		June 1, 1950	3.22	423
	Jan. 5, 1949	3.39	480				

5715. Yellow Breeches Creek near Camp Hill, Pa.

Location.--Lat 40°13'30", long 76°53'50", on left bank 50 ft downstream from single span highway bridge, 150 ft downstream from Olmsted's Mill dam, 1 mile southeast of Camp Hill, Cumberland County, and 3.1 miles upstream from mouth.

Drainage area.--216 sq mi.

Gage.--Nonrecording gage prior to Dec. 30, 1919; recording gage thereafter. Prior to December 30, 1919, at site 50 ft upstream. Datum of gage is 301.19 ft above mean sea level, datum of 1929.

Stage-discharge relation.--Defined by current-meter measurements below 3,700 cfs and extended above.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 1,250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Jan. 22, 1910	7.5	4,270	1918	Feb. 20, 1918	6.7	3,450
					Feb. 26, 1918	6.8	3,540
1911	Aug. 4, 1911	5.6	2,480				
	Aug. 31, 1911	5.37	2,320	1919	July 23, 1919	6.82	3,540
1912	Feb. 22, 1912	5.69	2,550	1955	Mar. 22, 1955	4.95	1,470
	Feb. 27, 1912	5.6	2,480		Aug. 13, 1955	4.55	1,320
	Mar. 15, 1912	6.8	3,560				
				1956	Oct. 14, 1955	7.07	2,390
1913	Jan. 3, 1913	3.7	1,300		Feb. 6, 1956	4.69	1,360
	Mar. 27, 1913	7.86	4,680				
				1957	Dec. 14, 1956	4.72	1,320
1914	Jan. 4, 1914	3.65	1,280		Apr. 5, 1957	4.67	1,320
	Jan. 31, 1914	3.93	1,430				
				1958	Dec. 21, 1957	6.36	2,050
1915	Jan. 13, 1915	8.5	5,500		Dec. 26, 1957	5.28	1,560
	Feb. 2, 1915	5.43	2,360		Jan. 15, 1958	6.09	1,920
	Aug. 22, 1915	8.61	5,550		Jan. 22, 1958	5.24	1,520
					Feb. 28, 1958	7.22	2,440
1916	Sept. 15, 1916	8.35	5,150		Mar. 27, 1958	5.28	1,620
					Apr. 7, 1958	4.57	1,340
1917	Feb. 19, 1917	3.4	1,160		May 7, 1958	4.64	1,340
					July 6, 1958	4.89	1,460
					Aug. 14, 1958	6.07	1,740

5720. Lower Little Swatara Creek at Pine Grove, Pa.

(Published as Little Swatara Creek near Pine Grove 1919-28, and as Upper Little Swatara Creek at Pine Grove 1929-32)

Location. --Lat 40°32'15", long 76°22'40", at highway bridge, 0.6 mile upstream from mouth, and three-quarters of a mile southeast of Pine Grove, Schuylkill County.

Drainage area. --34.3 sq mi.

Gage. --Nonrecording gage prior to Aug. 18, 1931; recording gage thereafter. Altitude of gage is 500 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 600 cfs and extended above by logarithmic plotting.

Remarks. --Base for partial-duration series, 920 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1920	Mar. 6, 1920	[a]8.9	[b]1,000	1927	Nov. 16, 1926	7.3	1,330
	Mar. 11, 1920	6.0	1,020		Jan. 21, 1927	6.7	1,180
1921	May 5, 1921	5.7	920	1928	June 30, 1928	6.3	1,070
1922	Mar. 7, 1922	5.0	777	1929	Feb. 26, 1929	6.05	1,000
1923	Mar. 3, 1923	7.0	1,260	1930	Oct. 2, 1929	6.7	1,220
1924	Sept. 30, 1924	8.0	1,500	1931	Mar. 29, 1931	3.9	424
1925	Feb. 11, 1925	7.2	1,310	1932	Mar. 28, 1932	5.74	920
1926	Feb. 19, 1926	5.6	925				
	Feb. 25, 1926	6.6	1,160				

[a]Backwater from ice.
[b]Maximum daily discharge.

5730. Swatara Creek at Harper Tavern, Pa.

Location. --Lat 40°24'10", long 76°34'40", on left bank 10 ft downstream from bridge on State Highway 934, at Harper Tavern, Lebanon County, 6 miles northwest of Annville, and 8½ miles downstream from Little Swatara Creek.

Drainage area. --333 sq mi.

Gage. --Nonrecording gage prior to July 16, 1931; recording gage thereafter. Datum of gage is 356.68 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 25,000 cfs and extended above by logarithmic plotting.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 4,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1889	June 1, 1889	25.6	53,000	1924	Jan. 17, 1924	12.0	11,400
					Apr. 7, 1924	8.8	6,030
1919	July 21, 1919	9.4	6,750		May 12, 1924	7.8	5,020
1920	Mar. 5, 1920	[a]13.6	—	1925	Oct. 1, 1924	13.2	14,200
	Mar. 8, 1920	9.6	7,030		Feb. 12, 1925	14.4	17,200
	Mar. 13, 1920	11.3	10,000		July 17, 1925	7.6	4,820
	Mar. 17, 1920	8.9	6,140				
				1926	Nov. 13, 1925	9.4	6,750
1921	Dec. 14, 1920	7.9	5,120		Jan. 19, 1926	9.4	6,750
	May 5, 1921	10.16	7,640		Feb. 19, 1926	8.2	5,420
					Feb. 26, 1926	11.1	9,600
1922	Dec. 3, 1921	8.6	5,820		Mar. 8, 1926	8.9	6,140
	Mar. 8, 1922	10.4	7,880		July 30, 1926	12.4	12,500
					Aug. 13, 1926	8.0	5,220
1923	Jan. 1, 1923	6.7	3,930				

Swatara Creek at Harper Tavern, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Nov. 16, 1926	14.6	17,800
	Nov. 19, 1926	10.2	7,960
1928	Oct. 13, 1927	9.1	6,370
	Oct. 19, 1927	9.2	6,490
	Nov. 18, 1927	8.4	5,620
	Dec. 8, 1927	8.2	5,420
	Feb. 15, 1928	10.6	8,650
	Apr. 28, 1928	8.8	6,030
	June 26, 1928	8.0	5,220
	June 30, 1928	11.0	9,400
1929	Feb. 27, 1929	10.4	7,880
	Mar. 6, 1929	10.5	8,000
	Apr. 17, 1929	7.7	4,920
1930	Oct. 3, 1929	11.7	9,800
	Apr. 7, 1930	9.3	6,620
1931	May 8, 1931	5.60	2,950
1932	Mar. 28, 1932	9.50	7,020
1933	Nov. 1, 1932	9.36	6,650
	Nov. 19, 1932	8.53	5,520
	Apr. 17, 1933	10.42	8,260
	Aug. 24, 1933	17.53	25,300
1934	Sept. 30, 1934	7.35	4,820
1935	Dec. 2, 1934	11.54	10,400
1936	Mar. 12, 1936	13.75	15,800
	Mar. 18, 1936	9.92	7,710
	Apr. 6, 1936	10.47	8,620
1937	Feb. 22, 1937	7.75	5,200
1938	Oct. 23, 1937	11.8	11,000
	July 12, 1938	7.61	5,000
1939	Dec. 6, 1938	10.30	8,350
1940	Mar. 4, 1940	7.30	5,380
	Mar. 15, 1940	10.42	9,660
	Mar. 31, 1940	10.35	9,660
	Apr. 9, 1940	9.59	8,440
	Apr. 20, 1940	9.22	7,860
	May 26, 1940	7.31	5,380
	Sept. 1, 1940	11.51	11,500
1941	July 8, 1941	5.50	3,440
1942	May 17, 1942	7.68	5,740
	May 23, 1942	12.88	14,000
	Aug. 14, 1942	7.82	5,980
	Aug. 17, 1942	11.04	10,300
	Sept. 28, 1942	9.91	8,440
1943	Oct. 27, 1942	7.87	5,740
	Dec. 30, 1942	11.07	10,300
	May 19, 1943	6.98	4,800
	May 20, 1943	7.11	5,020
1944	Oct. 27, 1943	8.09	6,500
	Nov. 9, 1943	13.25	14,600
	Jan. 4, 1944	6.95	5,020
	Mar. 13, 1944	7.89	5,980
	Mar. 24, 1944	6.93	4,800
	Apr. 25, 1944	7.78	5,860
1945	July 19, 1945	11.35	10,400
1946	May 28, 1946	9.47	7,620
	June 2, 1946	8.82	6,710
1947	May 22, 1947	11.72	11,000
	May 26, 1947	9.98	8,310
	July 8, 1947	10.57	9,190
1948	Nov. 8, 1947	7.25	4,870
	Apr. 1, 1948	7.68	5,420
1949	Dec. 31, 1948	11.21	10,400
	Jan. 6, 1949	10.13	8,810
1950	Mar. 23, 1950	7.59	5,630
1951	Nov. 26, 1950	13.09	14,000
	Dec. 5, 1950	13.34	14,400
	Dec. 8, 1950	8.50	6,700
	Jan. 24, 1951	8.20	6,340
	Feb. 7, 1951	11.16	10,500
	Feb. 21, 1951	7.38	5,410
	Sept. 2, 1951	7.1	5,080
1952	Nov. 3, 1951	7.46	5,520
	Dec. 5, 1951	9.16	7,590
	Dec. 21, 1951	8.50	6,700
	Mar. 12, 1952	11.72	11,500
	Apr. 29, 1952	9.44	8,150
	May 12, 1952	10.78	10,100
	May 25, 1952	7.53	5,790
	Sept. 1, 1952	11.39	11,000
1953	Nov. 22, 1952	11.79	11,700
	Dec. 6, 1952	7.46	5,790
	Dec. 11, 1952	7.73	6,030
	Jan. 24, 1953	9.76	8,690
	Mar. 26, 1953	—	6,150
	May 23, 1953	8.01	6,390
	May 26, 1953	8.54	6,990
1954	Dec. 7, 1953	8.38	6,870
	Mar. 2, 1954	7.42	5,670
	May 10, 1954	7.89	6,270
1955	Mar. 22, 1955	7.49	5,790
	Aug. 19, 1955	12.35	12,700
1956	Oct. 14, 1955	8.83	7,370
1957	Dec. 16, 1956	7.03	5,190
	Apr. 6, 1957	10.30	9,390
1958	Dec. 21, 1957	10.47	9,680
	Dec. 26, 1957	8.99	7,630
	Jan. 22, 1958	8.78	7,370
	Feb. 28, 1958	9.40	8,150
	Apr. 6, 1958	8.05	6,390

[a]Backwater from ice.

5735. Manada Creek at Manada Gap, Pa.

Location. --Lat 40°23'50", long 76°42'35", on left bank just upstream from highway bridge at Manada Gap, Dauphin County, 3 miles northwest of Shellsville and 9 miles upstream from mouth.

Drainage area. --14.1 sq mi.

Gage. --Recording gage. Datum of gage is 516.07 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 790 cfs and extended above by logarithmic plotting.

Remarks. --Base for partial-duration series, 180 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Oct. 23, 1937	3.92	361	1950	Feb. 15, 1950	3.53	199
	Nov. 13, 1937	4.00	388		Mar. 23, 1950	4.10	361
					May 23, 1950	4.55	492
1939	Dec. 6, 1938	3.50	238		May 31, 1950	3.80	279
					June 1, 1950	4.38	447
1940	Mar. 4, 1940	3.47	245				
	Mar. 15, 1940	3.41	227	1951	Nov. 25, 1950	5.66	860
	Mar. 31, 1940	3.76	343		Dec. 4, 1950	4.44	462
	Apr. 8, 1940	3.60	286		Dec. 8, 1950	4.11	361
	Apr. 20, 1940	3.83	370		Jan. 24, 1951	3.85	292
					Feb. 7, 1951	3.94	317
1941	Apr. 5, 1941	2.94	119		Feb. 21, 1951	3.54	215
					Sept. 2, 1951	4.71	538
1942	Dec. 24, 1941	4.07	351				
	May 17, 1942	3.80	278	1952	Dec. 5, 1951	3.90	213
	May 22, 1942	4.30	418		Dec. 21, 1951	3.90	213
	Aug. 16, 1942	8.60	2,650		Jan. 3, 1952	3.77	185
					Mar. 11, 1952	5.69	725
1943	Dec. 30, 1942	4.67	531		Apr. 28, 1952	3.87	294
	May 19, 1943	3.61	231		May 12, 1952	8.44	2,510
					May 25, 1952	3.56	222
1944	Oct. 26, 1943	3.44	193		Sept. 1, 1952	4.31	417
	Nov. 8, 1943	7.55	1,970				
	Jan. 4, 1944	[a]5.25	—	1953	Nov. 22, 1952	5.11	664
	Mar. 13, 1944	3.42	188		Dec. 5, 1952	3.57	227
	Apr. 24, 1944	3.73	260		Dec. 11, 1952	3.34	181
	June 23, 1944	4.76	566		Jan. 24, 1953	4.15	374
	Aug. 7, 1944	3.80	278		Feb. 21, 1953	3.62	239
					Mar. 26, 1953	3.35	182
1945	Apr. 5, 1945	3.61	243		May 26, 1953	3.41	194
	May 17, 1945	3.98	337		May 31, 1953	3.94	316
	May 29, 1945	4.20	403		July 23, 1953	3.35	182
	July 19, 1945	7.96	2,230				
	July 22, 1945	4.90	570	1954	Mar. 1, 1954	4.46	462
					Apr. 17, 1954	3.77	274
1946	Nov. 22, 1945	3.57	222		May 4, 1954	3.41	194
	Nov. 28, 1945	3.50	206				
	May 18, 1946	3.44	193	1955	Mar. 22, 1955	3.62	239
	May 21, 1946	3.93	314		Aug. 18, 1955	4.47	462
	May 27, 1946	6.17	1,070		Aug. 30, 1955	3.94	316
	June 2, 1946	4.30	418				
	July 22, 1946	5.20	697	1956	Oct. 14, 1955	4.52	477
					July 2, 1956	3.48	208
1947	May 22, 1947	3.49	204				
	May 25, 1947	5.29	730	1957	Dec. 15, 1956	3.67	250
	July 16, 1947	3.57	222		Apr. 5, 1957	3.68	252
	July 22, 1947	4.13	375				
				1958	Dec. 20, 1957	4.36	432
1948	Apr. 1, 1948	4.03	341		Dec. 26, 1957	3.81	279
	Apr. 14, 1948	3.75	266		Jan. 22, 1958	3.70	250
	May 5, 1948	3.64	239		Feb. 27, 1958	4.45	462
	May 7, 1948	3.48	202		Mar. 26, 1958	3.54	213
	May 12, 1948	4.39	447		Apr. 6, 1958	3.62	231
					July 5, 1958	3.64	236
1949	Nov. 6, 1948	3.39	182				
	Dec. 30, 1948	4.85	584				
	Jan. 5, 1949	3.94	317				

[a]Backwater from ice.

5740. West Conewago Creek near Manchester, Pa.

Location. --Lat 40°04'55", long 76°43'10", 500 ft upstream from bridge on State Highway 24, 0.7 mile downstream from Little Conewago Creek and 1.5 miles north of Manchester, York County.

Drainage area. --510 sq mi.

Gage. --Recording gage. Datum of gage is 263.68 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements to 47,600 cfs.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 10,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Mar. 6, 1929	11.70	11,800
	Apr. 17, 1929	15.31	20,300
	May 3, 1929	13.79	16,500
1930	Oct. 2, 1929	12.58	13,700
	Mar. 8, 1930	11.16	10,800
1931	Apr. 2, 1931	9.14	6,850
1932	Mar. 28, 1932	12.12	11,900
1933	Oct. 19, 1932	13.37	14,200
	Nov. 1, 1932	12.62	12,800
	Apr. 20, 1933	13.26	14,100
	Aug. 24, 1933	24.14	47,600
1934	Sept. 15, 1934	13.71	15,300
	Sept. 17, 1934	17.41	24,900
	Sept. 30, 1934	17.20	24,400
1935	Dec. 1, 1934	15.86	20,700
1936	Mar. 12, 1936	13.02	13,700
	Mar. 19, 1936	[a]17.08	—
	Apr. 6, 1936	12.93	13,500
	June 13, 1936	11.93	11,400
1937	Feb. 22, 1937	11.73	12,100
	Apr. 27, 1937	12.08	12,900
1938	Oct. 23, 1937	11.27	11,200
	Nov. 13, 1937	13.82	16,800
1939	Feb. 4, 1939	13.70	16,500
	Mar. 1, 1939	11.18	11,000
1940	Apr. 9, 1940	12.18	12,500
	Apr. 20, 1940	15.85	21,300
	Sept. 1, 1940	11.63	11,200
1941	Apr. 6, 1941	11.16	10,400
1942	May 22, 1942	12.79	13,800
	June 5, 1942	12.58	13,400
	Aug. 18, 1942	14.28	17,400
1943	Dec. 30, 1942	14.09	16,900
1944	Nov. 9, 1943	17.33	25,500
	Mar. 13, 1944	11.36	10,800
	Mar. 24, 1944	11.39	10,800
	May 7, 1944	11.37	10,800
1945	July 19, 1945	11.39	11,100
1946	Nov. 29, 1945	15.86	21,600
	June 2, 1946	15.74	21,000
1947	May 22, 1947	13.66	16,000
1948	Jan. 2, 1948	10.82	9,980
1949	Dec. 30, 1948	13.74	16,000
	Jan. 6, 1949	12.96	14,400
1950	Mar. 23, 1950	12.51	13,300
	May 19, 1950	12.18	12,700
1951	Nov. 26, 1950	12.53	13,300
	Dec. 4, 1950	13.91	16,400
	Feb. 7, 1951	11.67	11,700
	Feb. 21, 1951	11.64	11,500
1952	Feb. 4, 1952	11.93	12,100
	Mar. 11, 1952	13.88	16,400
	Apr. 28, 1952	11.72	11,700
1953	Nov. 22, 1952	13.96	16,700
	Jan. 24, 1953	12.66	13,700
1954	Mar. 2, 1954	8.30	5,740
1955	Mar. 22, 1955	14.10	16,900
	Aug. 13, 1955	11.29	10,900
1956	Oct. 14, 1955	12.92	14,200
1957	Dec. 15, 1956	11.37	11,100
	Apr. 6, 1957	11.34	10,900
1958	Dec. 21, 1957	13.77	16,200
	Dec. 27, 1957	13.14	14,600
	Feb. 28, 1958	12.97	14,400
	Mar. 26, 1958	12.03	12,300
	May 6, 1958	11.74	11,700

[a]Backwater from ice.

5745. Codorus Creek at Spring Grove, Pa.

Location. --Lat 39°52'15", long 76°51'50", on left bank 500 ft downstream from bridge on State Highway 116, at Spring Grove, York County, and 0.5 mile downstream from Bunch Creek.

Drainage area. --74.3 sq mi.

Gage. --Nonrecording gage prior to Jan. 18, 1930; recording gage thereafter. Prior to Sept. 9, 1941, at site 500 ft upstream. Datum of gage is 436.50 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 2,400 cfs and extended on basis of computation of flow over dam.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1930	Oct. 2, 1929	6.48	1,710
	Mar. 8, 1930	5.40	1,030
	Apr. 7, 1930	5.61	1,110
1931	Apr. 1, 1931	4.27	685
1932	Mar. 28, 1932	6.23	1,490
	June 16, 1932	6.38	1,620
1933	Apr. 19, 1933	6.55	1,760
	June 13, 1933	6.86	2,210
	July 3, 1933	6.34	1,580
	Aug. 23, 1933	11.84	11,200
1934	Oct. 2, 1933	5.48	1,070
	Mar. 3, 1934	5.59	1,110
	July 8, 1934	5.80	1,200
	Sept. 4, 1934	5.41	1,030
	Sept. 16, 1934	8.70	6,070
	Sept. 30, 1934	7.78	4,100
1935	Dec. 1, 1934	5.36	1,010
1936	Jan. 9, 1936	5.44	1,050
	Feb. 27, 1936	6.11	1,380
	Feb. 29, 1936	6.09	1,380
	Mar. 12, 1936	5.52	1,070
	Mar. 21, 1936	5.79	1,200
	Apr. 6, 1936	5.92	1,250
1937	Feb. 22, 1937	6.92	2,210
	Apr. 26, 1937	5.90	1,250
	Aug. 21, 1937	5.80	1,200
1938	Oct. 23, 1937	7.08	2,550
	Nov. 13, 1937	7.39	3,180
	June 27, 1938	5.92	1,250
1939	Jan. 30, 1939	5.87	1,250
	Feb. 3, 1939	6.44	1,620
	Feb. 28, 1939	6.08	1,380
	Sept. 30, 1939	5.87	1,250
1940	Mar. 4, 1940	6.20	1,410
	Mar. 15, 1940	5.98	1,270
	Apr. 8, 1940	5.89	1,210
	Apr. 20, 1940	7.27	2,590
	July 17, 1940	5.50	1,010
	Aug. 7, 1940	7.20	2,510
	Sept. 1, 1940	5.88	1,210
	Sept. 25, 1940	8.85	6,190
1941	Nov. 2, 1940	5.13	870
1942	Feb. 7, 1942	5.29	1,130
	May 22, 1942	6.03	1,570
	June 4, 1942	7.24	3,190
1942 Cont.	June 14, 1942	5.98	1,570
	July 4, 1942	5.65	1,300
	Aug. 17, 1942	5.42	1,180
	Sept. 28, 1942	5.43	1,180
1943	Dec. 30, 1942	6.00	1,570
	May 21, 1943	8.32	5,510
	June 12, 1943	7.93	4,730
	July 13, 1943	5.89	1,500
1944	Oct. 26, 1943	5.97	1,570
	Nov. 8, 1943	6.89	2,650
	Jan. 4, 1944	6.86	2,650
	Jan. 6, 1944	5.54	1,240
	Mar. 13, 1944	5.64	1,300
	Mar. 23, 1944	5.30	1,130
	May 7, 1944	6.05	1,570
1945	July 15, 1945	6.96	2,820
	July 19, 1945	5.53	1,240
	July 23, 1945	5.09	1,030
1946	Nov. 28, 1945	6.24	1,730
	May 18, 1946	5.09	1,030
	June 2, 1946	7.52	3,850
	June 28, 1946	5.40	1,180
1947	Jan. 31, 1947	5.83	1,430
	May 20, 1947	5.37	1,180
	May 22, 1947	5.63	1,300
1948	Jan. 2, 1948	6.30	1,810
	Feb. 14, 1948	5.08	1,030
1949	Dec. 30, 1948	5.98	1,570
	Jan. 6, 1949	6.15	1,730
	Jan. 28, 1949	5.16	1,080
	Apr. 14, 1949	5.11	1,030
1950	Mar. 23, 1950	6.01	1,610
	May 19, 1950	5.60	1,360
1951	Nov. 25, 1950	5.99	1,610
	Dec. 4, 1950	7.55	4,080
	Feb. 7, 1951	6.22	1,750
	June 10, 1951	4.81	1,020
1952	Mar. 11, 1952	5.80	1,480
	Apr. 14, 1952	5.31	1,220
	Apr. 28, 1952	6.18	1,750
	May 12, 1952	5.54	1,310
	Sept. 1, 1952	6.08	1,680
	Sept. 3, 1952	5.39	1,260
1953	Nov. 22, 1952	6.67	2,180
	Dec. 11, 1952	5.48	1,310
	Jan. 24, 1953	4.82	1,020
	Mar. 26, 1953	5.26	1,220

Codorus Creek at Spring Grove, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Dec. 7, 1953	6.42	1,910	1957	Apr. 6, 1957	5.02	1,100
	Mar. 1, 1954	4.94	1,060				
1955	Mar. 5, 1955	4.94	1,060	1958	Dec. 26, 1957	5.17	1,180
	Mar. 22, 1955	5.90	1,540		Jan. 15, 1958	4.91	1,060
	Aug. 13, 1955	7.21	3,180		Jan. 22, 1958	5.47	1,310
1956	Oct. 14, 1955	6.35	1,910		Jan. 25, 1958	5.76	1,480
	Feb. 6, 1956	6.00	1,610		Feb. 28, 1958	6.56	2,180
	Mar. 14, 1956	5.15	1,180		Apr. 6, 1958	5.00	1,100
					May 5, 1958	6.02	1,610

5750. South Branch Codorus Creek near York, Pa.

Location.--Lat 39°55'10", long 76°45'00", on right bank 100 ft downstream from dam of pumping station of York Water Co., 200 ft upstream from Pennsylvania Railroad Bridge, half a mile upstream from mouth, and 3 miles southwest of York, York County.

Drainage area.--117 sq mi.

Gage.--Nonrecording gage prior to Aug. 21, 1928; recording gage thereafter. Prior to Aug. 21, 1928, at site 180 ft upstream at datum 5.00 ft higher. Datum of gage is 373.03 ft above mean sea level, adjustment of 1907.

Stage-discharge relation.--Defined by current-meter measurements below 2,230 cfs and extended by contracted-opening measurement.

Bankfull stage.--6 ft.

Remarks.--Base for partial-duration series, 1,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Feb. 8, 1928	2.8	1,260	1935	Dec. 1, 1934	4.73	780
	Feb. 15, 1928	3.4	1,910				
	Apr. 28, 1928	3.2	1,680	1936	Jan. 3, 1936	6.20	1,650
	June 22, 1928	3.0	1,460		Jan. 9, 1936	6.01	1,510
	July 13, 1928	4.35	3,260		Feb. 28, 1936	6.52	1,880
	Aug. 17, 1928	3.2	1,680		Mar. 1, 1936	6.36	1,760
					Mar. 4, 1936	5.48	1,180
1929	Feb. 7, 1929	5.70	1,300		Mar. 11, 1936	5.86	1,400
	Feb. 26, 1929	8.12	3,320		Mar. 21, 1936	5.57	1,210
	Mar. 5, 1929	6.61	1,950		Apr. 6, 1936	5.47	1,140
	Apr. 16, 1929	7.20	2,440				
				1937	Feb. 22, 1937	7.67	2,890
1930	Oct. 2, 1929	[a]9.16	—		Apr. 26, 1937	5.43	1,140
	Oct. 22, 1929	6.94	2,230				
	Mar. 8, 1930	5.40	1,110	1938	Oct. 23, 1937	6.79	2,110
	Apr. 7, 1930	6.17	1,620		Nov. 13, 1937	7.45	2,610
					June 27, 1938	8.50	3,790
1931	Dec. 27, 1930	5.06	910		July 23, 1938	4.77	998
					Aug. 18, 1938	5.74	1,440
1932	Mar. 28, 1932	6.35	1,760				
				1939	Dec. 6, 1938	4.95	1,040
1933	Oct. 6, 1932	5.23	1,020		Jan. 30, 1939	5.45	1,280
	Oct. 19, 1932	5.27	1,020		Feb. 3, 1939	6.15	1,710
	Apr. 20, 1933	6.44	1,840		Feb. 28, 1939	5.48	1,310
	June 13, 1933	6.04	1,540				
	July 3, 1933	6.76	2,070	1940	Oct. 2, 1939	4.88	1,020
	Aug. 4, 1933	5.82	1,370		Feb. 19, 1940	5.28	1,210
	Aug. 23, 1933	17.97	19,300		Mar. 4, 1940	5.98	1,590
					Mar. 15, 1940	5.80	1,470
1934	Mar. 3, 1934	6.56	1,910		Apr. 9, 1940	5.74	1,380
	Aug. 13, 1934	5.80	1,370		Apr. 20, 1940	7.52	2,610
	Sept. 4, 1934	9.02	4,410		Sept. 1, 1940	5.10	1,030
	Sept. 16, 1934	10.09	5,920		Sept. 25, 1940	9.02	4,410
	Sept. 30, 1934	7.25	2,440				

South Branch Codorus Creek near York, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Feb. 14, 1941	5.22	1,230	1950	Mar. 23, 1950	5.12	1,410
	Mar. 15, 1941	4.95	1,100		May 19, 1950	4.61	1,180
	Mar. 16, 1941	5.37	1,300				
				1951	Nov. 25, 1950	7.41	2,920
1942	Feb. 7, 1942	5.83	1,470		Dec. 4, 1950	9.44	4,960
	May 22, 1942	6.32	1,760		Feb. 7, 1951	6.43	2,150
	June 5, 1942	6.35	1,830		July 5, 1951	4.47	1,110
	June 13, 1942	7.05	2,290				
	Aug. 9, 1942	7.87	3,130	1952	Mar. 11, 1952	6.12	1,960
	Aug. 13, 1942	5.48	1,280		Apr. 14, 1952	4.63	1,180
	Aug. 17, 1942	5.00	1,050		Apr. 28, 1952	6.93	2,520
	Sept. 28, 1942	6.80	2,130		May 12, 1952	4.66	1,180
					Sept. 1, 1952	5.91	1,840
1943	Oct. 26, 1942	5.68	1,380				
	Dec. 30, 1942	6.01	1,560	1953	Nov. 22, 1952	6.74	2,360
	May 21, 1943	5.88	1,500		Mar. 26, 1953	4.77	1,240
	July 13, 1943	9.12	4,540				
				1954	Dec. 7, 1953	6.77	2,440
1944	Oct. 27, 1943	5.36	1,210		Mar. 1, 1954	4.36	1,050
	Nov. 9, 1943	9.56	5,210				
	Dec. 27, 1943	5.33	1,210	1955	Feb. 7, 1955	5.44	1,560
	Jan. 4, 1944	7.65	2,830		Mar. 22, 1955	4.32	1,020
	Jan. 6, 1944	5.62	1,330		Aug. 13, 1955	8.43	3,840
	Mar. 13, 1944	5.51	1,280		Aug. 19, 1955	4.67	1,180
1945	July 15, 1945	5.88	1,500	1956	Oct. 14, 1955	4.87	1,310
	July 18, 1945	5.69	1,380		Feb. 7, 1956	5.66	1,720
					Mar. 14, 1956	4.58	1,160
1946	June 2, 1946	6.20	1,690				
				1957	Apr. 6, 1957	4.90	1,310
1947	May 22, 1947	4.44	1,020				
				1958	Dec. 21, 1957	4.31	1,020
1948	Jan. 2, 1948	5.78	1,750		Dec. 26, 1957	4.53	1,140
	Feb. 14, 1948	—	1,300		Jan. 15, 1958	4.84	1,260
	May 30, 1948	5.22	1,390		Jan. 22, 1958	5.40	1,560
					Jan. 25, 1958	6.67	2,360
1949	Dec. 30, 1948	4.76	1,160		Feb. 28, 1958	7.25	2,760
	Jan. 6, 1949	5.59	1,630		Mar. 26, 1958	4.25	1,000
	Jan. 28, 1949	4.52	1,040		Mar. 29, 1958	4.41	1,070
	July 13, 1949	4.71	1,140		Apr. 6, 1958	4.64	1,180
					May 6, 1958	5.34	1,510

[a]Backwater from Codorus Creek, probably maximum discharge for year occurred on this day.

5755. Codorus Creek near York, Pa.

Location.--Lat 39°56'45", long 76°45'20", on left bank 0.5 mile upstream from Richland Avenue Bridge, 2.0 miles downstream from South Branch Codorus Creek, and 2 miles southwest of York, York County.

Drainage.--222 sq mi.

Gage.--Nonrecording gage prior to Sept. 30, 1932; recording gage thereafter. Prior to Sept. 30, 1932, at site 1.6 miles downstream at different datum. Datum of gage is 356.39 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation.--Defined by current-meter measurements below 3,300 cfs and extended above.

Bankfull stage.--12 ft.

Remarks.--Flow regulated. Only annual peaks are shown.

Codorus Creek near York, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Aug. 23, 1933	24.0	32,000	1948	Jan. 2, 1948	8.12	3,210
				1949	Jan. 6, 1949	8.20	3,300
1940	Sept. 25, 1940	11.82	7,060	1950	Mar. 23, 1950	7.79	2,940
1941	Mar. 16, 1941	6.77	1,950	1951	Dec. 4, 1950	12.03	7,770
1942	June 5, 1942	8.56	3,550	1952	Apr. 28, 1952	9.65	4,720
1943	July 13, 1943	10.08	5,280	1953	Nov. 22, 1952	9.37	4,500
1944	Nov. 9, 1943	11.66	7,340	1954	Dec. 7, 1953	8.76	3,880
1945	July 15,18, 1945	8.02	3,120	1955	Aug. 13, 1955	11.08	6,520
1946	June 3, 1946	8.17	3,300	1956	Feb. 7, 1956	8.25	3,300
1947	May 22, 1947	7.07	2,370	1957	Apr. 6, 1957	7.58	2,790
				1958	Feb. 28, 1958	10.10	5,280

5760. Susquehanna River at Marietta, Pa.

Location. --Lat 40°03'15", long 76°31'50", on left bank 420 ft upstream from Chickies Creek and 1 mile downstream from Marietta, Lancaster County.

Drainage area. --25,990 sq mi (includes that of Chickies Creek).

Gage. --Recording gage. Datum of gage is 200.56 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 460,000 cfs and extended above.

Remarks. --Only annual peaks are shown.

Peak stages and discharges ≥ 57,70

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date Feb. 26, 1945	Gage height (feet)	Discharge (cfs)
1889	June 2, 1889	58.3	630,000	1945	Mar. 5, 1945	47.79	254,000
1932	Apr. 2, 1932	47.66	256,000	1946	May 29, 1946	54.90	492,000
1933	Aug. 25, 1933	49.44	296,000	1947	Apr. 7, 1947	46.28	214,000
1934	Sept. 17, 1934	44.04	152,000	1948	Apr. 16, 1948	49.67	310,000
	Jan. 3, 1934	[a]46.52		1949	Jan. 1, 1949	46.82	227,000
1935	Dec. 2, 1934	48.27	263,000	1950	Mar. 30, 1950	49.29	298,000
1936	Mar. 19, 1936	60.73	787,000	1951	Nov. 27, 1950	52.96	420,000
1937	Jan. 24, 1937	47.4	241,000	1952	Mar. 13, 1952	50.33	329,000
1938	Dec. 20, 1937	44.81	176,000	1953	Mar. 27, 1953	46.76	227,000
1939	Feb. 23, 1939	46.30	213,000	1954	Mar. 3, 1954	47.50	246,000
1940	Apr. 2, 1940	53.33	432,000	1955	Mar. 7, 1955	45.12	183,000
1941	Apr. 8, 1941	47.59	249,000	1956	Mar. 10, 1956	50.25	325,000
1942	May 24, 1942	49.63	307,000	1957	Apr. 7, 1957	47.63	249,000
1943	Jan. 1, 1943	53.20	428,000	1958	Apr. 9, 1958	48.53	274,000
1944	May 9, 1944	46.23	211,000				

[a]Backwater from ice.

5765. Conestoga Creek at Lancaster, Pa.

Location. --Lat 40°03'00", long 76°16'40", on left bank at Pennsylvania Railroad bridge, 50 ft downstream from small tributary 500 ft downstream from diversion dam of city waterworks, and 0.75 mile east of Lancaster, Lancaster County.

Drainage area. --324 sq mi.

Gage. --Nonrecording gage prior to May 1, 1933; recording gage thereafter. Prior to May 1, 1933, at site 600 ft upstream at different datum. Datum of gage is 245.63 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 4,000 cfs and extended by indirect measurements.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 2,800 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 27, 1929	6.57	9,400
	Mar. 6, 1929	4.92	5,860
	Apr. 17, 1929	3.92	4,060
1930	Oct. 2, 1929	3.00	2,680
1931	July 11, 1931	5.20	4,220
1932	Mar. 28, 1932	5.96	5,480
1933	May 30, 1933	7.18	3,720
	July 17, 1933	7.46	4,050
	July 26, 1933	7.23	3,720
	Aug. 4, 1933	8.85	5,720
	Aug. 20, 1933	6.68	3,200
	Aug. 22, 1933	9.28	6,450
	Aug. 24, 1933	17.52	22,800
1934	Mar. 3, 1934	6.57	3,100
	Apr. 1, 1934	7.59	4,170
	July 8, 1934	12.80	12,600
	July 13, 1934	6.52	3,000
	Sept. 22, 1934	6.77	3,300
	Sept. 30, 1934	14.04	15,000
1935	Dec. 1, 1934	6.41	2,900
	Apr. 8, 1935	6.34	2,800
1936	Nov. 18, 1935	8.21	4,910
	Jan. 3, 1936	8.99	5,990
	Jan. 10, 1936	7.17	3,620
	Mar. 12, 1936	9.58	6,890
	Mar. 18, 1936	7.97	4,620
	Mar. 21, 1936	6.55	2,930
	Apr. 6, 1936	7.84	4,490
1937	Feb. 22, 1937	6.85	3,060
	June 19, 1937	6.95	3,240
1938	Oct. 23, 1937	9.00	6,280
	June 12, 1938	8.92	6,110
	June 27, 1937	8.20	5,010
	July 12, 1938	8.44	5,310
	July 21, 1938	7.67	4,280
1939	Dec. 6, 1938	6.64	2,910
	Jan. 31, 1939	6.96	3,280
	Feb. 4, 1939	9.16	6,620
	Feb. 16, 1939	6.72	2,970
	Mar. 1, 1939	7.69	4,280
	Apr. 7, 1939	6.71	2,970
1940	Mar. 4, 1940	7.65	4,140
	Mar. 15, 1940	8.49	5,470
	Apr. 9, 1940	9.35	6,960
	Apr. 20, 1940	8.25	5,010
	Sept. 26, 1940	7.84	4,420
1941	Dec. 17, 1940	6.96	3,200
	Feb. 7, 1941	6.74	2,900
1942	May 23, 1942	15.12	17,300
	June 8, 1942	7.05	3,260
	July 27, 1942	10.95	9,200
	Aug. 9, 1942	9.83	7,210
	Aug. 14, 1942	8.08	4,720
	Aug. 18, 1942	11.60	10,300
	Sept. 28, 1942	8.29	5,000
1943	Oct. 27, 1942	7.47	3,910
	Dec. 30, 1942	8.85	5,700
	Feb. 11, 1943	7.33	3,650
1944	Nov. 9, 1943	9.57	6,900
	Jan. 4, 1944	8.77	5,700
	Jan. 6, 1944	6.74	2,840
	Mar. 13, 1944	7.36	3,780
	Mar. 24, 1944	7.31	3,650
	Apr. 25, 1944	7.98	4,580
1945	Jan. 2, 1945	7.32	3,650
	Feb. 23, 1945	6.80	3,020
	Feb. 27, 1945	7.93	4,440
	June 28, 1945	6.68	2,900
	July 15, 1945	7.52	3,910
	July 19, 1945	7.47	3,910
	July 22, 1945	7.38	3,780
	July 23, 1945	7.20	3,520
	July 27, 1945	6.75	2,960
	Sept. 11, 1945	9.86	7,370
	Sept. 19, 1945	8.66	5,560
1946	Nov. 29, 1945	7.08	3,390
	Feb. 28, 1946	6.73	2,960
	June 2, 1946	12.69	12,400
1947	July 18, 1947	6.00	2,130
1948	Nov. 4, 1947	7.03	3,260
	Feb. 17, 1948	6.71	2,900
	May 5, 1948	6.98	3,260
	May 7, 1948	6.84	3,020
1949	Dec. 31, 1948	6.80	3,020
	Jan. 6, 1949	10.95	9,200
	Jan. 28, 1949	6.72	2,900
1950	Mar. 23, 1950	8.95	6,000
1951	Nov. 26, 1950	10.42	8,180
	Dec. 4, 1950	8.13	4,720
	Jan. 15, 1951	8.06	4,720
	Feb. 7, 1951	9.48	6,750
	Feb. 21, 1951	6.71	2,900
	Apr. 13, 1951	6.70	2,900

Conestoga Creek at Lancaster, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 21, 1951	7.79	4,300	1955	Mar. 23, 1955	7.78	4,300
	Jan. 26, 1952	7.15	3,520		Aug. 13, 1955	9.34	6,450
	Feb. 4, 1952	6.94	3,150		Aug. 19, 1955	12.11	11,200
	Mar. 11, 1952	8.30	5,000		Aug. 22, 1955	7.67	4,170
	Apr. 29, 1952	9.04	6,000				
	May 26, 1952	7.26	3,650	1956	Feb. 7, 1956	7.30	3,650
	Sept. 1, 1952	8.47	5,280		July 3, 1956	8.03	4,580
1953	Nov. 22, 1952	10.04	7,530	1957	Dec. 15, 1956	6.77	2,970
	Dec. 11, 1952	8.38	5,140		Apr. 5, 1957	7.59	4,040
	Jan. 9, 1953	7.12	3,390				
	Jan. 24, 1953	7.88	4,440	1958	Dec. 21, 1957	6.72	2,910
	Mar. 16, 1953	7.14	3,390		Jan. 22, 1958	6.73	2,970
	Mar. 26, 1953	7.24	3,520		Jan. 25, 1958	6.87	3,150
	May 26, 1953	6.89	3,150		Feb. 28, 1958	9.36	6,600
	June 1, 1953	6.64	2,850		Apr. 7, 1958	8.05	4,580
					July 8, 1958	8.74	5,560
1954	Dec. 7, 1953	9.45	6,600				
	Mar. 2, 1954	7.52	3,910				

5770. Susquehanna River near McCall Ferry, Pa.

(Published as "at McCall Ferry" prior to January 1906)

Location. --Lat 39°48'50", long 76°18'35", 0.4 mile upstream from Muddy Run, 1.4 miles southeast of Holtwood, Lancaster County, and 2 miles southeast of McCall Ferry.
Drainage area. --26,800 sq mi.
Gage. --Nonrecording gage. Prior to Jan. 1, 1906, at site 1¼ miles upstream. Datum of gage is mean sea level.
Stage-discharge relation. --Defined by current-meter measurements.
Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1903	Mar. 2, 1903	136.4	320,000	1907	Mar. 16, 1907	122.9	267,000
1904	Mar. 8, 1904	146.6	631,000	1908	Mar. 20, 1908	125.2	308,000
1905	Mar. 22, 1904	138.4	373,000	1909	May 3, 1909	125.4	311,000
1906	Apr. 16, 1906	119.2	206,000	1910	Mar. 3, 1910	127.1	342,000

5775. Muddy Creek at Castle Fin, Pa.

Location. --Lat 39°46'25", long 76°19'00", 0.6 mile northeast of Castle Fin, York County, and 2.8 miles upstream from mouth.
Drainage area. --133 sq mi.
Gage. --Recording gage. Datum of gage is 175.42 ft above mean sea level (preliminary levels of 1910).
Stage-discharge relation. --Defined by current-meter measurements below 7,600 cfs and extended above on basis of computation of peak flow over dam.
Remarks. --Base for partial-duration series, 3,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 7, 1929	7.68	3,860	1934	Sept. 17, 1934	12.92	8,500
	Feb. 26, 1929	8.81	4,740				
	Mar. 5, 1929	7.07	3,380	1935	July 8, 1935	7.38	3,620
	Apr. 16, 1929	7.31	3,540				
				1936	Jan. 3, 1936	[a]7.88	—
1930	Oct. 2, 1929	7.95	4,100		Jan. 9, 1936	7.46	3,700
1931	Jan. 19, 1931	6.81	3,140	1937	Feb. 22, 1937	8.02	4,100
					July 5, 1937	8.28	4,340
1932	Mar. 28, 1932	7.31	3,540				
				1938	Oct. 23, 1937	7.31	3,540
1933	Aug. 23, 1933	21.11	16,600		Nov. 13, 1937	8.49	4,500
					June 27, 1938	9.65	5,440

[a]Backwater from ice.

6010. Wills Creek below Hyndman, Pa.

Location. --Lat 39°48'43", long 78°43'00", on left bank 150 ft upstream from county highway bridge, 150 ft downstream from Pennsylvania Railroad bridge, 0.35 mile downstream from Little Wills Creek and half a mile south of Hyndman, Bedford County.

Drainage area. --146 sq mi.

Gage. --Recording gage. Datum of gage is 891.37 ft above mean sea level (Pennsylvania Railroad benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 6,000 cfs and extended above by logarithmic plotting.

Bankfull stage. --11 ft.

Remarks. --Base for partial-duration series, 2,100 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 2, 1952	5.78	2,800	1955 Cont.	Mar. 4, 1955	7.02	4,510
	Mar. 11, 1952	8.05	6,080		Mar. 22, 1955	6.08	3,290
1953	Nov. 21, 1952	5.50	2,460		June 8, 1955	5.30	2,390
	Jan. 24, 1953	5.31	2,240		Aug. 18, 1955	5.38	2,480
	Mar. 24, 1953	6.65	3,930	1956	Apr. 7, 1956	5.56	2,680
	May 31, 1953	8.98	7,680	1957	Dec. 14, 1956	6.50	3,810
1954	Mar. 1, 1954	8.42	6,680	1958	Dec. 26, 1957	5.37	2,470
1955	Oct. 15, 1954	11.02	11,600		Apr. 7, 1958	5.20	2,280
	Dec. 30, 1954	6.42	3,710		May 5, 1958	7.47	5,160

6035. Evitts Creek near Centerville, Pa.

Location. --Lat 39°47'23", long 78°38'48", on left bank 2 miles upstream from Thomas W. Koon Dam, 3 miles south of Centerville, Bedford County, and 7 miles upstream from Rock Gully Creek.

Drainage area. --30.2 sq mi.

Gage. --Recording gage. Datum of gage is 1,027.59 ft above mean sea level (city of Cumberland benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 520 cfs and extended above on basis of slope-area measurements.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 400 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Jan. 26, 1933	2.85	414	1939	Feb. 3, 1939	3.14	615
	Mar. 14, 1933	3.55	905		Feb. 28, 1939	3.17	695
	Mar. 19, 1933	2.83	402		July 29, 1939	5.18	2,600
	May 10, 1933	3.07	537	1940	Mar. 31, 1940	3.12	631
1934	Jan. 7, 1934	2.90	441		Apr. 20, 1940	3.10	615
1935	Feb. 15, 1935	2.79	381	1941	June 4, 1941	3.32	797
1936	Feb. 27, 1936	4.08	912	1942	Mar. 9, 1942	3.53	982
	Mar. 11, 1936	3.71	856		Apr. 9, 1942	2.91	475
	Mar. 17, 1936	7.13	5,240		May 22, 1942	2.84	428
	Apr. 6, 1936	3.08	592	1943	Oct. 15, 1942	4.26	1,660
1937	Oct. 17, 1936	2.97	518		Dec. 30, 1942	3.58	1,030
	Jan. 10, 1937	2.96	511		Apr. 19, 1943	3.15	655
	Apr. 26, 1937	4.64	2,040		Apr. 21, 1943	2.88	455
1938	Oct. 28, 1937	3.58	1,030	1944	Jan. 28, 1944	2.92	482
	Jan. 25, 1938	3.05	577		Mar. 13, 1944	2.92	482

Evitts Creek near Centerville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1944 Cont.	Apr. 24, 1944	2.90	455	1952	Mar. 11, 1952	3.95	1,300
	Apr. 27, 1944	3.01	540				
	May 7, 1944	3.58	1,030	1953	Nov. 21, 1952	3.64	993
					Mar. 24, 1953	3.32	717
1945	Feb. 27, 1945	2.92	470		May 31, 1953	4.39	1,740
	May 17, 1945	3.05	572				
	July 31, 1945	3.77	1,200	1954	Mar. 1, 1954	4.35	1,700
	Sept. 18, 1945	2.91	463		June 11, 1954	3.46	836
1946	Feb. 27, 1946	2.85	420	1955	Oct. 15, 1954	4.98	2,650
	June 2, 1946	2.84	412		Mar. 4, 1955	3.15	660
					Mar. 22, 1955	3.22	718
1947	Oct. 26, 1946	2.56	249		June 8, 1955	3.10	620
					Aug. 18, 1955	2.86	442
1948	Apr. 13, 1948	2.90	455				
				1956	Apr. 7, 1956	2.99	533
1949	June 28, 1949	3.12	630		July 19, 1956	3.56	1,030
					Aug. 28, 1956	3.02	556
1950	Mar. 24, 1950	2.51	226				
				1957	Dec. 14, 1956	3.12	636
1951	Dec. 4, 1950	3.21	707		Apr. 25, 1957	3.32	808
	Dec. 7, 1950	3.85	1,270				
	Feb. 21, 1951	2.94	403	1958	Dec. 26, 1957	3.08	449
	Mar. 30, 1951	3.18	571		May 5, 1958	3.73	1,050
	June 13, 1951	3.37	737				
	Aug. 12, 1951	3.17	564				

6135. Licking Creek near Sylvan, Pa.

Location. --Lat 39°43'20", long 78°03'35", at highway bridge, 200 ft upstream from Pennsylvania-Maryland State line, 3 miles southwest of Sylvan, Franklin County, and 10 miles upstream from mouth.

Drainage area. --158 sq mi.

Gage. --Nonrecording gage. Datum of gage is 434.16 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 5,500 cfs and extended on basis of contracted-opening measurement.

Remarks. --Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1931	Mar. 28, 1931	7.6	2,570	1937	Jan. 11, 1937	6.75	2,010
	Apr. 2, 1931	7.5	2,500		Feb. 22, 1937	10.1	4,920
	July 18, 1931	8.1	2,970		Apr. 26, 1937	15.2	14,500
1932	May 13, 1932	8.6	3,390	1938	Oct. 28, 1937	10.0	4,800
1933	Aug. 23, 1933	9.2	3,950	1939	Dec. 10, 1938	9.7	4,470
					Feb. 3, 1939	10.3	5,160
1934	Sept. 17, 1934	9.4	4,150		Mar. 1, 1939	7.2	2,290
1935	Dec. 1, 1934	10.2	5,040	1940	Oct. 3, 1939	7.2	2,290
					Jan. 15, 1940	[a]8.6	——
1936	Feb. 28, 1936	7.7	2,650		Apr. 9, 1940	7.0	2,150
	Mar. 12, 1936	9.0	4,070		Apr. 20, 1940	8.5	3,300
	Mar. 18, 1936	17.4	20,700				
	Apr. 6, 1936	8.5	3,300	1941	Apr. 5, 1941	6.8	2,010

[a]Backwater from ice.

105. Allegheny River at Eldred, Pa.

(Published as "at or near Larabee" prior to Oct. 1, 1939)

Location. --Lat 41°57'50", long 78°23'10", on right bank at site of former highway bridge, 600 ft upstream from bridge on State Highway 346, 1,000 ft upstream from Knapp Creek and half a mile north of Eldred, McDean County.

Drainage area. --550 sq mi.

Gage. --Nonrecording gage prior to Oct. 1, 1939; recording gage thereafter. Prior to Oct. 1, 1939, at site 6 miles upstream at datum 1,423.39 ft above mean sea level, adjustment of 1912. Datum of present gage is 1,416.20 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 15,000 cfs.

Bankfull stage. --20 ft.

Remarks. --Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Mar. 28, 1916	15.4	[a]9,160
1917	Aug. 16, 1917	12.8	[a]5,320
1918	Mar. 15, 1918	14.6	[a]7,640
1919	May 23, 1919	13.58	[a]6,200
1920	Mar. 14, 1920	15.0	[a]8,360
1921	Mar. 10, 1921	11.25	3,400
1922	Apr. 1, 1922	11.4	4,160
1923	Mar. 5, 1923	13.6	6,200
1924	Apr. 7, 1924	12.9	5,420
1925	Feb. 12, 1925	15.4	9,160
1926	Mar. 25, 1926	11.94	3,850
1927	Jan. 24, 1927	[b]12.52	—
	Mar. 15, 1927	12.5	4,580
1928	Nov. 18, 1927	17.60	13,700
1929	Jan. 19, 1929	[b]13.1	—
	Mar. 16, 1929	13.0	4,900
1930	Jan. 14, 1930	12.4	4,560
1931	June 9, 1931	12.80	4,800
1932	Apr. 2, 1932	12.15	4,440
1933	Mar. 16, 1933	11.24	3,840
1934	Jan. 2, 1934	11.60	4,080
1935	Jan. 11, 1935	12.0	4,310
1936	Mar. 18, 1936	15.46	9,360
1937	Jan. 16, 1937	12.6	5,120
	Jan. 26, 1937	13.5	6,080
	Apr. 29, 1937	12.5	5,030
1938	Mar. 6, 1938	12.8	4,990
1939	Feb. 21, 1939	12.7	4,930
1940	Apr. 5, 1940	18.48	12,900
1941	Apr. 7, 1941	14.34	6,130
1942	Mar. 10, 1942	14.47	6,350
	Mar. 19, 1942	14.97	6,950
	July 19, 1942	27.6	55,000
1943	Dec. 31, 1942	17.42	10,800
	Feb. 26, 1943	13.37	5,260
	Mar. 18, 1943	14.88	6,820
	Apr. 22, 1943	16.13	8,500
	May 27, 1943	16.41	8,980
1944	Mar. 19, 1944	13.36	5,260
1945	Mar. 5, 1945	15.15	7,480
	Mar. 19, 1945	15.64	8,040
	Mar. 23, 1945	16.48	9,380
1946	Oct. 4, 1945	13.22	5,710
	May 29, 1946	21.16	20,800
1947	Apr. 6, 1947	19.41	15,200
1948	Mar. 23, 1948	20.04	17,000
	Apr. 15, 1948	14.56	6,710
1949	May 24, 1949	11.33	3,730
1950	Mar. 30, 1950	16.39	9,230
	Apr. 6, 1950	18.42	12,900
1951	Nov. 6, 1950	13.35	5,370
	Nov. 26, 1950	20.94	19,700
	Apr. 1, 1951	15.52	7,900
1952	Jan. 19, 1952	16.22	8,930
	Jan. 28, 1952	15.14	7,350
	Mar. 12, 1952	14.61	6,710
	Apr. 17, 1952	13.52	5,470
1953	Mar. 26, 1953	14.28	6,350
	June 1, 1953	14.21	6,230
1954	Mar. 3, 1954	14.48	6,590
1955	Mar. 6, 1955	15.32	7,620
1956	Oct. 16, 1955	12.96	5,000
	Mar. 9, 1956	20.92	19,700
	Apr. 6, 1956	15.30	7,620
	May 15, 1956	13.91	5,900
1957	Jan. 24, 1957	13.17	5,180
1958	Apr. 8, 1958	15.72	8,180
	May 9, 1958	13.13	5,090

[a]Annual peaks only.
[b]Backwater from ice.

115. Allegheny River at Red House, N. Y.

Location. --Lat 42°06'50", long 78°48'15", at Red House, Cattaraugus County, 0.7 mile upstream from Meetinghouse River at mile 227.7.

Drainage area. --1,690 sq mi.

Gage. --Nonrecording prior to Sept. 3, 1917, recording thereafter. Datum of gage is 1,327.68 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1904	Mar. 26, 1904	11.4	28,400	1931	Apr. 11, 1931	8.64	15,000
1905	Mar. 20, 1905	11.8	30,600	1932	May 9, 1932	9.17	17,400
				1933	Mar. 15, 1933	8.83	15,500
1906	Jan. 24, 1906	8.6	14,800	1934	Jan. 2, 1934	[a]13.78	18,800
1907	Dec. 15, 1906	9.1	17,000	1935	Jan. 10, 1935	9.62	19,300
1908	Mar. 16, 1908	11.5	29,000				
1909	May 2, 1909	13.0	37,800	1936	Mar. 27, 1936	[b]12.89	30,700
1910	Mar. 2, 1910	13.6	41,000	1937	Jan. 25,26, 1937	10.87	24,400
				1938	Feb. 14, 1938	10.05	20,400
1911	Jan. 27, 1911	9.7	19,700	1939	Feb. 20, 1939	11.02	25,200
1912	Apr. 2, 1912	11.2	27,300	1940	Apr. 5, 1940	11.99	30,400
1913	Mar. 26, 1913	13.0	37,800				
1914	Mar. 28, 1914	12.0	31,800	1941	Apr. 6, 1941	10.03	20,200
1915	Feb. 25, 1915	10.1	21,300	1942	July 20, 1942	14.55	45,300
				1943	Dec. 30, 1942	11.98	29,900
1916	Mar. 29, 1916	12.8	36,600	1944	Mar. 17, 1944	9.81	18,700
1917	Mar. 12, 1917	9.6	18,800	1945	Mar. 22, 1945	[c]15.09	23,800
1918	Mar. 15, 1918	11.70	30,000				
1919	May 23, 1919	10.12	21,400	1946	May 28, 1946	12.53	34,900
1920	Mar. 15, 1920	11.95	31,500	1947	Apr. 6, 1947	12.84	37,000
				1948	Mar. 22, 1948	13.27	38,500
1921	Mar. 7, 1921	8.45	13,500	1949	Jan. 6, 1949	7.86	10,300
1922	June 12, 1922	9.00	16,200	1950	Mar. 29, 1950	11.93	30,100
1923	Mar. 5, 1923	10.32	22,900				
1924	Sept. 30, 1924	9.85	20,400	1951	Nov. 26, 1950	12.29	32,200
1925	Feb. 12, 1925	—	24,000	1952	Mar. 12, 1952	10.72	23,300
				1953	May 31, 1953	9.89	19,200
1926	Apr. 9, 1926	9.2	17,200	1954	Mar. 2, 1954	9.35	16,600
1927	Mar. 22, 1927	9.3	18,500	1955	Mar. 2, 1955	11.31	25,200
1928	Dec. 1, 1927	12.6	36,600				
1929	Jan. 19, 1929	10.9	26,500	1956	Mar. 8, 1956	15.11	49,100
1930	Feb. 26, 1930	9.6	19,500	1957	Jan. 24, 1957	11.39	25,600
				1958	Apr. 7, 1958	10.79	22,400

[a]Occurred on Mar. 4, 1934; backwater from ice jam.
[b]Occurred Feb. 27, 1936; backwater from ice jam.
[c]Occurred Feb. 23, 1945; backwater from ice jam.

KINZUA CREEK BASIN

120. Kinzua Creek at Dewdrop, Pa.

Location. --Lat 41°49'50", long 78°57'10", at single span, steel, through truss highway bridge at Dewdrop, Warren County, 3 miles upstream from mouth.

Drainage area. --171 sq mi.

Gage. --Nonrecording gage. Datum of gage is 1,243.13 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 1,900 cfs.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 7, 1910	6.6	3,520	1914	Mar. 28, 1914	8.5	5,420
1911	Jan. 28, 1911	6.5	3,440	1915	Feb. 1, 1915	7.3	4,100
1913	Jan. 8, 1913	9.0	6,020	1916	Mar. 28, 1916	7.0	3,820

125. Allegheny River near Kinzua, Pa.

Location. --Lat 41°50'50", long 78°59'30", on left bank at Pennsylvania Railroad Bridge, half a mile upstream from Best Run, 2 miles southwest of Kinzua, Warren County, and 2.3 miles downstream from Kinzua Creek.

Drainage area. --2,179 sq mi.

Gage. --Recording gage. Datum of gage is 1,200.00 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --18 ft.

Remarks. --Base for partial-duration series, 25,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Feb. 27, 1936	15.93	37,000	1947	Apr. 5, 1947	18.08	48,800
	Mar. 12, 1936	15.13	33,200				
	Mar. 28, 1936	16.69	41,000	1948	Feb. 18, 1948	[a]14.86	—
					Feb. 20, 1948	13.20	25,400
1937	Jan. 15, 1937	13.40	25,200		Mar. 22, 1948	18.52	50,800
	Jan. 25, 1937	14.85	31,700		Apr. 15, 1948	13.32	25,900
1938	Feb. 14, 1938	13.48	26,800	1949	Jan. 6, 1949	10.47	13,700
1939	Feb. 20, 1939	15.02	33,500	1950	Mar. 29, 1950	15.92	38,100
					Apr. 5, 1950	16.02	38,600
1940	Mar. 20, 1940	13.61					
	Apr. 5, 1940	16.46	41,900	1951	Nov. 26, 1950	15.82	37,600
					Dec. 4, 1950	14.14	29,600
1941	Mar. 4, 1941	[a]13.14	—		Jan. 4, 1951	13.65	27,300
	Apr. 6, 1941	12.94	24,100		Feb. 14, 1951	13.43	26,400
1942	Mar. 9, 1942	15.51		1952	Jan. 18, 1952	14.37	31,000
	Mar. 17, 1942	15.95	38,600		Jan. 27, 1952	13.09	25,000
	July 20, 1942	17.70	46,800		Mar. 12, 1952	13.45	26,400
1943	Dec. 30, 1942	16.63	41,500	1953	May 31, 1953	12.82	23,600
	Mar. 17, 1943	13.98	29,100				
				1954	Jan. 21, 1954	[a]12.44	—
1944	Jan. 28, 1944	13.97			Mar. 2, 1954	11.81	19,200
	Mar. 17, 1944	13.16	25,400				
				1955	Mar. 2, 1955	14.26	30,500
1945	Feb. 24, 1945	16.22					
	Mar. 7, 1945	14.12	29,600	1956	Mar. 8, 1956	19.95	60,500
	Mar. 18, 1945	14.06	29,600		Apr. 5, 1956	14.72	32,500
	Mar. 22, 1945	14.64	31,900		May 13, 1956	14.14	29,500
1946	Jan. 6, 1946	14.14		1957	Jan. 23, 1957	14.55	32,000
	May 28, 1946	16.45	40,500				
				1958	Apr. 7, 1958	13.96	29,000

[a]Backwater from ice.

CONEWANGO CREEK BASIN

130. Conewango Creek at Waterboro, N. Y.

Location. --Lat 42°10'15", long 79°04'10", 300 ft downstream from concrete viaduct at Waterboro, Chatauqua County, 900 ft downstream from Davis Brook, and 2½ miles upstream from Kennedy.

Drainage area. --290 sq mi.

Gage. --Nonrecording prior to May 29, 1948; recording thereafter. At site 1,300 ft upstream at various datums prior to Nov. 7, 1939. At site 1,100 ft upstream at datum 0.79 ft higher Nov. 7, 1939, to Nov. 4, 1940. At site 700 ft downstream at present datum Nov. 5, 1940, to May 28, 1948. Datum of gage is 1,255.30 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Conewango Creek at Waterboro, N. Y.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 20, 1939	9.8	3,620	1951	Dec. 5, 1950	9.73	4,500
1940	Apr. 5, 1940	9.75	4,160	1952	Mar. 13, 1952	8.81	3,500
				1953	June 1, 1953	7.11	2,310
1941	Apr. 7, 1941	7.76	2,540	1954	Feb. 18, 1954	8.13	3,000
1942	Mar. 18, 1942	11.05	7,620	1955	Mar. 3, 1955	8.82	3,420
1943	Dec. 31, 1942	10.05	5,050				
1944	Apr. 13, 1944	8.75	3,280	1956	Mar. 8, 1956	11.58	6,750
1945	Mar. 7, 1945	9.65	4,280	1957	Jan. 24, 1957	9.98	4,520
				1958	Apr. 8, 1958	7.40	2,390
1946	Oct. 4, 1945	8.55	3,180				
1947	Apr. 7, 1947	11.35	8,600				
1948	Mar. 23, 1948	10.0	4,960				
1949	Mar. 24, 1949	7.04	2,140				
1950	Mar. 29, 1950	10.42	5,930				

150. Conewango Creek at Russell, Pa.

Location. --Lat 41°56'20", long 79°07'55", on left bank at highway bridge in Russell, Warren County, 0.4 mile upstream from Ackley Run and 8.0 miles upstream from mouth.

Drainage area. --816 sq mi.

Gage. --Nonrecording gage prior to Apr. 10, 1941; recording gage thereafter. Datum of gage is 1,222.18 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --6 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 1936	10.9	14,600	1948	Mar. 23, 1948	9.30	10,700
				1949	Mar. 25, 1949	6.22	4,570
1940	Apr. 4, 1940	9.44	10,700	1950	Mar. 30, 1950	8.92	9,770
1941	Dec. 17, 1940	6.9	5,380	1951	Dec. 6, 1950	8.91	9,770
1942	Mar. 19, 1942	10.68	13,700	1952	Mar. 13, 1952	7.39	6,620
1943	Dec. 31, 1942	9.32	10,600	1953	May 31, 1953	6.20	4,570
1944	Apr. 14, 1944	7.88	7,720	1954	Feb. 19, 1954	7.02	5,890
1945	Mar. 8, 1945	8.92	9,670	1955	Mar. 4,5, 1955	7.72	7,190
1946	Oct. 5, 1945	7.24	6,250	1956	Mar. 9, 1956	10.55	14,100
1947	Apr. 7, 1947	10.69	14,400	1957	Apr. 2, 1957	6.28	4,600
				1958	Jan. 25, 1958	8.45	8,640

155. Brokenstraw Creek at Youngsville, Pa.

Location. --Lat 41°51'10", long 79°19'05", on right bank 150 ft downstream from bridge on U. S. Highway 6 at Youngsville, Warren County, 500 ft upstream from Mathews Run, and 3.7 miles upstream from mouth. Records include flow of Mathews Run.

Drainage area. --321 sq mi, including that of Mathews Run.

Gage. --Nonrecording gage prior to June 15, 1939; recording gage thereafter. Prior to Oct. 1, 1933, at site 150 ft upstream at datum 1.00 ft higher. Oct. 1, 1933, to June 15, 1939 at site 150 ft upstream at present datum. Datum of present gage is 1,187.92 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 2, 1910	8.0	7,240
	Mar. 7, 1910	8.1	7,420
1911	Nov. 11, 1910	6.4	4,510
	Jan. 2, 1911	6.5	4,660
	Jan. 14, 1911	7.3	6,020
	Jan. 28, 1911	8.4	7,940
	Aug. 28, 1911	7.0	5,490
	Sept. 15, 1911	6.2	4,640
1912	Mar. 20, 1912	7.6	6,500
	Apr. 2, 1912	8.2	7,440
	Sept. 2, 1912	6.3	4,370
1913	Jan. 8, 1913	9.2	7,590
	Mar. 25, 1913	12.2	18,000
1914	Jan. 30, 1914	7.0	5,890
	Mar. 28, 1914	8.8	8,500
1915	Feb. 1, 1915	6.2	4,820
1916	Jan. 2, 1916	6.0	4,560
	Mar. 28, 1916	8.8	8,500
	Apr. 14, 1916	6.85	5,610
1917	Mar. 12, 1917	6.4	5,080
	June 27, 1917	7.7	5,870
	July 11, 1917	6.2	4,820
1918	Oct. 30, 1917	6.0	4,560
	Feb. 20, 1918	7.4	6,450
	Mar. 15, 1918	8.0	7,300
1919	May 11, 1919	7.8	7,010
1920	Mar. 12, 1920	9.81	10,000
1921	Mar. 7, 1921	5.55	4,080
1922	Nov. 2, 1921	5.60	4,080
1923	Mar. 4, 1923	7.2	6,170
	May 16, 1923	6.5	5,210
1924	Jan. 11, 1924	8.6	8,200
	May 10, 1924	6.4	5,080
	Sept. 30, 1924	6.8	5,610
1925	Dec. 19, 1924	6.2	4,820
	Feb. 9, 1925	7.8	7,010
1926	Mar. 25, 1926	6.4	5,080
	Apr. 9, 1926	6.3	4,950
	Sept. 24, 1926	6.55	5,340
1927	Oct. 26, 1926	7.9	7,150
	Nov. 16, 1926	7.4	6,380
1928	Nov. 17, 1927	8.0	7,400
	Dec. 1, 1927	7.8	7,060
	Dec. 14, 1927	7.4	6,380
	Jan. 1, 1928	7.3	6,210
	Mar. 14, 1928	6.8	5,400
	June 6, 1928	7.52	6,550
	June 24, 1928	10.75	13,800
1929	Jan. 19, 1929	8.95	9,300
1930	Jan. 9, 1930	6.4	4,580
1931	Mar. 28, 1931	4.3	3,120
1932	May 8, 1932	7.6	6,280
1933	Mar. 15, 1933	5.1	3,840
1934	Jan. 1, 1934	7.4	4,730
1935	Jan. 9, 1935	6.7	4,530
1936	Dec. 16, 1935	6.9	4,750
	Feb. 26, 1936	7.0	5,250
	Mar. 12, 1936	7.8	6,490
	Mar. 27, 1936	10.8	13,000
1937	Jan. 15, 1937	8.4	7,050
	Apr. 27, 1937	8.8	7,580
1938	Feb. 14, 1938	8.2	6,740
1939	Feb. 20, 1939	8.3	6,890
1940	Apr. 1, 1940	8.55	8,390
	Apr. 4, 1940	8.34	7,860
1941	Dec. 13, 1940	7.55	6,710
	Dec. 17, 1940	6.24	4,670
1942	Mar. 9, 1942	8.03	7,350
	Mar. 17, 1942	7.94	7,150
1943	Dec. 30, 1942	9.65	10,200
	Mar. 17, 1943	6.78	5,350
	May 21, 1943	6.84	5,350
1944	Mar. 17, 1944	6.76	5,350
	Apr. 12, 1944	7.18	5,990
1945	Mar. 3, 1945	7.07	5,830
	Mar. 6, 1945	7.63	6,640

Brokenstraw Creek at Youngsville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1945	Mar. 17, 1945	6.29	4,590	1952	Jan. 1, 1952	7.20	5,520
Cont.	Mar. 21, 1945	7.79	6,980		Jan. 18, 1952	8.69	8,100
	Apr. 5, 1945	6.77	5,350		Jan. 27, 1952	8.72	8,100
					Mar. 11, 1952	8.30	7,320
1946	Oct. 3, 1945	7.22	5,990				
	May 27, 1946	7.89	7,150	1953	May 23, 1953	8.50	7,700
1947	Mar. 25, 1947	7.46	6,470	1954	Feb. 17, 1954	7.10	5,380
	Apr. 5, 1947	11.85	15,300				
	June 3, 1947	6.77	5,370	1955	Oct. 15, 1954	9.24	9,140
					Dec. 30, 1954	7.28	5,660
1948	Feb. 14, 1948	6.32	4,650		Mar. 1, 1955	7.91	6,600
	Mar. 22, 1948	11.66	15,000				
	Apr. 14, 1948	6.16	4,520	1956	Feb. 25, 1956	6.88	5,100
					Mar. 8, 1956	10.30	11,700
1949	Mar. 24, 1949	5.50	3,650		Apr. 3, 1956	7.82	6,440
					May 13, 1956	7.26	5,660
1950	Jan. 17, 1950	6.65	4,720		Aug. 5, 1956	7.70	6,280
	Feb. 15, 1950	7.30	5,660				
	Mar. 28, 1950	9.00	8,700	1957	Jan. 23, 1957	9.23	9,140
	Apr. 5, 1950	7.30	5,660		Apr. 5, 1957	7.00	5,240
					Apr. 26, 1957	8.77	8,300
1951	Nov. 20, 1950	6.56	4,720		June 29, 1957	7.77	6,440
	Dec. 4, 1950	8.70	8,100				
	Jan. 4, 1951	9.19	9,140	1958	Dec. 21, 1957	5.73	3,740
	Feb. 21, 1951	7.06	5,380				

OHIO RIVER MAIN STEM

160. Allegheny River at West Hickory, Pa.

Location. --Lat 41°34'15", long 79°24'30", on right bank at downstream side of bridge on State Highway 127 at West Hickory, Forest County, 0.6 mile upstream from Siggins Run and 0.8 mile downstream from East Hickory Creek.

Drainage area. --3,660 sq mi.

Gage. --Recording gage. Datum of gage is 1,080.15 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --30 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 18, 1942	13.44	58,000	1951	Dec. 4, 1950	12.43	51,900
1943	Dec. 30, 1942	14.51	66,400	1952	Jan. 18, 1952	12.06	48,900
1944	Apr. 13, 1944	10,88	40,000	1953	May 31, 1953	10.05	33,100
1945	Mar. 22, 1945	12.47	51,200	1954	Feb. 17, 1954	9.68	31,000
				1955	Mar. 2, 1955	11.9	47,000
1946	May 28, 1946	12.72	52,800				
1947	Apr. 6, 1947	15.97	84,300	1956	Mar. 8, 1956	17.20	101,000
1948	Mar. 22, 1948	15.93	83,300	1957	Jan. 23, 1957	12.92	55,300
1949	Jan. 6, 1949	8.29	23,800	1958	Apr. 7, 1958	10.54	36,600
1950	Mar. 29, 1950	13.13	57,700				

165. Tionesta Creek at Sheffield, Pa.

Location. --Lat 41°42'05", long 79°02'00", at abandoned bridge on Tionesta Valley Railway in Sheffield, Warren County, 20 ft downstream from Twomile Run, 1.3 miles doenstream from Dunham Run, and 1.4 miles upstream from Dodge Run.

Drainage area. --128 sq mi.

Gage. --Nonrecording gage. Datum of gage is 1,317.01 ft above mean sea level, (Pennsylvania Department of Highways benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 3,500 cfs and extended by logarithmic plotting.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 17, 1942	6.4	2,320	1945	Mar. 22, 1945	7.2	2,960
1943	Dec. 30, 1942	8.8	4,400				
1944	Apr. 12, 1944	6.0	2,130	1946	May 28, 1946	9.7	5,310

170. South Branch Tionesta Creek at Barnes, Pa.

Location. --Lat 41°40'20", long 79°01'45", at bridge on State Highway 666 at Barnes, Warren County, 0.7 mile upstream from mouth, 1.3 miles downstream from East Branch Tionesta Creek, and 2 miles south of Sheffield.

Drainage area. --85.3 sq mi.

Gage. --Nonrecording gage. Datum of gage is 1,306.77 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 9, 1942	5.20	1,630	1945	Apr. 5, 1945	5.78	2,230
1943	Dec. 30, 1942	10.6	3,000				
1944	Mar. 17, 1944	4.6	1,310	1946	May 28, 1946	7.50	3,300

175. Tionesta Creek at Lynch, Pa.

Location. --Lat 41°36'05", long 79°03'00", on left bank at downstream side of highway bridge at Lynch, Forest County, 500 ft upstream from Bluejay Creek at 7 miles south of Sheffield.

Drainage area. --233 sq mi.

Gage. --Recording gage. Datum of gage is 1,252.43 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 4,600 cfs and extended above on basis of slope-area measurement at gage height 11.25 ft (from floodmark in well) for flood of Jan. 22, 1959.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 3,500 cfs.

Tionesta Creek at Lynch, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Mar. 6, 1938	—	[a][b]5,200	1950	Feb. 14, 1950	6.15	3,730
					Mar. 29, 1950	7.18	4,870
1939	Feb. 20, 1939	5.75	3,500		Apr. 5, 1950	6.26	3,840
1940	Apr. 4, 1940	8.30	6,250	1951	Nov. 26, 1950	7.70	5,470
					Dec. 4, 1950	6.74	4,280
1941	Dec. 13, 1940	7.10	4,750		Jan. 4, 1951	6.61	4,170
					Feb. 21, 1951	6.68	4,280
1942	Mar. 9, 1942	6.42	3,950		Mar. 4, 1951	6.64	4,170
	Mar. 17, 1942	6.53	4,060		June 10, 1951	6.04	3,510
1943	Dec. 30, 1942	9.64	9,900	1952	Jan. 18, 1952	9.44	9,400
	Mar. 17, 1943	6.14	3,620		Jan. 20, 1952	6.64	4,170
					Jan. 27, 1952	9.29	9,150
1944	Mar. 17, 1944	5.78	3,300		Mar. 11, 1952	6.77	4,390
1945	Feb. 22, 1945	[c]6.53	—	1953	May 23, 1953	9.20	8,900
	Mar. 4, 1945	6.53	4,060		May 26, 1953	—	—
	Mar. 7, 1945	6.68	4,280		May 31, 1953	—	—
	Mar. 22, 1945	7.19	4,870				
	Apr. 5, 1945	6.82	4,390	1954	Mar. 1, 1954	7.37	5,110
1946	Oct. 2, 1945	6.40	3,950	1955	Oct. 16, 1954	10.06	11,400
	Jan. 6, 1946	[c]6.23	—		Mar. 1, 1955	7.36	5,110
	May 28, 1946	10.26	12,000		Mar. 4, 1955	6.76	4,390
1947	Apr. 5, 1947	9.67	10,200	1956	Feb. 25, 1956	5.98	3,510
	June 3, 1947	6.80	4,390		Mar. 8, 1956	10.0	11,100
					Apr. 4, 1956	6.45	3,950
1948	Feb. 14, 1948	[c]7.60	—		May 13, 1956	7.01	4,630
	Mar. 22, 1948	9.89	10,800		Sept. 6, 1956	7.69	5,470
	Apr. 12, 1948	—	—				
	Apr. 14, 1948	—	—	1957	Jan. 23, 1957	7.33	4,990
1949	Jan. 6, 1949	4.39	1,960	1958	July 15, 1958	6.08	3,620
	Jan. 28, 1949	4.38	1,960				

[a] Estimated maximum discharge.
[b] Annual peak only.
[c] Backwater from ice.

180. Tionesta Creek at Mayburg, Pa.

Location. --Lat 41°35'35", long 79°12'55", at combination highway and railroad bridge in Mayburg, Forest County, 300 ft upstream from unnamed run, 0.8 mile downstream from Kingsley Run, and 2.2 miles upstream from Panther Run.

Drainage area. --307 sq mi.

Gage. --Nonrecording gage. Datum of gage is 1,180.25 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 5,100 cfs and extended by logarithmic plotting.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Mar. 17, 1942	6.4	5,940	1945	Mar. 22, 1945	6.6	6,380
1943	Dec. 30, 1942	8.19	10,400				
1944	Mar. 17, 1944	5.8	4,760	1946	May 28, 1946	8.55	11,600

190. Tionesta Creek at Nebraska, Pa.

Location. --Lat 41°28'25", long 79°23'05", on right bank 500 ft downstream from highway bridge at Nebraska, Forest County, and a third of a mile downstream from mouth of Coon Creek.

Drainage area. --469 sq mi.

Gage. --Nonrecording gage. Prior to Sept. 30, 1912, at site 1,300 ft downstream at datum 1.22 ft lower. Aug. 5, 1923 to July 6, 1933, at site 500 ft upstream (Aug. 5, 1923 to Sept. 30, 1925 at datum 3.14 ft lower). Datum of gage 1,079.00 ft above mean sea level (Pennsylvania State Highway benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 7, 1910	7.0	7,975	1931	Mar. 29, 1931	7.10	5,140
				1932	May 8, 1932	10.5	11,400
1911	Jan. 14, 1911	7.68	8,880	1933	Mar. 21, 1933	7.10	5,140
				1934	Mar. 4, 1934	11.4	10,600
1924	Sept. 30, 1924	12.70	9,500	1935	Feb. 26, 1935	9.5	8,010
1925	Feb. 12, 1925	12.6	9,300				
				1936	Mar. 17, 1936	9.3	14,400
1926	Apr. 9, 1926	7.5	5,730	1937	Jan. 25, 1937	9.87	16,400
1927	May 25, 1927	8.9	8,110	1938	Mar. 6, 1938	7.8	10,000
1928	Nov. 17, 1927	11.60	14,300	1939	Feb. 20, 1939	6.2	6,260
1929	Feb. 27, 1929	9.90	10,100	1940	Apr. 4, 1940	8.5	12,000
1930	Nov. 18, 1929	9.0	8,300				

200. Tionesta Creek at Tionesta Creek Dam, Pa.

Location. --Lat 41°28'45", long 79°26'45", on left bank 100 ft downstream from outlet tunnel at Tionesta Creek Dam, Forest County, 0.3 mile southeast of Tionesta, and 0.9 mile upstream from mouth.

Drainage area. --479 sq mi.

Gage. --Nonrecording gage prior to Aug. 9, 1940; recording gage Aug. 10, 1940, to Mar. 17, 1945; nonrecording gage Mar. 18, 1945, to June 30, 1954; recording gage thereafter. Prior to Mar. 17, 1945, at site 200 ft downstream at datum 1.00 ft higher. Datum of present gage is 1,044.93 ft above mean sea level, unadjusted.

Bankfull stage. --22 ft.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 13, 1940	8.80	7,310	1951	Feb. 24, 1951	7.40	6,720
1942	Apr. 13, 1942	6.37	5,240	1952	Jan. 29, 1952	8.90	9,550
1943	Jan. 5, 1943	4.43	7,180	1953	May 27, 1953	7.55	6,800
1944	Apr. 16, 1944	3.48	4,370	1954	Apr. 28, 1954	8.20	7,940
1945	Mar. 9, 1945	8.55	7,980	1955	Mar. 7, 1955	8.61	7,660
1946	June 6, 1946	8.89	10,300	1956	Mar. 12, 1956	8.80	9,960
1947	Apr. 12, 1947	7.29	6,670	1957	Apr. 10, 1957	7.48	6,310
1948	Mar. 25, 1948	8.95	7,930	1958	May 9-10, 1958	7.44	6,060
1949	Jan. 31, 1949	6.63	5,630				
1950	Mar. 31, 1950	8.63	6,750				

205. Oil Creek at Rouseville, Pa.

(Published as "near Rouseville" October 1916 to September 1932)

Location. --Lat 41°28'55", long 79°41'40", on right bank 200 ft downstream from bridge on State Highway 8, 200 ft upstream from Cherrytree Run, and 1 mile upstream from Rouseville, Venango County. Records include flow of Cherrytree Run.

Drainage area. --300 sq mi, including that of Cherrytree Run.

Gage. --Nonrecording gage prior to June 9, 1941; recording gage thereafter. Prior to June 1, 1932, at site 1½ miles downstream at different datum. Datum of present gage is 1,028.33 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --10 ft.

Remarks. --Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 1, 1910	5.8	8,240
1911	Jan. 14, 1911	5.2	6,580
	Jan. 28, 1911	6.0	8,900
	Aug. 29, 1911	5.0	6,120
1912	Mar. 30, 1912	4.95	6,060
1913	Jan. 8, 1913	5.6	7,640
	Mar. 25, 1913	7.0	11,900
1914	Jan. 30, 1914	5.2	6,600
	Mar. 28, 1914	5.4	7,150
	May 13, 1914	4.7	5,290
1915	Feb. 2, 1915	5.0	6,060
1916	Jan. 6, 1916	4.6	5,040
	Mar. 28, 1916	6.6	10,800
1917	Mar. 12, 1917	5.5	7,360
	June 7, 1917	4.6	5,040
1918	Oct. 30, 1917	4.8	5,540
	Feb. 20, 1918	6.1	9,320
	Mar. 14, 1918	6.1	9,320
1919	May 11, 1919	5.63	7,930
1920	Mar. 13, 1920	7.1	12,000
1921	Apr. 30, 1921	4.6	5,040
1922	Nov. 2, 1921	4.6	5,040
1923	Mar. 5, 1923	4.6	5,040
1924	Jan. 11, 1924	6.1	9,180
	Sept. 29, 1924	5.0	6,060
1925	Feb. 10, 1925	4.91	5,800
1926	Sept. 25, 1926	5.00	6,060
1927	Oct. 25, 1926	5.2	6,590
	Nov. 16, 1926	5.47	7,680
	May 24, 1927	4.8	5,530
1928	Nov. 17, 1927	5.1	6,320
	Dec. 1, 1927	5.70	8,000
	Dec. 14, 1927	5.20	6,590
	Mar. 14, 1928	4.6	5,030
	June 6, 1928	4.8	5,530
	June 24, 1928	5.4	7,140
1929	Dec. 1, 1928	4.8	5,540
	Jan. 19, 1929	6.2	9,500
	May 3, 1929	5.0	6,050
	May 15, 1929	5.0	6,050
1930	Nov. 18, 1929	4.9	5,790
1931	Apr. 4, 1931	—	—
1932	Jan. 18, 1932	4.8	5,530
	May 8, 1932	5.9	8,600
1933	Mar. 14, 1933	7.2	5,430
	June 8, 1933	7.1	5,250
1934	Jan. 1, 1934	8.2	7,320
1935	Jan. 9, 1935	6.9	4,370
1936	Feb. 27, 1936	7.7	6,060
	Mar. 12, 1936	7.8	6,270
	Mar. 27, 1936	9.6	9,720
1937	Jan. 15, 1937	9.0	8,380
	Jan. 18, 1937	7.9	6,480
	Jan. 21, 1937	8.4	7,600
	Jan. 25, 1937	9.85	10,200
	Apr. 26, 1937	9.4	9,240
	June 14, 1937	7.4	5,450
1938	Dec. 18, 1937	7.4	5,450
	Feb. 10, 1938	7.6	5,850
	Feb. 14, 1938	7.6	5,850
	Mar. 6, 1938	7.7	6,060
1939	Feb. 20, 1939	8.3	7,370
	Apr. 15, 1939	7.5	5,650
1940	Mar. 31, 1940	8.0	6,600
	Apr. 4, 1940	8.20	7,020
1941	Dec. 13, 1940	8.8	8,460
1942	Mar. 9, 1942	8.45	7,560
	Mar. 17, 1942	7.73	6,060
1943	Dec. 29, 1942	9.67	10,200
1944	Jan. 28, 1944	[a]7.53	—
	Apr. 12, 1944	7.30	5,310
1945	Feb. 22, 1945	[a]8.04	—
	Mar. 4, 1945	7.39	5,130
	Mar. 6, 1945	7.70	5,690
	Mar. 21, 1945	7.86	6,480
	Apr. 5, 1945	7.50	5,690

Oil Creek near Rouseville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	Oct. 2, 1945	7.28	5,310	1952	Jan. 27, 1952	9.85	10,500
	May 28, 1946	11.20	16,300	Cont.	Mar. 11, 1952	9.24	9,020
	June 13, 1946	7.52	5,690				
				1953	May 23, 1953	8.92	8,360
1947	Mar. 25, 1947	7.54	5,670		May 26, 1953	9.05	8,580
	Apr. 6, 1947	9.03	8,580		May 31, 1953	8.00	6,500
1948	Feb. 14, 1948	[b]10.43	5,490	1954	Mar. 1, 1954	7.47	5,670
	Mar. 22, 1948	11.29	16,800		Apr. 17, 1954	7.64	5,860
1949	Jan. 6, 1949	6.43	3,860	1955	Oct. 16, 1954	11.55	18,600
1950	Feb. 14, 1950	8.62	7,780	1956	Feb. 25, 1956	8.25	7,000
	Mar. 28, 1950	7.92	6,430		Mar. 8, 1956	8.70	7,980
	Apr. 5, 1950	7.29	5,310		May 13, 1956	9.18	9,020
					Aug. 19, 1956	7.26	5,310
1951	Dec. 4, 1950	8.70	7,980				
	Jan. 4, 1951	9.31	9,240	1957	Jan. 23, 1957	9.53	9,720
	Feb. 21, 1951	8.03	6,620		Apr. 6, 1957	7.85	6,240
	Mar. 4, 1951	7.64	5,860		Apr. 25, 1957	8.36	7,380
					June 29, 1957	9.15	9,020
1952	Jan. 1, 1952	7.47	5,670				
	Jan. 18, 1952	9.16	9,020	1958	June 13, 1958	6.62	4,100

[a]Backwater from ice.
[b]Occurred at different time than peak discharge.

FRENCH CREEK BASIN

215. French Creek at Carters Corners, Pa.

Location.--Lat 41°57'20", long 79°52'40", on left bank 400 ft upstream from highway bridge at Carters Corners, Erie County, 4 miles northwest of Union City, and 5 miles upstream from South Branch.

Drainage area.--208 sq mi.

Gage.--Nonrecording gage prior to Dec. 22, 1948; recording gage thereafter. Prior to Dec. 22, 1948 at site 400 ft downstream. Datum of gage is 1,253.7 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements and extended to 20,000 cfs by slope-area measurement.

Bankfull stage.--4 ft.

Remarks.--Base for partial-duration series, 4,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Jan. 28, 1911	11.40	12,000	1916	Mar. 27, 1916	12.4	15,400
					Apr. 14, 1916	8.1	4,950
1912	Mar. 20, 1912	8.5	5,400				
	Apr. 1, 1912	9.3	6,620	1917	Mar. 12, 1917	10.7	9,940
					July 11, 1917	8.2	5,070
1913	Oct. 23, 1912	7.8	4,620				
	Jan. 8, 1913	9.3	6,620	1918	Oct. 30, 1917	8.6	5,560
	Jan. 18, 1913	9.65	7,180		Feb. 20, 1918	[a]17.0	—
	Mar. 25, 1913	12.66	16,600		Mar. 14, 1918	10.5	9,380
1914	Nov. 14, 1913	8.3	5,170	1919	May 11, 1919	8.9	5,960
	Jan. 30, 1914	8.2	5,060				
	Mar. 28, 1914	10.8	10,200	1920	Mar. 12, 1920	[a]15.2	—
	May 13, 1914	7.8	4,620		Mar. 17, 1920	6.96	3,600
1915	Aug. 4, 1915	9.0	6,120	1921	Feb. 17, 1921	7.20	3,920

French Creek at Carters Corners, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Nov. 18, 1921	6.5	3,230
1923	Mar. 4, 1923	8.5	5,430
1924	Dec. 7, 1923	8.0	4,830
	Jan. 11, 1924	8.52	5,430
1925	Feb. 10, 1925	9.9	7,260
1926	Jan. 22, 1926	[a]9.26	—
	Mar. 25, 1926	8.3	5,190
	Sept. 25, 1926	8.2	5,070
1927	Oct. 25, 1926	8.5	5,430
	Jan. 22, 1927	[a]11.0	—
1928	Dec. 1, 1927	10.1	8,300
	Dec. 14, 1927	9.8	7,600
	Dec. 31, 1947	10.28	8,820
	Mar. 14, 1928	9.3	6,620
1929	Jan. 19, 1929	10.10	8,300
	May 3, 1929	9.4	6,800
1930	Dec. 18, 1929	7.7	4,470
	Feb. 20, 1930	[a]8.0	—
1931	Mar. 29, 1931	7.4	4,160
1932	Mar. 27, 1932	7.6	4,360
1933	Dec. 31, 1932	7.7	4,470
1934	Jan. 1, 1934	8.7	5,570
	Mar. 4, 1934	7.9	4,690
1935	Jan. 9, 1935	7.7	4,470
1936	Feb. 26, 1936	8.8	5,820
	Mar. 12, 1936	8.7	5,680
	Mar. 25, 1936	10.6	9,660
	Mar. 28, 1936	9.8	7,600
1937	Jan. 15, 1937	8.8	5,990
	Jan. 25, 1937	10.5	9,380
	Apr. 26, 1937	11.5	12,300
1938	Feb. 9, 1938	8.6	5,730
	Feb. 13, 1938	9.8	7,360
	Mar. 6, 1938	8.5	5,600
	Sept. 15, 1938	8.6	5,730
	Sept. 23, 1938	7.8	4,730
1939	Feb. 20, 1939	10.90	10,500
1940	Apr. 1, 1940	8.4	5,400
	Apr. 4, 1940	9.2	6,420
1941	Dec. 13, 1940	8.2	5,160
	Mar. 4, 1941	[a]8.23	—
1942	Mar. 17, 1942	11.2	11,400
1943	Dec. 30, 1942	9.3	6,550
	June 3, 1943	7.9	4,800
1944	Jan. 27, 1944	8.0	4,920
	Mar. 17, 1944	8.1	5,040
	Apr. 12, 1944	9.2	6,420
1945	Mar. 6, 1945	9.1	6,290
1946	Oct. 2, 1945	8.88	6,030
	June 1, 1946	8.00	4,920
1947	Mar. 15, 1947	7.9	4,800
	Mar. 25, 1947	8.6	5,640
	Apr. 5, 1947	13.50	20,000
	June 3, 1947	7.8	4,580
1948	Mar. 22, 1948	10.95	10,800
1949	Mar. 23, 1949	7.95	4,170
1950	Feb. 15, 1950	9.07	5,550
	Mar. 28, 1950	10.42	7,480
	Apr. 5, 1950	8.43	4,650
1951	Nov. 21, 1950	8.92	5,290
	Dec. 4, 1950	11.85	10,900
	Jan. 4, 1951	11.47	10,000
1952	Jan. 2, 1952	8.85	5,160
	Jan. 27, 1952	8.39	4,650
	Mar. 11, 1952	9.95	6,820
1953	May 26, 1953	7.10	3,260
1954	Jan. 27, 1954	8.33	4,530
1955	Oct. 16, 1954	10.70	8,060
1956	Mar. 6, 1956	10.59	7,860
1957	Dec. 7, 1956	10.25	7,140
	Jan. 23, 1957	12.69	14,300
1958	Mar. 2, 1958	[a]10.54	3,200

[a]Backwater from ice.

220. French Creek at Venango, Pa.

Location. --Lat 41°46'35", long 80°06'30", at highway bridge at Venango, Crawford County, 1.5 miles upstream from Gravel Run, and 2.0 miles downstream from Boles Run.

Drainage area. --597 sq mi.

Gage. --Nonrecording gage. Datum of gage is 1,117.18 ft above mean sea level (Corps of Engineers, U. S. Army benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --9 ft.

Remarks. --Base for partial-duration series, 7,600 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 21, 1939	11.70	12,500	1944	Feb. 28, 1944	9.0	7,600
					Mar. 18, 1944	9.1	7,760
1940	Apr. 1, 1940	11.1	11,300		Apr. 13, 1944	11.4	11,900
1941	Dec. 14, 1940	9.7	8,780	1945	Feb. 25, 1945	10.1	9,480
					Mar. 7, 1945	11.4	11,900
1942	Mar. 10, 1942	9.8	8,610				
	Mar. 18, 1942	12.4	13,900	1946	Oct. 3, 1945	10.6	10,400
1943	Dec. 30, 1942	13.0	15,200				
	Mar. 18, 1943	9.6	8,610				

225. French Creek at Saegerstown, Pa.

Location. --Lat 41°42'50", long 80°08'50", on upstream side of highway bridge at Saegerstown, Crawford County, half a mile upstream from Woodcock Creek.

Drainage area. --629 sq mi.

Gage. --Nonrecording gage. Datum of gage is 1,093.74 ft above mean sea level (Pennsylvania Department of Highways benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 14,000 cfs and extended on basis of slope-area measurement.

Remarks. --Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Nov. 2, 1921	9.54	6,910	1929	Jan. 20, 1929	15.90	20,800
					Feb. 28, 1929	10.0	8,120
1923	Mar. 5, 1923	11.38	10,900		May 4, 1929	11.8	11,400
1924	Jan. 12, 1924	11.30	10,600	1930	Jan. 10, 1930	10.8	9,000
					Jan. 14, 1930	10.4	8,400
1925	Oct. 1, 1924	10.26	8,400				
	Feb. 10, 1925	12.0	12,000	1931	Apr. 3, 1931	8.49	5,710
1926	Feb. 26, 1926	[a]11.4	—	1932	May 9, 1932	9.52	7,220
	Mar. 26, 1926	10.80	9,460				
	Sept. 26, 1926	10.74	9,240	1933	Mar. 15, 1933	9.36	7,070
1927	Oct. 26, 1926	11.64	11,300	1934	Jan. 3, 1934	12.0	11,800
	Nov. 17, 1926	10.47	8,800		Mar. 5, 1934	11.7	11,200
1928	Dec. 2, 1927	12.5	12,800	1935	Jan. 10, 1935	9.60	7,370
	Dec. 15, 1927	11.2	9,600				
	Jan. 1, 1928	12.80	13,400				
	Mar. 15, 1928	10.46	8,550				

French Creek at Saegerstown, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Feb. 28, 1936	12.20	12,200	1938	Feb. 11, 1938	10.7	9,340
	Mar. 13, 1936	11.15	10,300		Feb. 14, 1938	12.2	12,000
	Mar. 26, 1936	13.80	15,400		Mar. 7, 1938	10.3	8,630
1937	Jan. 16, 1937	12.20	12,200	1939	Feb. 21, 1939	12.40	12,600
	Jan. 26, 1937	13.24	14,300				
	Apr. 27, 1937	13.20	14,300				
	June 21, 1937	13.0	13,900				

[a]Backwater from ice.

230. Cussewago Creek near Meadville, Pa.

Location.--Lat 41°40'20", long 80°12'55", at highway bridge 4 miles northwest of Meadville, Crawford County, and 4½ miles upstream from mouth.

Drainage area.--90.2 sq mi.

Gage.--Nonrecording gage. Datum of gage is 1,071.77 ft above mean sea level.

Stage-discharge relation.--Defined by current-meter measurements below 970 ft and extended above by logarithmic plotting on basis of velocity-area study.

Bankfull stage.--8 ft.

Remarks.--Base for partial-duration series, 1,150 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Dec. 31, 1910	10.4	1,180	1918	Oct. 25, 1917	10.8	1,340
	Jan. 4, 1911	10.8	1,340		Oct. 31, 1917	10.4	1,180
	Jan. 13, 1911	10.5	1,220		Feb. 15, 1918	11.1	1,480
1912	Nov. 19, 1911	10.4	1,180		Mar. 15, 1918	11.0	1,430
	Mar. 18, 1912	[a]10.5	—	1919	May 11, 1919	10.72	1,210
	Mar. 30, 1912	10.7	1,300	1920	Mar. 12, 1920	[a]13.59	1,700
1913	Oct. 24, 1912	10.8	1,340	1921	Nov. 23, 1920	10.1	1,060
	Jan. 7, 1913	11.1	1,480				
	Jan. 19, 1913	11.4	1,630	1922	Nov. 2, 1921	11.36	1,630
	Mar. 25, 1913	16.0	5,250		Nov. 19, 1921	10.64	1,260
1914	Nov. 14, 1913	11.1	1,480	1923	Mar. 4, 1923	10.63	1,260
	Jan. 30, 1914	[a]10.8	—				
	Mar. 28, 1914	10.6	1,260	1924	Jan. 12, 1924	11.15	1,530
	May 13, 1914	10.9	1,380		May 10, 1924	10.6	1,260
1915	Feb. 2, 1915	11.50	1,680		Sept. 30, 1924	10.6	1,260
	Aug. 5, 1915	12.5	2,230	1925	Feb. 9, 1925	11.3	1,580
1916	Dec. 19, 1915	10.40	1,180	1926	Mar. 21, 1926	[a]10.5	—
	Jan. 3, 1916	11.70	1,780		Sept. 25, 1926	12.0	1,930
	Mar. 28, 1916	13.3	2,760				
1917	Mar. 12, 1917	11.1	1,480	1927	Oct. 26, 1926	11.2	1,530
					Nov. 17, 1926	10.7	1,300
					Jan. 23, 1927	10.8	1,340

Cussewago Creek near Meadville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	Dec. 1, 1927	11.72	1,780	1934	Nov. 23, 1933	10.8	1,340
	Dec. 14, 1927	10.9	1,380		Jan. 2, 1934	10.5	1,220
	Jan. 1, 1928	10.7	1,300		Mar. 5, 1934	10.84	1,340
	Feb. 9, 1928	10.4	1,180	1935	Jan. 22, 1935	10.4	1,180
1929	Jan. 19, 1929	12.69	2,350		Feb. 16, 1935	10.9	1,380
	Feb. 27, 1929	11.7	1,780				
	May 3, 1929	11.4	1,630	1936	Feb. 27, 1936	11.5	1,680
					Mar. 25, 1936	13.30	2,760
1930	Jan. 3, 1930	10.30	1,140	1937	Jan. 15, 1937	12.0	1,930
1931	Dec. 8, 1930	9.60	890		Jan. 25, 1937	13.0	2,550
					Apr. 27, 1937	11.7	1,780
1932	May 9, 1932	10.7	1,300		June 22, 1937	12.4	2,170
1933	Jan. 1, 1933	10.5	1,220	1938	Dec. 19, 1937	10.6	1,260
					Feb. 10, 1938	11.3	1,580
					Feb. 18, 1938	10.8	1,340

[a]Backwater from ice.

235. French Creek at Carlton, Pa.

Location. --Lat 41°28'15", long 80°01'05", on downstream side of highway bridge at Carlton, Mercer County, half a mile downstream from Powdermill Run.

Drainage area. --998 sq mi.

Gage. --Nonrecording gage. Datum of gage is 1,033.60 ft above mean sea level, datum of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 21,000 cfs and extended on basis of logarithmic plotting.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1909	May 2, 1909	11.60	20,000	1917	Mar. 13, 1917	9.6	11,700
1910	Mar. 3, 1910	12.00	21,200	1918	Mar. 16, 1918	11.2	16,000
				1919	May 12, 1919	10.8	15,000
1911	Jan. 15, 1911	10.6	17,000	1920	Mar. 14, 1920	13.50	25,000
1912	Mar. 21, 1912	10.7	17,300				
1913	Mar. 27, 1913	16.5	38,000	1921	Mar. 8, 1921	8.0	8,550
1914	Mar. 30, 1914	10.9	17,800	1922	Nov. 3, 1921	8.70	9,840
1915	Aug. 6, 1915	9.98	12,700	1923	Mar. 6, 1923	9.85	12,200
				1924	Jan. 13, 1924	10.0	12,700
1916	Mar. 29, 1916	13.3	24,100	1925	Feb. 11, 1925	10.75	14,800

240. French Creek at Utica, Pa.

Location. --Lat 41°26'15", long 79°57'20", on right bank at upstream side of bridge on State Highway 964 at Utica, Venango County, a third of a mile upstream from Mill Creek.

Drainage area. --1,028 sq mi.

Gage. --Nonrecording gage prior to Nov. 27, 1933; recording gage thereafter. Datum of gage is 1,019.54 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 21,000 cfs and extended above.

Bankfull stage. --10 ft.

Remarks. --Only annual peaks are shown.

French Creek at Utica, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 1913	15.7	35,600	1946	May 28, 1946	10.15	14,100
				1947	Apr. 7, 1947	12.25	20,400
1933	Mar. 16, 1933	8.6	9,790	1948	Mar. 23-24, 1948	12.32	20,700
1934	Mar. 6, 1934	9.46	11,700	1949	Mar. 25, 1949	8.13	8,660
1935	Jan. 11, 1935	8.16	8,830	1950	Mar. 30, 1950	10.24	14,100
1936	Mar. 27, 1936	11.57	16,800	1951	Dec. 5, 1950	11.81	19,000
1937	Jan. 26, 1937	10.88	16,800	1952	Jan. 28, 1952	10.21	14,100
1938	Feb. 15, 1938	9.69	13,000	1953	June 1, 1953	8.71	10,100
1939	Feb. 22, 1939	9.58	12,700	1954	Mar. 3, 1954	8.87	10,600
1940	Apr. 2, 1940	10.00	13,900	1955	Oct. 17, 1954	11.05	16,400
1941	Dec. 14, 1940	8.85	9,390	1956	Mar. 9, 1956	11.48	17,900
1942	Mar. 19, 1942	10.14	14,100	1957	Jan. 24, 1957	10.80	15,800
1943	Dec. 31, 1942	11.49	17,400	1958	July 15, 1958	9.24	11,300
1944	Apr. 14, 1944	10.15	14,100				
1945	Mar. 8, 1945	10.35	14,600				

245. Sugar Creek at Wyattville, Pa.

Location. --Lat 41°26'55", long 79°53'55", at steel bridge on present U. S. Highway 322 at Wyattville, Venango County, 3 miles upstream from mouth.

Drainage area. --153 sq mi.

Gage. --Nonrecording gage. Datum of gage is 1,050.96 ft above mean sea level.

Stage-discharge relation. --Defined by current-meter measurements and extended above 1,400 cfs by logarithmic plotting.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Sept. 15, 1911	6.6	4,240	1916	Mar. 28, 1916	7.95	6,800
1912	Mar. 29, 1912	5.8	3,030				
1913	Mar. 25, 1913	9.4	10,000				
1914	Mar. 28, 1914	6.69	4,400				
1915	July 17, 1915	7.04	4,900				

250. Sugar Creek at Sugarcreek, Pa.

Location. --Lat 41°25'45", long 79°52'45", on right bank at downstream side of highway bridge three-quarters of a mile north of Sugarcreek, Venango County, three-quarters of a mile upstream from mouth, and 3 miles northwest of Franklin.

Drainage area. --166 sq mi.

Gage. --Nonrecording gage prior to Dec. 8, 1939; recording gage thereafter. Prior to Sept. 1, 1948 at datum 2.00 ft higher. Sept. 1, 1948 to Nov. 11, 1952 at datum 1.20 ft higher. Datum of present gage is 1,014.03 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 3,000 cfs.

Sugar Creek at Sugarcreek, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Mar. 14, 1933	5.96	3,630
1934	Jan. 1, 1934	6.03	3,630
1935	Jan. 21, 1935	5.12	2,060
1936	Feb. 27, 1936	7.3	6,080
	Mar. 25, 1936	6.8	5,090
1937	Jan. 8, 1937	5.7	3,130
	Jan. 15, 1937	7.5	6,500
	Jan. 18, 1937	5.9	3,460
	Jan. 21, 1937	6.8	5,090
	Jan. 25, 1937	8.5	8,690
	Apr. 26, 1937	7.8	7,130
	June 14, 1937	6.7	4,900
	July 16, 1937	6.0	3,630
1938	Dec. 18, 1937	6.7	4,900
	Feb. 9, 1938	6.1	3,800
	Feb. 13, 1958	6.3	4,160
	Mar. 5, 1938	6.2	3,980
	Apr. 9, 1938	6.6	4,390
1939	Feb. 20, 1939	6.2	3,570
1940	Mar. 30, 1940	6.47	4,070
	Apr. 4, 1940	6.32	3,770
	Apr. 9, 1940	6.19	3,570
1941	Dec. 13, 1940	6.14	3,210
1942	Feb. 17, 1942	6.16	3,480
	Mar. 9, 1942	7.10	5,490
	Mar. 14, 1942	5.95	3,160
	Mar. 17, 1942	7.15	5,600
	Apr. 10, 1942	6.10	3,410
1943	Dec. 29, 1942	7.55	6,680
	Feb. 11, 1943	6.10	3,530
1944	Apr. 11, 1944	5.73	3,020
1945	Feb. 22, 1945	6.37	3,980
	Feb. 27, 1945	6.26	3,790
	Mar. 3, 1945	6.23	3,790
	Mar. 6, 1945	5.94	3,300
	Mar. 21, 1945	6.63	4,570
	Apr. 5, 1945	6.17	3,620
1946	May 28, 1946	8.49	10,000
1947	Apr. 5, 1947	6.53	4,320
1948	Feb. 14, 1948	6.34	3,930
	Mar. 20, 1948	6.20	3,660
	Mar. 22, 1948	7.73	7,450
1949	Jan. 6, 1949	5.19	2,610
1950	Jan. 16, 1950	5.80	3,330
	Feb. 14, 1950	7.02	5,020
	Mar. 26, 1950	7.56	5,960
	Apr. 5, 1950	5.86	3,470
1951	Dec. 4, 1950	6.68	4,570
	Dec. 8, 1950	5.83	3,340
	Jan. 4, 1951	6.66	4,680
	Feb. 21, 1951	5.43	3,040
	Mar. 4, 1951	6.29	4,140
1952	Jan. 1, 1952	5.54	3,150
	Jan. 18, 1952	7.41	6,050
	Jan. 20, 1952	5.49	3,530
	Jan. 27, 1952	7.95	7,010
	Feb. 4, 1952	5.17	3,230
	Mar. 11, 1952	5.92	4,010
1953	May 26, 1953	7.27	4,250
	May 31, 1953	9.01	7,050
1954	Mar. 1, 1954	6.51	3,510
	Apr. 17, 1954	6.58	3,640
1955	Oct. 16, 1954	9.20	9,480
	Dec. 30, 1954	5.89	3,580
	Mar. 4, 1955	5.94	3,580
1956	Nov. 16, 1955	7.12	5,360
	Feb. 25, 1956	8.37	7,700
	Mar. 8, 1956	6.66	4,650
	May 13, 1956	8.76	8,560
	Aug. 19, 1956	6.51	4,350
1957	Jan. 23, 1957	7.30	5,620
	Apr. 6, 1957	5.83	3,390
	June 29, 1957	6.83	4,800
1958	July 15, 1958	8.35	7,700

OHIO RIVER MAIN STEM

255. Allegheny River at Franklin, Pa.

Location. --Lat 41°23'25", long 79°49'10", on right bank at downstream side of Eighth Street Bridge on U. S. Highway 62 at Franklin, Venango County, 1,000 ft downstream from French Creek.

Drainage area. --5,982 sq mi.

Gage. --Nonrecording gage prior to Sept. 16, 1932; recording gage thereafter. Prior to Sept. 16, 1932 datum 2.00 ft higher. Datum of present gage is 955.92 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 120,000 cfs and extended.

Bankfull stage. --17 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Allegheny River at Franklin, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1865	Mar. 17, 1865	25.0	196,000	1936	Mar. 28, 1936	19.02	118,000
				1937	Jan. 25, 1937	17.93	106,000
1915	Feb. 2, 1915	10.4	54,900	1938	Feb. 14, 1938	13.86	67,600
				1939	Feb. 21, 1939	15.24	77,900
1916	Mar. 29, 1916	17.2	121,000	1940	Apr. 4, 1940	16.98	99,000
1917	Mar. 12, 1917	11.0	59,900				
1918	Mar. 15, 1918	16.1	108,000	1941	Dec. 13, 1940	13.78	67,200
1919	May 11, 1919	12.7	70,100	1942	Mar. 18, 1942	16.16	88,000
1920	Mar. 13, 1920	18.65	138,000	1943	Dec. 31, 1942	18.17	110,000
				1944	Apr. 13, 1944	13.61	63,100
1921	Mar. 7, 1921	9.9	49,600	1945	Mar. 7, 1945	15.81	83,900
1922	Apr. 1, 1922	9.05	43,300				
1923	Mar. 5, 1923	12.59	69,300	1946	May 28, 1946	17.98	107,000
1924	Jan. 11-12, 1924	12.55	69,300	1947	Apr. 6, 1947	19.05	115,000
1925	Feb. 12, 1925	12.8	70,900	1948	Mar. 22, 1948	20.36	132,000
				1949	Jan. 6, 1949	10.49	38,400
1926	Mar. 24, 1926	11.7	65,800	1950	Mar. 29, 1950	15.93	83,800
1927	Nov. 17, 1926	11.4	60,100				
1928	Dec. 1, 1927	17.22	121,000	1951	Dec. 4, 1950	16.09	84,400
1929	Jan. 19, 1929	15.00	96,400	1952	Jan. 27, 1952	15.45	77,700
1930	Feb. 26, 1930	11.60	61,500	1953	May 31, 1953	13.77	63,400
				1954	Feb. 17, 1954	12.04	48,700
1931	Mar. 29, 1931	9.00	43,300	1955	Oct. 16, 1954	15.51	78,600
1932	May 9, 1932	12.00	64,500				
1933	Mar. 16, 1933	12.14	50,700	1956	Mar. 8-9, 1956	20.55	134,000
1934	Jan. 2, 1934	13.54	60,500	1957	Jan. 23, 1957	15.96	83,400
1935	Jan. 10, 1935	12.98	57,000	1958	July 15, 1958	11.37	44,200

CLARION RIVER BASIN

265. Sevenmile Run near Rasselas, Pa.

Location. --Lat 41°37'52", long 78°34'37", on right bank 300 ft upstream from highway bridge, 600 ft upstream from Fivemile Run, and 3.2 miles northeast of Rasselas, Elk County.

Drainage area. --7.84 sq mi.

Gage. --Recording gage. Datum of gage is 1,690.73 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 200 cfs and extended on basis of slope-area measurement.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 18, 1952	3.96	290	1955	Oct. 15, 1954	3.86	279
	Jan. 27, 1952	3.83	256		Mar. 1, 1955	3.73	232
	Mar. 11, 1952	3.59	197		Mar. 4, 1955	3.81	259
1953	May 22, 1953	4.60	1,100	1956	Mar. 8, 1956	4.32	624
	May 26, 1953	4.21	506		Apr. 4, 1956	3.67	213
	Aug. 9, 1953	4.78	1,590		May 13, 1956	4.07	390
					Aug. 6, 1956	4.12	427
1954	Mar. 1, 1954	3.82	263				
				1957	Jan. 23, 1957	3.70	222
				1958	Apr. 6, 1958	3.84	271

275. East Branch Clarion River at East Branch Clarion River Dam, Pa.

Location. --Lat 41°33'10", long 78°35'50", on left bank 700 ft upstream from Middle Fork, 0.5 mile downstream from East Branch Clarion River Dam, Elk County and 1¼ miles northeast of Glen Hazel.

Drainage area. --73.2 sq mi.

Gage. --Recording gage. Datum of gage is 1,517.58 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --4 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	May 22, 1949	4.50	870	1956	May 15, 1956	4.45	839
1950	Mar. 28, 1950	6.71	2,140	1957	May 10, 1957	7.25	2,590
				1958	Sept. 2-5, 1958	2.98	295
1951	Nov. 25, 1950	7.04	2,350				
1952	Jan. 18, 1952	6.48	2,020				
1953	June 3, 1953	5.55	1,410				
1954	Apr. 29, 1954	3.64	488				
1955	Mar. 9,10, 1955	4.72	960				

280. West Branch Clarion River at Wilcox, Pa.

Location. --Lat 41°34'30", long 78°41'35", on right bank 20 ft downstream from highway bridge at Wilcox, Elk County, 100 ft downstream from Wilson Run, and 0.1 mile upstream from Pennsylvania Railroad bridge.

Drainage area. --63.0 sq mi.

Gage. --Nonrecording gage prior to Dec. 8, 1953; recording gage thereafter. Prior to Nov. 18, 1953, gage at site 20 ft upstream. Datum of gage is 1,502.02 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1954	Mar. 1, 1954	6.30	[a]1,000	1956	Mar. 8, 1956	8.59	4,050
					May 13, 1956	6.00	2,230
1955	Oct. 16, 1954	6.43	2,510		Aug. 6, 1956	5.17	1,640
	Mar. 4, 1955	5.43	1,810				
	Mar. 11, 1955	5.27	1,700	1957	Jan. 23, 1957	4.66	1,220
				1958	July 15, 1958	6.01	2,040

[a]Maximum daily discharge.

285. Clarion River at Johnsonburg, Pa.

Location. --Lat 41°29'10", long 78°40'43", on right bank at downstream side of highway bridge in Johnsonburg, Elk County, 0.1 mile downstream from Johnson Run and 0.4 mile downstream from confluence of East and West Branches.

Drainage area. --204 sq mi.

Gage. --Nonrecording gage prior to Nov. 8, 1951; recording gage thereafter. Datum of gage is 1,422.98 ft above mean sea level, datum of 1929, supplementary adjustment of 1943.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --5 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	July 1942	[a]16.7	—	1951	Nov. 25, 1950	9.25	10,500
				1952	Jan. 18, 1952	7.65	6,910
1946	May 28, 1946	9.2	11,700	1953	May 23, 1953	7.54	6,690
1947	Apr. 5, 1947	7.0	5,880	1954	Mar. 1, 1954	6.48	4,750
1948	Mar. 22, 1948	7.3	6,540	1955	Oct. 16, 1954	5.85	3,320
1949	May 22, 1949	5.3	3,040				
1950	Mar. 29, 1950	6.7	4,770	1956	Mar. 8, 1956	7.95	6,870
				1957	May 11, 1957	5.65	3,080
				1958	July 15, 1958	5.74	3,220

[a]From floodmark.

290. Clarion River at Ridgeway, Pa.

Location. --Lat 41°25'15", long 78°44'10", on right bank at downstream side of bridge on State Highway 948 in Ridgeway, Elk County, 50 ft downstream from Elk Creek.

Drainage area. --303 sq mi.

Gage. --Nonrecording gage prior to Sept. 16, 1948; recording gage thereafter. Datum of gage is 1,361.62 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 13,000 cfs and extended on basis of slope-area measurement.

Bankfull stage. --10 ft.

Remarks. --Only annual peaks are shown. Flow regulated after 1952.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Dec. 13, 1940	7.4	5,660	1946	May 28, 1946	10.79	13,100
1942	July 19, 1942	16.4	34,000	1947	Apr. 5, 1947	8.66	8,280
1943	May 26, 1943	10.91	13,400	1948	Apr. 12, 1948	8.86	8,680
1944	Mar. 17, 1944	8.2	7,300	1949	May 22, 1949	5.57	3,710
1945	Mar. 3, 1945	9.5	10,000	1950	Mar. 29, 1950	8.74	8,280
				1951	Nov. 25, 1950	12.27	17,500
				1952	Jan. 18, 1952	9.93	10,900
				1953	May 23, 1953	8.96	8,900

295. Clarion River at Cooksburg, Pa.

Location. --Lat 41°19'50", long 79°12'35", on left bank at downstream side of bridge on State Highway 36 at Cooksburg, Forest County, 300 ft downstream from Toms Run and 5 miles upstream from Canter Run.

Drainage area. --807 sq mi.

Gage. --Nonrecording gage prior to May 17, 1939; recording gage thereafter. Datum of gage is 1,146.48 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --10 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 17, 1936	19	56,000	1948	Apr. 12, 1948	10.92	16,400
				1949	May 23, 1949	9.11	10,800
1939	Feb. 21, 1939	8.8	9,780	1950	Mar. 29, 1950	10.84	15,700
1940	Apr. 1, 1940	11.34	17,800				
				1951	Nov. 26, 1950	14.52	34,000
1941	Dec. 13, 1940	9.74	12,500	1952	Jan. 27, 1952	12.90	23,400
1942	July 19, 1942	14.96	32,700	1953	May 26, 1953	11.67	18,800
1943	Dec. 30, 1942	14.23	29,100	1954	Mar. 2, 1954	12.27	21,000
1944	Mar. 17, 1944	9.79	12,800	1955	Oct. 16, 1954	11.53	18,000
1945	Mar. 4, 1945	11.71	19,200				
				1956	Mar. 8, 1956	13.19	24,600
1946	May 28, 1946	12.58	22,600	1957	Jan. 23, 1957	9.75	12,800
1947	Apr. 6, 1947	10.04	13,400	1958	July 15, 1958	9.76	12,800

305. Clarion River near Piney, Pa.

Location. --Lat 41°11'33", long 79°26'25", on left bank a quarter of a mile downstream from hydroelectric plant of Pennsylvania Electric Co., 2¼ miles northeast of Piney, Clarion County, 2.4 miles upstream from Piney Creek, and 3 miles southwest of Clarion.

Drainage area. --951 sq mi.

Gage. --Recording gage. Datum of gage is 1,002.06 ft above mean sea level (Pennsylvania Electric Co. benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	—	50,000	1953	May 26, 1953	14.59	22,400
				1954	Mar. 2, 1954	15.05	23,600
1948	Apr. 12, 1948	13.01	18,300	1955	Oct. 16, 1954	14.23	21,300
1949	May 23, 1949	11.22	14,300				
1950	Mar. 28, 1950	12.78	17,900	1956	Mar. 8, 1956	15.96	26,600
				1957	Jan. 23, 1957	11.27	14,500
1951	Nov. 26, 1950	17.66	32,000	1958	July 15, 1958	11.90	15,800
1952	Jan. 27, 1952	16.39	27,800				

310. Clarion River at St. Petersburg, Pa.

Location. --Lat 41°08'55", long 79°39'40", on left bank at downstream side of highway bridge, 1 mile south of St. Petersburg, Clarion County, 1.6 miles downstream from Turkey Run, and 4.5 miles upstream from mouth.

Drainage area. --1,246 sq mi.

Gage. --Nonrecording gage prior to Oct. 23, 1941; recording gage thereafter. Datum of gage is 876.13 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	July 19, 1942	14.82	34,000	1948	Apr. 14, 1948	12.82	23,500
1943	Dec. 30, 1942	16.45	44,400	1949	May 23, 1949	11.04	16,300
1944	Mar. 18, 1944	11.10	16,600	1950	Mar. 28, 1950	12.15	20,800
1945	Mar. 7, 1945	13.89	28,900	1951	Nov. 26, 1950	15.10	35,800
1946	May 28, 1946	13.91	28,900	1952	Jan. 27, 1952	15.23	36,400
1947	Apr. 6, 1947	10.58	14,900	1953	May 31, 1953	14.78	34,000

OHIO RIVER MAIN STEM

315. Allegheny River at Parkers Landing, Pa.

Location. --Lat 41°06'05", long 79°40'45", on right bank 500 ft downstream from bridge on State Highway 368 at Parkers Landing, Armstrong County, and 1.1 miles downstream from Clarion River.

Drainage area. --7,671 sq mi.

Gage. --Nonrecording gage prior to Oct. 28, 1932; recording gage thereafter. Datum of present gage is 845.14 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 125,000 cfs and extended.

Bankfull stage. --20 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1865	Mar. 17, 1865	29.4	250,000	1946	May 28, 1946	20.28	139,000
				1947	Apr. 6, 1947	19.44	129,000
1933	Mar. 16, 1933	13.02	68,900	1948	Mar. 23, 1948	20.53	142,000
1934	Jan. 2, 1934	12.78	67,300	1949	Jan. 7, 1949	10.45	48,100
1935	Jan. 10, 1935	13.10	69,700	1950	Mar. 29, 1950	16.53	100,000
1936	Mar. 28, 1936	19.30	128,000	1951	Dec. 4, 1950	17.20	107,000
1937	Jan. 25, 1937	21.20	149,000	1952	Jan. 27, 1952	18.61	121,000
1938	Dec. 18, 1937	14.89	85,700	1953	May 31, 1953	17.05	105,000
1939	Feb. 21, 1939	15.07	86,800	1954	Mar. 2, 1954	12.88	67,400
1940	Apr. 4, 1940	18.00	115,000	1955	Oct. 16, 1954	17.78	107,000
1941	Dec. 14, 1940	14.03	76,800	1956	Mar. 9, 1956	22.69	152,000
1942	Mar. 18, 1942	16.23	97,200	1957	Jan. 23, 1957	16.87	99,300
1943	Dec. 30, 1942	21.80	157,000	1958	July 15, 1958	15.03	83,900
1944	Apr. 13, 1944	13.53	72,600				
1945	Mar. 7, 1945	18.31	118,000				

325. Redbank Creek at St. Charles, Pa.

Location. --Lat 40°59'40", long 79°23'40", on left bank 500 ft downstream from industrial railroad bridge at St. Charles, Clarion County, 0.3 mile downstream from Leatherwood Creek, and 3 miles west of New Bethlehem.

Drainage area. --528 sq mi.

Gage. --Nonrecording gage prior to July 10, 1940; recording gage thereafter. Prior to July 10, 1940 gage at site 500 ft upstream at datum 3.10 ft higher. Datum of present gage is 973.14 ft above mean sea level adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements and extended by slope-area measurement.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 7,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Feb. 28, 1910	10.46	[a]14,900
1911	Sept. 15, 1911	9.81	[a]13,300
1912	Oct. 2, 1911	14.7	[a]25,200
1913	Mar. 26, 1913	12.16	[a]19,000
1914	May 13, 1914	8.40	[a]10,100
1915	Feb. 1, 1915	11.5	[a]17,300
1916	Mar. 28, 1916	12.0	[a]18,500
1917	Mar. 12, 1917	7.7	[a]8,550
1918	Feb. 20, 1918	12.2	[a]19,000
1919	Jan. 2, 1919	7.1	7,750
	May 10, 1919	8.20	10,200
	May 21, 1919	8.0	9,770
1920	Mar. 12, 1920	[b]14.0	—
	Mar. 12,13, 1920	10.3	15,500
	June 18, 1920	8.6	11,200
1921	Mar. 7, 1921	7.0	[a]7,530
1922	Nov. 2, 1921	8.50	10,900
	Nov. 28, 1921	7.1	7,750
1923	Mar. 4, 1923	7.0	7,530
	May 12, 1923	10.8	15,600
1924	Dec. 7, 1923	6.8	7,110
	Jan. 3, 1924	[b]8.4	—
	June 29, 1924	11.56	18,500
	Sept. 30, 1924	7.5	8,630
1925	Feb. 10, 1925	9.50	13,500
1926	Jan. 19, 1926	7.2	7,970
	Feb. 26, 1926	9.0	11,500
	June 15, 1926	6.9	7,320
	Sept. 5, 1926	11.2	16,600
1927	Jan. 22, 1927	10.1	15,000
	Mar. 8, 1927	8.2	10,200
	Mar. 21, 1927	8.1	10,000
1928	Dec. 14, 1927	12.8	21,000
	Mar. 30, 1928	7.3	8,190
	June 6, 1928	7.5	8,630
1929	Jan. 19, 1929	7.6	8,850
	Feb. 27, 1929	7.0	7,530
	Apr. 5, 1929	6.8	7,110
1930	Nov. 17, 1929	7.6	8,850
	Feb. 26, 1930	7.2	7,970
1931	Apr. 4, 1931	6.25	5,850
1932	Dec. 14, 1931	7.1	7,760
	Jan. 18, 1932	8.5	11,000
1933	Mar. 15, 1933	9.30	13,000
1934	Dec. 21, 1933	5.85	5,060
1935	Jan. 22, 1935	7.5	8,660
	May 7, 1935	8.55	11,200
	July 25, 1935	6.9	7,320
1936	Feb. 27, 1936	6.8	7,100
	Mar. 12, 1936	8.4	10,700
	Mar. 18, 1936	18.60	35,200
1937	Nov. 5, 1936	7.4	8,220
	Jan. 15, 1937	7.8	9,090
	Jan. 18, 1937	7.3	8,010
	Jan. 22, 1937	10.3	14,700
	Jan. 25, 1937	11.7	18,000
	Apr. 26, 1937	11.5	17,300
1938	Dec. 18, 1937	11.6	17,600
	Mar. 6, 1938	8.3	9,870
	Mar. 14, 1938	7.2	7,460
	June 27, 1938	7.2	7,460
1939	Mar. 13, 1939	7.1	7,250
1940	Mar. 31, 1940	9.4	12,400
	Apr. 20, 1940	8.0	9,210
1941	Aug. 15, 1941	8.81	5,410
1942	Mar. 9, 1942	10.35	7,750
1943	Dec. 30, 1942	14.88	14,800
	Apr. 20, 1943	10.46	8,050
	May 26, 1943	11.13	8,950
1944	Mar. 17, 1944	9.64	6,700
1945	Feb. 22, 1945	[b]13.61	—
	Feb. 23, 1945	11.78	10,000
	Feb. 27, 1945	11.55	9,700
	Mar. 3, 1945	12.13	10,400
	Mar. 7, 1945	12.07	10,400
	Mar. 22, 1945	11.15	9,100
1946	Feb. 27, 1946	11.12	8,950
	May 27, 1946	11.23	9,100

Redbank Creek at St. Charles, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1947	June 8, 1947	8.56	5,300	1952 Cont.	Feb. 5, 1952	10.18	7,920
					Mar. 11, 1952	10.63	8,560
1948	Feb. 14, 1948	11.32	9,250		May 25, 1952	10.27	8,080
	Apr. 12, 1948	10.50	8,050				
	Apr. 14, 1948	11.55	9,700	1953	May 26, 1953	11.63	10,200
					May 31, 1953	13.18	12,700
1949	Dec. 16, 1948	10.24	7,600				
				1954	Mar. 1, 1954	12.36	11,400
1950	Jan. 7, 1950	9.92	7,150				
	Jan. 10, 1950	11.11	8,950	1955	Oct. 16, 1954	13.82	13,700
	Feb. 15, 1950	9.82	7,000				
	Mar. 28, 1950	10.62	8,200	1956	Feb. 25, 1956	13.87	13,900
					Mar. 8, 1956	11.45	9,740
1951	Nov. 5, 1950	10.01	7,300		May 13, 1956	14.07	14,300
	Dec. 4, 1950	10.94	9,080		Aug. 5, 1956	10.11	7,660
	Jan. 4, 1951	10.38	8,240				
	Mar. 4, 1951	9.72	7,120	1957	Jan. 23, 1957	10.97	9,100
					Apr. 6, 1957	11.33	9,580
1952	Jan. 18, 1952	9.90	7,440				
	Jan. 27, 1952	13.98	14,000	1958	July 15, 1958	13.31	12,900

[a]Annual peak only.
[b]Backwater from ice.

OHIO RIVER MAIN STEM

330. Allegheny River near Rimer, Pa.

Location.--Lat 40°57'30", long 79°32'50", 800 ft upstream from dam at lock 9, 1.7 miles downstream from Redbank Creek, 2.0 miles upstream from Rimer, Armstrong County, and 6.8 miles upstream from Mahoning Creek.

Drainage area.--8,389 sq mi.

Gage.--Recording gage. Datum of gage is 810.75 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation.--Defined by current-meter measurements.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 21, 1939	18.94	88,700	1943	Dec. 30, 1942	22.54	160,000
1940	Apr. 4, 1940	20.30	116,000	1944	Apr. 13, 1944	18.37	79,700
				1945	Mar. 7, 1945	20.97	130,000
1941	Dec. 14, 1940	18.44	79,700				
1942	Mar. 18, 1942	19.64	102,000				

340. Mahoning Creek at Punxsutawney, Pa.

Location. --Lat 40°56'21", long 79°00'31", on right bank 75 ft downstream from Williams Run, a quarter of a mile west of Punxsutawney, Jefferson County, and 1.9 miles downstream from Sawmill Run.

Drainage area. --158 sq mi.

Gage. --Recording gage. Prior to Oct. 1, 1946 at site 2.9 miles upstream at datum 13.30 ft higher. Datum of gage is 1,206.14 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 4,300 cfs and extended by logarithmic plotting.

Bankfull stage. --6 ft.

Remarks. --Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 15, 1939	4.93	2,140	1949	Dec. 16, 1948	5.76	2,480
1940	Mar. 19, 1940	6.50	3,170	1950	Jan. 10, 1950	7.26	3,740
	Mar. 31, 1940	8.86	5,030		Mar. 27, 1950	6.04	2,640
	Apr. 20, 1940	5.49	2,500	1951	Nov. 5, 1950	6.77	3,300
1941	Aug. 15, 1941	7.42	3,830		Dec. 4, 1950	6.83	3,300
	Aug. 26, 1941	5.48	2,500		Jan. 4, 1951	7.11	3,560
1942	Mar. 9, 1942	6.40	2,830		Mar. 30, 1951	6.18	2,800
1943	Dec. 30, 1942	10.86	6,460	1952	Jan. 1, 1952	5.91	2,560
	Apr. 19, 1943	6.46	2,890		Jan. 27, 1952	10.12	6,490
	May 12, 1943	6.85	3,070		Mar. 11, 1952	6.74	3,220
1944	Mar. 17, 1944	5.73	2,440		May 25, 1952	6.03	2,640
1945	Feb. 23, 1945	7.14	3,260	1953	May 26, 1953	7.57	4,020
	Feb. 27, 1945	8.12	3,990		May 31, 1953	9.38	5,790
	Mar. 3, 1945	8.71	4,470	1954	Mar. 1, 1954	8.85	5,190
	Mar. 7, 1945	8.63	4,390	1955	Oct. 16, 1954	7.36	3,830
	Mar. 22, 1945	7.16	3,330		Dec. 30, 1954	6.83	3,300
1946	Feb. 27, 1946	6.69	3,010	1956	Feb. 18, 1956	5.98	2,640
	May 27, 1946	6.96	3,200		Feb. 25, 1956	—	3,600
	June 21, 1946	5.72	2,440		Mar. 8, 1956	7.22	3,650
1947	May 18, 1947	6.15	2,800		May 13, 1956	9.87	6,290
	June 8, 1947	7.01	3,470		Aug. 10, 1956	6.50	3,040
1948	Feb. 14, 1948	7.9	4,300		Aug. 12, 1956	8.03	4,400
	Apr. 12, 1948	7.41	3,830	1957	Jan. 23, 1957	6.56	3,130
	Apr. 14, 1948	7.96	4,400		Apr. 6, 1957	7.11	3,560
				1958	July 15, 1958	10.89	7,370

345. Little Mahoning Creek at McCormick, Pa.

Location. --Lat 40°50'10", long 79°06'35", on left bank 200 ft downstream from highway bridge at McCormick, Indiana County, 1 mile west of Georgeville, 1.7 miles upstream from Ross Run, and 4 miles southeast of Smicksburg.

Drainage area. --87.4 sq mi.

Gage. --Nonrecording gage prior to May 10, 1940; recording gage thereafter. Prior to May 10, 1940 at site 200 ft upstream. Datum of gage is 1,164.88 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 2,000 cfs.

Little Mahoning Creek at McCormick, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Feb. 14, 1940	8.40	2,180	1949	Jan. 6, 1949	7.64	1,720
	Mar. 19, 1940	9.6	3,070				
	Mar. 31, 1940	10.1	3,480	1950	Jan. 10, 1950	8.86	2,650
1941	Mar. 4, 1941	[a]11.94	—	1951	Nov. 5, 1950	9.80	3,530
	Aug. 15, 1941	6.31	1,320		Dec. 4, 1950	8.61	2,410
					Jan. 4, 1951	8.74	2,610
1942	Jan. 20, 1942	[a]8.03	—		Jan. 15, 1951	8.47	2,450
	Mar. 9, 1942	7.56	2,100		Mar. 30, 1951	7.8	2,030
	Apr. 10, 1942	7.61	2,100		Apr. 30, 1951	7.92	2,030
1943	Dec. 30, 1942	10.77	4,670	1952	Jan. 27, 1952	11.42	5,300
	Feb. 21, 1943	[a]8.45	—		Mar. 11, 1952	7.98	2,100
	Apr. 20, 1943	7.85	2,160				
	May 12, 1943	8.65	2,740	1953	May 31, 1953	10.47	4,260
					June 7, 1953	8.33	2,310
1944	Jan. 4, 1944	9.58	3,560				
	Feb. 23, 1944	[a]8.20	—	1954	Mar. 1, 1954	9.84	3,550
	June 24, 1944	7.85	2,160				
				1955	Oct. 16, 1954	11.30	5,180
1945	Dec. 25, 1944	[a]10.46	—				
	Feb. 17, 1945	[a]10.82	—	1956	Feb. 7, 1956	8.07	2,170
	Feb. 23, 1945	8.68	2,740		Feb. 25, 1956	10.16	3,950
	Feb. 27, 1945	9.14	3,060		Mar. 8, 1956	8.74	2,610
	Mar. 3, 1945	8.65	2,740		May 7, 1956	8.00	2,100
	Mar. 7, 1945	9.28	3,300		May 13, 1956	8.03	2,100
	Mar. 22, 1945	8.60	2,740		July 2, 1956	8.75	2,690
					July 20, 1956	9.58	3,370
1946	Jan. 6, 1946	[a]9.03	—				
	Feb. 27, 1946	[a]8.86	—	1957	Jan. 23, 1957	9.10	2,930
	June 21, 1946	9.23	3,190		Apr. 5, 1957	8.64	2,530
1947	Mar. 14, 1947	[a]9.00	—	1958	Jan. 15, 1958	[a]10.00	—
	Aug. 22, 1947	7.67	2,000		Aug. 3, 1958	7.80	1,960
1948	Feb. 14, 1948	9.56	3,370				
	Apr. 12, 1948	9.44	3,190				
	Apr. 14, 1948	9.70	3,460				

[a]Backwater from ice.

350. Mahoning Creek near Dayton, Pa.

Location. --Lat 40°54'05", long 79°13'35", at Independence Bridge, three-quarters of a mile upstream from Foundry Run and 1 3/4 miles northeast of Dayton, Armstrong County.

Drainage area. --321 sq mi.

Gage. --Nonrecording . Datum of gage is 1,095.24 ft above mean sea level (general adjustment of 1907).

Stage-discharge relation. --Defined by current-meter measurements below 8,100 cfs and extended on basis of slope-area measurement.

Remarks. --Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Jan. 22, 1917	[a]7.3	—	1919	Jan. 2, 1919	6.9	5,780
	Mar. 12, 1917	6.8	5,610		May 10, 1919	7.4	6,670
1918	Oct. 20, 1917	6.8	5,610	1920	Nov. 27, 1919	7.0	5,950
	Feb. 15, 1918	7.1	6,130		Mar. 5, 1920	8.0	7,790
	Feb. 20, 1918	9.6	11,000		Mar. 12, 1920	8.0	7,790
	Feb. 26, 1918	7.5	6,850		Mar. 17, 1920	6.8	5,610
					June 18, 1920	7.8	7,410

Mahoning Creek near Dayton, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Sept. 22, 1921	7.0	5,950	1929	Feb. 27, 1929	8.1	7,980
					Apr. 6, 1929	7.65	7,030
1922	Nov. 2, 1921	7.6	7,030		Apr. 25, 1929	7.2	6,310
	Nov. 29, 1921	7.3	6,490				
	Feb. 3, 1922	[a]7.7	—	1930	Nov. 18, 1929	7.4	6,660
	Apr. 15, 1922	7.9	7,600		Feb. 26, 1930	8.0	7,680
1923	May 13, 1923	8.84	9,370	1931	Apr. 4, 1931	6.66	5,470
	July 30, 1923	8.6	8,970				
				1932	Dec. 14, 1931	6.24	4,620
1924	Jan. 4, 1924	[b]7.12	5,460		Jan. 19, 1932	7.1	6,150
	June 29, 1924	—	[c]11,000				
				1933	Mar. 15, 1933	7.30	6,490
1925	Feb. 12, 1925	8.1	7,980				
	May 11, 1925	6.6	5,270	1934	Dec. 19, 1933	5.90	4,140
1926	Jan. 20, 1926	7.7	7,220	1935	May 7, 1935	6.39	4,960
	Feb. 26, 1926	8.2	8,170				
	June 14, 1926	7.7	7,220	1936	Feb. 27, 1936	6.55	5,270
	Sept. 6, 1926	8.53	8,770		Mar. 12, 1936	6.5	5,100
					Mar. 18, 1936	14.53	22,800
1927	Jan. 18, 1927	[a]9.6	—				
	Jan. 23, 1927	7.0	5,950	1937	Nov. 5, 1936	7.2	6,310
	Mar. 8, 1927	7.3	6,490		Jan. 22, 1937	7.9	7,600
	Mar. 21, 1927	8.2	8,170		Jan. 25, 1937	8.1	7,980
	May 19, 1927	6.8	5,610		Apr. 26, 1937	8.3	8,370
1928	Nov. 28, 1927	6.5	5,100	1938	Dec. 18, 1937	8.6	8,970
	Dec. 14, 1927	—	[c]10,000				
	Mar. 30, 1928	8.8	9,370	1939	Feb. 11, 1939	6.3	4,770
	June 6, 1928	8.0	7,790				
	July 6, 1928	7.2	6,310	1940	Mar. 19, 1940	7.3	6,490
					Mar. 31, 1940	8.4	8,570
					Apr. 20, 1940	7.0	5,950

[a]Backwater from ice.
[b]Mean daily.
[c]Estimate based on adjacent stations.

360. Mahoning Creek at Mahoning Creek Dam, Pa.

Location.--Lat 40°55'40", long 79°17'30", on left bank at downstream side of highway bridge at McCrea Furnace, three-quarters of a mile downstream from Mahoning Creek Dam, Armstrong County, 1 mile southwest of Eddyville, and 2 miles upstream from Pine Run.

Drainage area.--344 sq mi.

Gage.--Nonrecording gage prior to Feb. 1, 1940; recording gage thereafter. Datum of gage is 1,003.39 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--8 ft.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 3, 1939	6.5	5,420	1949	Jan. 30, 1949	6.51	5,420
1940	Mar. 31, 1940	7.83	9,300	1950	Feb. 18, 1950	6.61	5,680
1941	Apr. 5, 1941	5.64	3,640	1951	Jan. 6, 1951	7.30	7,690
1942	Mar. 8, 1942	8.10	10,400	1952	Jan. 30, 1952	7.52	8,280
1943	Jan. 2, 1943	7.25	7,540	1953	June 2, 1953	7.39	7,200
1944	May 25, 1944	5.63	3,630	1954	Mar. 3, 1954	6.64	5,360
1945	Mar. 8-9, 1945	7.32	7,690	1955	Feb. 25, 1955	6.07	4,060
1946	Mar. 1, 1946	5.78	3,910	1956	Apr. 11, 1956	5.96	3,860
1947	May 19, 1947	5.62	3,540	1957	Apr. 10, 1957	6.85	5,840
1948	Apr. 17, 1948	7.44	8,000	1958	May 9, 1958	6.54	5,130

365. Allegheny River at Kittanning, Pa.

Location. --Lat 40°49'15", long 79°31'55", on right bank 600 ft upstream from dam at lock 7 at Kittanning, Armstrong County, 5½ miles upstream from Crooked Creek, 10 miles downstream Mahoning Creek, and at mile 45.7.

Drainage area. --8,973 sq mi.

Gage. --Nonrecording gage prior to Apr. 19, 1939; recording gage thereafter. Prior to Sept. 30, 1928, at site 4,000 ft downstream at different datum. Datum of present gage is 771.32 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --23 ft.

Remarks. --Only annual peaks are shown. Flow regulated. Prior to 1904 records from U. S. Weather Bureau.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1806	Apr. 10, 1806	30	259,000
1832	Feb. 9, 1832	[a]29	——
1865	Mar. 18, 1865	29.5	252,000
1874	Dec. 13, 1873	27	217,000
1881	June 10, 1881	28	231,000
1883	Feb. 5, 1883	29	245,000
1884	Feb. 6, 1884	28	231,000
1885	Apr. 9, 1885	15.4	81,500
1886	Jan. 6, 1886	17.6	103,000
1887	Feb. 12, 1887	23.8	174,000
1888	Apr. 7, 1888	17.5	102,000
1889	June 2, 1889	16.2	88,900
1890	May 24, 1890	24.2	179,000
1891	Feb. 18, 1891	26.6	211,000
1892	June 6, 1892	19.3	121,000
1893	May 18, 1893	21.4	145,000
1894	May 21, 1894	23.2	167,000
1895	Apr. 10, 1895	18.2	109,000
1896	Mar. 31, 1896	18.2	109,000
1897	Mar. 7, 1897	17.8	105,000
1898	Mar. 24, 1898	20.6	136,000
1899	Nov. 12, 1898	15.0	77,900
1900	Jan. 22, 1900	16.0	87,000
1901	Mar. 28, 1901	18.2	109,000
1902	Mar. 1-2, 1902	25.1	191,000
1903	Mar. 1, 1903	20.4	133,000
1904	Jan. 23, 1904	24.2	179,000
1905	Mar. 20, 1905	28.8	241,000
1906	Mar. 29, 1906	15.0	70,400
1907	Mar. 15, 1907	16.5	83,900
1908	Feb. 16, 1908	24.8	183,000
1909	Apr. 30, 1909	23.9	176,000
1910	Mar. 7, 1910	21.6	147,000
1911	Jan. 15, 1911	19.7	125,000
1912	Apr. 3, 1912	23.4	169,000
1913	Mar. 26, 1913	30.7	269,000
1914	Mar. 29, 1914	23.1	165,000
1915	Feb. 2, 1915	19.2	120,000
1916	Mar. 29, 1916	24.3	181,000
1917	Mar. 12, 1917	16.4	90,800
1918	Feb. 20, 1918	24.0	177,000
1919	May 11, 1919	17.9	106,000
1920	Mar. 13, 1920	26.4	209,000
1921	Mar. 8, 1921	15.2	79,700
1922	Apr. 1, 1922	13.5	65,000
1923	Mar. 5, 1923	17.4	101,000
1924	Jan. 12, 1924	17.65	103,000
1925	Feb. 12, 1925	20.02	129,000
1926	Mar. 24, 1926	18.3	110,000
1927	Jan. 23, 1927	18.0	107,000
1928	Dec. 1, 1927	22.0	152,000
1935	Jan. 10, 1935	18.5	75,700
1936	Mar. 18, 1936	26.0	192,000
1937	Jan. 25, 1937	24.7	174,000
1938	Dec. 18, 1937	20.7	110,000
1939	Feb. 21, 1939	19.5	91,500
1940	Apr. 5, 1940	21.05	119,000
1941	Dec. 14, 1940	18.64	80,200
1942	Mar. 18, 1942	20.06	106,000
1943	Dec. 30, 1942	25.29	182,000
1944	Mar. 18, Apr. 13	18.55	79,600
1945	Mar. 7, 1945	22.56	144,000
1946	May 28, 1946	23.15	152,000
1947	Apr. 6, 1947	22.11	136,000
1948	Mar. 23, 1948	22.72	145,000
1949	Jan. 28, 1949	17.18	58,300
1950	Mar. 29, 1950	20.15	105,000
1951	Jan. 4, 1951	21.53	126,000
1952	Jan. 27, 1952	22.61	144,000
1953	May 31, 1953	21.33	123,000
1954	Jan. 28, 1954	18.53	78,000
1955	Oct. 16, 1954	21.63	128,000
1956	Mar. 9, 1956	24.18	167,000
1957	Jan. 24, 1957	20.17	105,000
1958	July 15, 1958	19.50	94,000

[a]Ice gorge.

375. South Branch Plum Creek at Willet, Pa.

Location. --Lat 40°43'15", long 79°13'25", at highway bridge, 0.2 mile upstream from Mudlick Run, 0.6 mile southwest of Willet, Indiana County, 0.6 mile downstream from Sugarcamp Run, and 8 miles northwest of Indiana.

Drainage area. --30.0 sq mi.

Gage. --Nonrecording gage. Altitude of gage is 1,050 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Feb. 7, 1942	6.8	751	1945	Feb. 22, Mar. 6	7.7	955
1943	Dec. 30, 1942	8.7	1,250				
1944	Mar. 23, 1944	6.1	611	1946	June 13, 1946	6.94	772

380. Crooked Creek at Idaho, Pa.

Location. --Lat 40°39'15", long 79°21'00", on right bank at downstream side of highway bridge at Idaho, Armstrong County, 1½ miles downstream from Plum Creek and 2½ miles west of Shelocta.

Drainage area. --191 sq mi.

Gage. --Recording gage. Datum of gage is 961.04 ft above mean sea level (Buffalo, Rochester and Pittsburgh Railway benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 5,100 cfs and extended on basis of slope-area measurement.

Bankfull stage. --8 ft.

Remarks. --Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 1936	18.6	19,400	1945	Jan. 1, 1945	—	—
					Feb. 16, 1945	7.25	3,230
1937	Dec. 18, 1936	—	6,900		Feb. 23, 1945	8.70	4,430
					Feb. 27, 1945	7.48	3,460
1938	Mar. 15, 1938	6.51	2,800		Mar. 3, 1945	7.05	3,090
	Apr. 9, 1938	7.33	3,440		Mar. 7, 1945	9.92	5,510
					Mar. 22, 1945	7.51	3,460
1939	Jan. 30, 1939	8.07	4,060		Apr. 5, 1945	6.31	2,600
	Feb. 3, 1939	7.59	3,690		Sept. 18, 1945	7.64	3,540
	Feb. 10, 1939	6.88	3,140				
	June 22, 1939	11.40	7,170	1946	Oct. 2, 1945	6.61	2,810
					Feb. 27, 1946	6.39	2,670
1940	Mar. 4, 1940	6.80	2,950		June 13, 1946	10.00	5,600
	Mar. 19, 1940	7.67	3,620		June 21, 1946	7.71	3,620
	Mar. 31, 1940	8.84	4,520		June 28, 1946	7.18	3,230
	Apr. 20, 1940	9.61	5,240				
				1947	Apr. 26, 1947	6.24	2,530
1941	Mar. 4, 1941	5.90	2,320		May 18, 1947	6.38	2,670
1942	Feb. 7, 1942	7.46	3,460	1948	Feb. 14, 1948	10.70	6,230
	Mar. 9, 1942	—	—		Apr. 13, 1948	10.44	5,960
	Apr. 9, 1942	8.30	4,100		June 19, 1948	6.36	2,670
1943	Dec. 30, 1942	12.35	7,760	1949	Dec. 16, 1948	6.29	2,600
	Mar. 12, 1943	6.70	2,880		Jan. 5, 1949	6.46	2,740
	Apr. 20, 1943	8.40	4,180		Jan. 24, 1949	6.30	2,600
	May 12, 1943	7.10	3,160				
				1950	Jan. 7, 1950	6.73	2,880
1944	Mar. 13, 1944	7.17	3,230		Jan. 10, 1950	7.65	3,540
	Mar. 24, 1944	6.63	2,810		Mar. 27, 1950	6.32	2,600
	June 1, 1944	6.17	2,530		July 5, 1950	8.16	4,020

Crooked Creek at Idaho, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Nov. 5, 1950	8.32	4,100	1955	Oct. 5, 1954	7.87	3,780
	Nov. 20, 1950	6.47	2,745		Oct. 16, 1954	15.12	12,400
	Dec. 4, 1950	10.60	6,140		Dec. 18, 1954	7.27	3,300
	Dec. 8, 1950	6.99	3,090		Dec. 30, 1954	7.28	3,300
	Jan. 4, 1951	8.78	4,520		Feb. 23, 1955	6.23	2,530
	Jan. 15, 1951	9.48	5,120		Mar. 4, 1955	6.78	2,950
	Mar. 30, 1951	7.73	3,620				
	July 23, 1951	6.37	2,670	1956	July 16, 1956	10.58	6,200
					July 20, 1956	8.76	4,520
1952	Dec. 21, 1951	7.13	3,160		Aug. 5, 1956	8.57	4,340
	Jan. 27, 1952	12.66	8,030				
	Apr. 15, 1952	6.50	2,740	1957	Jan. 23, 1957	7.53	3,460
	May 21, 1952	6.41	2,670		Apr. 5, 1957	10.67	6,300
	May 26, 1952	6.99	3,090				
				1958	Dec. 26, 1957	6.35	2,670
1953	May 31, 1953	8.89	4,610		May 7, 1958	7.32	3,300
	June 7, 1953	7.71	3,620		July 23, 1958	7.64	3,540
1954	Mar. 1, 1954	8.87	4,610				
	Aug. 3, 1954	6.15	2,530				

390. Crooked Creek at Crooked Creek Dam, Pa.

Location.--Lat 40°43'10", long 79°30'45", on right bank a quarter of a mile downstream from Crooked Creek Dam, Armstrong County, 3½ miles south of Ford City, and 6½ miles upstream from mouth.

Drainage area.--278 sq mi.

Gage.--Nonrecording gage prior to Dec. 5, 1939; recording gage thereafter. Prior to July 31, 1933 at site 2 miles downstream at different datum. July 31, 1933, to Dec. 5, 1939, at site 1½ miles downstream at different datum. Datum of present gage is 799.51 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Stage-discharge relation.--Defined by current-meter measurements below 8,000 cfs and extended above on basis on contracted-opening measurement.

Bankfull stage.--9 ft.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Feb. 28, 1910	9.3	9,500	1931	Apr. 4, 1931	10.10	10,700
				1932	Jan. 24, 1932	6.2	3,900
1911	Sept. 14, 1911	10.6	12,100	1933	Mar. 15, 1933	10.64	11,700
1912	Sept. 3, 1912	9.6	10,100	1934	Aug. 24, 1934	7.85	3,960
1913	Mar. 26, 1913	11.01	12,900	1935	Mar. 12, May 7	8.5	4,680
1914	Mar. 16, 1914	6.7	4,620				
1915	Feb. 2, 1915	10.2	11,300	1936	Mar. 18, 1936	17.86	21,000
				1937	Apr. 26, 1937	13.2	11,400
1916	Mar. 22, 1916	10.0	10,900	1938	Dec. 18, 1937	11.3	8,350
1917	Jan. 22, 1917	10.7	12,300	1939	June 23, 1939	11.2	8,200
1918	Feb. 20, 1918	8.0	6,580	1940	Apr. 21, 1940	8.47	6,160
1919	May 10, 1919	7.5	6,040				
1920	June 17, 1920	10.0	10,000	1941	Jan. 3, 1941	5.62	2,920
				1942	Apr. 13, 1942	6.99	4,360
1921	Sept. 21, 1921	9.5	9,400	1943	Jan. 5, 1943	7.53	4,960
1922	Apr. 15, 1922	9.28	9,000	1944	July 22, 1944	5.04	2,340
1923	May 13, 1923	9.6	9,540	1945	Mar. 9, 1945	7.83	5,320
1924	June 29, 1924	13.1	16,500				
1925	Feb. 10, 1925	7.2	5,400	1946	June 22, 1946	6.81	4,010
				1947	Dec. 30, 1946	4.97	2,180
1926	Sept. 24, 1926	10.07	10,200	1948	Apr. 17, 1948	8.07	5,660
1927	Mar. 21, 1927	8.75	8,100	1949	Jan. 31, 1949	7.10	4,370
1928	Dec. 14, 1927	10.6	11,700	1950	Mar. 30, 1950	7.17	4,240
1929	Feb. 26, 1929	12.20	15,000				
1930	Feb. 26, 1930	9.80	10,100				

Crooked Creek at Crooked Creek Dam, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1951	Dec. 9, 1950	8.90	5,760	1956	Feb. 8, Apr. 10	7.68	4,270
1952	Jan. 30, 1952	8.77	5,640	1957	Apr. 8, 1957	8.05	4,540
1953	June 2, 1953	7.10	3,820	1958	May 9, 1958	7.49	4,090
1954	Mar. 3, 1954	7.24	3,820				
1955	Oct. 18, 1954	8.35	4,900				

KISKIMINETAS RIVER BASIN

400. Stony Creek at Ferndale, Pa.

Location. --Lat 40°17'10", long 78°55'10", on right bank 50 ft upstream from highway bridge at Ferndale, Cambria County, 0.4 mile downstream from Bens Creek, 1.2 miles upstream from Johnstown city limits, and 5.2 miles upstream from confluence with Little Conemaugh River.

Drainage area. --451 sq mi.

Gage. --Nonrecording gage prior to Jan. 30, 1940; recording gage thereafter. Prior to Mar. 19, 1936, at site 3½ miles downstream at different datum. Dec. 8, 1938 to Jan. 30, 1940, at site 50 ft downstream. Datum of present gage is 1,183.84 ft above mean sea level, city of Johnstown datum.

Stage-discharge relation. --Defined by current-meter measurements below 8,000 cfs and extended on basis of slope-area and contracted-opening measurement.

Bankfull stage. --18 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 30, 1914	7.85	5,840	1939	Feb. 3, 1939	8.8	9,280
1915	Jan. 7, 1915	10.7	10,600	1940	Mar. 31, 1940	13.3	23,900
1916	Mar. 28, 1916	11.3	11,700	1941	June 5, 1941	12.27	19,100
1917	Mar. 12, 1917	14.0	17,200	1942	Apr. 9, 1942	8.72	9,000
1918	Feb. 26, 1918	12.7	14,500	1943	Dec. 30, 1942	11.07	15,300
1919	May 10, 1919	8.15	6,380	1944	Mar. 17, 1944	7.90	7,140
1920	Mar. 12, 1920	11.2	11,600	1945	Mar. 6, 1945	11.97	18,100
1921	Mar. 3, 1921	8.98	7,670	1946	June 2, 1946	10.95	15,000
1922	Nov. 28, 1921	13.7	16,400	1947	June 8, 1947	6.85	4,980
1923	Feb. 2, 1923	7.1	4,850	1948	Apr. 14, 1948	9.78	12,100
1924	Mar. 29, 1924	16.9	23,000	1949	Jan. 26, 1949	8.15	7,800
1925	Feb. 11-12, 1925	10.0	9,450	1950	Mar. 28, 1950	9.90	12,400
1926	Feb. 22, 1926	9.2	8,080	1951	June 28, 1951	9.43	10,900
1927	Jan. 22, 1927	10.96	11,700	1952	Mar. 11, 1952	10.20	13,400
1928	May 1, 1928	13.23	16,000	1953	May 31, 1953	10.50	14,600
1929	Feb. 26, 1929	9.15	8,080	1954	Mar. 1, 1954	10.14	13,100
1930	Feb. 25, 1930	9.90	9,460	1955	Oct. 15, 1954	16.23	34,800
1931	Apr. 4, 1931	9.02	7,760	1956	Mar. 8, 1956	8.38	8,480
1932	Apr. 1, 1932	9.1	7,940	1957	Apr. 25, 1957	7.03	5,600
1933	Mar. 15, 1933	11.72	13,100	1958	Apr. 6, 1958	7.98	7,600
1934	Jan. 7, 1934	8.9	7,580				
1935	Aug. 2, 1935	9.26	7,280				
1936	Mar. 18, 1936	30.26	59,000				

410. Little Conemaugh River at East Conemaugh, Pa.

Location. --Lat 40°20'35", long 78°53'05", on right bank 100 ft downstream from highway bridge at East Conemaugh, Cambria County, 0.3 mile downstream from Clapboard Run, and 2.5 miles upstream from confluence with Stony Creek.

Drainage area. --183 sq mi.

Gage. --Nonrecording gage prior to Feb. 1, 1940; recording thereafter. Datum of gage is 1,207.92 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 4,100 cfs and extended on basis of slope-area measurement.

Bankfull stage. --16 ft.

Remarks. --Base for partial-duration series, 4,000 cfs. Flow regulated partly by reservoirs and diversion above station.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 17,18, 1936	—	28,800	1950	Dec. 13, 1949	5.72	4,420
					Mar. 28, 1950	6.22	5,420
1940	Mar. 30, 1940	8.80	11,800				
	Apr. 4, 1940	6.37	5,580	1951	Dec. 4, 1950	5.55	4,120
					Dec. 8, 1950	6.38	5,820
1941	Apr. 5, 1941	5.58	4,050		Mar. 30, 1951	5.58	4,220
	June 5, 1941	7.19	7,530		June 14, 1951	6.03	5,020
1942	Mar. 9, 1942	5.90	4,640	1952	Jan. 27, 1952	6.38	5,820
	Apr. 9, 1942	6.77	6,590		Mar. 11, 1952	5.86	4,720
1943	Dec. 30, 1942	7.29	7,410	1953	Nov. 22, 1952	5.62	4,050
					May 31, 1953	5.82	4,490
1944	Mar. 17, 1944	6.06	4,550				
				1954	Mar. 1, 1954	7.94	9,730
1945	Mar. 3, 1945	6.27	4,960				
	Mar. 6, 1945	8.03	9,350	1955	Oct. 16, 1954	8.86	12,300
					Dec. 30, 1954	6.05	5,090
1946	June 2, 1946	6.29	5,800		Mar. 1, 1955	6.16	5,330
	June 12, 1946	6.28	5,800		Mar. 4, 1955	5.64	4,160
1947	June 8, 1947	4.83	2,950	1956	Feb. 25, 1956	6.36	5,810
1948	Apr. 12, 1948	6.44	6,010	1957	Jan. 23, 1957	4.97	2,870
	Apr. 14, 1948	6.47	6,220				
	June 19, 1948	6.17	5,590	1958	Aug. 1, 1958	5.41	3,630
1949	July 12, 1949	5.36	3,860				

415. Conemaugh River at Seward, Pa.

Location. --Lat 40°25'10", long 79°01'40", on left bank at highway bridge on State Highway 56 at Seward, Westmoreland County, 2 miles downstream from Findley Run, and 9 miles northwest of Johnstown.

Drainage area. --715 sq mi.

Gage. --Recording gage. Datum of gage is 1,075.64 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements. Discharge of Mar. 18, 1936 determined by contracted-opening measurements.

Bankfull stage. --12 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Conemaugh River at Seward, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	26.4	90,000	1948	Apr. 14, 1948	11.04	21,000
				1949	Jan. 26, 1949	8.37	13,200
1939	Feb. 3, 1939	9.00	15,100	1950	Mar. 28, 1950	10.80	20,400
1940	Mar. 31, 1940	15.22	35,000				
				1951	June 14, 1951	9.16	15,500
1941	June 5, 1941	13.15	28,200	1952	Jan. 27, 1952	11.35	22,300
1942	Apr. 9, 1942	10.07	18,200	1953	May 31, 1953	11.38	22,300
1943	Dec. 30, 1942	12.70	26,500	1954	Mar. 1, 1954	13.33	28,500
1944	Mar. 17, 1944	8.39	13,200	1955	Oct. 16, 1954	19.20	54,000
1945	Mar. 6, 1945	13.76	30,200				
				1956	Mar. 8, 1956	8.83	14,300
1946	June 2, 1946	11.27	22,000	1957	Jan. 23, 1957	7.19	9,720
1947	June 8, 1947	6.75	8,650	1958	Apr. 7, 1958	7.86	11,700

420. Blacklick Creek at Josephine, Pa.

Location. --Lat 40°28'25", long 79°11'00", on right bank on upstream side of old concrete dam at Josephine, Indiana County, and 0.9 mile upstream from Two Lick Creek.

Drainage area. --192 sq mi.

Gage. --Nonrecording gage prior to Aug. 25, 1953; recording gage thereafter. Datum of gage is 975.82 ft above mean sea level, datum of 1912.

Stage-discharge relation. --Defined by current-meter measurements below 5,500 cfs and extended on basis of flow-over-dam measurement.

Bankfull stage. --17 ft.

Remarks. --Base for partial-duration series, 2,700 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Jan. 27, 1952	11.3	[a]8,720	1956	Feb. 2, 1956	8.30	3,700
					Feb. 25, 1956	9.00	4,740
1953	Mar. 24, 1953	8.2	3,020		Mar. 7, 1956	8.80	4,430
	Apr. 2, 1953	7.9	2,750		Apr. 3, 1956	9.46	5,570
	May 31, 1953	11.3	8,720		July 16, 1956	10.69	9,250
1954	Mar. 1, 1954	10.15	[b]3,100	1957	Jan. 23, 1957	7.74	2,970
	June 23, 1954	8.90	4,580		Apr. 4, 1957	8.46	3,980
1955	Oct. 15, 1954	11.35	11,900	1958	May 4, 1958	7.84	3,100
	Dec. 30, 1954	9.78	6,230		May 7, 1958	7.65	2,850
	Feb. 23, 1955	7.68	2,910		July 22, 1958	8.84	4,430
	Mar. 1, 1955	7.81	3,030		Aug. 1, 1958	8.96	4,740
	Mar. 4, 1955	8.70	4,280		Aug. 3, 1958	8.69	4,280
	June 8, 1955	7.61	2,790				

[a]Annual peak only.
[b]Maximum daily discharge.

425. Two Lick Creek at Graceton, Pa.

Location. --Lat 40°31'05", long 79°10'15", on right bank three-quarters of a mile upstream from highway bridge on road leading west from Graceton, Indiana County, 1 mile downstream from Tearing Run, and 1¼ miles upstream from Cherry Run.

Drainage area. --171 sq mi.

Gage. --Recording gage. Datum of gage is 983 ft (by barometer).

Stage-discharge relation. --Defined by current-meter measurement below 4,500 cfs and extended on basis of contracted-opening measurement.

Bankfull stage. --10 ft.

Remarks. --Base for partial-duration series, 2,300 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1952	Dec. 21, 1951	6.83	2,670	1956	Feb. 3, 1956	7.30	3,200
	Jan. 27, 1952	10.42	6,600		Feb. 7, 1956	7.81	3,700
	Apr. 15, 1952	6.62	2,480		Feb. 18, 1956	6.46	2,480
	May 21, 1952	6.49	2,390		Feb. 25, 1956	8.27	4,200
					Mar. 8, 1956	8.42	4,300
1953	May 31, 1953	9.69	5,760		Apr. 3, 1956	7.20	3,110
					July 2, 1956	7.10	3,110
1954	Mar. 1, 1954	9.26	5,290		July 16, 1956	10.82	7,900
	June 23, 1954	6.84	2,750		Aug. 5, 1956	7.61	3,500
					Sept. 6, 1956	7.04	2,930
1955	Oct. 6, 1954	—	—				
	Oct. 16, 1954	12.71	12,900	1957	Jan. 23, 1957	7.52	3,400
	Dec. 30, 1954	8.76	4,740		Feb. 4, 1957	6.30	2,320
	Feb. 23, 1955	6.36	2,400		Apr. 4, 1957	8.81	4,740
	Mar. 4, 1955	6.92	2,840				
				1958	May 7, 1958	6.93	2,840
					July 22, 1958	6.40	2,400

430. Blacklick Creek at Blacklick, Pa.

Location. --Lat 40°28'25", long 79°12'15", near left bank on downstream side of bridge at Gratton, a quarter of a mile northwest of Blacklick, Indiana County, and three-quarters of a mile downstream from Two Lick Creek.

Drainage area. --390 sq mi.

Gage. --Nonrecording gage. Datum of gage is 945.94 ft above mean sea level (Pennsylvania State Highway benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 18,000 cfs and extended on basis of slope-area measurement.

Remarks. --Base for partial-duration series, 7,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1905	Mar. 21, 1905	—	8,920	1911	Jan. 14, 1911	10.2	13,400
					Sept. 15, 1911	9.6	11,000
1906	Dec. 3, 1905	11.2	16,900				
				1912	Oct. 2, 1911	8.2	7,730
1907	Mar. 14, 1907	15.4	45,400		Feb. 27, 1912	9.6	11,200
					Mar. 21, 1912	11.1	16,500
1908	Feb. 15, 1908	11.6	18,500		June 16, 1912	9.6	11,200
	Mar. 7, 1908	9.9	11,700		Sept. 3, 1912	12.9	25,500
	Mar. 19, 1908	11.3	17,300				
				1913	Jan. 8, 1913	10.5	13,500
1909	Feb. 24, 1909	8.8	9,110		Jan. 12, 1913	9.0	9,760
					Mar. 27, 1913	8.7	9,100
1910	Jan. 28, 1910	[a]13.4	16,100		May 27, 1913	10.4	13,300
	Feb. 28, 1910	10.2	13,400				

Blacklick Creek at Blacklick, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 17, 1914	8.4	8,440
	May 6, 1914	8.0	7,580
1915	Jan. 7, 1915	10.72	14,100
	Feb. 2, 1915	9.47	10,900
1916	Oct. 19, 1915	10.7	14,100
	Dec. 18, 1915	10.5	13,500
	Jan. 2, 1916	9.0	9,760
	Mar. 28, 1916	8.8	9,320
1917	Jan. 22, 1917	11.3	15,800
	June 7, 1917	8.0	7,580
	Aug. 14, 1917	8.4	8,440
1918	Feb. 13, 1918	9.0	9,760
	Feb. 20, 1918	10.8	14,400
	Feb. 26, 1918	8.6	8,880
1919	Oct. 31, 1918	7.9	7,370
1920	Mar. 5, 1920	8.6	8,880
	Mar. 12, 1920	8.3	8,220
	June 17, 1920	10.5	13,700
1921	May 5, 1921	7.3	6,110
1922	Nov. 29, 1921	9.85	11,700
	Apr. 15, 1922	9.4	10,700
1923	May 13, 1923	9.5	11,000
1924	Jan. 3, 1924	[b]9.7	—
	Mar. 29, 1924	8.6	8,880
	May 9, 1924	8.2	8,000
	May 12, 1924	8.2	8,000
	June 29, 1924	12.2	21,500
1925	Feb. 11, 1925	7.2	5,900
1926	Sept. 5, 1926	8.9	9,540
1927	Jan. 22, 1927	9.40	10,700
	Mar. 21, 1927	9.1	9,990
	May 19, 1927	8.0	7,580
1928	Oct. 20, 1927	9.80	11,700
	Dec. 14, 1927	8.1	7,790
	Feb. 5, 1928	8.0	7,580
	Mar. 30, 1928	8.6	8,880
1929	Feb. 26, 1929	8.10	7,790
1930	Feb. 25, 1930	9.70	11,500
1931	Apr. 4, 1931	9.30	10,500
1932	Apr. 1, 1932	7.5	6,540
1933	Mar. 15, 1933	9.28	11,100
	May 10, 1933	8.4	8,940
1934	Mar. 3, 1934	8.57	9,400
	Sept. 29, 1934	7.9	7,800
1935	May 10, 1935	8.3	8,400
1936	Feb. 27, 1936	8.5	8,910
	Mar. 18, 1936	15.88	51,700
1937	Jan. 25, 1937	8.8	9,100
	Apr. 26, 1937	9.0	10,700
1938	Oct. 28, 1937	8.0	7,670
	Dec. 18, 1937	10.3	13,700
1939	Jan. 31, 1939	7.8	7,130
1940	Mar. 19, 1940	8.65	9,400
	Mar. 31, 1940	11.5	18,100
	Apr. 20, 1940	8.7	9,360
1941	June 5, 1941	8.0	7,280
1942	Apr. 9, 1942	9.01	10,300
1943	Dec. 30, 1942	11.76	19,500
1944	Mar. 17, 1944	8.1	7,650
1945	Feb. 27, 1945	9.2	10,500
	Mar. 3, 1945	9.3	10,800
	Mar. 6, 1945	10.4	14,000
1946	June 13, 1946	11.65	18,500
1947	June 8, 1947	7.10	5,490
1948	Feb. 14, 1948	8.3	8,150
	Apr. 12, 1948	10.7	14,900
	June 19, 1948	9.1	10,300
1949	Jan. 24, 1949	7.65	6,520
1950	July 5, 1950	7.68	6,740
1951	Dec. 4, 1950	9.3	10,800
	Jan. 4, 1951	8.6	8,920
	Apr. 30, 1951	9.7	11,900
	June 13, 1951	8.6	8,920
	July 23, 1951	9.8	12,200

[a]Backwater from ice; maximum discharge occurred before ice-gorge formed.
[b]Backwater from ice.

440. Conemaugh River at Tunnelton, Pa.

Location. --Lat 40°27'15", long 79°23'30", on right bank at downstream side of highway bridge at Tunnelton, Indiana County, 0.9 mile downstream from Boatyard Run, 2 miles downstream from Conemaugh River Dam, 2 3/4 miles southeast of Saltsburg, and 5.5 miles upstream from confluence with Loyalhanna Creek.

Drainage area. --1,358 sq mi.

Gage. --Nonrecording gage prior to Oct. 1, 1952; recording gage thereafter. Datum of gage is 844.64 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	20.18	55,600	1949	Jan. 27, 1949	10.6	19,500
				1950	Mar. 28, 1950	12.9	27,300
1941	June 5, 1941	16.9	42,300				
1942	Apr. 10, 1942	15.3	36,200	1951	Dec. 4, 1950	13.1	28,100
1943	Dec. 30, 1942	19.6	53,100	1952	Jan. 27, 1952	14.8	34,300
1944	Mar. 17, 1944	11.6	22,800	1953	June 1, 1953	11.26	21,300
1945	Mar. 7, 1945	21.0	59,200	1954	Mar. 3, 1954	10.60	19,000
				1955	Oct. 19, 1954	13.27	28,400
1946	June 13, 1946	14.6	33,600				
1947	June 8, 1947	10.1	17,900	1956	Mar. 11, 1956	11.23	20,900
1948	Apr. 14, 1948	16.5	40,800	1957	Apr. 10, 1957	9.82	16,500
				1958	May 9, 1958	10.07	17,400

450. Loyalhanna Creek at Kingston, Pa.

Location. --Lat 40°17'35", long 79°20'25", on right bank 60 ft downstream from bridge on State Highway 680, at Kingston, Westmoreland County, 100 ft downstream from Millers Run, 1.9 miles upstream from Ninemile Run, and 3 miles southeast of Latrobe.

Drainage area. --172 sq mi.

Gage. --Recording gage. Datum of gage is 1,014.16 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 4,000 cfs and extended on basis of contracted-opening measurement.

Historical data. --Flood of March 17 or 18, 1936, reached a stage of about 14.5 ft, from information by local residents (discharge, 21,000 cfs from rating curve extended above 8,200 cfs by logarithmic plotting).

Bankfull stage. --15 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 30, 1940	9.83	9,170	1949	Jan. 26, 1949	7.74	4,900
				1950	Jan. 7, 1950	7.30	4,270
1941	June 5, 1941	10.06	9,830				
1942	Apr. 9, 1942	8.72	6,590	1951	June 28, 1951	10.73	10,500
1943	Dec. 30, 1942	9.17	7,500	1952	Jan. 27, 1952	8.46	6,280
1944	May 7, 1944	7.61	4,760	1953	May 31, 1953	7.74	4,780
1945	Mar. 6, 1945	10.00	9,100	1954	Mar. 1, 1954	6.39	3,350
				1955	Oct. 15, 1954	14.8	29,700
1946	June 2, 1946	9.46	8,140				
1947	June 8, 1947	7.57	4,760	1956	Feb. 25, Aug. 6	6.26	4,350
1948	Apr. 14, 1948	9.22	7,570	1957	June 13, 1957	5.68	3,510
				1958	Aug. 3, 1958	5.41	3,130

455. Loyalhanna Creek at New Alexandria, Pa.

Location. --Lat 40°23'40", long 79°25'55", at highway bridge at New Alexandria, Westmoreland County, 1 3/4 miles downstream from Crabtree Creek.

Drainage area. --265 sq mi.

Gage. --Nonrecording gage. Datum of gage is 917.26 ft above mean sea level, general adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements. Discharge of Mar. 18, 1936, determined by slope-area and contracted-opening measurements.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1911	Sept. 15, 1911	12.0	11,400	1931	Apr. 4, 1931	10.3	7,480
				1932	Jan. 30, 1932	7.2	3,840
1920	June 17, 1920	8.70	5,520	1933	Mar. 15, 1933	12.3	10,000
				1934	Aug. 16, 1934	6.78	3,430
1921	Jan. 8, 1921	7.2	3,850	1935	Aug. 3, 1935	16.0	17,900
1922	Nov. 28, 1921	10.60	7,500				
1923	May 13, 1923	7.6	3,910	1936	Mar. 18, 1936	20.96	31,000
				1937	Apr. 26, 1937	15.09	15,900
1926	Sept. 30, 1926	9.8	6,500	1938	Oct. 28, 1937	9.8	6,500
1927	Jan. 21, 1927	8.95	5,880	1939	Feb. 3, 1939	8.7	5,120
1928	Oct. 20, 1927	12.65	10,400	1940	Mar. 31, 1940	12.9	11,400
1929	Feb. 26, 1929	9.3	5,850				
1930	June 10, 1930	10.1	7,240				

470. Loyalhanna Creek at Loyalhanna Creek Dam, Pa.

Location. --Lat 40°27'50", long 79°27'05", on left bank at downstream side of highway bridge, 0.7 mile downstream from Loyalhanna Creek Dam, Westmoreland County, 1½ miles south of Saltsburg, and 4.0 miles upstream from confluence with Conemaugh River.

Drainage area. --292 sq mi.

Gage. --Recording gage. Datum of gage is 861.15 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --9 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Mar. 31, 1940	9.90	10,700	1949	Jan. 30, 1949	6.44	4,520
				1950	Jan. 8, 1950	6.31	4,380
1941	June 5, 1941	10.30	11,700				
1942	Apr. 10, 1942	6.75	4,560	1951	June 16, 1951	6.40	4,520
1943	Jan. 2, 1943	6.35	4,020	1952	Jan. 30, 1952	6.41	4,520
1944	May 7, 1944	6.99	4,840	1953	June 2, 1953	6.15	3,920
1945	Mar. 9, 1945	7.96	6,980	1954	Mar. 3, 1954	6.19	3,920
				1955	Oct. 18, 1954	6.90	4,780
1946	June 3, 1946	6.46	4,480				
1947	June 9, 1947	6.22	4,060	1956	Mar. 10, 1956	6.58	4,310
1948	Apr. 17, 1948	6.76	4,920	1957	Apr. 10, 1957	5.33	2,950
				1958	May 9, 1958	5.96	3,650

475. Kiskiminetas River at Avonmore, Pa.

Location. --Lat 40°32'05", long 79°27'55", at highway bridge at Avonmore, Westmoreland County, 1 mile above mouth at Long Run.

Drainage area. --1,723 sq mi.

Gage. --Nonrecording gage. Datum of gage is 805.64 ft above mean sea level, unadjusted.

Stage-discharge relation. --Defined by current-meter measurements. Discharge for Mar. 18, 1936, determined by slope-area measurement.

Remarks. --Only annual peaks are shown. Flow regulated. Prior to 1906 records from Weather Bureau.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1884	Feb. 6, 1884	24.1	54,200	1916	Mar. 22, 1916	20.0	36,600
1885	Jan. 17, 1885	16.4	27,300	1917	Jan. 22, 1917	24.0	51,800
				1918	Feb. 20, 1918	22.0	43,900
1886	Jan. 5, 1886	19.1	36,200	1919	Jan. 2, 1919	16.2	24,300
1887	Dec. 14, 1886	13.8	19,600	1920	Nov. 27, 1919	20.3	37,700
1888	Aug. 21, 1888	31.8	84,500				
1889	June 1, 1889	29.8	76,500	1921	Jan. 23, 1921	15.6	22,500
1890	Mar. 23, Apr. 10	17.8	31,800	1922	Nov. 29, 1921	24.65	54,200
				1923	May 13, 1923	18.0	29,800
1891	Feb. 17, 1891	30.4	78,900	1924	Mar. 30, 1924	24.0	51,800
1892	Jan. 14, 1892	15.1	23,300	1925	Feb. 12, 1925	17.8	29,200
1893	Feb. 11, 1893	15.2	23,600				
1894	May 20, 1894	19.5	37,500	1926	Sept. 6, 1926	18.5	31,400
1895	Jan. 8, 1895	19.8	38,600	1927	Jan. 22, 1927	21.3	41,300
				1928	Oct. 20, 1927	25.1	56,300
1902	Mar. 1, 1902	26.4	63,200	1929	Feb. 26, 1929	16.96	26,700
1903	Mar. 1, 1903	16.4	27,300	1930	Feb. 25, 1930	23.3	48,800
1904	Jan. 23, 1904	21.8	45,600				
1905	Mar. 8, 1905	20.4	40,700	1931	Apr. 4, 1931	20.2	37,300
				1932	Apr. 1, 1932	18.3	30,600
1906	June 7, 1906	19.1	36,200	1933	Mar. 15, 1933	23.0	47,600
1907	Mar. 14, 1907	33.8	98,900	1934	Sept. 30, 1934	14.90	20,300
1908	Mar. 19, 1908	30.8	80,500	1935	Aug. 4, 1935	18.6	33,800
1909	Feb. 24, 1909	17.2	29,800				
1910	Feb. 28, 1910	19.2	36,500	1936	Mar. 18, 1936	47.2	185,000
				1937	Apr. 26, 1937	28.8	80,400
1911	Sept. 15, 1911	21.5	44,600				
1912	Mar. 21, 1912	28.0	69,400				
1913	Jan. 8, 1913	22.21	44,700				
1914	Mar. 17, 1914	17.20	27,300				
1915	Feb. 2, 1915	21.4	41,700				

485. Kiskiminetas River at Vandergrift, Pa.

Location. --Lat 40°36'20", long 79°33'15", on left bank a third of a mile upstream from bridge on State Highway 56 at Vandergrift, Westmoreland County, and 2 miles upstream from Pine Run.

Drainage area. --1,825 sq mi.

Gage. --Recording gage. Datum of gage is 769.40 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements. Maximum discharge of Mar. 18, 1936, by slope-area measurement.

Bankfull stage. --25 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Kiskiminetas River at Vandergrift, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	41.64	185,000	1948	Apr. 14, 1948	20.91	44,300
1938	Dec. 18, 1937	19.37	40,300	1949	Jan. 27, 1949	14.25	21,800
1939	Feb. 4, 1939	16.71	30,800	1950	Mar. 28, 1950	16.00	27,200
1940	Mar. 31, 1940	25.70	71,900	1951	Dec. 4, 1950	16.91	29,900
1941	June 5, 1941	22.68	56,100	1952	Jan. 27, 1952	18.46	34,700
1942	Apr. 10, 1942	20.32	44,800	1953	June 2, 1953	14.99	24,200
1943	Dec. 30, 1942	24.79	67,000	1954	Mar. 4, 1954	14.74	23,300
1944	May 7, 1944	15.58	26,900	1955	Oct. 19, 1954	17.56	32,000
1945	Mar. 7, 1945	25.34	64,700	1956	Mar. 11, 1956	15.79	26,600
1946	June 3, 1946	17.57	32,000	1957	Apr. 10, 1957	13.76	20,600
1947	June 9, 1947	14.97	24,200	1958	May 10, 1958	14.20	21,800

BUFFALO CREEK BASIN

490. Buffalo Creek near Freeport, Pa.

Location.--Lat 40°43'00", long 79°42'00", on right bank 0.5 mile upstream from Little Buffalo Creek and 3 miles north of Freeport, Armstrong County.
Drainage area.--137 sq mi.
Gage.--Nonrecording gage and crest-stage indicator. Altitude of gage is 792 ft (by barometer).
Stage-discharge relation.--Defined by current-meter measurements below 4,300 cfs and extended on basis of slope-area measurement.
Bankfull stage.--7 ft.
Remarks.--Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Aug. 15, 1941	4.7	1,880	1952	Jan. 1, 1952	5.0	2,180
					Jan. 27, 1952	9.3	7,170
1942	Feb. 7, 1942	[a]5.5	2,650		Feb. 4, 1952	4.8	2,000
	Mar. 9, 1942	[a]6.2	3,390		Apr. 15, 1952	5.1	2,270
					May 20, 1952	5.3	2,460
1943	Dec. 30, 1942	7.9	5,610		May 26, 1952	5.6	2,760
	Mar. 12, 1943	4.9	2,060				
	Apr. 20, 1943	5.6	2,750	1953	Mar. 24, 1953	5.63	2,790
	June 17, 1943	5.2	2,350		May 31, 1953	6.67	3,920
					June 7, 1953	5.21	2,400
1944	Mar. 17, 1944	4.9	2,060				
				1954	Mar. 1, 1954	5.73	2,890
1945	Feb. 22, 1945	8.1	5,910		Apr. 17, 1954	6.58	3,810
	Feb. 27, 1945	5.9	3,070				
	Mar. 3, 1945	5.5	2,660	1955	Oct. 4, 1954	4.9	2,130
	Mar. 7, 1945	6.7	3,990		Oct. 15, 1954	13.60	14,000
	Mar. 21, 1945	8.3	6,210		Dec. 18, 1954	5.2	2,400
	May 17, 1945	4.8	2,000		Dec. 30, 1954	4.8	2,040
					Feb. 22, 1955	5.26	2,490
1946	Feb. 27, 1946	6.4	3,630		Mar. 4, 1955	4.79	2,040
1947	June 7, 1947	5.0	2,180	1956	Feb. 2, 1956	4.9	2,130
					Feb. 7, 1956	6.60	3,810
1948	Feb. 14, 1948	6.83	4,110		Feb. 18, 1956	5.5	2,690
	Apr. 14, 1948	6.70	4,110		Feb. 25, 1956	7.54	4,830
					Mar. 8, 1956	5.7	2,890
1949	Dec. 16, 1948	5.78	2,960		Apr. 3, 1956	6.06	3,290
					Apr. 7, 1956	5.09	2,310
1950	Jan. 6, 1950	5.0	2,180		May 12, 1956	5.7	2,890
	Jan. 10, 1950	6.48	3,750		June 24, 1956	9.20	7,020
	Feb. 14, 1950	5.0	2,180		July 16, 1956	5.5	2,690
	Mar. 27, 1950	5.0	2,180		Aug. 5, 1956	5.3	2,490
1951	Dec. 4, 1950	7.3	4,760	1957	Jan. 23, 1957	5.99	3,190
	Dec. 8, 1950	6.1	3,290		Apr. 4, 1957	9.15	7,020
	Jan. 4, 1951	5.1	2,270				
	Jan. 15, 1951	6.6	3,870	1958	Dec. 21, 1957	6.00	3,190
	Feb. 1, 1951	4.9	2,090		May 7, 1958	5.67	2,890
					July 31, 1958	5.72	2,890

[a]Maximum observed.

495. Allegheny River at Natrona, Pa.

Location. --Lat 40°36'55", long 79°43'10", on right bank 550 ft upstream from dam at lock 4 at Natrona, Allegheny County, 6 miles downstream from Kiskiminetas River, and at mile 24.2.

Drainage area. --11,410 sq mi, approximately.

Gage. --Nonrecording gage prior to Apr. 14, 1940; recording gage thereafter. Datum of gage is 736.74 ft above mean sea level, adjustment of 1912 (Corps of Engineer benchmark).

Stage-discharge relation. --Defined by current-meter measurement.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	32.06	365,000	1948	Mar. 23, 1948	21.05	152,000
1939	Feb. 21, 1939	17.6	103,000	1949	Jan. 28, 1949	16.01	77,400
1940	Mar. 31, 1940	23.6	187,000	1950	Mar. 29, 1950	19.54	130,000
1941	Dec. 14, 1940	16.67	89,000	1951	Dec. 4, 1950	21.02	152,000
1942	Mar. 17, 1942	19.30	128,000	1952	Jan. 27, 1952	23.28	183,000
1943	Dec. 30, 1942	27.46	238,000	1953	May 31, 1953	20.06	139,000
1944	Mar. 18, 1944	17.91	108,000	1954	Mar. 4, 1954	17.44	100,000
1945	Mar. 7, 1945	24.77	203,000	1955	Oct. 16, 1954	20.38	143,000
1946	May 28, 1946	21.63	160,000	1956	Mar. 9, 1956	22.97	178,000
1947	Apr. 6, 1947	20.29	142,000	1957	Jan. 24, 1957	18.58	118,000
				1958	July 15, 1958	17.27	98,500

MONONGAHELA RIVER BASIN

615. Buffalo Creek at Barrackville, W. Va.

Location. --Lat 39°30'15", long 80°10'20", at highway bridge at Barrackville, Marion County, 1,700 ft upstream from Finchs Run.

Drainage area. --115 sq mi.

Gage. --Nonrecording prior to Dec. 6, 1940; recording thereafter. At datum 1.98 ft higher prior to June 4, 1943. Datum of gage is 882.42 ft above mean sea level, adjustment of 1921.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1908	May 5, 1908	8.2	3,280	1941	June 4, 1941	10.3	5,150
				1942	Apr. 9, 1942	10.80	5,650
1912	July 1912	18	11,600	1943	Dec. 30, 1942	11.20	6,070
				1944	Mar. 17, 1944	11.70	4,510
1916	Dec. 17, 1915	10.5	5,350	1945	Feb. 27, 1945	13.50	6,000
1917	Jan. 22, 1917	14.22	9,490				
1918	Feb. 26, 1918	11.02	5,850	1946	June 2, 1946	15.30	7,620
1919	Jan. 2, 1919	11.46	6,400	1947	Jan. 15, 1947	10.71	3,710
1920	Nov. 1, 1919	10.64	5,450	1948	Apr. 12, 1948	16.00	9,300
				1949	Dec. 15, 1948	13.94	6,690
1921	Mar. 3, 1921	8.47	3,250	1950	Jan. 31, 1950	11.8	4,590
1922	Sept. 2, 1922	13.5	8,650				
1923	Feb. 13, 1923	8.20	3,100	1951	June 13, 1951	15.36	8,520
1924	Mar. 29, 1924	11.88	6,840	1952	Jan. 27, 1952	11.25	4,100
				1953	Jan. 8, 1953	11.48	4,350
1933	Mar. 14, 1933	12.22	7,170	1954	Aug. 21, 1954	12.95	5,700
1934	Mar. 27, 1934	8.13	3,100	1955	Oct. 16, 1954	13.15	5,920
1935	May 2, 1935	9.10	4,040				
				1956	May 28, 1956	15.90	9,170
1936	Mar. 17, 1936	11.08	5,960	1957	Dec. 14, 1956	13.00	5,950
1937	Jan. 18, 1937	11.2	6,070	1958	July 16, 1958	11.35	4,470
1938	Feb. 20, 1938	9.39	4,310				
1939	Feb. 3, 1939	11.56	6,510				
1940	Apr. 19, 1940	8.4	3,440				

625. Deckers Creek at Morgantown, W. Va.

Location. --Lat 39°37'45", long 79°57'10", at Kingwood Street in Morgantown, Monongahela County, 0.6 mile upstream from mouth.

Drainage area. --63.2 sq mi.

Gage. --Nonrecording prior to May 8, 1946; recording thereafter. Altitude of gage is 820 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 800 cfs and extended above on basis of slope-area measurement at 5,680 cfs.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	June 2, 1946	4.14	1,490	1953	Jan. 8, 1953	3.51	1,150
1947	June 8, 1947	3.60	1,080	1954	Aug. 21, 1954	3.99	1,730
1948	Apr. 13, 1948	5.79	3,080	1955	Oct. 15, 1954	4.87	2,570
1949	Dec. 16, 1948	4.45	1,740				
1950	Jan. 31, 1950	4.79	1,920	1956	Aug. 5, 1956	10.12	5,680
				1957	Dec. 14, 1956	5.41	2,180
1951	Feb. 1, 1951	4.64	1,900				
1952	Jan. 27, 1952	3.97	1,330				

630. Monongahela River at lock 8, at Point Marion, Pa.

Location. --Lat 39°43'55", long 79°54'40", 700 ft upstream from dam at lock 8, 1 mile upstream from Point Marion, Fayette County, and 1.5 miles upstream from Cheat River.

Drainage area. --2,720 sq mi.

Gage. --Recording. Datum of gage is 782.50 ft above mean sea level (levels by Corps of Engineers).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 27, 1929	18.77	53,300	1941	June 4, 1941	18.42	49,400
1930	Oct. 3, 1929	20.39	69,700	1942	Aug. 24, 1942	15.97	27,200
				1943	Dec. 30, 1942	17.92	44,600
1931	Apr. 4, 1931	15.80	25,500	1944	Feb. 23, 1944	16.21	29,000
1932	Feb. 5, 1932	21.34	68,600	1945	Feb. 27, 1945	18.5	50,300
1933	Mar. 14, 1933	19.78	53,900				
1934	Mar. 4, 1934	18.92	53,300	1946	June 2, 1946	17.37	39,800
1935	Mar. 12, 1935	20.04	65,500	1947	Jan. 16, 1947	14.30	14,400
				1948	Feb. 14, 1948	20.60	71,800
1936	Mar. 18, 1936	22.33	90,400	1949	Dec. 16, 1948	18.59	51,300
1937	Apr. 26, 1937	19.13	56,300	1950	Jan. 31, 1950	17.40	39,800
1938	Oct. 29, 1937	20.75	73,900				
1939	Feb. 4, 1939	19.24	57,300	1951	Feb. 2, 1951	18.71	49,300
1940	Apr. 20, 1940	17.98	42,600	1952	Jan. 27, 1952	17.49	29,000
				1953	Jan. 9, 1953	17.22	27,200
				1954	Aug. 26, 1954	15.82	17,100
				1955	Oct. 16, 1954	21.39	70,800

705. Big Sandy Creek at Rockville, W. Va.

Location. --Lat 39°37'15", long 79°42'20", on right bank just downstream from highway bridge at Rockville, Preston County, 5 miles upstream from mouth.

Drainage area. --200 sq mi.

Gage. --Nonrecording prior to Oct. 4, 1924; recording thereafter. Altitude of gage is 1,310 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 10,000 cfs and extended above by velocity-area studies.

Historical data. --Maximum stage known, 20.0 to 20.5 ft July 10, 1888 (discharge, 28,000 to 30,000 cfs).

Remarks. --Records Oct. 1, 1921, to Apr. 9, 1942, furnished by West Virginia Power & Transmission Co. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	June 19, 1910	11.5	[a]6,550	1936	Mar. 17, 1936	13.17	9,900
				1937	Apr. 26, 1937	10.87	5,570
1911	Jan. 13, 1911	15.6	[a]15,700	1938	Oct. 28, 1937	11.74	6,910
1912	July 24, 1912	18.0	21,300	1939	Feb. 3, 1939	12.85	9,050
1913	Jan. 12, 1913	11.2	[a]6,040	1940	July 1, 1940	12.11	7,650
1914	Nov. 16, 1913	11.9	[a]7,270				
1915	Feb. 1, 1915	11.2	6,040	1941	June 4, 1941	14.77	13,600
				1942	Apr. 9, 1942	11.66	6,910
1916	Mar. 22, 1916	14.85	13,600	1943	Dec. 30, Apr.19	11.05	5,700
1917	Jan. 22, 1947	14.98	14,100	1944	Mar. 24, 1944	10.92	5,520
1918	Feb. 26, 1918	12.8	9,050	1945	Feb. 27, 1945	12.26	7,480
1922	Dec. 24, 1921	12.41	8,250	1946	June 2, 1946	12.22	7,340
1923	Apr. 14, 1923	10.20	4,770	1947	July 19, 1947	10.28	4,680
1924	Mar. 29, 1924	12.9	9,250	1948	Apr. 13, 1948	13.32	10,100
1925	July 22, 1925	10.26	4,570	1949	Dec. 15, 1948	13.83	11,200
				1950	Jan. 31, 1950	12.39	8,250
1926	Oct. 25, 1925	11.95	7,090				
1927	June 4, 1927	10.93	5,440	1951	June 13, 1951	11.60	6,730
1928	Oct. 20, 1927	11.39	6,380	1952	Jan. 27, 19[illegible]	10.94	5,550
1929	Feb. 26, 1929	9.93	4,590	1953	Mar. 24, 1953	9.98	4,260
1930	Oct. 3, 1929	12.10	7,650	1954	Aug. 21, 1954	11.34	6,210
				1955	Oct. 15, 1954	15.68	15,800
1931	Apr. 4, 1931	11.39	6,380				
1932	Dec. 12, 1931	10.86	5,570	1956	Aug. 6, 1956	16.97	19,400
1933	Mar. 14, 1933	14.20	12,200	1957	Dec. 14, 1956	13.20	9,900
1934	Jan. 7, 1934	10.72	5,310	1958	May 5, 1958	11.30	6,210
1935	May 2, 1935	11.23	6,040				

[a]Daily mean discharge.

710. Cheat River near Pisgah, W. Va.

Location. --Lat 39°36'25", long 79°46'40", on right bank three-quarters of a mile upstream from Scott Run, 2 miles downstream from Big Sandy Creek, 2½ miles southwest of Pisgah, Preston County, and 10 miles east of Morgantown.

Drainage area. --1,354 sq mi.

Gage. --Nonrecording prior to Nov. 14, 1927; recording thereafter. Datum of gage is 875.68 ft above mean sea level, adjustment of 1912 (levels by West Virginia Power & Transmission Co.).

Stage-discharge relation. --Defined by current-meter measurements below 25,000 cfs and extended above.

Remarks. --Records furnished by West Virginia Power & Transmission Co. prior to 1934 and for 1940. Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	May 1, 1928	—	50,000	1931	Apr. 5, 1931	13.92	17,300
1929	Dec. 1, 1928	17.68	32,500	1932	Feb. 4, 1932	23.90	66,800
1930	Oct. 3, 1929	—	[a]44,000	1933	May 12, 1933	16.72	28,100
				1934	Mar. 5, 1934	17.22	30,200
				1935	Jan. 21, 1935	17.67	33,100

Cheat River near Pisgah, W. Va.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 17, 1936	[b]24.65	72,000	1946	Jan. 8, 1946	17.15	30,600
1937	Apr. 26, 1937	18.38	36,900	1947	Mar. 25, 1947	16.22	26,100
1938	Oct. 28, 1937	24.28	74,700	1948	Feb. 14, 1948	23.27	67,600
1939	Feb. 3, 1939	24.28	74,700	1949	Dec. 16, 1948	23.08	66,200
1940	May 31, 1940	18.28	36,100	1950	Jan. 31, 1950	18.70	38,200
1941	June 4, 1941	19.97	45,500	1951	Feb. 1, 1951	20.54	48,500
1942	Aug. 24, 1942	16.28	26,500	1952	Jan. 27, 1952	17.81	33,500
1943	Dec. 29, 1942	17.89	34,000	1953	Feb. 22, 1953	[c]15.65	23,600
1944	Feb. 23, 1944	20.61	49,200	1954	Mar. 2, 1954	15.32	22,400
1945	Dec. 26, 1944	20.43	47,900	1955	Oct. 16, 1954	31.5	127,000
				1956	Aug. 5, 1956	26.10	89,300
				1957	Feb. 10, 1957	23.99	72,800
				1958	Dec. 8, 1957	17.64	32,500

[a]Daily mean discharge.
[b]Occurred Feb. 15, 1936 (ice jam).
[c]Occurred Dec. 11, 1952.

720. Dunkard Creek at Shannopin, Pa.

Location. --Lat 30°45'30", long 79°58'20", on left bank at Shannopin, Greene County, 1.4 miles north of Dunkard, 3.5 miles upstream from mouth, and 4 miles southwest of Greensboro.

Drainage area. --229 sq mi.

Gage. --Recording gage. Altitude of gage is 806 ft (by barometer).

Stage-discharge relation. --Defined by current-meter measurements below 10,000 cfs and extended above on basis on slope-area measurement.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 4, 1941	14.02	16,800	1950	Jan. 7, 1950	9.05	5,390
1942	Apr. 10, 1942	9.29	5,890	1951	Nov. 5, 1950	9.65	5,840
					Dec. 4, 1950	10.54	7,870
1943	Dec. 30, 1942	11.25	9,740		Dec. 8, 1950	9.91	6,500
	Mar. 7, 1943	8.98	5,380		Jan. 15, 1951	9.85	6,280
	Apr. 20, 1943	9.76	6,810		Feb. 1, 1951	11.42	10,100
	July 26, 1943	9.43	6,070		June 13, 1951	11.00	9,100
1944	Mar. 5, 1944	8.10	4,020	1952	Jan. 27, 1952	10.40	7,640
1945	Dec. 26, 1944	10.14	7,400	1953	Jan. 9, 1953	9.37	5,420
	Jan. 1, 1945	8.96	5,380		May 7, 1953	10.65	7,700
	Feb. 27, 1945	9.98	7,200				
	Mar. 3, 1945	9.38	6,070	1954	Apr. 17, 1954	7.56	2,880
	Mar. 7, 1945	10.55	8,440				
	Sept. 19, 1945	9.03	5,380	1955	Oct. 16, 1954	11.15	9,570
					Dec. 30, 1954	10.08	6,490
1946	June 2, 1946	11.26	9,960		Feb. 7, 1955	10.13	6,740
					Mar. 5, 1955	10.70	8,180
1947	June 9, 1947	8.19	4,160				
				1956	Jan. 30, 1956	9.60	6,120
1948	Jan. 2, 1948	9.24	5,740		Mar. 8, 1956	9.23	5,400
	Feb. 14, 1948	11.04	9,630		May 28, 1956	11.60	10,400
	Apr. 12, 1948	11.00	9,630		Aug. 6, 1956	9.33	5,580
	Apr. 14, 1948	10.73	8,910				
				1957	Dec. 14, 1956	9.85	6,520
1949	Dec. 16, 1948	10.33	8,000				
				1958	Apr. 30, 1958	9.06	5,220

725. Monongahela River at Greensboro, Pa.

Location. --Lat 39°47'15", long 79°55'15", on left bank on land guide wall 750 ft upstream from dam at lock 7, at Greensboro, Greene County, 0.2 mile upstream from Georges Creek, 2.2 miles downstream from Dunkard Creek, 4.3 miles downstream from Cheat River, and at mile 84.8.

Drainage area. --4,407 sq mi.

Gage. --Recording gage. Datum of gage is 767.55 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --23 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	July 1888	36	—	1946	June 2, 1946	19.05	64,100
				1947	Mar. 15, 1947	16.93	39,800
1936	Mar. 18, 1936	28.4	137,000	1948	Feb. 14, 1948	26.60	124,000
1939	Feb. 4, 1939	25.72	118,000	1949	Dec. 16, 1948	25.3	115,000
1940	May 31, 1940	20.30	79,400	1950	Jan. 31, 1950	20.37	77,600
1941	June 4, 1941	24.28	108,000	1951	Feb. 1, 1951	23.02	99,000
1942	Aug. 24, 1942	18.19	55,100	1952	Jan. 27, 1952	19.5	69,200
1943	Dec. 30, 1942	20.86	85,400	1953	May 7, 1953	17.31	44,300
1944	Feb. 23, 1944	19.8	74,400	1954	Mar. 2, 1954	16.42	34,500
1945	Dec. 26, 1944	22.74	100,000	1955	Oct. 16, 1954	28.93	140,000
				1956	Aug. 6, 1956	24.54	110,000
				1957	Feb. 10, 1957	23.58	103,000
				1958	May 6, 1958	18.94	63,000

730. South Fork Tenmile Creek at Jefferson, Pa.

Location. --Lat 39°55'25", long 80°04'25", on right bank at downstream side of highway bridge, 1 mile southwest of Jefferson, Greene County, and $3\frac{1}{4}$ miles downstream from Ruff Creek.

Drainage area. --180 sq mi.

Gage. --Nonrecording gage prior to Oct. 21, 1938; recording gage thereafter. Datum of gage is 852.54 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 8,000 cfs and extended on basis of slope-area measurement.

Bankfull stage. --11 ft.

Remarks. --Base for partial-duration series, 4,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1932	Jan. 30, 1932	7.70	3,220	1936	Feb. 25, 1936	9.0	4,010
					Mar. 17, 1936	13.54	7,830
1933	Jan. 26, 1933	9.3	4,550		Apr. 6, 1936	10.7	5,370
	Mar. 14, 1933	11.58	6,620				
	Mar. 19, 1933	9.3	4,550	1937	Nov. 4, 1936	13.8	8,100
	Mar. 21, 1933	10.0	5,180		Jan. 15, 1937	10.0	4,810
	Apr. 12, 1933	10.7	5,810		Jan. 18, 1937	9.4	4,330
					Jan. 22, 1937	12.0	6,480
1934	Mar. 3, 1934	9.7	4,910		Jan. 25, 1937	9.7	4,570
	Apr. 4, 1934	12.4	7,400		Apr. 26, 1937	9.4	4,330
1935	Feb. 23, 1935	10.12	5,270	1938	Dec. 18, 1937	9.0	4,010
	Mar. 12, 1935	9.6	4,820		Jan. 25, 1938	9.4	4,330
					Feb. 20, 1938	10.8	5,450

South Fork Tenmile Creek at Jefferson, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Apr. 17, 1939	10.40	4,660	1950	Jan. 7, 1950	10.48	5,570
	June 29, 1939	12.25	5,950				
1940	Mar. 4, 1940	10.36	4,660	1951	Nov. 4, 1950	11.00	6,020
	Mar. 30, 1940	9.52	4,080		Dec. 4, 1950	11.57	6,560
	Apr. 20, 1940	10.28	5,450		Dec. 7, 1950	9.63	4,780
	July 1, 1940	9.90	5,130		Jan. 15, 1951	10.01	5,120
	Aug. 29, 1940	9.93	5,130		Feb. 1, 1951	11.93	6,830
					Mar. 4, 1951	8.73	4,060
1941	Nov. 27, 1940	9.18	4,570		Apr. 30, 1951	11.72	6,650
	June 4, 1941	18.45	13,800	1952	Jan. 27, 1952	12.24	7,100
1942	Mar. 9, 1942	10.33	4,900	1953	May 7, 1953	10.88	5,930
	Apr. 9, 1942	10.72	5,200				
				1954	Apr. 17, 1954	6.70	2,510
1943	Dec. 30, 1942	16.15	10,600				
	Apr. 19, 1943	10.85	5,280	1955	Oct. 15, 1954	14.39	9,180
	July 28, 1943	10.93	5,360		Dec. 30, 1954	10.70	5,750
					Feb. 6, 1955	10.19	5,300
1944	Mar. 5, 1944	9.84	4,530		Mar. 1, 1955	8.78	4,140
					Mar. 5, 1955	12.00	6,920
1945	Jan. 1, 1945	10.28	4,900		May 28, 1955	9.07	4,380
	Feb. 27, 1945	9.40	4,240				
	Mar. 3, 1945	9.41	4,240	1956	Jan. 30, 1956	9.35	4,620
	Mar. 6, 1945	13.27	8,090		Feb. 7, 1956	9.15	4,460
					Feb. 18, 1956	8.76	4,140
1946	June 2, 1946	13.45	8,180		Mar. 8, 1956	9.51	4,700
					Mar. 29, 1956	9.25	4,460
1947	Jan. 15, 1947	7.92	3,440		May 28, 1956	9.33	4,540
					July 27, 1956	16.03	10,900
1948	Feb. 14, 1948	11.61	6,560		Aug. 6, 1956	12.30	7,190
	Apr. 14, 1948	11.10	6,110				
				1957	Apr. 18, 1957	7.74	3,260
1949	Dec. 16, 1948	10.23	5,340				
	Jan. 26, 1949	8.75	4,160	1958	May 4, 1958	8.08	3,580

740. Dunlap Creek at Allison, Pa.

Location.--Lat 39°59'20", long 79°52'30", at highway bridge at Allison, Fayette County, 1 3/4 miles north of Republic, 2.6 miles upstream from Cox Run and 3.7 miles downstream from Lilly Run.

Drainage area.--33.1 sq mi.

Gage.--Nonrecording gage. Altitude of gage is 900 ft (from topographic map).

Stage-discharge relation.--Defined by current-meter measurement below 200 cfs and extended on basis of slope-area measurement.

Remarks.--Base for partial-duration series, 310 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Dec. 30, 1942	3.6	725	1945 Cont.	Mar. 3, 1945	3.1	500
	Apr. 19, 1943	3.40	635		Mar. 6, 1945	4.3	970
	May 20, 1943	2.75	374		Mar. 22, 1945	3.25	490
	May 26, 1943	2.95	446		Sept. 18, 1945	2.80	325
	May 31, 1943	3.00	465		Sept. 23, 1945	3.0	395
1944	Mar. 7, 1944	2.60	317	1946	June 2, 1946	4.73	965
	Mar. 23, 1944	3.2	540		June 19, 1946	4.32	805
1945	Oct. 21, 1944	2.6	317	1947	June 6, 1947	4.08	660
	Dec. 26, 1944	3.71	775				
	Jan. 1, 1945	—	[a]500	1948	Jan. 2, 1948	4.25	765
	Feb. 22, 1945	2.80	385		Feb. 14, 1948	4.54	885
	Feb. 27, 1945	3.0	460		Apr. 14, 1948	5.06	945

Dunlap Creek at Allison, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Dec. 16, 1948	3.3	341	1951	Nov. 4, 1950	4.51	570
	Jan. 26, 1949	3.90	535		Dec. 4, 1950	5.43	960
					Jan. 15, 1951	4.0	405
1950	Jan. 7, 1950	4.30	642		Feb. 1, 1951	4.6	610
	Jan. 31, 1950	4.0	544		June 13, 1951	5.0	780
	July 13, 1950	3.5	386				
	Sept. 14, 1950	3.35	355				
	Sept. 22, 1950	6.17	1,300				

[a]Estimated daily discharge.

745. Redstone Creek at Waltersburg, Pa.

Location. --Lat 39°58'45", long 79°45'50", near center of span on downstream side of highway bridge at Waltersburg, Fayette County, 500 ft upstream from Bolden Run and 1 mile upstream from Allen Run.

Drainage area. --73.7 sq mi.

Gage. --Nonrecording gage and crest-stage indicator. Datum of gage is 883.28 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 1,600 cfs and extended on basis of contracted-opening measurement of peak flow.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 2,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1943	Dec. 30, 1942	6.38	2,050	1950	Sept. 21, 1950	7.29	2,310
1944	May 26, 1944	5.75	1,750	1951	Dec. 3, 1950	6.98	2,180
					June 13, 1951	7.56	2,440
1945	Dec. 25, 1944	7.0	2,350				
	Mar. 6, 1945	7.21	2,450	1952	Jan. 27, 1952	6.00	1,720
	Sept. 23, 1945	6.35	2,050				
				1953	May 7, 1953	5.13	1,380
1946	June 2, 1946	7.84	2,750				
	June 19, 1946	6.5	2,100	1954	Apr. 17, 1954	3.80	735
1947	Aug. 3, 1947	7.59	2,440	1955	Oct. 15, 1954	11.83	4,400
					Mar. 5, 1955	7.65	2,440
1948	Apr. 12, 1948	6.64	2,000				
	Apr. 14, 1948	7.10	2,220	1956	Aug. 6, 1956	8.95	3,080
1949	Jan. 26, 1949	6.03	1,720	1957	Dec. 14, 1956	4.40	1,000
				1958	May 4, 1956	5.75	1,640

750. Monongahela River at Charleroi, Pa.

Location. --Lat 40°08'30", long 79°53'35", on right bank on land guide wall 1,100 ft upstream from dam at lock 4, at Charleroi, Washington County, half a mile downstream from Maple Creek, and at mile 41.5.

Drainage area. --5,213 sq mi.

Gage. --Recording gage. Datum of gage is 735.33 ft above mean sea level (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --24 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Monongahela River at Charleroi, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1888	July 11, 1888	26.1	156,000	1946	June 2, 1946	13.80	79,600
				1947	Mar. 15, 1947	8.91	39,600
1934	Mar. 4, 1934	14.35	85,500	1948	Feb. 14, 1948	19.0	118,000
1935	Mar. 13, 1935	17.0	108,000	1949	Dec. 16, 1948	17.85	109,000
				1950	Feb. 1, 1950	14.84	88,400
1936	Mar. 18, 1936	22.47	138,000				
1937	Apr. 27, 1937	16.84	107,000	1951	Feb. 2, 1951	17.32	106,000
1938	Oct. 29, 1937	20.17	127,000	1952	Jan. 27, 1952	14.04	82,300
1939	Feb. 4, 1939	19.05	120,000	1953	May 7, 1953	10.70	55,800
1940	Apr. 20, 1940	15.06	93,600	1954	Mar. 2, 1954	8.25	33,300
				1955	Oct. 16, 1954	21.07	140,000
1941	June 5, 1941	20.85	133,000				
1942	Apr. 10, 1942	10.92	58,100	1956	Aug. 6, 1956	20.10	130,000
1943	Dec. 30, 1942	17.65	112,000	1957	Feb. 10, 1957	16.82	102,000
1944	Feb. 23, 1944	12.12	66,000	1958	May 6, 1958	12.49	70,300
1945	Feb. 27, 1945	16.52	100,000				

765. Youghiogheny River at Friendsville, Md.

Location. --Lat 39°39'17", long 79°24'27", 0.6 mile upstream from bridge on State Highway 42 at Friendsville, Garrett County, and $1\frac{1}{4}$ miles upstream from Bear Creek.

Drainage area. --295 sq mi.

Gage. --Nonrecording at site 0.6 mile downstream prior to October 1940; recording at present site thereafter. At datum 16.24 ft lower prior to Sept. 1, 1922. At datum 16.29 ft lower Sept. 1, 1922, to Sept. 30, 1926. Datum of gage is 1,487.33 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 5,800 cfs and extended above on basis of slope-area measurement at 13,000 cfs.

Remarks. --Peaks occasionally affected by regulation from Deep Creek Reservoir (usable capacity, 92,975 acre-ft). Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1899	May 19, 1899	10.3	8,380	1946	Jan. 7, 1946	5.22	3,720
				1947	Mar. 15, 1947	[c]6.03	4,260
1902	Mar. 1, 1902	11.5	10,800	1948	Apr. 13, 1948	6.80	7,420
				1949	Dec. 16, 1948	7.97	10,400
1924	Mar. 29, 1924	[a]14.2	15,600	1950	Jan. 31, 1950	6.11	6,280
1941	June 4, 1941	6.97	7,780	1951	Feb. 1, 1951	6.55	6,820
1942	Apr. 10, 1942	5.48	4,480	1952	Jan. 27, 1952	5.89	[d]5,630
1943	Dec. 30, 1942	6.18	6,620	1953	Jan. 24, 1953	5.25	[d]3,880
1944	Mar. 24, 1944	[b]5.97	5,360	1954	Jan. 21, Mar. 1	4.60	[e]2,430
1945	Feb. 27, 1945	7.21	8,380	1955	Oct. 16, 1954	8.99	13,000
				1956	Aug. 6, 1956	8.54	11,800
				1957	Feb. 10, 1957	6.98	7,850
				1958	Dec. 26, 1957	6.08	5,730

[a] Maximum stage known; equivalent to 10.2 ft, present site and datum.
[b] Occurred Jan. 28, 1944; ice jam.
[c] Occurred Mar. 14, 1947; ice jam.
[d] Result of regulation.
[e] Peak of Mar. 1 is result of regulation.

775. Youghiogheny River at Youghiogheny River Dam, Pa.

Location. --Lat 39°48'20", long 79°21'50", on right bank 800 ft upstream from bridge on State Highway 281, a quarter of a mile downstream from Youghiogheny River Dam, Somerset County, a quarter of a mile south of Confluence, and 0.7 mile upstream from Casselman River.

Drainage area. --436 sq mi.

Gage. --Recording gage. Datum of gage is 1,310.17 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --33 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1940	Apr. 20, 1940	11.70	8,660	1951	Feb. 3, 1951	7.70	5,100
				1952	Jan. 31, 1952	8.10	5,860
1941	June 4, 1941	15.94	11,100	1953	Feb. 4, 1953	7.02	4,200
1942	Apr. 10, 1942	9.82	7,530	1954	June 18, 1954	5.35	1,880
1943	Dec. 30, 1942		[a]8,380	1955	Oct. 25, 1954	8.05	5,700
1944	Feb. 24, 1944		[a]6,400				
1945	Mar. 9, 1945	10.37	10,200	1956	June 3, 1956	7.62	5,100
				1957	Feb. 13, 1957	6.72	3,810
1946	Jan. 7, 1946	[b]8.88	[c]5,060	1958	May 9, 1958	7.80	5,400
1947	Mar. 15, 1947	8.08	5,650				
1948	Mar. 5, 1948	11.28	13,700				
1949	Jan. 30, 1949	8.42	6,340				
1950	Feb. 4, 1950	8.53	6,500				

[a]Daily discharge.
[b]Backwater from Casselman River.
[c]Daily discharge, occurred Jan. 8, 1946.

780. Casselman River at Grantsville, Md.

Location. --Lat 39°42'08", long 79°08'12", at highway bridge 0.3 mile upstream from Slaubough Run, 0.7 mile downstream from U. S. Highway 40, and 1.0 mile northeast of Grantsville, Garrett County.

Drainage area. --62.5 sq mi.

Gage. --Recording and concrete control. Altitude of gage is 2,090 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 1,600 cfs and extended above on basis on contracted-opening measurement at gage height 8.13 ft and logarithmic plotting.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1948	July 4, 1948	8.13	5,110	1953	Mar. 24, 1953	3.82	1,110
1949	Dec. 15, 1948	4.60	1,690	1954	Mar. 1, 1954	4.50	1,610
1950	Sept. 21, 1950	6.68	3,620	1955	Oct. 15, 1954	10.70	8,400
1951	June 13, 1951	4.80	1,870	1956	Aug. 6, 1956	6.25	3,180
1952	Mar. 11, 1952	5.14	2,180	1957	Feb. 10, 1957	4.80	1,870
				1958	Apr. 6, 1958	4.73	1,810

785. Big Piney Run near Salisbury, Pa.

Location. --Lat 39°43'32", long 79°02'57", on left bank an eighth of a mile upstream from Little Piney Run, a quarter of a mile north of Maryland-Pennsylvania state line and 2½ miles southeast of Salisbury, Somerset County.

Drainage area. --24.5 sq mi.

Gage. --Recording gage. Altitude of gage is 2,240 cfs (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 500 cfs and extended on basis of slope-area measurements.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 450 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1933	Mar. 14, 1933	6.10	1,910	1945	Mar. 6, 1945	4.25	807
	Apr. 19, 1933	4.03	512	Cont.	Sept. 18, 1945	3.96	682
	May 9, 1933	4.03	512		Sept. 23, 1945	4.19	774
1934	Jan. 7, 1934	5.1	968	1946	May 27, 1946	3.72	532
					June 2, 1946	3.68	508
1935	Jan. 22, 1935	3.97	463		June 19, 1946	4.26	813
	Feb. 15, 1935	4.05	494				
				1947	Mar. 14, 1947	3.89	634
1936	Feb. 27, 1936	6.96	850				
	Mar. 11, 1936	5.59	1,420	1948	Jan. 1, 1948	3.97	689
	Mar. 17, 1936	7.50	4,100		Feb. 14, 1948	3.82	592
	Mar. 25, 1936	4.17	543		Apr. 13, 1948	4.26	813
1937	Oct. 17, 1936	4.29	600	1949	Jan. 26, 1949	3.61	466
	Jan. 10, 1937	4.88	915				
	Jan. 23, 1937	4.26	578	1950	Mar. 27, 1950	4.12	796
	Apr. 26, 1937	7.63	4,300		Sept. 21, 1950	—	1,300
1938	Oct. 28, 1937	6.04	1,860	1951	Dec. 7, 1950	4.58	998
					Mar. 30, 1951	3.64	484
1939	Feb. 3, 1939	4.23	578		June 13, 1951	4.10	780
1940	Mar. 30, 1940	4.30	600	1952	Dec. 22, 1951	[b] —	600
	Aug. 27, 1940	5.69	1,510		Jan. 2, 1952	4.30	835
					Mar. 11, 1952	5.13	1,360
1941	Apr. 5, 1941	4.58	745				
	June 4, 1941	5.38	1,260	1953	Nov. 21, 1952	3.95	675
					Jan. 24, 1953	3.78	568
1942	Mar. 9, 1942	4.60	560		Mar. 24, 1953	3.76	556
	Apr. 9, 1942	4.05	494				
	May 16, 1942	4.67	1,050	1954	Mar. 1, 1954	5.58	1,690
	June 5, 1942	4.03	731		July 15, 1954	4.12	735
	June 11, 1942	3.86	616				
	July 1, 1942	4.38	881	1955	Oct. 15, 1954	8.56	6,850
					Dec. 30, 1954	4.40	892
1943	Oct. 15, 1942	6.21	2,250		Mar. 5, 1955	4.46	927
	Dec. 30, 1942	4.46	927		Mar. 22, 1955	3.79	564
	Jan. 18, 1943	3.60	467		May 24, 1955	4.28	824
	Apr. 19, 1943	4.10	780		June 8, 1955	5.64	1,740
	May 21, 1943	5.08	1,330		Aug. 18, 1955	4.38	881
1944	Jan. 28, 1944	[b]7.20	[a]500	1956	Aug. 6, 1956	4.30	835
	Feb. 22, 1944	[b]8.87	[a]600				
	May 7, 1944	3.88	628	1957	Feb. 10, 1957	3.47	443
1945	Feb. 16, 1945	3.88	628	1958	Dec. 26, 1957	3.62	509
	Feb. 27, 1945	4.42	904		Apr. 6, 1958	4.15	765
	Mar. 3, 1945	4.37	875		May 5, 1958	3.93	655

[a] Discharge estimated, occurred during ice jam.
[b] Backwater from ice.

790. Casselman River at Markleton, Pa.

Location. --Lat 39°51'35", long 79°13'40", on right bank at downstream side of highway bridge at Markleton, Somerset County, 2 miles southwest of Casselman, and 7 miles downstream from Coxes Creek.

Drainage area. --382 sq mi.

Gage. --Nonrecording gage prior to Nov. 19, 1940; recording gage thereafter. Datum of gage is 1,655.29 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter and slope-area measurements, and summation of flows at nearby stations.

Bankfull stage. --21 ft.

Remarks. --Base for partial-duration series, 8,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Jan. 7, 1915	8.2	11,800	1933	Mar. 14, 1933	9.8	18,000
	Jan. 19, 1915	7.3	8,820		May 10, 1933	8.5	12,900
	Feb. 2, 1915	8.2	11,800				
	Feb. 15, 1915	8.1	11,500	1934	Jan. 7, 1934	8.1	11,500
	June 2, 1915	7.4	9,140		Aug. 16, 1934	8.7	13,600
1916	Dec. 18, 1915	7.3	8,820	1935	Jan. 22, 1935	7.6	9,800
	Jan. 2, 1916	8.6	13,200				
	Mar. 22, 1916	8.9	14,300	1936	Feb. 26, 1936	8.2	11,800
	Mar. 27, 1916	7.5	9,460		Mar. 12, 1936	7.8	10,500
					Mar. 17, 1936	16.4	35,800
1917	Dec. 28, 1916	7.5	9,460				
	Jan. 22, 1917	10.0	19,000	1937	Jan. 10, 1937	8.3	12,200
	Mar. 12, 1917	8.5	12,900		Jan. 25, 1937	7.3	8,820
					Apr. 26, 1937	9.8	18,000
1918	Feb. 13, 1918	8.4	12,500				
	Feb. 20, 1918	9.2	15,400	1938	Oct. 28, 1937	10.0	19,000
	Feb. 26, 1918	9.70	17,600		Mar. 15, 1938	7.3	8,820
1919	Jan. 2, 1919	7.8	10,500	1939	Feb. 3, 1939	8.7	12,500
1920	Nov. 26, 1919	7.8	10,500	1940	Mar. 31, 1940	7.8	9,950
	Mar. 5, 1920	7.1	8,180		Apr. 20, 1940	7.4	8,880
	Mar. 12, 1920	8.4	12,500				
	Mar. 17, 1920	7.3	8,820	1941	Apr. 5, 1941	6.96	8,370
	June 17, 1920	8.0	11,200		June 5, 1941	10.24	18,700
1921	Mar. 3, 1921	7.5	9,460	1942	Mar. 9, 1942	7.35	9,520
					Apr. 10, 1942	7.09	8,650
1922	Nov. 28, 1921	7.55	9,110				
				1943	Oct. 15, 1942	8.18	12,000
1923	Feb. 2, 1923	6.6	6,620		Dec. 30, 1942	8.42	12,600
1924	Jan. 3, 1924	8.2	11,800	1944	May 7, 1944	6.77	7,830
	Mar. 29, 1924	12.17	33,300				
	Apr. 6, 1924	7.7	10,100	1945	Feb. 16, 1945	7.03	8,380
	May 12, 1924	8.9	14,310		Feb. 27, 1945	8.63	13,300
	June 29, 1924	8.8	13,900		Mar. 3, 1945	7.88	11,000
					Mar. 6, 1945	8.05	11,400
1925	Feb. 12, May 11	6.5	6,320				
				1946	June 2, 1946	7.24	8,940
1926	Nov. 13, 1925	7.4	9,140				
	Jan. 19, 1926	7.5	9,460	1947	June 31, 1947	6.98	8,380
	Feb. 22, 1926	7.4	9,140				
				1948	Jan. 2, 1948	7.24	8,740
1927	Jan. 21, 1927	7.2	8,500		Apr. 13, 1948	8.16	11,800
	June 5, 1927	7.4	9,140		July 4, 1948	7.01	8,170
1928	Oct. 20, 1927	7.7	10,100	1949	Dec. 16, 1948	7.18	8,740
	Apr. 30, 1928	10.0	19,000		Jan. 26, 1949	7.23	8,740
1929	Feb. 26, May 29	7.0	7,860	1950	Mar. 28, 1950	7.55	9,570
1930	Oct. 3, 1929	7.6	9,800	1951	Dec. 8, 1950	7.46	9,270
					June 13, 1951	7.69	10,200
1931	Apr. 4, 1931	7.4	9,140				
				1952	Jan. 26, 1952	7.05	8,170
1932	Apr. 1, 1932	7.2	8,500		Mar. 11, 1952	8.54	12,800

Casselman River at Markleton, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1953	May 31, 1953	7.61	9,940	1956	Feb. 2, 1956	7.24	8,740
1954	Mar. 1, 1954	8.36	12,500	1957	Dec. 14, 1956	7.78	10,600
1955	Oct. 15, 1954	14.06	50,000	1958	Dec. 26, 1957	6.89	8,180
	Dec. 30, 1954	8.05	11,200		May 5, 1958	7.51	9,630
	Mar. 4, 1955	8.45	12,500				
	June 8, 1955	7.30	9,030				

800. Laurel Hill Creek at Ursina, Pa.

Location.--Lat 39°49'15", long 79°19'15", on right bank 500 ft downstream from bridge on State Highway 53, at Ursina, Somerset County, and 2.7 miles upstream from mouth.

Drainage area.--121 sq mi.

Gage.--Nonrecording gage prior to July 18, 1939; recording gage thereafter. Prior to July 18, 1939, at bridge half a mile downstream at datum 6.20 ft lower. Datum of present gage is 1,335.26 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 6,100 cfs and extended on basis of slope-area measurement.

Bankfull stage.--16 ft.

Remarks.--Base for partial-duration series, 3,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	June 28, 1914	6.2	3,250	1925	Jan. 31, 1925	[a]6.0	—
					Feb. 9, 1925	[a]7.9	4,300
1915	Jan. 7, 1915	6.99	4,140		July 22, 1925	6.2	3,220
1916	Dec. 18, 1915	6.1	3,150	1926	Oct. 25, 1925	6.66	3,780
	Jan. 2, 1916	6.6	3,680				
	Mar. 22, 1916	8.0	5,630	1927	Jan. 21, 1927	8.0	5,630
1917	Jan. 22, 1917	8.2	5,970	1928	Oct. 19, 1927	8.2	4,970
	Mar. 12, 1917	6.0	3,050		Dec. 14, 1927	6.4	3,440
	June 7, 1917	7.1	4,270				
				1929	June 28, 1929	5.15	2,170
1918	Feb. 12, 1918	[a]6.3	—				
	Feb. 20, 1918	8.0	5,630	1930	Oct. 3, 1929	7.1	4,270
	Feb. 26, 1918	6.0	3,000				
				1931	Apr. 4, 1931	5.76	2,780
1919	Jan. 2, 1919	6.1	3,110				
				1932	Mar. 31, 1932	5.95	3,000
1920	Nov. 26, 1919	6.2	3,220				
	Mar. 13, 1920	6.8	3,900	1933	Mar. 14, 1933	7.5	4,860
	June 17, 1920	7.2	4,410		May 10, 1933	7.0	4,140
						6.6	3,660
1921	Jan. 23, 1921	6.1	3,110	1934	Aug. 16, 1934		
						6.7	3,910
1922	Nov. 28, 1921	6.3	3,330	1935	May 2, 1935	6.86	4,190
	Dec. 24, 1921	6.31	3,330		Aug. 2, 1935		
						8.4	6,570
1923	July 11, 1923	5.1	2,070	1936	Feb. 27, 1936	6.1	3,150
					Mar. 12, 1936	10.28	10,300
1924	Jan. 3, 1924	[a]7.3	—		Mar. 17, 1936	6.6	3,780
	Feb. 22, 1924	[a]6.6	—		Aug. 30, 1936		
	Mar. 5, 1924	[a]6.8	—				
	Mar. 29, 1924	9.30	8,090	1937	Jan. 10, 1937	6.5	3,650
	May 12, 1924	6.1	3,110		Jan. 18, 1937	6.0	3,030
	June 29, 1924	6.2	3,220		Jan. 22, 1937	6.7	3,910
					Jan. 25, 1937	6.3	3,390
					Apr. 26, 1937	7.5	5,070

Laurel Hill Creek at Ursina, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1938	Oct. 28, 1937	7.6	5,230	1948	Jan. 2, 1948	4.58	3,620
	Dec. 16, 1937	6.3	3,390		Feb. 14, 1948	[a]4.97	—
					Apr. 13, 1948	5.48	5,150
1939	Feb. 3, 1939	7.58	4,910		July 4, 1948	4.63	3,700
1940	Feb. 11, 1940	[a]4.96	—	1949	Dec. 15, 1948	4.64	3,700
	Mar. 30, 1940	6.28	6,510		Jan. 26, 1949	4.80	3,680
	Apr. 20, 1940	4.37	3,340		Aug. 18, 1949	5.20	4,360
1941	Mar. 4, 1941	[a]4.85	—	1950	Apr. 24, 1950	4.31	2,900
	Apr. 5, 1941	4.34	3,260				
	June 4, 1941	7.98	9,400	1951	June 13, 1951	5.53	4,900
1942	Jan. 19, 1942	[a]5.69	—	1952	Jan. 27, 1952	5.54	4,900
	Apr. 9, 1942	4.57	3,580		Mar. 11, 1952	4.91	3,850
1943	Dec. 30, 1942	5.81	5,660	1953	Mar. 24, 1953	3.78	2,180
	Aug. 13, 1943	5.20	4,640				
				1954	Mar. 1, 1954	3.58	1,920
1944	Jan. 28, 1944	[a]5.62	—		Sept. 15, 1954	3.62	1,920
	Apr. 23, 1944	4.24	3,100				
				1955	Oct. 15, 1954	10.63	10,900
1945	Feb. 11, 1945	[a]6.13	—		Dec. 30, 1954	5.80	4,690
	Feb. 27, 1945	5.60	5,320		Mar. 1, 1955	5.31	4,040
	Mar. 3, 1945	5.43	4,980		Mar. 4, 1955	6.31	5,340
	Mar. 6, 1945	5.96	6,000				
				1956	Feb. 3, 1956	4.60	3,130
1946	Jan. 7, 1946	4.78	3,960		Aug. 6, 1956	7.04	6,250
	Feb. 15, 1946	[a]5.53	—				
	June 2, 1946	5.12	4,470	1957	Dec. 14, 1956	4.24	2,700
	June 19, 1946	4.53	3,540				
				1958	May 4, 1958	4.43	2,940
1947	Mar. 14, 1947	[a]5.55	—				
	June 8, 1947	4.97	4,220				
	July 31, 1947	5.87	5,830				

[a]Backwater from ice.

810. Youghiogheny River below Confluence, Pa.

Location.--Lat 39°49'40", long 79°22'25", on left bank 1.0 mile downstream from Casselman River and 1½ miles downstream from Confluence, Somerset County.

Drainage area.--1,029 sq mi.

Gage.--Recording gage. Datum of gage is 1,302.77 ft above mean sea level, unadjusted.

Stage-discharge relation.--Defined by current-meter measurements below 25,000 cfs and extended on basis of slope-area measurement.

Bankfull stage.--25 ft.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 4, 1941	16.42	43,800	1951	June 13, 1951	9.94	16,200
1942	Apr. 10, 1942	10.45	17,800	1952	Mar. 11, 1952	10.69	18,900
1943	Dec. 30, 1942	12.17	24,500	1953	May 31, 1953	8.22	11,400
1944	Mar. 25, 1944	9.18	14,100	1954	Mar. 1, 1954	9.30	14,400
1945	Feb. 27, 1945	11.50	21,700	1955	Oct. 15, 1954	19.92	69,500
1946	Jan. 7, 1946	9.67	15,600	1956	Aug. 6, 1956	9.82	15,900
1947	July 31, 1947	8.98	13,600	1957	Dec. 14, 1956	9.49	15,000
1948	Apr. 13, 1948	10.50	18,200	1958	May 5, 1958	9.53	15,000
1949	Jan. 26, 1949	9.00	13,600				
1950	Mar. 28, 1950	8.99	13,600				

815. Youghiogheny River at Ohiopyle, Pa.

Location. --Lat 39°52'15", long 79°29'51", at steel highway bridge in Ohiopyle, Fayette County, 0.6 mile upstream from Beaver Creek.

Drainage area. --1,062 sq mi.

Gage. --Recording gage. Datum of gage is 1,198.91 ft above mean sea level, unadjusted (furnished by West Penn Power Co.).

Stage-discharge relation. --Defined by current-meter measurements below 15,100 cfs and extended by velocity-area studies.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1928	May 1, 1928	8.23	32,300	1941	June 5, 1941	9.34	40,400
1929	Feb. 27, 1929	6.28	18,100	1942	Apr. 10, 1942	6.69	19,400
1930	Oct. 3, 1929	7.33	25,200	1943	Dec. 30, 1942	7.72	26,600
				1944	Mar. 25, 1944	6.02	15,200
1931	Apr. 4, 1931	6.27	16,700	1945	Feb. 27, 1945	—	24,400
1932	Apr. 1, 1932	7.11	22,200				
1933	Mar. 14, 1933	8.94	36,800	1946	Jan. 7, 1946	6.34	17,300
1934	Jan. 7, 1934	7.03	21,800	1947	July 31, 1947	5.71	13,400
1935	Jan. 22, 1935	7.18	22,900	1948	Apr. 13, 1948	6.70	19,400
				1949	Jan. 26, 1949	5.92	14,600
1936	Mar. 18, 1936	13.30	82,100	1950	Mar. 28, 1950	5.86	14,300
1937	Apr. 26, 1937	10.74	54,200				
1938	Oct. 28, 1937	8.88	36,300				
1939	Feb. 3, 1939	8.15	30,100				
1940	Mar. 31, 1940	7.79	27,400				

825. Youghiogheny River at Connellsville, Pa.

Location. --Lat 40°01'05", long 79°35'40", on left bank at downstream side of Crawford Avenue Bridge in Connellsville, Fayette County, three-quarters of a mile upstream from Mounts Creek.

Drainage area. --1,326 sq mi.

Gage. --Nonrecording gage prior to Aug. 15, 1928; recording gage thereafter. Datum of gage is 860.13 ft above mean sea level (Baltimore and Ohio RR benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 55,000 cfs and extended by logarithmic plotting.

Bankfull stage. --16 ft.

Remarks. --Only annual peaks are shown. Flow regulated. Prior to 1907 records from Weather Bureau.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1860	Apr. 12, 1860	16.5	47,000	1901	Nov. 26, 1900	11.7	28,200
				1902	Feb. 28, 1902	15.8	44,200
1888	Aug. 21-22, 1888	17.8	52,000	1903	Feb. 28, 1903	12.7	32,100
				1904	Mar. 1, 1904	13.7	36,000
1891	Feb. 17, 1891	14.7	39,900	1905	Mar. 21, 1905	12.0	29,400
1892	Jan. 15, 1892	10.2	22,400				
1893	Feb. 11, 1893	9.8	20,800	1906	Jan. 23, 1906	10.9	25,100
1894	Feb. 10, 1894	8.9	17,400	1907	Mar. 14, 1907	18.4	54,400
1895	Jan. 8, 1895	12.0	29,400	1908	Feb. 15, 1908	14.4	44,600
				1909	Feb. 24, 1909	9.36	19,100
1896	July 25, 1896	15.0	41,100	1910	June 19, 1910	13.09	36,300
1897	Feb. 23, 1897	16.7	47,700				
1898	Aug. 11, 1898	11.2	26,300	1911	Jan. 14, 1911	12.68	33,900
1899	May 18, 1899	13.0	33,300	1912	Mar. 21, 1912	17.28	66,000
				1913	Jan. 8, 1913	13.50	38,800
				1914	Nov. 16, 1913	11.50	27,400
				1915	Jan. 7, 1915	12.13	31,100

Youghiogheny River at Connellsville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Mar. 22, 1916	15.0	48,700	1936	Mar. 18, 1936	20.28	92,500
1917	Jan. 22, 1917	15.2	50,000	1937	Apr. 26, 1937	15.87	55,100
1918	Feb. 20, 1918	14.0	42,000	1938	Oct. 28, 1937	14.35	44,600
1919	Jan. 1, 1919	11.51	27,700	1939	Feb. 3, 1939	13.37	38,200
1920	Mar. 13, 1920	12.13	30,000	1940	Mar. 31, 1940	13.16	37,000
1921	Mar. 3, 1921	10.1	22,400	1941	June 5, 1941	17.02	63,600
1922	Dec. 24, 1921	11.5	27,700	1942	Mar. 9, 1942	10.62	23,700
1923	Feb. 2, 1923	8.9	18,000	1943	Dec. 30, 1942	12.80	34,800
1924	Mar. 29, 1924	20.5	84,000	1944	Mar. 25, 1944	9.20	17,900
1925	May 10, 1925	9.70	20,900	1945	Feb. 27, 1945	12.42	32,600
1926	Feb. 23, 1926	10.4	23,000	1946	June 2, 1946	10.7	24,200
1927	Jan. 22, 1927	11.8	29,100	1947	July 31, 1947	8.75	16,400
1928	May 1, 1928	13.7	39,000	1948	Apr. 13, 1948	11.40	27,900
1929	Feb. 27, 1929	10.17	19,200	1949	Jan. 26, 1949	9.81	20,300
1930	Oct. 3, 1929	12.0	30,700	1950	Mar. 28, 1950	8.94	16,700
1931	Apr. 4, 1931	9.95	21,400	1951	June 13, 1951	10.62	23,700
1932	Apr. 1, 1932	11.00	25,900	1952	Jan. 27, Mar. 11	10.64	23,700
1933	Mar. 14, 1933	14.9	46,900	1953	Mar. 24, 1953	7.94	12,800
1934	Mar. 4, 1934	10.77	25,000	1954	Mar. 1, 1954	9.21	17,900
1935	Jan. 22, 1935	10.83	25,000	1955	Oct. 16, 1954	21.96	103,000
				1956	Aug. 6, 1956	13.98	42,400
				1957	Dec. 14, 1956	10.18	21,900
				1958	May 6, 1958	9.72	19,900

830. Green Lick Run at Green Lick Reservoir, Pa.

Location. --Lat 40°06'20", long 79°30'05", on left bank at upstream end of Green Lick Reservoir, Fayette County, 1.3 miles upstream from Latter Run and 2½ miles southeast of Mount Pleasant.

Drainage area. --3.07 sq mi.

Gage. --Recording gage. Datum of gage is 1,254.7 ft above mean sea level (Pennsylvania Railroad benchmark).

Stage-discharge relation. --Defined by current-meter measurements. Maximum discharge of record determined by slope-area measurement.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 130 cfs. Only annual peaks are shown for 1929-41.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1929	Feb. 26, 1929	2.21	126	1939	Feb. 3, 1939	2.40	174
1930	Oct. 2, 1929	2.69	266	1940	Mar. 30, 1940	2.73	282
1931	May 7, 1931	2.77	298	1941	June 4, 1941	3.20	520
1932	Mar. 31, 1932	2.32	153	1942	Mar. 9, 1942	2.72	278
1933	Mar. 13, 1933	2.67	260		Aug. 28, 1942	2.24	134
1934	Mar. 3, 1934	2.44	186	1943	Dec. 29, 1942	2.48	197
1935	Aug. 2, 1935	2.85	332		Aug. 13, 1943	[a]5.1	1,400
1936	Mar. 17, 1936	3.18	508	1944	May 24, 1944	[a]5.42	590
1937	Apr. 25, 1937	2.46	191	1945	Dec. 25, 1944	2.53	213
1938	July 18, 1938	3.21	526		Feb. 27, 1945	2.28	143
					Mar. 6, 1945	2.54	216

Green Lick Run at Green Lick Reservoir, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1946	June 2, 1946	2.40	174	1953	May 6, 1953	2.32	153
	July 1, 1946	3.24	546	1954	Aug. 16, 1954	3.11	466
1947	June 7, 1947	2.70	270	1955	Oct. 15, 1954	5.06	860
	July 31, 1947	2.68	263		Dec. 29, 1954	2.52	209
1948	Feb. 14, 1948	2.36	164		Mar. 1, 1955	2.31	151
	Apr. 12, 1948	2.40	174		June 8, 1955	2.58	229
	July 4, 1948	2.33	156	1956	Jan. 30, 1956	2.26	138
1949	Aug. 18, 1949	2.66	256		Feb. 2, 1956	2.25	136
1950	Dec. 12, 1949	2.34	158		Mar. 7, 1956	2.54	216
	Jan. 6, 1950	2.43	183		Apr. 3, 1956	2.40	174
1951	Dec. 3, 1950	2.30	148		Aug. 5, 1956	2.83	324
	Feb. 1, 1951	2.42	180		Sept. 6, 1956	2.73	282
	Apr. 29, 1951	2.49	200	1957	Apr. 18, 1957	1.93	74
	June 13, 1951	2.70	270	1958	May 3, 1958	2.10	103
1952	Jan. 27, 1952	2.50	203				
	May 25, 1952	2.61	238				
	June 22, 1952	2.28	143				

[a]Backwater from debris.

835. Youghiogheny River at Sutersville, Pa.

Location. --Lat 40°14'25", long 79°48'25", on left bank 500 ft upstream from highway bridge at Sutersville, Westmoreland County, and 2.1 miles downstream from Sewickley Creek.

Drainage area. --1,715 sq mi.

Gage. --Nonrecording gage prior to May 31, 1939; recording gage thereafter. Prior to May 31, 1939, at site 500 ft downstream. Datum of gage is 733.36 ft above mean sea level, datum of 1929, supplementary adjustment of 1944.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --20 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1921	Mar. 3, 1921	12.8	22,000	1941	June 5, 1941	27.34	78,000
1922	Nov. 29, 1921	19.1	47,200	1942	Apr. 10, 1942	14.46	29,400
1923	Feb. 14, 1923	11.4	17,600	1943	Dec. 30, 1942	19.86	49,500
1924	Mar. 30, 1924	28.0	80,800	1944	Mar. 24, 1944	12.15	21,800
1925	Feb. 8, 1925	12.26	20,400	1945	Mar. 7, 1945	18.84	45,300
1926	Feb. 23, 1926	12.5	21,100	I946	June 2, 1946	14.61	29,900
1927	Jan. 22, 1927	14.50	28,500	1947	June 8, 1947	11.59	20,000
1928	Oct. 20, 1927	18.50	45,000	1948	Apr. 14, 1948	17.13	36,800
1929	Feb. 27, 1929	12.17	20,500	1949	Jan. 27, 1949	13.38	24,300
1930	Oct. 3, 1929	16.9	36,200	1950	Jan. 7, 1950	11.43	18,100
1931	Apr. 4, 1931	14.0	26,700	1951	June 14, 1951	14.99	29,500
1932	Apr. 1, 1932	15.3	31,500	1952	Jan. 27, 1952	16.07	33,200
1933	Mar. 14, 1933	21.06	56,900	1953	Mar. 24, 1953	10.44	15,300
1934	Mar. 4, 1934	23.0	31,000	1954	Mar. 2, 1954	12.02	19,900
1935	Jan. 22, 1935	15.3	30,800	1955	Oct. 16, 1954	32.5	108,000
1936	Mar. 18, 1936	30.65	100,000	1956	Aug. 6, 1956	21.30	52,800
1937	Apr. 26, 1937	22.8	59,000	1957	Dec. 15, 1956	13.18	23,400
1938	Oct. 29, 1937	20.3	49,000	1958	May 6, 1958	12.66	21,900
1939	Feb. 4, 1939	18.5	42,000				
1940	Mar. 31, 1940	18.40	41,600				

840. Abers Creek near Murrysville, Pa.

Location. --Lat 40°27'01", long 79°42'50", on right bank at downstream side of highway bridge, 30 ft upstream from small tributary, 2 miles northwest of Murrysville, Westmoreland County, and 5¼ miles northwest of Export.

Drainage area. --4.39 sq mi.

Gage. --Recording gage. Prior to October 1, 1950 at site 800 ft upstream at different datum. Datum of present gage is 936.73 ft above mean sea level (Pennsylvania Department of Highway benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 200 cfs and extended above by contracted-opening determination of peak flow.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 5, 1949	2.41	135	1953	July 5, 1953	4.67	308
1950	June 3, 1950	3.19	272	1954	Apr. 16, 1954	4.29	226
	June 25, 1950	3.24	283				
	July 5, 1950	6.09	1,600	1955	Oct. 15, 1954	6.68	950
1951	Dec. 3, 1950	4.51	274	1956	Feb. 25, 1956	5.40	500
	Jan. 15, 1951	5.32	490		July 21, 1956	4.70	310
	May 17, 1951	4.88	372		Aug. 5, 1956	4.27	224
	June 13, 1951	5.14	445				
	July 22, 1951	4.28	231	1957	Apr. 4, 1957	4.28	226
					Apr. 5, 1957	4.74	322
1952	Jan. 26, 1952	4.94	386				
	Mar. 11, 1952	4.22	221	1958	July 22, 1958	4.72	320
	June 22, 1952	6.59	1,000		Aug. 1, 1958	4.40	260

845. Turtle Creek at Trafford, Pa.

Location. --Lat 40°23'15", long 79°45'55", at Trafford, Westmoreland County, 500 ft upstream from Brush Creek and 5.8 miles upstream from mouth.

Drainage area. --55.9 sq mi.

Gage. --Nonrecording gage prior to Nov. 12, 1938; recording gage Nov. 13, 1938 to Sept. 2, 1946; nonrecording gage Sept. 3, 1946 to Nov. 12, 1947; recording gage thereafter. Prior to Oct. 1, 1938 gage at site 1 mile upstream at different datum; Oct. 1, 1938 to Sept. 2, 1946 gage at present site and datum; Sept. 3, 1946 to Nov. 12, 1947 gage at site 50 ft downstream at datum 4.0 ft lower. Datum of gage is 765.08 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 3,000 cfs and extended on basis of slope-area measurement.

Remarks. --Base for partial-duration series, 1,200 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Jan. 22, 1917	4.5	1,530	1923	May 12, 1923	5.2	1,950
1918	Oct. 19, 1917	4.6	1,590	1924	Jan. 3, 1924	4.4	1,470
	Feb. 11, 1918	4.2	1,350		May 12, 1924	4.2	1,350
					June 29, 1924	6.2	2,650
1919	July 15, 1919	7.10	3,280				
				1925	Feb. 7, 1925	—	[a]800
1920	Nov. 26, 1919	6.6	2,930				
	June 17, 1920	4.9	1,770	1926	Jan. 18, 1926	4.2	1,350
					Feb. 14, 1926	4.0	1,230
1921	Mar. 6, 1921	3.3	860		Feb. 25, 1926	4.0	1,230
					Sept. 5, 1926	5.4	2,090
1922	Nov. 28, 1921	4.8	1,710				

Turtle Creek at Trafford, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1927	Feb. 25, 1927	5.0	1,830
	Mar. 20, 1927	4.0	1,230
1928	Oct. 19, 1927	—	[b]2,200
	Nov. 28, 1927	—	[b]1,400
	Dec. 14, 1927	—	[b]1,400
	Mar. 30, 1928	5.4	2,090
	July 5, 1928	6.4	2,790
	July 13, 1928	5.6	2,230
1929	Feb. 26, 1929	6.8	3,070
	Apr. 16, 1929	4.4	1,470
1930	Feb. 26, 1930	5.00	1,830
1931	Apr. 3, 1931	5.4	2,090
	June 23, 1931	4.2	1,330
1932	Dec. 24, 1931	3.8	1,090
1933	Jan. 26, 1933	4.3	1,390
	Mar. 15, 1933	8.5	4,420
	Apr. 12, 1933	5.0	1,810
	May 10, 1933	7.2	3,380
	May 14, 1933	4.7	1,630
	July 24, 1933	5.8	2,370
	Aug. 10, 1933	4.7	1,630
1934	Mar. 4, 1934	4.4	1,450
	Apr. 4, 1934	4.1	1,270
	Aug. 9, 1934	6.0	2,510
	Aug. 11, 1934	4.9	1,750
	Sept. 29, 1934	4.8	1,690
1935	Feb. 26, 1935	4.1	1,270
	Mar. 12, 1935	4.1	1,270
	Aug. 3, 1935	6.98	3,220
1936	Jan. 9, 1936	4.0	1,210
	Feb. 25, 1936	7.0	3,220
	Mar. 17, 1936	7.65	3,700
1937	Oct. 10, 1936	5.0	1,830
	Nov. 4, 1936	5.2	1,950
	Jan. 15, 1937	6.0	2,150
	Jan. 18, 1937	4.5	1,530
	Jan. 22, 1937	5.8	2,370
	Jan. 24, 1937	5.4	2,090
	Apr. 25, 1937	5.9	2,440
	July 16, 1937	4.8	1,710
1938	Dec. 17, 1937	4.5	1,530
1939	Jan. 30, 1939	5.37	1,360
1940	Mar. 4, 1940	5.19	1,245
	Mar. 30, 1940	5.40	1,385
	Apr. 3, 1940	5.23	1,290
1940 Cont.	Apr. 20, 1940	6.65	2,380
	May 31, 1940	5.46	1,420
	Aug. 6, 1940	5.33	1,360
1941	June 5, 1941	5.31	1,320
	Aug. 15, 1941	5.62	1,540
	Aug. 26, 1941	6.31	2,110
1942	Mar. 9, 1942	5.40	1,390
	Apr. 9, 1942	6.85	2,570
1943	Oct. 15, 1942	5.70	1,610
	Nov. 1, 1942	5.45	1,420
	Dec. 30, 1942	8.20	4,040
	May 25, 1943	5.68	1,610
	July 22, 1943	5.67	1,570
	July 28, 1943	6.25	2,080
1944	Mar. 12, 1944	5.19	1,260
1945	Jan. 1, 1945	5.15	1,220
	Mar. 6, 1945	6.73	2,480
1946	Mar. 15, 1946	5.42	1,390
	May 27, 1946	10.05	5,200
	June 2, 1946	6.73	1,630
1947	June 8, 1947	6.40	1,520
1948	Feb. 14, 1948	6.62	2,200
	Apr. 12, 1948	6.84	2,430
	Apr. 14, 1948	6.98	2,580
	June 13, 1948	5.77	1,450
	June 26, 1948	6.72	2,280
1949	Dec. 15, 1948	5.23	1,040
1950	Jan. 6, 1950	5.52	1,230
	June 3, 1950	6.13	1,770
	June 25, 1950	7.33	2,860
	July 5, 1950	9.21	4,430
1951	Dec. 3, 1950	6.99	2,580
	Dec. 8, 1950	5.70	1,390
	Jan. 15, 1951	7.56	3,140
	Feb. 1, 1951	6.30	1,900
	Feb. 7, 1951	5.65	1,350
	Mar. 7, 1951	5.53	1,270
	June 10, 1951	5.88	1,560
	June 13, 1951	6.64	2,230
	June 28, 1951	6.43	2,040
	July 23, 1951	5.60	1,310
1952	Dec. 21, 1951	6.44	1,230
	Jan. 26, 1952	8.29	2,670
	Feb. 4, 1952	6.79	1,470
	Apr. 13, 1952	6.46	1,230
	June 22, 1952	7.33	1,880

[a]Estimated maximum discharge.
[b]Mean daily discharge.

850. Monongahela River at Braddock, Pa.

Location. --Lat 40°23'30", long 79°51'30", near right bank on river guide wall 380 ft upstream from dam at lock 2, at Braddock, Allegheny County, 1,700 ft downstream from Turtle Creek and 11.2 miles upstream from confluence with Allegheny River.

Drainage area. --7,337 sq mi.

Gage. --Recording gage. Prior to Aug. 13, 1951, at site 700 ft upstream. Datum of gage is 707.16 ft above mean sea level, adjustment of 1929.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --26 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1936	Mar. 18, 1936	38.8	210,000	1948	Apr. 14, 1948	26.22	144,000
1939	Feb. 4, 1939	27.2	147,000	1949	Dec. 16, 1948	24.99	130,000
1940	Apr. 20, 1940	23.86	115,000	1950	Feb. 1, 1950	23.07	102,000
1941	June 5, 1941	31.20	201,000	1951	Feb. 2, 1951	25.3	129,000
1942	Apr. 10, 1942	21.23	81,800	1952	Jan. 28, 1952	23.09	118,000
1943	Dec. 30, 1942	29.96	170,000	1953	May 8, 1953	20.16	68,500
1944	Mar. 24, 1944	21.18	81,800	1954	Mar. 2, 1954	18.43	46,100
1945	Mar. 7, 1945	27.22	134,000	1955	Oct. 16, 1954	30.63	200,000
1946	June 3, 1946	22.42	96,200	1956	Aug. 6, 1956	26.57	164,000
1947	Mar. 15, 1947	19.21	53,900	1957	Feb. 11, 1957	22.34	112,000
				1958	May 6, 1958	21.24	84,900

CHARTIERS CREEK BASIN

855. Chartiers Creek at Carnegie, Pa.

Location. --Lat 40°24'00", long 80°05'55", on right bank 200 ft upstream from highway bridge at Carnegie, Allegheny County, 0.2 mile downstream from Robinson Run, and 9.0 miles upstream from mouth.

Drainage area. --257 sq mi.

Gage. --Nonrecording gage prior to Sept. 30, 1933; recording gage thereafter. Prior to Dec. 15, 1931, gage at site half a mile downstream at different datum. Jan. 8, 1932 to October 26, 1936, gage at site 1 mile downstream at different datum. Datum of present gage is 762.03 ft above mean sea level, datum of 1929, supplementary adjustment of 1944 (Pennsylvania Railroad benchmark).

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --15 ft.

Remarks. --Base for partial-duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 29, 1915	10.0	5,400	1920	Nov. 2, 1919	8.5	3,950
	Feb. 25, 1916	7.2	2,860		Nov. 27, 1919	12.3	7,860
	Mar. 7, 1916	7.4	3,020		Dec. 9, 1919	7.9	3,420
	Mar. 22, 1916	11.1	6,510		Dec. 13, 1919	7.5	3,100
					Jan. 9, 1920	6.9	2,630
1917	Jan. 5, 1917	6.9	2,630		Jan. 21, 1920	8.1	3,590
	Jan. 22, 1917	[a]12.0	—		Apr. 21, 1920	6.8	2,560
	Mar. 11, 1917	7.6	3,180		June 17, 1920	16.1	12,800
1918	Feb. 9, 1918	[a]10.5	—	1921	Mar. 7, 1921	8.5	3,950
	Feb. 20, 1918	7.2	2,860		Sept. 21, 1921	11.5	6,950
	Feb. 26, 1918	7.4	3,020				
				1922	Nov. 28, 1921	7.9	3,420
1919	Jan. 2, 1919	7.0	2,700		Dec. 24, 1921	8.5	3,950
	July 15, 1919	8.2	3,680		Apr. 1, 1922	9.61	5,000
					Apr. 15, 1922	9.2	4,600

Chartiers Creek at Carnegie, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Apr. 14, 1923	7.1	2,780
	May 13, 1923	8.5	3,950
1924	Dec. 23, 1923	9.0	4,400
	Jan. 3, 1924	9.9	5,300
	Jan. 11, 1924	7.4	3,020
	Jan. 16, 1924	9.1	4,500
	Mar. 5, 1924	7.6	3,180
	Mar. 29, 1924	10.0	5,400
	May 12, 1924	8.8	4,220
	June 29, 1924	10.2	5,600
	Sept. 29, 1924	7.9	3,420
1925	Feb. 7, 1925	6.0	2,050
1926	Feb. 15, 1926	8.8	4,220
	Feb. 19, 1926	8.9	4,310
	Feb. 25, 1926	8.6	4,040
	Sept. 5, 1926	11.3	6,560
1927	Nov. 16, 1926	10.5	5,650
	Jan. 22, 1927	8.7	3,810
	Feb. 24, 1927	7.2	2,540
	Mar. 21, 1927	8.2	3,360
	June 5, 1927	9.9	4,990
1928	Nov. 17, 1927	9.8	4,880
	Nov. 28, 1927	7.6	2,860
	Dec. 16, 1927	9.8	4,880
	Feb. 15, 1928	8.0	3,180
	Mar. 30, 1928	11.0	6,200
	June 22, 1928	12.22	7,660
	July 5, 1928	8.1	3,270
	July 14, 1928	10.8	5,980
	July 21, 1928	9.0	4,080
1929	Feb. 26, 1929	12.20	7,660
	Apr. 17, 1929	7.2	2,540
1930	Nov. 18, 1929	9.2	4,280
	Feb. 26, 1930	7.6	2,860
1931	Apr. 4, 1931	10.03	5,100
1932	Jan. 30, 1932	4.8	2,390
1933	Jan. 26, 1933	5.6	3,010
	Mar. 15, 1933	10.0	8,200
	Mar. 21, 1933	6.7	4,150
	Apr. 12, 1933	7.0	4,480
	May 10, 1933	6.7	4,150
1936	Mar. 17, 1936	11.0	[b]9,600
1941	June 5, 1941	6.85	3,090
1942	Mar. 9, 1942	8.17	4,380
	Mar. 17, 1942	8.00	4,180
	Apr. 9, 1942	11.00	7,380
1943	Dec. 30, 1942	12.30	8,700
	Apr. 20, 1943	6.20	2,580
	July 28, 1943	11.14	7,020
1944	Mar. 7, 1944	8.88	4,850
	Mar. 24, 1944	7.18	3,230
1945	Jan. 1, 1945	8.48	4,450
	Feb. 14, 1945	7.02	3,050
	Feb. 22, 1945	7.16	3,230
	Mar. 3, 1945	7.10	3,140
	Mar. 6, 1945	13.49	12,200
	May 17, 1945	8.89	4,920
1946	May 27, 1946	6.14	2,270
1947	June 8, 1947	8.33	4,280
1948	Feb. 14, 1948	7.00	3,050
	Apr. 14, 1948	8.94	4,920
	June 12, 1948	6.81	2,870
1949	Dec. 16, 1948	6.86	2,960
	Jan. 28, 1949	6.57	2,690
1950	Jan. 7, 1950	6.73	2,780
	Mar. 23, 1950	6.67	2,780
	June 25, 1950	8.39	4,160
	July 5, 1950	9.41	5,100
	Sept. 22, 1950	7.10	3,030
1951	Nov. 4, 1950	7.15	3,110
	Dec. 4, 1950	11.31	7,160
	Dec. 8, 1950	8.82	4,520
	Jan. 15, 1951	10.80	6,560
	Feb. 1, 1951	7.52	3,350
	Feb. 7, 1951	6.95	2,950
	Mar. 7, 1951	7.15	3,110
	Apr. 29, 1951	6.81	2,790
	June 25, 1951	6.55	2,650
	June 28, 1951	6.85	2,810
1952	Jan. 27, 1952	10.33	6,000
	Feb. 5, 1952	7.18	3,110
1953	May 7, 1953	7.07	3,030
1954	June 16, 1954	8.08	3,890
1955	Oct. 16, 1954	11.55	7,520
	Feb. 7, 1955	7.64	3,340
	Mar. 4, 1955	9.15	4,900
	Aug. 13, 1955	7.77	3,520
1956	Nov. 16, 1955	7.88	3,610
	Feb. 7, 1956	7.43	3,160
	Feb. 18, 1956	6.87	2,720
	Feb. 25, 1956	8.84	4,500
	Mar. 8, 1956	8.59	4,300
	June 19, 1956	7.46	3,250
	June 25, 1956	7.52	3,250
	Aug. 6, 1956	16.37	13,500
1957	Apr. 4, 1957	10.74	5,630
1958	May 4-5, 1958	6.28	2,770
	Aug. 4, 1958	7.77	3,820

[a] Backwater from ice.
[b] Annual peak only.

860. Ohio River at Sewickley, Pa.

Location. --Lat 40°31'50", long 80°11'20", on left bank 200 ft upstream from highway bridge at Sewickley, Allegheny County, 0.5 mile upstream from Narrows Run, 1.5 miles upstream from Dashields Dam, and 11.8 miles downstream from confluence of Allegheny and Monongahela Rivers.

Drainage area. --19,500 sq mi.

Gage. --Nonrecording gage prior to Nov. 22, 1933; recording gage thereafter. Datum of gage is 690.00 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1934	Mar. 6, 1934	12.51	202,000	1946	June 3, 1946	13.57	195,000
1935	Mar. 13, 1935	15.7	225,000	1947	Apr. 7, 1947	10.68	155,000
				1948	Apr. 15, 1948	19.89	277,000
1936	Mar. 18, 1936	34.75	574,000	1949	Dec. 17, 1948	13.11	189,000
1937	Apr. 27, 1937	23.93	334,000	1950	Mar. 29, 1950	11.86	172,000
1938	Dec. 19, 1937	17.07	242,000				
1939	Feb. 4, 1939	15.50	222,000	1951	Dec. 5, 1950	18.58	259,000
1940	Apr. 21, 1940	18.73	262,000	1952	Jan. 28, 1952	20.27	282,000
				1953	June 1, 1953	9.80	137,000
1941	June 5, 1941	16.68	234,000	1954	Mar. 4, 1954	9.75	137,000
1942	Mar. 10, 1942	13.54	194,000	1955	Oct. 16, 1954	22.76	318,000
1943	Dec. 31, 1942	27.39	400,000				
1944	Mar. 18, 1944	10.95	159,000	1956	Mar. 9, 1956	16.34	230,000
1945	Mar. 7, 1945	23.61	331,000	1957	Feb. 11, 1957	12.86	168,000
				1958	May 9, 1958	10.54	152,000

BEAVER RIVER BASIN

1000. Shenango River near Turnerville, Pa.

Location. --Lat 41°30'45", long 80°28'25", at single-span steel highway bridge half a mile east of Turnerville, Crawford County.

Drainage area. --152 sq mi.

Gage. --Recording gage prior to Oct. 1, 1918; nonrecording gage thereafter. Prior to Oct. 1, 1919 at datum 5.62 ft higher. Datum of gage 970.00 ft above mean sea level.

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Mar. 19, 1912	12.5	2,970	1918	Mar. 15, 1918	7.6	3,450
1913	Mar. 26, 1913	16.4	11,000	1919	May 11, 1919	6.92	2,900
1914	May 13, 1914	7.1	2,930	1920	Mar. 13, 1920	13.4	4,180
1915	Feb. 3, 1915	7.1	2,930				
				1921	Mar. 29, 1921	10.8	1,610
1916	Mar. 28, 1916	8.2	4,180	1922	Nov. 3, 1921	11.5	2,040
1917	Jan. 7, 1917	6.5	2,340				

1010. Sugar Run at Pymatuning Dam, Pa.

Location. --Lat 41°29'50", long 80°27'55", on right bank at highway bridge at Pymatuning Dam, Crawford County, a quarter of a mile upstream from mouth, and 1 3/4 miles northwest of Jamestown.

Drainage area. --9.34 sq mi.

Gage. --Nonrecording gage prior to Oct. 17, 1938; recording gage thereafter. Datum of gage is 984.58 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 500 cfs and extended on basis of slope-area measurement.

Bankfull stage. --4 ft.

Remarks. --Base for partial-duration series, 250 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Aug. 15, 1935	2.95	405	1946	Oct. 23, 1945	2.70	290
					Feb. 27, 1946	3.20	417
1936	Mar. 24, 1936	4.0	820		May 21, 1946	2.63	273
1937	Jan. 15, 1937	2.5	280	1947	Mar. 14, 1947	[a]3.64	—
	Jan. 18, 1937	2.6	309		Apr. 5, 1947	3.58	635
	Jan. 21, 1937	4.1	870		May 25, 1947	2.60	266
	Jan. 24, 1937	4.3	970		June 2, 1947	3.71	680
	Apr. 26, 1937	3.3	518		July 14, 1947	3.47	576
	Sept. 4, 1937	6.8	2,800		July 17, 1947	4.50	1,070
1938	Dec. 18, 1937	3.5	500	1948	Feb. 14, 1948	[a]2.88	300
	Mar. 5, 1938	3.2	417		Mar. 19, 1948	3.05	377
	Mar. 17, 1938	2.6	266		Apr. 28, 1948	3.11	390
	Apr. 8, 1938	3.1	390				
				1949	Mar. 23, 1949	2.09	156
1939	Feb. 19, 1939	2.54	252				
	Feb. 28, 1939	2.70	290	1950	Jan. 16, 1950	2.67	302
	Mar. 12, 1939	2.58	261		Feb. 13, 1950	2.96	388
					Mar. 26, 1950	3.10	431
1940	Jan. 14, 1940	[a]3.66	—		Apr. 4, 1950	2.86	357
	Feb. 12, 1940	[a]4.15	—		Apr. 25, 1950	2.59	280
	Mar. 3, 1940	[a]3.96	—		June 3, 1950	3.42	524
	Mar. 18, 1940	[a]4.60	—				
	Apr. 20, 1940	3.65	542	1951	Dec. 3, 1950	3.58	586
	May 31, 1940	2.73	297		Dec. 7, 1950	2.58	278
					Jan. 3, 1951	2.79	336
1941	Aug. 26, 1941	2.37	214		Feb. 12, 1951	2.53	265
					June 13, 1951	2.88	363
1942	Feb. 16, 1942	[a]2.75	—				
	Mar. 9, 1942	[a]2.86	—	1952	Nov. 23, 1951	2.61	287
	Mar. 16, 1942	4.39	1,020		Jan. 18, 1952	3.34	561
	Apr. 10, 1942	2.93	386		Jan. 26, 1952	4.17	856
	May 16, 1942	2.92	383		Feb. 4, 1952	2.86	364
					Mar. 11, 1952	2.50	257
1943	Feb. 11, 1943	2.85	326				
	Apr. 19, 1943	2.78	309	1953	Jan. 18, 1953	2.01	145
	May 8, 1943	2.76	304				
				1954	Mar. 1, 1954	3.68	696
1944	Apr. 11, 1944	3.18	417		Apr. 16, 1954	2.74	325
	May 23, 1944	2.81	316				
				1955	Oct. 15, 1954	5.84	1,970
1945	Feb. 22, 1945	[a]4.57	950		Dec. 18, 1954	2.54	268
					Mar. 4, 1955	3.07	434
					Apr. 25, 1955	2.94	390
					Aug. 11, 1955	3.77	702

[a]Backwater from ice.

1015. Shenango River at Pymatuning Dam, Pa.

Location. --Lat 41°29'55", long 80°27'30", on left bank 500 ft downstream from Sugar Run, 550 ft downstream from Pymatuning Dam, Crawford County, and 1½ miles northwest of Jamestown.

Drainage area. --167 sq mi.

Gage. --Recording gage. Datum of gage is 970.00 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements.

Bankfull stage. --9 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Aug. 15, 1935	5.74	516	1946	Mar. 7, 1946	7.19	1,000
				1947	June 2, 1947	8.46	1,360
1936	Apr. 1, 1936	6.80	880	1948	Mar. 27,28, 1948	7.51	1,090
1937	Sept. 4, 1937	9.2	1,540	1949	Jan. 28, 1949	5.92	575
1938	Mar. 17, 1938	6.74	768	1950	Apr. 4, 1950	7.75	1,180
1939	Feb. 28, 1939	6.67	768				
1940	Apr. 20, 1940	7.51	1,090	1951	Dec. 3, 1950	6.77	880
				1952	Jan. 26, 1952	7.64	1,120
1941	Dec. 30,31, 1940	7.23	1,000	1953	Sept. 29, 1953	5.74	518
1942	Mar. 11, 1942	8.32	1,340	1954	Apr. 30, May 2	6.97	940
1943	June 6,7, 1943	8.00	1,220	1955	Oct. 15, 1954	8.75	1,430
1944	Mar. 20-23, 1944	7.05	940				
1945	Sept. 25, 1945	7.05	940	1956	June 22, 1956	7.34	1,030
				1957	June 29, 1957	8.52	1,360
				1958	July 15, 1958	8.88	1,460

1020. Shenango River near Jamestown, Pa.

Location. --Lat 41°37'30", long 85°25'30", at Frye Bridge, 2 miles downstream from Jamestown, Mercer County.

Drainage area. --181 sq mi.

Gage. --Nonrecording gage. Datum of gage is 955.00 ft above mean sea level.

Stage-discharge relation. --Defined by current-meter measurements below 1,400 cfs and extended by logarithmic plotting.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26,27, 1913	14.2	—	1926	Sept. 27, 1926	7.7	2,180
				1927	Jan. 23, 1927	8.38	2,530
1920	Mar. 13, 1920	9.6	3,040	1928	Dec. 1, 1927	8.00	2,330
				1929	Jan. 20, 1929	9.10	2,790
1921	Mar. 29, 1921	6.7	1,680	1930	Jan. 14, 1930	7.8	2,180
1922	Nov. 3, 1921	7.4	2,000				
1923	Jan. 21, 1923	6.85	1,720	1931	Apr. 4, 1931	5.63	1,240
1924	May 10, 1924	7.4	2,030	1932	May 9, 1932	7.71	2,130
1925	Feb. 11, 1925	8.60	2,630	1933	Mar. 14, 1933	5.6	1,240
				1934	Jan. 1, 1934	4.74	886

1025. Little Shenango River at Greenville, Pa.

Location. --Lat 41°25'15", long 80°22'35", on left bank 1,500 ft downstream from Williamson Crossing Bridge, 1 mile northeast of Greenville, Mercer County, and 2 miles upstream from mouth.

Drainage area. --104 sq mi.

Gage. --Nonrecording gage Jan. 1, 1914 to Nov. 4, 1915; recording gage Nov. 4, 1915 to Sept. 30, 1918; nonrecording gage Nov. 7, 1919 to Aug. 31, 1923 and Nov. 19, 1925 to June 20, 1934; recording gage thereafter. Prior to June 21, 1934 at site 1 mile downstream at datum 8.96 ft lower. Datum of present gage is 953.46 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements below 3,200 cfs and extended on basis of slope-area measurement.

Bankfull stage. --7 ft.

Remarks. --Base for partial-duration series, 1,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1914	Mar. 28, 1914	4.6	1,510
	Apr. 9, 1914	5.4	2,070
	Apr. 26, 1914	5.2	1,930
	May 12, 1914	6.4	2,770
1915	Jan. 7, 1915	5.9	2,420
	Feb. 2, 1915	8.0	3,890
	Aug. 4, 1915	6.41	2,770
1916	Jan. 2, 1916	6.8	[a]3,050
1917	June 9, 1917	5.3	[a]2,000
1918	Mar. 14, 1918	6.1	[a]2,560
1920	Mar. 11, 1920	6.8	3,070
	June 17, 1920	5.2	1,920
1921	Mar. 28, 1921	4.5	1,420
1922	Nov. 2, 1921	5.55	2,210
	Feb. 13, 1922	[b]7.60	—
1923	Jan. 21, 1923	5.6	2,210
1926	Jan. 19, 1926	[b]5.2	—
	Feb. 26, 1926	[b]9.60	—
	Sept. 25, 1926	5.1	1,850
1927	Oct. 25, 1926	5.6	2,210
	Nov. 16, 1926	5.0	1,780
	Jan. 20, 1927	[b]7.85	—
	Jan. 22, 1927	6.2	2,640
	Mar. 21, 1927	5.4	2,070
1928	Dec. 1, 1927	7.05	3,220
	Dec. 14, 1927	6.2	2,640
	Dec. 30, 1927	4.7	1,560
	June 6, 1928	4.9	1,700
1929	Jan. 19, 1929	5.8	2,350
	Feb. 27, 1929	6.0	2,490
	Apr. 5, 1929	5.4	2,070
	May 3, 1929	7.0	3,220
1930	Nov. 18, 1929	5.0	1,790
	Jan. 12, 1930	4.72	1,580
	Jan. 14, 1930	5.5	2,140
	Feb. 13, 1950	5.0	1,790
1931	May 23, 1931	3.84	970
1932	Jan. 18, 1932	4.9	1,720
1933	Mar. 14, 1933	5.86	2,420
	Apr. 12, 1933	4.65	1,510
1934	Jan. 2, 1934	4.5	1,440
	Mar. 4, 1934	[b]4.65	—
1935	Feb. 16, 1935	5.66	1,280
1936	Feb. 27, 1936	[b]7.50	—
	Mar. 25, 1936	10.81	4,440
1937	Jan. 15, 1937	8.66	2,890
	Jan. 25, 1937	11.00	4,600
	Apr. 26, 1937	8.76	2,960
1938	Dec. 18, 1937	8.67	2,780
	Mar. 6, 1938	7.45	2,030
	Apr. 9, 1938	7.38	2,030
1939	Feb. 20, 1939	7.05	1,810
	Mar. 1, 1939	6.61	1,610
1940	Feb. 12, 1940	6.63	1,610
	Apr. 20, 1940	8.45	2,600
1941	Dec. 29, 1940	5.75	1,230
1942	Feb. 7, 1942	6.86	1,760
	Feb. 17, 1942	8.69	2,780
	Mar. 9, 1942	8.52	2,660
	Mar. 14, 1942	6.88	1,560
	Mar. 17, 1942	7.96	2,140
	Apr. 10, 1942	8.91	2,900
	May 16, 1942	7.19	1,920
	May 23, 1942	6.60	1,610
1943	Dec. 30, 1942	8.38	2,360
	Feb. 11, 1943	7.48	2,080
	Apr. 20, 1943	6.95	1,810
1944	Apr. 12, 1944	6.90	1,760
1945	Feb. 23, 1945	9.73	3,460
	Feb. 27, 1945	7.48	2,080
1946	Oct. 24, 1945	6.52	1,560
	Feb. 27, 1946	7.54	2,080
	May 28, 1946	12.26	6,200
1947	Apr. 2, 1947	6.94	1,840
	Apr. 5, 1947	6.93	1,840
	June 3, 1947	7.07	1,960
1948	Feb. 14, 1948	7.42	2,140
	Mar. 20, 1948	7.32	2,080
	Mar. 22, 1948	7.16	2,020
	Apr. 12, 1948	6.47	1,600
	Apr. 28, 1948	6.57	1,660

Little Shenango River at Greenville, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1949	Jan. 6, 1949	5.86	1,300	1954	Mar. 1, 1954	9.0	3,050
					Apr. 17, 1954	6.95	1,820
1950	Jan. 16, 1950	6.70	1,720				
	Feb. 14, 1950	8.74	3,030	1955	Oct. 16, 1954	12.73	6,620
	Mar. 27, 1950	9.22	3,420		Feb. 22, 1955	7.18	1,920
	Apr. 5, 1950	6.40	1,550		Mar. 4, 1955	7.34	1,980
	Apr. 26, 1950	6.34	1,500		Apr. 26, 1955	7.21	1,920
1951	Dec. 4, 1950	10.14	3,920	1956	Nov. 16, 1955	9.58	3,500
	Dec. 8, 1950	6.97	1,820		Feb. 25, 1956	9.22	3,190
	Jan. 4, 1951	9.55	3,500		Mar. 8, 1956	7.41	2,040
	Feb. 13, 1951	7.29	1,980		May 12, 1956	7.37	2,040
	Mar. 4, 1951	7.01	1,820		Aug. 5, 1956	8.30	2,580
1952	Nov. 23, 1951	6.35	1,520	1957	Jan. 23, 1957	8.99	3,050
	Jan. 18, 1952	8.96	3,050		Apr. 5, 1957	7.89	2,340
	Jan. 27, 1952	11.00	4,750		June 29, 1957	7.73	2,220
	Feb. 4, 1952	6.83	1,720				
	May 12, 1952	7.95	2,400	1958	July 15, 1958	13.50	7,580
1953	June 1, 1953	5.07	920				

[a]Annual peak only.
[b]Backwater from ice.

1030. Pymatuning Creek near Orangeville, Pa.

Location. --Lat 41°18'40", long 80°28'40", on right bank 2 miles upstream from mouth, 3 miles southeast of Orangeville, Mercer County, and 3 miles north of Sharpsville.

Drainage area. --169 sq mi.

Gage. --Nonrecording gage prior to June 18, 1934; recording gage thereafter. Prior to June 18, 1934, at site 1,500 ft downstream at datum 0.62 ft higher. Datum of present gage is 873.35 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 2,200 cfs and extended by logarithmic plotting.

Bankfull stage. --6 ft.

Remarks. --Only annual peaks are shown. Backwater from Shenango River.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1914	May 13, 1914	8.0	4,200	1936	Mar. 25, 1936	10.68	4,300
1915	Feb. 3, 1915	9.1	6,200	1937	Jan. 25, 1937	10.41	3,850
				1938	Apr. 10, 1938	9.16	2,200
1916	Mar. 28, 1916	7.6	3,640	1939	Feb. 21, 1939	8.39	1,670
1917	June 10, 1917	6.6	2,370	1940	Apr. 21, 1940	9.65	2,750
1918	Mar. 15, 1918	8.2	4,500				
1919	May 11, 1919	7.75	3,920	1941	Dec. 30, 1940	7.87	1,460
1920	Mar. 13, 1920	8.9	5,800	1942	Apr. 11, 1942	9.64	2,750
				1943	Dec. 30, 1942	10.46	4,000
1921	Mar. 29-30, 1921	6.4	2,150	1944	Apr. 13, 1944	9.42	2,550
1922	Apr. 1, 1922	6.80	2,610	1945	Feb. 23, 1945	10.15	3,550
1923	Jan. 21, 1923	6.5	2,260				
				1946	May 28, 1946	9.37	2,540
1926	Feb. 27, 1926	7.55	3,640	1947	June 4, 1947	9.77	3,010
1927	Jan. 23, 1927	8.60	5,200	1948	Mar. 23, 1948	9.74	2,890
1928	Dec. 2, 1927	7.82	3,920	1949	Jan. 28, 1949	8.01	1,310
1929	Apr. 5, 1929	8.60	5,200	1950	Feb. 15, 1950	9.90	3,130
1930	Jan. 14, 1930	7.51	3,500				
				1951	Dec. 4, 1950	10.31	3,400
1931	Apr. 4, 1931	5.05	1,170	1952	Jan. 27, 1952	10.52	4,000
1932	Jan. 15, 1932	6.3	1,910	1953	Mar. 25, 1953	6.96	900
1933	Mar. 15, 1933	7.7	2,980	1954	Mar. 3, 1954	9.52	2,090
1934	Mar. 6, 1934	7.60	1,700	1955	Oct. 16, 1954	10.73	3,650
1935	Jan. 22, 1934	7.24	1,180				
				1956	Nov. 16, 1955	10.80	3,600
				1957	June 29, 1957	9.84	2,220
				1958	July 15, 1958	11.77	5,200

1035. Shenango River at Sharpsville, Pa.

Location. --Lat 41°16'00", long 80°28'20", on left bank 700 ft upstream from Erie Railroad Bridge at Sharpsville, Mercer County, and 3 miles downstream from Pymatuning Creek.

Drainage area. --588 sq mi.

Gage. --Recording gage. Datum of gage is 861.57 ft above mean sea level, datum of 1929, New York-Pennsylvania supplementary adjustment of 1943.

Stage-discharge relation. --Defined by current-meter measurements.

Historical data. --Maximum stage known, 19.3 ft Mar. 26, 1913, from Pymatuning survey-profile map.

Bankfull stage. --8 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1939	Feb. 21, 1939	7.03	4,570	1949	Jan. 28, 1949	6.60	4,220
1940	Apr. 21, 1940	9.08	7,880	1950	Feb. 15, 1950	9.83	9,000
1941	Dec. 30, 1940	6.62	4,200	1951	Dec. 5, 1950	10.61	10,300
1942	Apr. 11, 1942	9.33	8,200	1952	Jan. 27, 1952	12.04	12,800
1943	Dec. 30, 1942	10.35	9,960	1953	Mar. 25, 1953	—	—
1944	Apr. 13, 1944	7.64	5,600	1954	Mar. 2, 1954	8.64	7,070
1945	Feb. 23, 1945	9.91	9,160	1955	Oct. 16, 1954	12.64	13,900
1946	May 28, 1946	10.57	10,300	1956	Nov. 17, 1955	9.28	8,170
1947	June 4, 1947	8.32	6,650	1957	Jan. 24, 1957	8.57	7,070
1948	Mar. 20, 1948	7.06	4,900	1958	July 16, 1958	13.97	12,900

1040. Shenango River at Sharon, Pa.

Location. --Lat 41°13'55", long 80°30'35", at Chestnut Street Bridge in Sharon, Mercer County, 500 ft upstream from Pine Run.

Drainage area. --608 sq mi.

Gage. --Nonrecording gage prior to Apr. 1, 1915; recording gage Apr. 1, 1915 to May 23, 1919; nonrecording gage May 24, 1919 to Aug. 18, 1927; recording gage thereafter. Datum of gage is 840.00 ft above mean sea level (preliminary levels of 1905).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1910	Mar. 2, 1910	12.81	[a]13,600	1926	Feb. 27, 1926	9.64	5,660
1911	Sept. 16, 1911	—	[a]13,000	1927	Jan. 22, 1927	10.50	6,890
1912	Mar. 19, 1912	10.30	8,420	1928	Dec. 2, 1927	12.30	9,760
1913	Mar. 26, 1913	18.1	25,200	1929	Apr. 5, 1929	12.00	9,250
1914	May 13, 1914	—	9,930	1930	Jan. 14, 1930	10.5	6,900
1915	Feb. 2, 1915	—	12,700	1931	Apr. 4, 1931	7.15	3,000
1916	Mar. 28, 1916	—	10,200	1932	Jan. 18, 1932	8.82	4,680
1917	Jan. 6, 1917	—	7,120	1933	Mar. 15, 1933	10.65	7,050
1918	Mar. 15, 1918	—	16,000	1934	Mar. 6, 1934	9.62	5,670
1919	May 11, 1919	—	11,300	1935	Jan. 22, 1935	7.73	3,490
1920	Mar. 13, 1920	13.3	13,200	1936	Mar. 25, 1936	13.40	11,900
1921	Mar. 29, 1921	8.4	4,230	1937	Jan. 26, 1937	13.52	12,400
1922	Nov. 3, Apr. 1	8.80	4,690	1938	Dec. 19, 1937	10.59	7,400
1923	Jan. 22, 1923	8.9	4,810				
1924	Jan. 12, 1924	10.80	7,340				
1925	Feb. 10, 1925	11.3	8,130				

[a]Maximum daily discharge.

1045. Shenango River at New Castle, Pa.

Location. --Lat 41°00'00", long 80°21'05", at West Washington Street Bridge, at New Castle, Lawrence County.

Drainage area. --792 sq mi.

Gage. --Nonrecording gage. Datum of gage is 787.00 ft above mean sea level.

Stage-discharge relation. --Defined by current-meter measurements below 23,000 cfs and extended by logarithmic plotting.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 26, 1913	17.82	33,000	1923	Jan. 22, 1923	6.5	5,020
1914	May 14, 1914	—	9,480	1924	Jan. 12, 1924	—	8,560
1915	Feb. 3, 1915	—	13,800	1925	Feb. 10, 1925	9.3	10,200
1916	Mar. 29, 1916	—	10,600	1926	Feb. 26, 1926	7.7	7,050
1917	Jan. 7, 1917	—	7,980	1927	Jan. 23, 1927	8.7	8,960
1918	Mar. 16, 1918	—	12,000	1928	Dec. 2, 1927	9.60	10,800
1919	May 11, 1919	—	10,200	1929	Apr. 6, 1929	11.10	14,200
1920	Mar. 13, 1920	9.60	10,800	1930	Jan. 15, 1930	8.25	8,260
1921	Mar. 29, 1921	6.7	5,340	1931	Apr. 5, 1931	5.36	3,920
1922	Apr. 1, 1922	6.87	5,660	1932	Jan. 18, 1932	6.8	5,980
				1933	Mar. 15, 1933	8.48	8,800
				1934	Aug. 9, 1934	6.20	4,920

1050. Neshannock Creek at Eastbrook, Pa.

Location. --Lat 41°02'30", long 80°18'20", at single-span wooden highway bridge at Eastbrook station of Pennsylvania Railroad, in Lawrence County.

Drainage area. --228 sq mi.

Gage. --Nonrecording gage. Datum of gage is 877.53 ft unadjusted.

Stage-discharge relation. --Defined by current-meter measurements below 1,800 cfs and extended.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1919	May 10, 1919	5.8	5,000	1921	June 29, 1921	3.7	1,660
1920	Mar. 12, 1920	7.2	6,690	1922	Apr. 14-15, 1922	4.44	2,480
				1923	May 12, 1923	4.3	2,400
				1946	May 28, 1946		[a]10,000

[a]Slope-area measurement.

1055. Beaver River at Wampum, Pa.

Location. --Lat 40°53'15", long 80°20'05", on right bank at downstream side of bridge on State Highway 288 at Wampum, Lawrence County, 2 3/4 miles upstream from Connoquenessing Creek.

Drainage area. --2,235 sq mi.

Gage. --Nonrecording gage prior to Nov. 16, 1938; recording gage thereafter. Prior to Sept. 30, 1918 at site 1 mile upstream at datum 0.84 ft higher. Datum of present gage is 736.24 ft above mean sea level (Pennsylvania RR benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 24,000 cfs and extended on basis of contracted-opening measurements.

Bankfull stage. --25 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1915	Feb. 2, 1915	17.6	37,900	1941	Dec. 31, 1940	10.87	15,600
				1942	Apr. 11, 1942	15.19	25,300
1916	Mar. 27, 1916	16.0	31,200	1943	Dec. 30, 1942	[a]20.54	40,900
1917	Jan. 6, 1917	13.5	21,300	1944	Apr. 13, 1944	12.29	17,400
1918	Feb. 20, 1918	15.4	28,800	1945	Mar. 22, 1945	13.77	21,000
1933	Mar. 15, 1933	16.06	24,300	1946	May 28, 1946	[a]21.53	50,100
1934	Aug. 9, 1934	12.7	17,300	1947	June 3, 1947	12.06	17,000
1935	Aug. 3, 1935	10.5	13,900	1948	Apr. 14, 1948	12.13	17,000
				1949	Jan. 28, 1949	11.54	15,800
1936	Mar. 25, 1936	19.22	34,000	1950	Feb. 15, 1950	[a]15.55	23,500
1937	Jan. 25, 1937	21.44	48,000				
1938	Apr. 10, 1938	15.0	22,100	1951	Dec. 4, 1950	[a]15.00	22,300
1939	Mar. 13, 1939	14.90	21,900	1952	Jan. 27, 1952	[a]19.90	36,700
1940	Apr. 21, 1940	17.72	29,200	1953	May 22, 1953	10.70	13,700
				1954	Mar. 3, 1954	10.87	14,100
				1955	Oct. 16, 1954	[a]20.61	41,400
				1956	Feb. 25-26, 1956	[a]15.49	23,200
				1957	Apr. 5, 1957	[a]15.99	24,100
				1958	July 17, 1958	13.77	20,900

[a]Backwater from Connoquenessing Creek.

1060. Connoquenessing Creek at Hazen, Pa.

Location. --Lat 40°49'00", long 80°14'35", on right bank at downstream side of highway bridge at Hazen, Beaver County, half a mile upstream from Brush Creek.

Drainage area. --356 sq mi.

Gage. --Nonrecording gage prior to June 23, 1941; recording gage thereafter. Datum of gage is 852.31 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements below 18,000 cfs and extended above by logarithmic plotting.

Bankfull stage. --9 ft.

Remarks. --Base for partial-duration series, 5,000 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 29, 1915	8.5	5,450	1919	May 10, 1919	8.6	5,540
	Jan. 2, 1916	9.1	6,000				
	Mar. 26, 1916	8.0	5,000	1920	Mar. 5, 1920	[a]15	—
					Mar. 11, 1920	9.9	6,800
1917	Jan. 5, 1917	8.2	5,180		June 17, 1920	8.4	5,360
1918	Oct. 25, 1917	7.0	4,100	1921	Mar. 8, 1921	7.3	4,370
	Feb. 20, 1918	[a]11.0	—				

Connoquenessing Creek at Hazen, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1922	Mar. 7, 1922	9.65	6,500
	Apr. 15, 1922	9.6	6,500
1923	May 13, 1923	13.2	11,600
1924	Dec. 6, 1923	10.3	7,400
	Jan. 17, 1924	11.0	8,240
	May 9, 1924	10.7	7,880
	June 29, 1924	16.66	23,000
	Sept. 30, 1924	10.1	7,130
1925	Feb. 9, 1925	11.35	8,300
1926	Feb. 25, 1926	8.9	5,800
	Sept. 5, 1926	11.6	8,500
	Sept. 24, 1926	10.7	7,850
1927	Nov. 16, 1926	10.6	7,730
	Jan. 19, 1927	[a]10.6	—
	Jan. 22, 1927	10.4	7,490
	Mar. 21, 1927	9.5	6,460
	May 19, 1927	10.4	7,490
1928	Nov. 18, 1927	13.0	10,700
	Dec. 14, 1927	12.4	9,920
	Mar. 30, 1928	9.2	6,140
	June 6, 1928	10.1	7,130
	July 14, 1928	8.2	5,080
	July 20, 1928	11.2	8,440
1929	Feb. 26, 1929	11.80	9,160
	Apr. 5, 1929	9.6	6,580
1930	Oct. 3, 1929	9.0	6,080
	Nov. 18, 1929	8.3	5,380
	Jan. 12, 1930	8.0	5,080
	Feb. 26, 1930	12.0	9,400
1931	Apr. 4, 1931	7.35	4,480
1932	Jan. 23, 1932	7.7	4,780
1933	Mar. 15, 1933	13.1	10,600
1934	Aug. 9, 1934	9.38	6,520
1935	May 7, 1935	9.08	5,940
1936	Feb. 26, 1936	[a]10.7	—
	Mar. 17, 1936	12.45	9,560
1937	Nov. 5, 1936	10.1	7,620
	Jan. 15, 1937	9.3	6,430
	Jan. 22, 1937	12.90	10,700
	Jan. 25, 1937	13.01	10,900
	Apr. 26, 1937	12.9	10,700
	Aug. 22, 1937	8.7	5,550
1938	Dec. 18, 1937	12.00	9,530
	Mar. 15, 1938	9.05	5,880
	Apr. 9, 1938	11.00	8,240
1939	Jan. 30, 1939	8.80	5,660
	Mar. 12, 1939	11.6	9,010
1940	Mar. 4, 1940	11.8	9,270
	Apr. 20, 1940	13.9	12,200
1941	July 19, 1941	9.18	6,040
	Aug. 15, 1941	8.80	5,600
1942	Mar. 9, 1942	11.53	8,840
	Mar. 14, 1942	9.00	5,800
	Mar. 17, 1942	8.53	5,250
	Apr. 10, 1942	9.20	6,020
1943	Dec. 30, 1942	12.11	9,670
	Apr. 20, 1943	8.48	5,250
1944	Mar. 7, 1944	8.06	4,810
1945	Jan. 1, 1945	[a]13.58	—
	Feb. 14, 1945	[a]11.82	—
	Feb. 16, 1945	8.84	5,580
	Feb. 22, 1945	12.48	10,200
	Feb. 27, 1945	8.98	5,800
	Mar. 7, 1945	11.02	8,190
	Mar. 22, 1945	11.94	9,390
	Apr. 5, 1945	8.56	5,360
1946	Feb. 27, 1946	11.58	8,970
	May 28, 1946	10.88	8,060
1947	June 7, 1947	11.28	8,580
1948	Feb. 14, 1948	10.93	8,060
	Apr. 12, 1948	10.48	7,550
	Apr. 14, 1948	11.44	8,710
	Aug. 12, 1948	9.70	6,590
1949	Dec. 16, 1948	9.31	6,130
	Jan. 28, 1949	8.30	5,030
1950	Jan. 6, 1950	8.56	5,280
	Jan. 10, 1950	10.59	7,670
	Feb. 14, 1950	9.75	6,700
	Apr. 26, 1950	9.31	6,100
1951	Dec. 4, 1950	12.53	10,200
	Dec. 8, 1950	11.38	8,710
	Jan. 15, 1951	10.38	7,420
1952	Jan. 27, 1952	14.54	13,000
	Feb. 4, 1952	8.41	5,060
1953	Mar. 24, 1953	8.81	5,500
1954	Mar. 1, 1954	8.51	5,170
	Apr. 17, 1954	9.96	6,940
	June 17, 1954	8.48	5,170
1955	Oct. 16, 1954	15.51	18,200
	Feb. 22, 1955	8.56	5,270
1956	Feb. 7, 1956	10.62	7,730
	Feb. 12, 1956	8.76	5,510
	Feb. 26, 1956	12.47	10,300
	Mar. 8, 1956	9.63	6,470
	Apr. 3, 1956	9.02	5,750
	May 12, 1956	11.12	8,380
	June 24, 1956	10.45	7,470
	Aug. 6, 1956	11.07	8,380
1957	Jan. 23, 1957	9.00	5,750
	Apr. 5, 1957	13.86	13,400
	Apr. 9, 1957	8.54	5,150
1958	May 8, 1958	8.43	5,030
	Aug. 1, 1958	10.91	8,120

[a] Backwater from ice.

1065. Slippery Rock Creek at Wurtemburg, Pa.

Location. --Lat 40°53'00", long 80°13'55", on left bank at highway bridge at Camp Elwood, 2 miles north of Wurtemburg, Lawrence County, and 2.8 miles upstream from mouth.

Drainage area. --398 sq mi.

Gage. --Nonrecording gage prior to Sept. 30, 1940; recording gage thereafter. Prior to Sept. 30, 1922, gage at site 1½ miles downstream at datum 13.77 ft lower and Oct. 1, 1922 to Sept. 30, 1940, at site 2 miles downstream at datum 18.92 ft lower. Datum of present gage is 831.40 ft above mean sea level, adjustment of 1907.

Stage-discharge relation. --Defined by current-meter measurements below 8,000 cfs and extended.

Bankfull stage. --5 ft.

Remarks. --Base for partial-duration series, 3,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1912	Feb. 26, 1912	[a]6.9	—	1922	Nov. 2, 1921	5.77	4,150
	Mar. 16, 1912	6.0	4,780		Feb. 13, 1922	[a]6.52	—
	Mar. 30, 1912	6.2	5,250		Feb. 21, 1922	5.55	3,760
	Apr. 3, 1912	6.4	5,730		Mar. 7, 1922	5.8	4,150
	Apr. 30, 1912	6.0	4,780		Apr. 15, 1922	5.5	3,570
	July 24, 1912	5.65	4,020				
	Aug. 26, 1912	8.17	10,800	1923	Jan. 21, 1923	7.9	6,400
	Sept. 3, 1912	6.9	7,050		May 13, 1923	8.4	7,550
1913	Jan. 8, 1913	8.0	10,300	1924	Dec. 6, 1923	6.8	4,070
	Jan. 12, 1913	7.1	7,630		Mar. 5, 1924	6.5	3,530
	Jan. 18, 1913	6.0	4,780		May 9, 1924	8.3	7,320
	Jan. 24, 1913	5.8	4,330		Sept. 30, 1924	7.8	6,170
	Feb. 28, 1913	5.8	4,330				
	Mar. 26, 1913	10.21	17,800	1925	Feb. 10, 1925	8.1	6,860
1914	Nov. 14, 1913	6.2	4,910	1926	Feb. 26, 1926	7.7	5,950
	Jan. 30, 1914	5.6	3,710		Sept. 5, 1926	9.0	9,000
	Mar. 16, 1914	5.6	3,710				
	Mar. 28, 1914	5.8	4,100	1927	Oct. 25, 1926	6.5	3,530
	Apr. 8, 1914	5.7	3,900		Nov. 17, 1926	6.8	4,070
	Apr. 26, 1914	6.8	6,240		Jan. 20, 1927	8.62	8,030
	May 13, 1914	6.4	5,340		Mar. 21, 1927	7.6	5,730
1915	Jan. 7, 1915	6.5	5,560	1928	Nov. 18, 1927	—	[b]8,500
	Jan. 19, 1915	5.8	4,100		Dec. 1, 1927	9.1	9,250
	Feb. 2, 1915	8.5	10,700		Dec. 14, 1927	11.80	18,200
	Feb. 15, 1915	5.4	3,340		Mar. 14, 1928	6.8	4,070
	Aug. 4, 1915	5.9	4,300		June 6, 1928	6.8	4,070
					June 19, 1928	6.6	3,710
1916	Dec. 18, 1915	6.2	5,250				
	Jan. 2, 1916	6.8	6,780	1929	Nov. 20, 1928	6.5	3,530
	Mar. 8, 1916	5.6	3,910		Dec. 1, 1928	7.2	4,880
	Mar. 27, 1916	6.9	7,050		Jan. 19, 1929	6.8	4,070
					Feb. 27, 1929	9.9	11,500
1917	Jan. 5, 1917	6.5	5,980		Apr. 5, 1929	9.7	10,900
	June 7, 1917	6.3	5,490		May 3, 1929	7.1	4,670
	July 15, 1917	5.4	3,530		July 10, 1929	7.4	5,300
1918	Oct. 19, 1917	5.6	3,710	1930	Nov. 18, 1929	7.6	5,730
	Oct. 25, 1917	6.6	5,780		Dec. 13, 1929	6.5	3,530
	Oct. 30, 1917	5.8	4,100		Jan. 13, 1930	8.0	6,630
	Dec. 25, 1917	[a]6.64	—		Feb. 26, 1930	6.7	3,890
	Feb. 13, 1918	[a]11.0	—				
	Feb. 20, 1918	8.3	10,100	1931	June 8, 1931	5.85	2,930
	Mar. 15, 1918	6.2	4,910				
				1932	Dec. 13, 1931	7.1	4,670
1919	May 11, 1919	6.2	4,990		Jan. 18, 1932	7.2	4,880
					Jan. 26, 1932	6.5	3,530
1920	Mar. 5, 1920	6.1	4,770				
	Mar. 13, 1920	8.9	11,000	1933	———	[c]—	—
	June 18, 1920	5.9	4,350				
				1934	Mar. 4, 1934	6.6	3,710
1921	June 23, 1921	5.57	3,760		Aug. 9, 1934	10.38	13,000

Slippery Rock Creek at Wurtemburg, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1935	Jan. 22, 1935	7.64	5,730
	May 8, 1935	7.22	4,880
1936	Feb. 26, 1936	7.8	6,170
	Mar. 17, 1936	6.9	4,270
	Mar. 25, 1936	9.04	9,000
1937	Nov. 5, 1936	6.8	4,070
	Jan. 15, 1937	8.2	7,090
	Jan. 22, 1937	10.2	12,400
	Jan. 25, 1937	12.05	19,000
	Apr. 26, 1937	10.0	11,800
	Aug. 12, 1937	6.7	3,890
1938	Dec. 18, 1937	8.8	8,510
	Mar. 6, 1938	7.4	5,300
	Mar. 15, 1938	7.0	4,470
	Apr. 9, 1938	8.4	7,550
1939	Jan. 30, 1939	8.6	8,030
	Mar. 1, 1939	6.7	3,890
	Mar. 12, 1939	8.8	8,510
1940	Mar. 4, 1940	6.7	3,890
	Mar. 19, 1940	7.4	5,300
	Mar. 31, 1940	6.9	4,270
	Apr. 21, 1940	9.5	8,450
	June 1, 1940	6.5	3,530
1941	Feb. 15, 1941	[a]6.0	—
	Mar. 4, 1941	[a]9.0	—
	July 31, 1941	5.2	3,410
1942	Feb. 6, 1942	[a]6.75	—
	Feb. 17, 1942	5.62	4,950
	Mar. 9, 1942	6.98	7,770
	Mar. 15, 1942	5.83	5,310
	Apr. 10, 1942	5.81	5,310
1943	Dec. 23, 1942	[a]6.41	—
	Dec. 30, 1942	8.59	11,700
	Feb. 11, 1943	4.95	3,900
	Mar. 12, 1943	5.32	4,450
	Apr. 20, 1943	5.20	4,290
	June 17, 1943	5.42	4,610
1944	Jan. 28, 1944	[a]10.83	—
	Apr. 12, 1944	4.62	3,390
1945	Dec. 26, 1944	[a]4.98	—
	Feb. 16, 1945	[a]10.0	—
	Feb. 22, 1945	[a]10.65	—
	Feb. 23, 1945	7.46	8,970
	Feb. 27, 1945	6.05	5,670
	Mar. 4, 1945	5.34	4,450
	Mar. 7, 1945	6.35	6,270
	Mar. 22, 1945	6.13	5,870
	Apr. 5, 1945	5.71	5,130
1946	Oct. 3, 1945	4.82	3,680
	Feb. 27, 1946	7.41	8,730
	May 28, 1946	8.51	11,500
1947	Mar. 14, 1947	[a]6.10	—
	June 8, 1947	4.66	3,460
1948	Feb. 14, 1948	6.32	6,040
	Apr. 14, 1948	6.52	6,500
	Apr. 28, 1948	5.42	4,220
1949	Dec. 16, 1948	6.43	6,270
	Jan. 6, 1949	5.13	3,780
	Jan. 28, 1949	5.98	5,390
1950	Jan. 7, 1950	5.71	4,780
	Jan. 11, 1950	6.10	5,600
	Feb. 14, 1950	7.12	7,450
	Feb. 23, 1950	5.02	3,510
	Mar. 27, 1950	5.97	5,130
	Apr. 26, 1950	6.83	6,730
1951	Dec. 4, 1950	7.22	7,700
	Dec. 8, 1950	6.37	5,860
	Jan. 4, 1951	6.64	6,280
	Jan. 15, 1951	5.22	3,680
	Feb. 13, 1951	5.89	4,850
	Feb. 21, 1951	5.35	3,980
	Mar. 4, 1951	6.31	5,650
	Apr. 30, 1951	6.95	7,200
1952	Jan. 18, 1952	6.29	5,650
	Jan. 27, 1952	8.53	11,000
	Feb. 5, 1952	6.24	5,450
	Apr. 16, 1952	5.26	3,830
	May 12, 1952	5.92	4,850
	May 26, 1952	5.27	3,830
1953	May 23, 1953	5.68	4,480
1954	Mar. 1, 1954	5.50	4,140
	Apr. 17, 1954	6.84	6,730
	June 17, 1954	6.13	5,250
1955	Oct. 16, 1954	10.23	13,500
	Dec. 18, 1954	5.10	3,530
	Dec. 30, 1954	5.20	3,680
	Feb. 22, 1955	5.91	4,850
	Mar. 5, 1955	5.53	4,140
	Apr. 26, 1955	6.15	5,450
1956	Feb. 12, 1956	5.76	4,490
	Feb. 26, 1956	8.36	10,100
	Mar. 8, 1956	5.86	4,770
	Apr. 3, 1956	6.06	5,140
	Apr. 8, 1956	5.46	4,120
	May 12, 1956	6.34	5,530
	June 22, 1956	9.06	12,000
	July 4, 1956	5.13	3,520
	July 17, 1956	6.23	5,330
	July 20, 1956	5.41	3,900
	Aug. 5, 1956	6.98	6,960
1957	Jan. 23, 1957	6.37	5,760
	Apr. 4, 1957	7.22	7,380
	Apr. 9, 1957	6.23	5,370
1958	July 11, 1958	5.32	3,820
	July 16, 1958	6.78	6,560
	July 31, 1958	6.20	5,370

[a]Backwater from ice.
[b]Estimated daily discharge.
[c]Maximum occurred in period of no gage height record.

1075. Beaver River at Beaver Falls, Pa.

Location. --Lat 40°45'45", long 80°18'55", on left bank at Beaver Falls, Beaver County, 200 ft upstream from pumping plant of Beaver Valley Water Co., 5.5 miles upstream from mouth and 7 miles downstream from Connoquenessing Creek.

Drainage area. --3,106 sq mi.

Gage. --Nonrecording gage prior to Dec. 3, 1941; recording gage thereafter. Prior to Dec. 3, 1941, at site 200 ft downstream. Datum of gage is 727.48 ft above mean sea level, datum of 1929 (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 60,000 cfs and extended by logarithmic plotting.

Bankfull stage. --15 ft.

Remarks. --Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1913	Mar. 27, 1913	17.4	103,000	1946	May 28, 1946	12.96	56,200
				1947	June 8, 1947	9.15	27,200
1936	Mar. 25, 1936	12.1	48,800	1948	Apr. 15, 1948	9.80	31,200
1937	Jan. 25, 1937	13.8	64,500	1949	Jan. 28, 1949	8.99	25,800
1938	Apr. 9, 1938	11.0	39,700	1950	Feb. 15, 1950	10.86	36,400
1939	Mar. 13, 1939	11.1	40,500				
1940	Apr. 21, 1940	12.1	48,800	1951	Dec. 4, 1950	10.75	40,500
				1952	Jan. 27, 1952	13.16	56,000
1941	Dec. 30, 1940	8.3	20,100	1953	May 23, 1953	8.61	20,800
1942	Mar. 15, 1942	10.25	34,000	1954	Apr. 17, 1954	9.53	26,700
1943	Dec. 30, 1942	13.15	57,800	1955	Oct. 16, 1954	13.33	58,500
1944	Apr. 13, 1944	8.93	24,900				
1945	Feb. 23, 1945	10.54	36,200	1956	Feb. 26, 1956	11.33	40,200
				1957	Apr. 5, 1957	11.71	43,400
				1958	Aug. 1, 1958	9.69	28,100

RACCOON CREEK BASIN

1080. Raccoon Creek at Moffatts Mill, Pa.

Location. --Lat 40°37'40", long 80°20'20", on left bank at downstream side of highway bridge at Moffatts Mill, Beaver County, 1.4 miles downstream from Gums Run, 4 miles south of Vanport, and 4.2 miles upstream from mouth.

Drainage area. --178 sq mi.

Gage. --Nonrecording gage May 27, 1915, to July 31, 1932; recording gage thereafter. Datum of gage is 719.16 ft above mean sea level, datum of 1929, Parkersburg-Uniontown supplementary adjustment of 1944 (Corps of Engineers benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 4,500 cfs and extended by logarithmic plotting.

Bankfull stage. --4 ft.

Remarks. --Base for partial duration series, 2,500 cfs.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Mar. 22, 1916	[a]6.2	3,370	1921	Sept. 21, 1921	6.1	3,220
1917	Jan. 22, 1917	7.9	6,090	1922	Apr. 15, 1922	9.8	10,000
1918	Feb. 20, 1918	5.8	2,790	1923	May 13, 1923	8.6	7,440
1919	May 10, 1919	[a]4.87	1,620	1924	June 29, 1924	9.4	9,120
1920	Mar. 5, 1920	[b]9.8	—	1925	Feb. 8, 1925	5.35	2,175
	June 17, 1920	[a]6.49	3,820				

Raccoon Creek at Moffatts Mills, Pa.--Continued

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1926	Sept. 5, 1926	7.7	5,760
1927	Nov. 17, 1926	6.60	3,970
1928	Mar. 30, 1928	8.50	7,240
1929	Feb. 25, 1929	6.20	3,370
1930	Feb. 24, 1930	[a]6.03	3,140
1931	June 7, 1931	7.27	5,100
1932	Mar. 22, 1932	4.90	1,620
1942	Mar. 9, 1942	6.91	4,450
	Mar. 17, 1942	6.15	3,300
	Apr. 10, 1942	7.06	4,770
1943	Dec. 30, 1942	6.58	3,970
	Mar. 12, 1943	5.64	2,580
	Mar. 20, 1943	5.67	2,580
	Apr. 20, 1943	5.63	2,580
1944	Mar. 7, 1944	6.03	3,140
1945	Jan. 1, 1945	6.64	4,030
	Feb. 14, 1945	6.72	4,130
	Feb. 22, 1945	6.48	3,820
	Mar. 7, 1945	8.23	6,660
	Mar. 22, 1945	6.50	3,820
	Apr. 5, 1945	5.92	2,930
1946	May 27, 1946	7.50	5,430
1947	June 7, 1947	6.41	3,670
1948	Feb. 14, 1948	[b]6.31	—
	Apr. 12, 1948	7.36	5,260
1949	Jan. 28, 1949	5.34	2,190
1950	July 6, 1950	7.55	4,970
1951	Dec. 4, 1950	7.06	4,210
	Dec. 8, 1950	6.82	3,810
	Jan. 4, 1951	6.26	3,190
	Jan. 15, 1951	7.24	4,350
	Mar. 7, 1951	6.37	3,310
1952	Dec. 21, 1951	5.73	2,580
	Jan. 27, 1952	9.71	8,590
	Feb. 4, 1952	6.05	2,850
	May 26, 1952	5.83	2,680
1953	June 17, 1953	5.45	2,260
1954	Apr. 17, 1954	4.42	1,300
1955	Oct. 16, 1954	8.42	6,250
	Feb. 7, 1955	6.21	3,070
	Mar. 4, 1955	6.58	3,550
1956	Feb. 26, 1956	7.25	4,350
	Mar. 8, 1956	6.42	3,310
	June 25, 1956	5.8	2,630
	Aug. 6, 1956	8.52	6,430
1957	Apr. 5, 1957	8.47	6,430
1958	May 5, 1958	5.85	2,680

[a]Mean daily.
[b]Backwater from ice.

OHIO RIVER BASIN

1085. Ohio River at Montgomery Island Dam, Pa.

Location.--Lat 40°38'50", long 80°23'20", on left bank at Montgomery Island Dam, Beaver County, 2.2 miles downstream from Raccoon Creek, 5½ miles southwest of Beaver, and at mile 31.7.

Drainage area.--22,960 sq mi, approximately.

Gage.--Nonrecording gage. Datum of gage is 653.6 ft above mean sea level, adjustment of 1912. Auxiliary gage at lock 7, 4.8 miles downstream, at datum 6.4 ft lower.

Stage-discharge relation.--Defined by current-meter measurements.

Bankfull stage.--32 ft.

Remarks.--Only annual peaks are shown. Flow regulated.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)
1942	Apr. 11, 1942	29.8	231,000
1943	Dec. 31, 1942	46.8	438,000
1944	Mar. 18, 1944	24.7	169,000
1945	Mar. 7, 1945	42.8	396,000
1946	May 29, 1946	30.1	225,000
1947	Apr. 7, 1947	24.2	163,000
1948	Apr. 15, 1948	39.0	332,000
1949	Dec. 17, 1948	28.6	207,000
1950	Mar. 29, 1950	26.7	187,000
1951	Dec. 5, 1950	36.6	297,000

1095. Little Beaver Creek near East Liverpool, Ohio

Location. --Lat 40°40'32", long 80°32'23", at Grimms Bridge, 1½ miles upstream from Island Run, 4 miles upstream from mouth, and 4 miles northeast of East Liverpool, Columbiana County, Ohio.

Drainage area. --505 sq mi.

Gage. --Nonrecording prior to Sept. 22, 1926; recording thereafter. Datum of gage is 702.77 ft above mean sea level, adjustment of 1912.

Stage-discharge relation. --Defined by current-meter measurements below 16,000 cfs and extended above on basis of slope-area measurement at 25,000 cfs.

Historical data. --Maximum stage known, abut 20 ft.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Jan. 2, 1916	10.5	7,700	1936	Mar. 24, 1936	12.22	11,400
1917	Jan. 5, 1917	9.5	5,750	1937	Jan. 25, 1937	15.69	20,100
1918	Feb. 20, 1918	11.3	9,380	1938	May 19, 1938	11.94	11,400
1919	May 10, 1919	10.4	7,500	1939	Mar. 13, 1939	—	[a]12,000
1920	Mar. 5, 1920	11.6	10,000	1940	Apr. 20, 1940	14.01	15,800
1921	Apr. 30, 1921	9.7	6,130	1941	July 19, 1941	17.4	25,000
1922	Apr. 15, 1922	9.8	6,320	1942	Mar. 14, 1942	10.58	7,910
1923	May 13, 1923	14.6	17,000	1943	Dec. 30, 1942	13.95	15,500
1924	Jan. 16, 1924	14.0	15,500	1944	Apr. 12, 1944	[b]10.46	5,030
1925	Feb. 8, 1925	8.9	4,680	1945	Mar. 7, 1945	11.98	10,900
1926	Feb. 25, 1926	12.1	11,100	1946	May 27, 1946	17.23	24,400
1927	Jan. 19, 1927	11.6	10,000	1947	June 7, 1947	13.98	15,500
1928	Dec. 14, 1927	11.7	10,200	1948	Apr. 14, 1948	11.32	9,380
1929	Feb. 26, 1929	14.4	16,500	1949	Jan. 28, 1949	9.93	6,510
1930	Feb. 26, 1930	13.14	13,400	1950	Feb. 14, 1950	11.65	10,000
1931	June 8, 1931	8.31	3,990	1951	Dec. 3, 1950	12.67	12,500
1932	Jan. 18, 1932	9.46	5,970	1952	Jan. 27, 1952	14.06	15,800
1933	Mar. 15, 1933	15.01	18,100	1953	May 23, 1953	10.37	7,500
1934	Apr. 4, 1934	10.48	8,070	1954	Apr. 17, 1954	10.00	6,700
1935	Aug. 7, 1935	12.10	11,300	1955	Oct. 15, 1954	16.24	21,500
				1956	May 13, 1956	13.30	13,900
				1957	Apr. 4, 1957	13.42	14,100
				1958	Aug. 1, 1958	14.67	17,000

[a]Estimated.
[b]Occurred Jan. 4, 1944; ice jam.

YELLOW CREEK BASIN

1100. Yellow Creek near Hammondsville, Ohio

Location. --Lat 40°32'15", long 80°43'35", in sec. 29, T. 8 N., R. 2 W., 1,000 ft upstream from Lowery Run, 0.9 mile upstream from Bush Creek, and 1.65 miles southwest of Hammondsville, Jefferson County.
Drainage area. --148 sq mi.
Gage. --Recording. Datum of gage is 692.1 ft above mean sea level (Ohio State Highway Department benchmark).
Stage-discharge relation. --Defined by current-meter measurements.
Historical data. --The highest stage known is reported to have occurred in 1912.
Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	July 19, 1941	8.43	4,260	1951	Apr. 29, 1951	8.93	4,820
1942	Apr. 9, 1942	8.0	3,690	1952	Jan. 27, 1952	12.17	9,580
1943	Dec. 30, 1942	8.58	4,560	1953	June 17, 1953	5.84	1,800
1944	Mar. 7, 1944	7.63	3,180	1954	June 17, 1954	6.11	2,000
1945	Mar. 7, 1945	9.40	5,100	1955	Mar. 4, 1955	9.07	5,060
1946	May 29, 1946	7.83	3,300	1956	Feb. 25, 1956	9.35	5,420
1947	June 7, 1947	8.73	4,300	1957	Apr. 5, 1957	9.04	4,940
1948	Apr. 12, 1948	10.50	6,750	1958	May 4, 1958	6.70	2,540
1949	Jan. 28, 1949	6.63	2,190				
1950	Jan. 6, Feb. 14	7.08	2,610				

1105. Yellow Creek at Hammondsville, Ohio

Location. --Lat 40°33'15", long 80°42'30", at highway bridge one-fifth of a mile southwest of Hammondsville, Jefferson County, and 1,000 ft above North Fork.

Drainage area. --169 sq mi.

Gage. --Nonrecording. At site 300 ft downstream at datum 1.26 ft higher Apr. 5 to Sept. 30, 1931. Altitude of gage is 680 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements below 3,900 cfs and extended above.

Historical data. --Highest flood known prior to Oct. 1, 1935, reached a stage of about 16 ft.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1916	Dec. 29, 1915	10.8	5,190	1926	Sept. 24, 1926	13.0	7,470
1917	Jan. 5, 1917	8.6	3,340	1927	Jan. 22, 1927	10.2	4,650
1918	Feb. 20, 1918	10.6	5,010	1928	Dec. 14, 1927	11.5	5,870
1919	July 17, 1919	12.6	7,030	1929	Feb. 26, 1929	13.2	7,590
1920	June 17, 1920	13.2	7,710	1930	Nov. 18, 1929	10.93	5,280
1921	Mar. 7, 1921	8.2	3,020	1931	Apr. 4, 1931	7.68	2,650
1922	Apr. 15, 1922	10.0	4,470	1932	Jan. 23, 1932	8.10	3,730
1923	May 12, 1923	12.6	7,030	1933	Mar. 19, 1933	8.32	3,910
1924	Jan. 16, 1924	12.6	7,030	1934	Mar. 3, 1934	10.0	5,200
1925	Feb. 8, 1925	[a]12.0	4,140	1935	Aug. 7, 1935	12.60	7,610

[a]Backwater from ice.

WHEELING CREEK BASIN

1120. Wheeling Creek at Elm Grove, W. Va.

Location. --Lat 40°02'40", long 80°39'40", at highway bridge at Elm Grove, Ohio County, 500 ft downstream from Little Wheeling Creek.

Drainage area. --282 sq mi.

Gage. --Recording. Datum of gage is 667.59 ft above mean sea level, datum of 1929.

Stage-discharge relation. --Defined by current-meter measurements below 8,500 cfs and extended above on basis on slope-area measurements at gage heights 13.2 and 13.67 ft.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	June 5, 1941	13.08	20,300	1951	Jan. 15, 1951	11.62	15,900
1942	Mar. 9, 1942	9.10	9,090	1952	Jan. 27, 1952	9.22	10,000
1943	Dec. 30, 1942	13.67	22,100	1953	May 7, 1953	6.77	6,740
1944	Mar. 5, 1944	7.95	6,920	1954	Apr. 17, 1954	4.39	3,240
1945	Mar. 6, 1945	12.67	19,100	1955	Oct. 16, 1954	9.90	11,600
1946	June 2, 1946	9.75	11,000	1956	July 27, 1956	9.05	9,600
1947	June 7, 1947	7.23	5,460	1957	Apr. 18, 1957	7.78	7,360
1948	Feb. 14, Apr. 14	[a]8.45	7,760	1958	May 4, 1958	7.23	6,340
1949	Dec. 15, 1948	7.38	5,800				
1950	Jan. 7, 1950	7.95	6,920				

[a]Occurred Feb. 14, 1948.

2125. Ashtabula River near Ashtabula, Ohio

Location. --Lat 41°51'19", long 80°45'43", at highway bridge 1 mile upstream from Hubbard Run, 1¼ miles southeast of Ashtabula, Ashtabula County, and 5½ miles upstream from mouth.

Drainage area. --118 sq mi.

Gage. --Nonrecording prior to Aug. 27, 1924; recording thereafter. Altitude of gage is 605 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1925	Feb. 9, 1925	[a]9.0	3,250	1941	Dec. 13, 1940	[a]6.20	2,700
				1942	May 16, 1942	9.67	10,800
1926	Sept. 24, 1926	[a]8.03	4,950	1943	Dec. 28, 1942	[a]8.6	3,930
1927	Oct. 25, 1926	[a]7.93	4,020	1944	Apr. 12, 1944	[a]7.2	3,700
1928	Dec. 1, 1927	7.73	5,430	1945	Feb. 23, 1945	[a]9.60	5,010
1929	Jan. 19, 1929	8.35	7,500				
1930	Jan. 12, 1930	[a]6.96	3,050	1946	June 1, 1946	6.60	4,180
				1947	June 8, 1947	8.43	7,500
1931	Apr. 2, 1931	6.94	2,010				
1932	May 8, 1932	5.51	3,150	1951	Dec. 4, 1950	8.25	7,180
1933	Dec. 31, 1932	7.51	5,230	1952	Jan. 27, 1952	6.30	4,450
1934	Aug. 9, 1934	[a]5.78	3,170	1953	May 23, 1953	7.94	6,810
1935	Feb. 15, 1935	4.98	2,500	1954	Mar. 1, 1954	7.51	6,250
				1955	Oct. 16, 1954	9.32	8,880
1940	Mar. 30, 1940	[a]9.16	4,470				
				1956	May 12, 1956	6.55	5,070
				1957	Jan. 23, 1957	7.38	6,110
				1958	Sept. 5, 1958	[a]4.60	2,800

[a]Occurred on different date than peak discharge; ice jams.

2130. Conneaut Creek at Amboy, Ohio

Location. --Lat 41°55'34", long 80°36'18", at highway bridge half a mile east of Amboy, Ashtabula County, 3 miles southwest of Conneaut, and 6½ miles upstream from mouth.

Drainage area. --178 sq mi.

Gage. --Nonrecording prior to Aug. 17, 1924; recording thereafter. Altitude of gage is 605 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1923	Mar. 4, 1923	[a]10.0	3,190	1951	Dec. 4, 1950	[a]9.22	8,830
1924	May 9, 1924	8.3	7,320	1952	Jan. 27, 1952	[a]12.25	5,140
1925	Feb. 9, 1925	5.9	3,900	1953	May 23, 1953	7.85	6,430
				1954	Mar. 1, 1954	7.97	6,810
1926	Sept. 25, 1926	8.1	7,700	1955	Oct. 16, 1954	10.74	12,900
1927	Oct. 26, 1926	6.5	4,850				
1928	Dec. 1, 1927	8.2	7,900	1956	May 13, 1956	[a]8.50	6,810
1929	Jan. 19, 1929	[a]11.0	7,900	1957	June 30, 1957	[a]10.35	7,400
1930	Jan. 13, 1930	5.70	3,610	1958	Sept. 5, 1958	8.77	8,410
1931	Apr. 2, 1931	4.52	2,050				
1932	May 9, 1932	5.50	3,330				
1933	Jan. 1, 1933	6.54	4,850				
1934	Mar. 4, 1934	12.94	3,900				
1935	Feb. 16, 1935	[a]10.4	3,750				

[a]Occurred on different date than peak discharge; ice jams.

2135. Cattaraugus Creek at Gowanda, N. Y.

Location. --Lat 42°27'50", long 78°56'10", at Gowanda, Erie County, 380 ft downstream from highway bridge and 4.2 miles downstream from South Branch.

Drainage area. --428 sq mi.

Gage. --Recording. Datum of gage is 738.74 ft above mean sea level (village of Gowanda benchmark).

Stage-discharge relation. --Defined by current-meter measurements below 6,500 cfs and extended above by logarithmic plotting.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1941	Apr. 5, 1941	8.84	15,500	1951	Nov. 25, 1950	10.87	17,600
1942	Mar. 17, 1942	13.73	35,900	1952	Mar. 11, 1952	8.84	12,300
1943	Dec. 30, 1942	9.72	16,800	1953	Mar. 24, 1953	6.75	6,730
1944	June 24, 1944	10.35	19,400	1954	Apr. 28, 1954	8.45	11,100
1945	Mar. 3, 1945	9.10	14,400	1955	Mar. 1, 1955	10.78	19,400
1946	Oct. 2, 1945	10.74	21,100	1956	Mar. 7, 1956	14.14	34,600
1947	Apr. 5, 1947	12.05	24,700	1957	Jan. 23, 1957	11.64	22,900
1948	Mar. 22, 1948	10.33	17,600	1958	June 13, 1958	8.46	11,200
1949	Jan. 5, 1949	8.77	8,820				
1950	Mar. 28, 1950	9.63	15,000				

STREAMS TRIBUTARY TO LAKE ONTARIO

2215. Genesee River at Scio, N. Y.

Location. --Lat 42°09'50", long 77°58'50", 0.4 mile upstream from Vandermark Creek and three-quarters of a mile upstream from Scio, Alleghany County.

Drainage area. --309 sq mi.

Gage. --Nonrecording prior to Aug. 11, 1938; recording thereafter. At datum 1.0 ft higher prior to Oct. 12, 1938. Altitude of gage is 1,440 ft (from topographic map).

Stage-discharge relation. --Defined by current-meter measurements.

Remarks. --Only annual peaks are shown.

Peak stages and discharges

Water year	Date	Gage height (feet)	Discharge (cfs)	Water year	Date	Gage height (feet)	Discharge (cfs)
1917	Mar. 12, 1917	[a]7.8	5,020	1936	Mar. 12, 1936	8.2	7,760
1918	Mar. 14, 1918	9.0	10,400	1937	Jan. 25, 1937	7.5	6,640
1919	May 22, 1919	9.1	10,600	1938	Mar. 6, 1938	7.8	7,120
1920	Mar. 12, 1920	8.16	8,810	1939	Feb. 20, 1939	8.54	7,180
1921	Feb. 17, 1921	5.1	3,810	1940	Mar. 31, 1940	9.22	8,530
1922	June 12, 1922	5.4	4,230	1941	Apr. 5, 1941	8.55	7,200
1923	Mar. 4, 1923	6.5	6,010	1942	July 18, 1942	9.74	9,740
1924	Sept. 30, 1924	7.90	8,320	1943	Dec. 30, 1942	9.07	8,290
1925	Feb. 11, 1925	7.8	8,140	1944	Mar. 17, 1944	7.06	4,810
1926	Mar. 23, 1926	[b]6.8	3,530	1945	May 18, 1945	9.12	8,390
1927	Mar. 21, 1927	6.6	6,090	1946	May 28, 1946	10.63	12,000
1928	Dec. 1, 1927	7.5	7,600	1947	Apr. 5, 1947	9.65	9,030
1929	Apr. 21, 1929	7.1	6,800	1948	Mar. 22, 1948	10.04	9,190
1930	Feb. 25, 1930	5.8	4,710	1949	Jan. 6, 1949	5.81	2,690
1931	May 24, 1931	4.6	3,020	1950	Mar. 28, 1950	10.13	9,390
1932	Feb. 11, 1932	5.3	3,970	1951	Nov. 25, 1950	11.22	12,200
1933	Apr. 7, 1933	4.9	3,410	1952	Mar. 11, 1952	9.00	6,450
1934	Mar. 27, 1934	5.8	4,710	1953	Mar. 24, 1953	9.30	7,060
1935	July 8, 1935	8.1	8,560	1954	Mar. 2, 1954	8.30	5,360
				1955	Mar. 1, 1955	8.76	6,080
				1956	Mar. 8, 1956	10.50	16,900
				1957	Jan. 23, 1957	8.98	8,240
				1958	Apr. 7, 1958	9.03	7,950

[a]Occurred Feb. 27, 1917; backwater from ice.
[b]Occurred Feb. 26, 1926; backwater from ice.

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