

AN INVENTORY OF SUSPENDED SEDIMENT STATIONS
AND TYPE OF DATA ANALYSIS FOR PENNSYLVANIA STREAMS

United States Department of the Interior
Geological Survey, Water Resources Division
Harrisburg, Pennsylvania

Open-File Report
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1947-70

By

Arthur N. Ott and Allen B. Commings

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INTRODUCTION

Data concerning suspended sediment concentrations and loads, frequency of occurrence of suspended sediment concentrations, and long-term trends of annual suspended sediment loads are important tools for today's environmental manager. These data are required background for those concerned with establishing and enforcing erosion and sedimentation control regulations and sediment concentration or turbidity standards for water-quality criteria, or those concerned with designing for adequate long-term water storage in reservoirs (sediment load), for efficient municipal and industrial plant operation (sediment concentration frequency), etc.

This is a compilation of the location, period of record, sampling frequency and type of data synthesis for suspended sediment carried by Pennsylvania streams. Figures 1 and 2 show the approximate locations of sediment sampling stations in Pennsylvania. All of the sediment data listed were collected by the U. S. Geological Survey mainly in cooperation with the following Federal, State, and local agencies.

Pennsylvania Department of Environmental Resources
Bureau of Engineering and Construction
Soil and Water Conservation Commission
Pennsylvania Department of Transportation
City of Philadelphia
Brandywine Valley Association
Delaware Geological Survey
Conestoga Valley Association
Lehigh County Soil and Water Conservation District
Corps of Engineers, U. S. Army

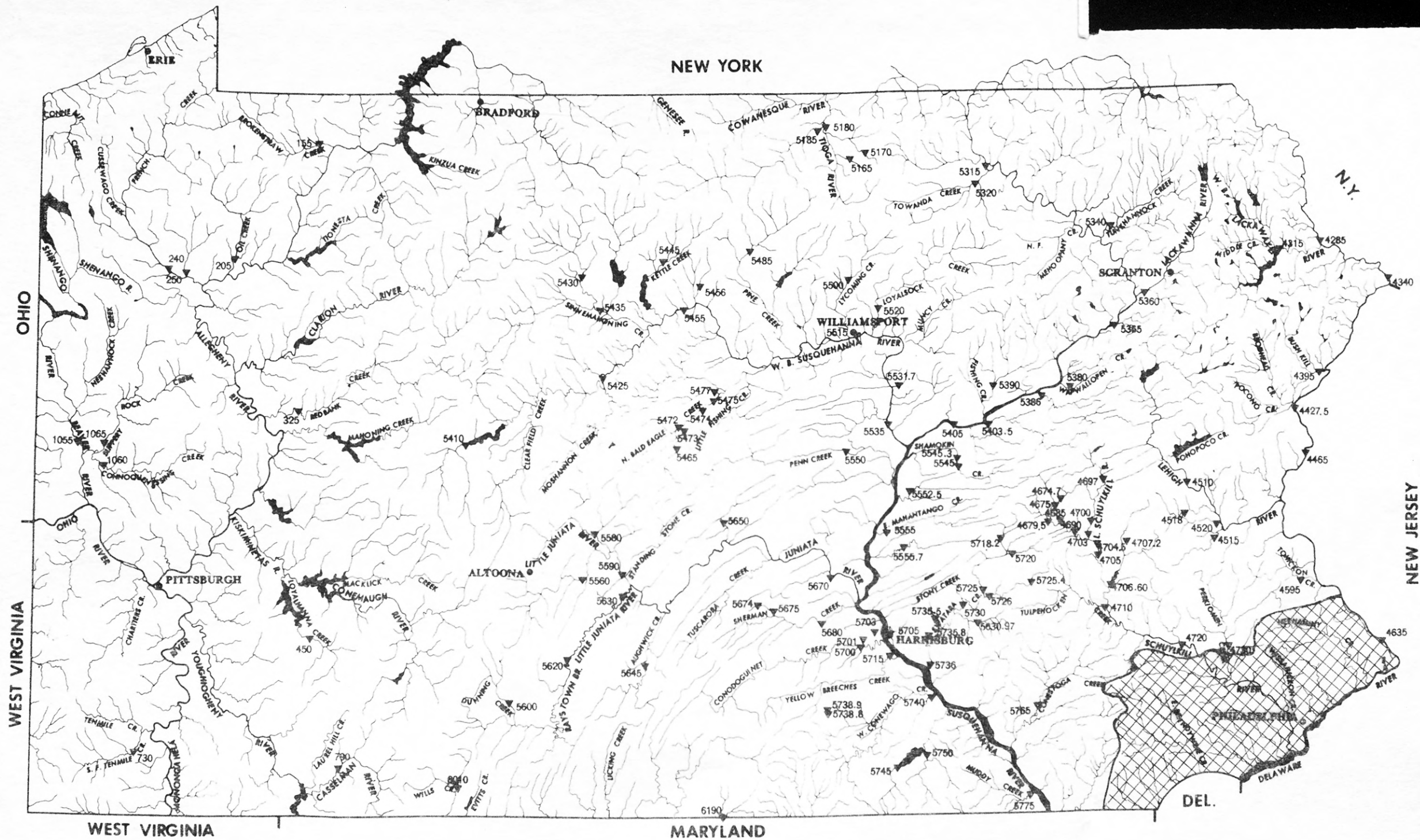


Figure 1.--Location of suspended sediment stations in Pennsylvania, 1947-70, exclusive of the lower Delaware River basin.

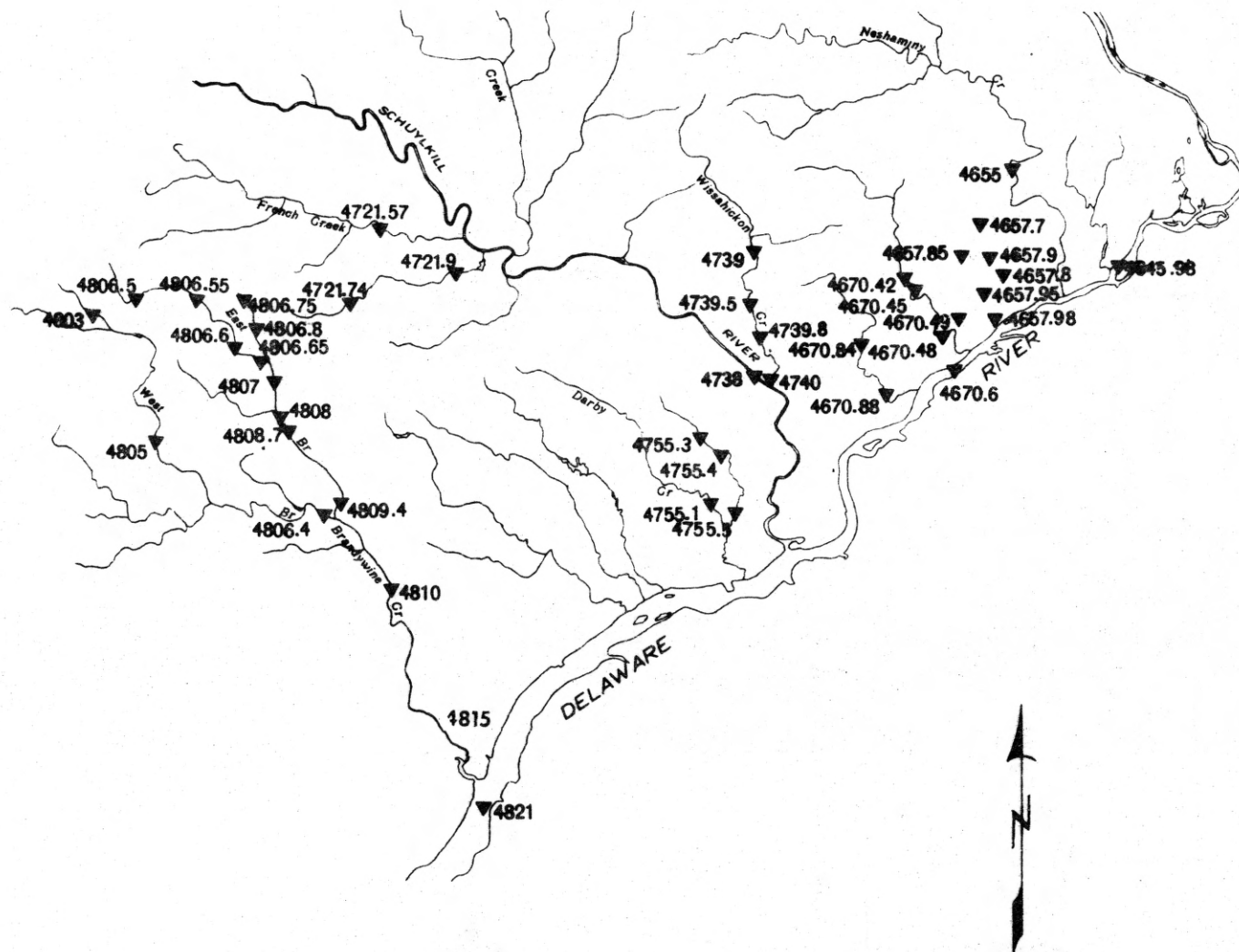


Figure 2.--Location of suspended sediment stations in the lower Delaware River basin, Pennsylvania, 1947-70.

PUBLISHED SEDIMENT DATA

Sediment data collected by the Geological Survey for water years¹ 1948-67 are available in the Water-Supply Papers of the Geological Survey "Quality of Surface Waters of the United States."

Numbers of Water-Supply Papers containing suspended sediment records for water years 1948-67

Year	WSP	Year	WSP	Year	WSP	Year	WSP
1948	1132	1953	1290	1958	1571	1963	1947
1949	1162	1954	1350	1959	1641	1964	1954
1950	1184	1955	1400	1960	1741	1965	1961
1951	1197	1956	1450	1961	1881	1966	1991
1952	1250	1957	1520	1962	1941	1967	2011

Data collected subsequent to 1963 are also available in the annual basic-data reports "Water Resources Data for Pennsylvania, Part 2. Water Quality Records."

MEASUREMENT AND ANALYSIS OF SUSPENDED SEDIMENT SAMPLES

Suspended sediment samples were collected with depth-integrating and point-integrating samplers and automatic-pumping samplers. The sample container is a one-pint round milk bottle.

Sampling equipment, field methods, sediment computations, and laboratory methods are described in the U. S. Geological Survey technique manuals by Guy (1970), Guy and Norman (1970), Porterfield (1972), and Guy (1969).

DEFINITION OF TERMS

Station Name and Location

The name of the sampling site for a particular stream usually corresponds to the name of the nearest post office. Most sampling sites are located at or near Geological Survey stream-gaging stations.

Station Number

The station number is assigned by the Geological Survey as an added means of identification.

Drainage Area

Drainage area is measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff normally drains by gravity into the stream above the specified point.

¹. The water year is the period October 1 through September 30 and is designated by the calendar year in which it ends.

Period of Record

The period of record is shown by the years in which suspended sediment data were collected.

Sampling Frequency

Daily station (D) are sites sampled at least once a day or for which suspended sediment discharge is computed for each day.

Periodic or miscellaneous stations (P) are sites normally sampled only on a storm basis.

Sediment Transport Curve

The sediment transport curve is a graphic display of the relation between the instantaneous or mean daily suspended sediment discharge and its respective water discharge. (See fig. 3, p. 6.)

Sediment Concentration Frequency

The concentration frequency is a cumulative frequency table that indicates the percent of time specified suspended sediment concentrations are equaled or exceeded. Example:

Mean concentration in milligrams per liter (mg/l)
equaled or exceeded for indicated percent of time
Juniata River at Newport, 1951-69

Percent	1	2	5	10	20	30	40	50	60	70	80	90	95	99
mg/l	260	176	90	48	25	17	12	9	6	5	4	3	2	1

Sediment Discharge Trend Analysis

Sediment trend curve or double mass curve as used in this report is a plot of the cumulative sediment discharge against cumulative water discharge for the period of record. A straight-line relation is indicative of a constancy in proportionality between the two variables. A change in the slope of the relation is indicative of a change of proportionality of the variables. Because water discharge is considered the independent variable, an increase in slope from the previous slope indicates an increase in sediment discharge, and a decrease in slope indicates a decrease in sediment discharge. (See fig. 4, p. 7.)

Particle Size

Particle size is the diameter, in millimeters (mm) of suspended or bed sediment determined by sieve or sedimentation methods.

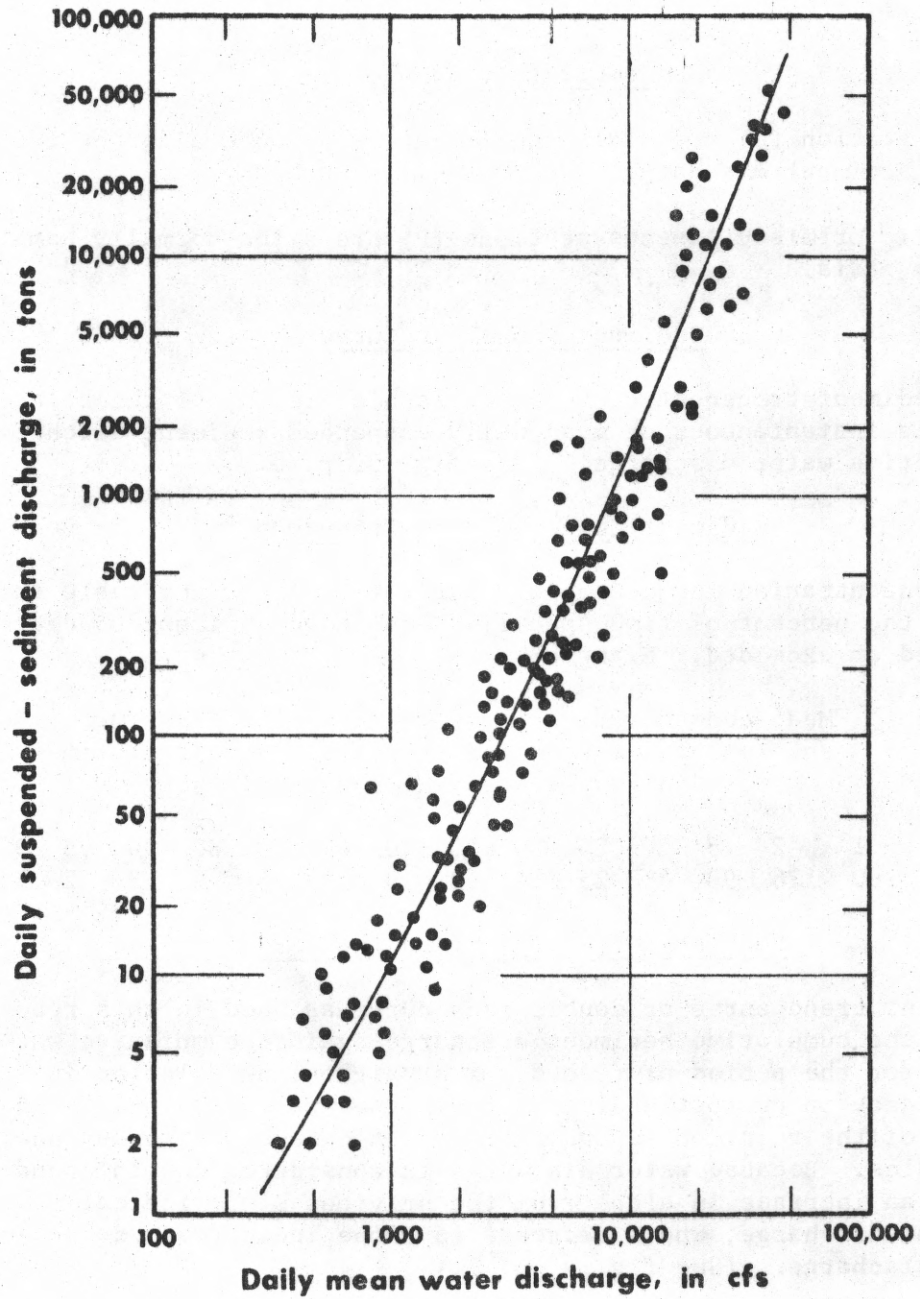


Figure 3.--Sediment transport curve with selected data for the Juniata River at Newport, Pa., October 1951 to September 1970.

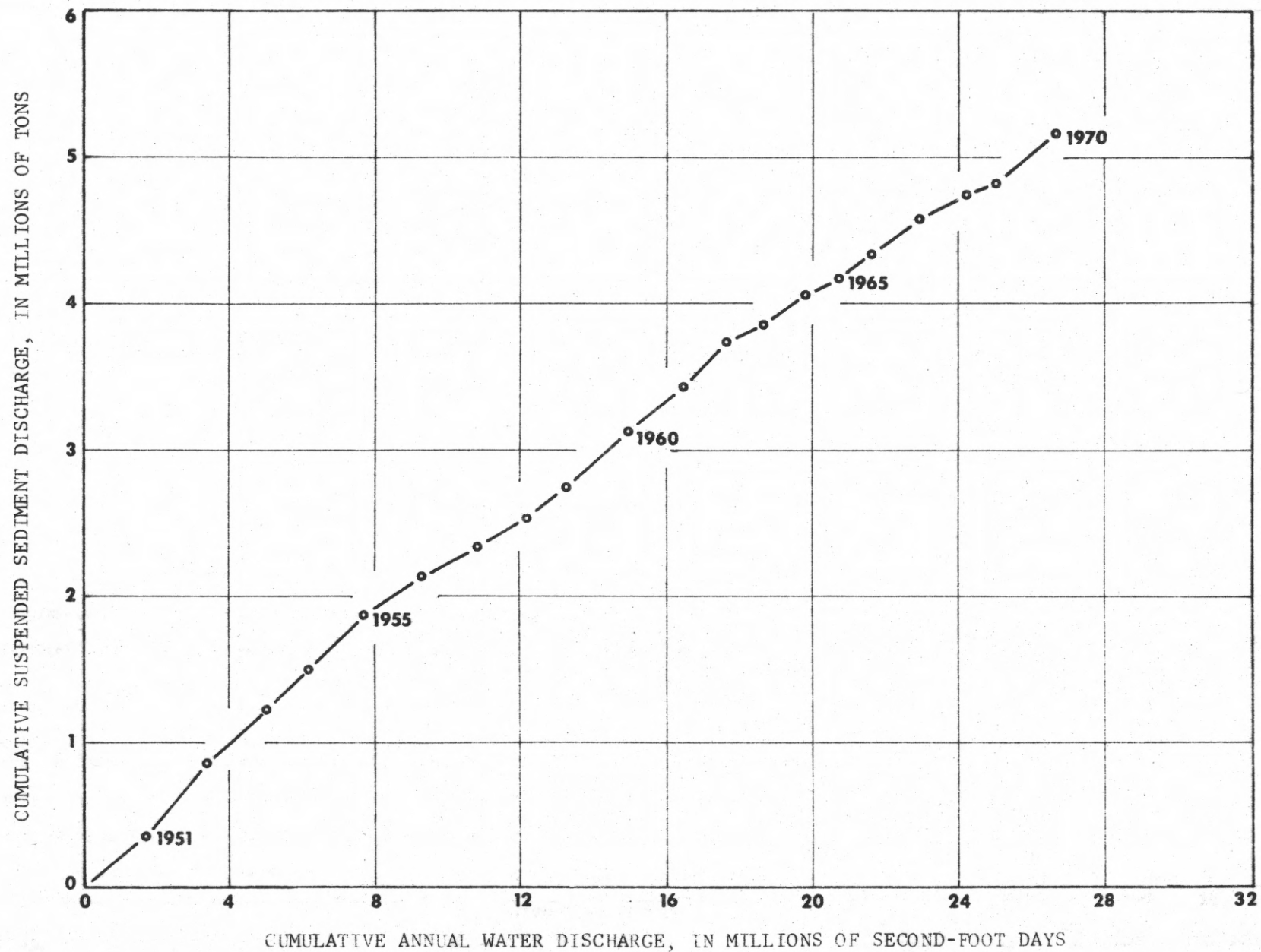


Figure 4.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Juniata River at Newport, 1951-70.

Inventory of suspended-sediment data for Pennsylvania, 1947-70

		X, Data available; -- Data not available							
Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analysis	Particle-size
DELAWARE RIVER BASIN									
Brandywine Creek at Chadds Ford, Pa.	Delaware	01-4810.00	287	1963-70	D	X	X	X	X
Brandywine Creek at Wilmington, Del.	New Castle (Del.)	01-4815.00	314	1947-70	D	X	X	X	X
Bush Kill at Shoemakers, Pa.	Monroe	01-4395.00	117	1958	P	X	--	--	--
Byberry Creek at Chalfont Road, Philadelphia, Pa.	Philadelphia	01-4657.90	5.34	1966-68, 1970	P	X	--	--	X
Byberry Creek at Grant Avenue, Philadelphia, Pa.	-----do.-----	01-4657.95	7.13	1965-70	P	X	--	--	X
Cobbs Creek at Darby, Pa.	Delaware	01-4755.50	22.0	1965-69	P	X	--	--	--
Cobbs Creek at U.S. Highway 1 near Philadelphia, Pa.	Philadelphia	01-4755.30	4.78	1965-70	P	X	--	--	X
Cobbs Creek below Indian Creek near Upper Darby, Pa.	-----do.-----	01-4755.40	9.65	1965-69	P	X	--	--	X
Culbertson Run at Lyndell, Pa.	Chester	01-4806.62	3.92	1967-68	P	--	--	--	--
Darby Creek near Darby, Pa.	Delaware	01-4755.10	37.4	1965-69	P	X	--	--	--
Delaware River above Lackawaxen River near Barryville, N.Y.	Pike (Pa.) Sullivan (N.Y.)	01-4285.00	2,023	1956-58	P	X	--	--	X
Delaware River at Belvidere, N.J.	Warren (N.J.)	01-4465.00	4,535	1957-58	P	X	--	--	X
Delaware River at Burlington, N.J. (Bristol, Pa.-Burlington, N.J. bridge)	Bucks (Pa.) Burlington (N.J.)	01-4646.00	7,160	1963-64	P	--	--	--	--
Delaware River at Delaware Memorial Bridge, Wilmington, Del.	New Castle (Del.)	01-4821.00	11,030	1967	P	--	--	--	--
Delaware River at Dunnfield, N.J.	Monroe (Pa.) Warren (N.J.)	01-4427.50	4,120	1964-70	D	X	--	--	X
Delaware River at Palmyra, N.J. (Tacony, Pa.-Palmyra, N.J. bridge)	Philadelphia (Pa.) Burlington (N.J.)	01-4670.60	7,850	1962-64	P	--	--	--	X

Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
Delaware River at Port Jervis, N.Y.	Pike (Pa.) Orange (N.Y.)	01-4340.00	3,076	1957	D	X	--	--	X
Delaware River at Trenton, N.J. (Morrisville, Pa.)	Bucks (Pa.) Mercer (N.J.)	01-4635.00	6,780	1949-70	D	X	--	--	X
East Branch Brandywine Creek at Cupola, Pa.	Chester	01-4806.50	6.20	1967-68	P	X	--	--	--
East Branch Brandywine Creek at Dorlan, Pa.	----do.-----	01-4806.65	33.4	1967-68	P	X	--	--	--
East Branch Brandywine Creek at Downingtown, Pa.	----do.-----	01-4808.00	81.6	1965-66	P	X	--	--	--
East Branch Brandywine Creek below Downingtown, Pa.	----do.-----	01-4808.70	89.9	1966	P	--	--	--	--
East Branch Brandywine Creek near Downingtown, Pa.	----do.-----	01-4807.00	60.6	1967	P	--	--	--	--
East Branch Brandywine Creek at Glenmoore, Pa.	----do.-----	01-4806.55	16.5	1967-68	P	--	--	--	--
East Branch Brandywine Creek at Lyndell, Pa.	----do.-----	01-4806.60	27.1	1968	P	--	--	--	--
East Branch Brandywine Creek near Sconnelstown, Pa.	----do.-----	01-4809.40	118	1965-66	P	--	--	--	--
East Branch Brandywine Creek tributary near Cupola, Pa.	----do.-----	01-4806.52	3.70	1967-68	P	--	--	--	--
East Branch Delaware River at Fishs Eddy, N.Y.	Delaware (N.Y.)	01-4210.00	783	1957	P	X	--	--	X
Frankford Creek at Torresdale Avenue at Philadelphia, Pa.	Philadelphia	01-4670.88	33.8	1966-70	P	X	--	--	X
French Creek near Phoenixville, Pa.	Chester	01-4721.57	59.1	1969	P	--	--	--	--
Indian Creek near Zionsville, Pa.	Lehigh	01-4721.95	3.82	1967	P	--	--	--	--
Indian Run at Glenmoore, Pa.	Chester	01-4806.58	6.29	1967-68	P	--	--	--	--
Indian Run at Little Germany Road near Honey Brook, Pa.	----do.-----	01-4806.56	2.0	1967-68	P	--	--	--	--

Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
Jordan Creek at Allentown, Pa.	Lehigh	01-4520.00	75.8	1967-69	P	X	--	--	X
Jordan Creek at Guthsville, Pa.	----do.-----	01-4518.80	67.8	1968	P	--	--	--	--
Jordan Creek at Kernsville, Pa.	----do.-----	01-4518.40	57.1	1968	P	--	--	--	--
Jordan Creek at Scherersville, Pa.	----do.-----	01-4519.50	73.5	1968	P	--	--	--	--
Jordan Creek near Schnecksville, Pa.	----do.-----	01-4518.00	53.0	1967-69	P	X	--	--	--
Jordan Creek at Stetlersville, Pa.	----do.-----	01-4519.00	70.4	1967	P	--	--	--	--
Lackawaxen River at Hawley, Pa.	Wayne	01-4315.00	290	1958	P	--	--	--	X
Lehigh River at Walnutport, Pa.	Northampton	01-4510.00	889	1948-53, 1967-69	D	X	--	--	X
Little Lehigh Creek near Allentown, Pa.	Lehigh	01-4515.00	80.8	1967-68	P	X	--	--	--
Little Schuylkill River at Dreherstown, Pa.	Schuylkill	01-4700.00	122	1948-51, 1963-65	D	X	--	--	X
Little Schuylkill River at Port Clinton, Pa.	----do.-----	01-4703.00	-----	1948-51	P	--	--	--	X
Little Schuylkill River at South Tamaqua, Pa.	----do.-----	01-4697.00	65.7	1948-51	D	X	--	--	X
Lyon Creek near Weidasville, Pa.	Lehigh	01-4517.40	12.4	1967	P	--	--	--	--
Maiden Creek at East Berkley, Pa.	Berks	01-4706.60	192	1963-65	P	--	--	--	--
Maiden Creek tributary at Lenhartsville, Pa.	----do.-----	01-4707.20	7.46	1963-65	P	--	--	--	--
Marsh Creek near Glenmoore, Pa.	Chester	01-4806.75	8.57	1968	P	--	--	--	--
Marsh Creek near Lyndell, Pa.	----do.-----	01-4806.80	17.8	1965-66, 1968	P	--	--	--	--
Mill Creek near Weidasville, Pa.	Lehigh	01-4517.80	9.55	1967	P	--	--	--	--
Neshaminy Creek near Langhorne, Pa.	Bucks	01-4655.00	210	1956-59, 1966-69	P	X	--	--	X
Pennypack Creek at Lower Rhawn Street Bridge, Philadelphia, Pa.	Philadelphia	01-4670.48	49.8	1966-69	P	X	--	--	--
Pennypack Creek at Pine Road Philadelphia, Pa.	----do.-----	01-4670.42	37.9	1965-69	P	X	--	--	--

Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
Pennypack Creek below Verre Road Philadelphia, Pa.	Philadelphia	01-4670.45	42.8	1965-69	P	X	--	--	--
Perkiomen Creek at Graterford, Pa.	Montgomery	01-4730.00	279	1948-53, 1963-66	D	X	--	--	X
Pickering Creek near Chester Springs, Pa.	Chester	01-4721.74	5.98	1967-69	P	--	--	--	--
Pickering Creek near Phoenixville, Pa.	----do.-----	01-4721.90	31.4	1967-68	P	--	--	--	--
Pickering Creek tributary at Chester Springs, Pa.	----do.-----	01-4721.76	4.33	1967-68	P	--	--	--	--
Pickering Creek tributary near Kimberton, Pa.	----do.-----	01-4721.85	3.06	1967-68	P	--	--	--	--
Pigeon Run at Merlin, Pa.	----do.-----	01-4721.86	28.5	1967-68	P	--	--	--	--
Pine Creek at Chester Springs, Pa.	----do.-----	01-4721.83	5.06	1967-68	P	--	--	--	--
Pine Creek near Lionsville, Pa.	----do.-----	01-4721.82	1.12	1967	P	--	--	--	--
Pine Creek at Sharp Farm near Lionsville, Pa.	----do.-----	01-4721.81	.5	1968	P	--	--	--	--
Poquessing Creek above Byberry Creek at Philadelphia, Pa.	Philadelphia Bucks	01-4657.80	13.2	1965-70	P	X	--	--	--
Poquessing Creek at Grant Avenue, Philadelphia, Pa.	----do.-----	01-4657.98	21.4	1965-70	P	X	--	--	--
Poquessing Creek at Trevoise Road at Philadelphia, Pa.	----do.-----	01-4657.70	5.08	1965-69	P	X	--	--	--
Rock Run at Charleston, Pa.	Chester	01-4721.89	2.57	1967-68	P	--	--	--	--
Schuylkill River at Auburn, Pa.	Schuylkill	01-4690.00	160	1947-51, 1965-66	D	X	--	--	X
Schuylkill River at Berne, Pa.	Berks	01-4705.00	355	1947-70	D	X	X	X	X
Schuylkill River at Hamburg, Pa.	----do.-----	01-4704.50	340	1949-50	P	--	--	--	--
Schuylkill River at Landingville, Pa.	Schuylkill	01-4685.00	133	1947-51, 1965-66	D	X	--	--	X
Schuylkill River at Manayunk, Philadelphia, Pa.	Philadelphia	01-4738.00	993	1947-70	D	X	X	X	X

Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
Schuylkill River at Port Carbon, Pa.	Schuylkill	01-4674.70	27.1	1949	D	X	--	--	X
Schuylkill River at Pottstown, Pa.	Montgomery	01-4720.00	1,147	1948	D	X	--	--	X
Schuylkill River at Pottsville, Pa.	Schuylkill	01-4675.00	53.4	1965-66	P	X	--	--	--
Switzer Creek near Pleasant Corners, Pa.	Lehigh	01-4517.00	8.44	1967	P	--	--	--	--
Tacony Creek at County Line Philadelphia, Pa.	Philadelphia	01-4670.84	16.2	1966-69	P	X	--	--	--
Tohickon Creek near Pipersville, Pa.	Bucks	01-4595.00	97.4	1958	P	X	--	--	X
Tulpehocken Creek near Reading, Pa.	Berks	01-4710.00	211	1963-65	P	X	--	--	--
Unnamed tributary to Pickering Creek near Chester Springs, Pa.	Chester	01-4721.75	1.9	1967-68	P	X	--	--	--
Walton Run at Philadelphia, Pa.	Philadelphia	01-4657.85	2.17	1965-68	P	X	--	--	X
West Branch Brandywine Creek at Coatsville, Pa.	Chester	01-4805.00	45.8	1965-66	P	--	--	--	--
West Branch Brandywine Creek near Honey Brook, Pa.	-----do.-----	01-4803.00	18.7	1965-66, 1968	P	X	--	--	X
West Branch Brandywine Creek at Wawaset, Pa.	-----do.-----	01-4806.40	134	1965-66	P	--	--	--	--
West Branch Delaware River at Hale Eddy, N.Y.	Delaware (N.Y.)	01-4265.00	593	1956-58	P	X	--	--	X
West Branch Schuylkill River at Cressona, Pa.	Schuylkill	01-4679.50	52.5	1963-66	P	X	--	--	X
White Clay Creek above Newark, Del.	New Castle (Del.)	01-4785.00	66.7	1965-70	D	X	--	--	X
Wissahickon Creek at Bells Mill Road Philadelphia, Pa.	Philadelphia	01-4739.50	53.6	1966-69	P	X	--	--	--
Wissahickon Creek at Livezey Lane, Philadelphia, Pa.	-----do.-----	01-4739.80	59.2	1966-69	P	X	--	--	--
Wissahickon Creek at mouth, Philadelphia, Pa.	-----do.-----	01-4740.00	64	1966-69	P	X	--	--	--
Wissahickon Creek at Fort Washington, Pa.	Montgomery	01-4739.00	40.8	1963-69	D	X	--	--	X
Wooden Bridge Run at Philadelphia, Pa.	Philadelphia	01-4670.49	3.35	1965-70	P	X	--	--	X

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Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
SUSQUEHANNA RIVER BASIN									
✓ Aughwick Creek near Three Springs, Pa.	Huntingdon	01-5645.00	205	1966-69	P	X	--	--	--
Bald Eagle Creek at Blanchard, Pa.	Centre	01-5475.00	339	1956-58	D	X	--	--	X
Bald Eagle Creek below Spring Creek at Milesburg, Pa.	----do.-----	01-5472.00	265	1956-58	D	X	--	--	X
Bald Eagle Creek near Milesburg, Pa. (at Curtin)	----do.-----	01-5474.00	296	1970	P	--	--	--	--
✓ Beaver Creek at Hummelstown, Pa.	Dauphin	01-5735.80	27.1	1959-60	P	--	--	--	--
✓ Bixler Run (at Kistler) near Loysville, Pa.	Perry	01-5674.00	5.45	1954-62	P	--	--	--	--
✓ Bixler Run near Loysville, Pa.	----do.-----	01-5675.00	15.0	1954-70	D	X	X	X	X
13 Catawissa Creek at Catawissa, Pa.	Columbia	01-5403.50	149	1949	P	--	--	--	--
Chemung River at Chemung, N.Y.	Chemung (N.Y.)	01-5310.00	2,530	1962-67	P	X	--	--	X
Chenango River at Greene, N.Y.	Chenango (N.Y.)	01-5070.00	598	1963-67	P	X	--	--	X
Cohocton River near Campbell, N.Y.	Steuben (N.Y.)	01-5295.00	472	1962-67	P	X	--	--	X
✓ Conestoga Creek at Lancaster, Pa.	Lancaster	01-5765.00	324	1961-69	P	X	X	--	X
✓ Conodoguinet Creek near Hogestown, Pa.	Cumberland	01-5700.00	470	1962, 1965, 1967-68	P	X	--	--	--
✓ Conodoguinet Creek tributary No. 1 near Enola, Pa.	----do.-----	01-5701.00	.77	1969-70	D	X	--	--	X
✓ Conodoguinet Creek tributary No. 2 near Enola, Pa.	----do.-----	01-5702.00	.76	1969-70	D	X	--	--	X
✓ Conodoguinet Creek tributary No. 2A near Enola, Pa.	----do.-----	01-5702.30	.70	1969-70	D	X	--	--	X
✓ Conodoguinet Creek tributary No. 2B near Enola, Pa.	----do.-----	01-5702.60	.65	1969-70	D	X	--	--	X
✓ Conodoguinet Creek tributary No. 3 near Enola, Pa.	----do.-----	01-5703.00	.38	1969-70	D	X	--	--	X

Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
Corey Creek at Mainesburg, Pa.	Tioga	01-5164.00	8.44	1954-65	P	--	--	--	--
Corey Creek near Mainesburg, Pa.	----do.-----	01-5165.00	12.2	1954-67	D	X	--	--	X
Crooked Creek at Tioga, Pa.	----do.-----	01-5185.00	122	1965-67, 1969	P	X	--	--	X
Driftwood Branch Sinnemahoning Creek at Sterling Run, Pa.	Cameron	01-5430.00	272	1964-67	P	X	--	--	X
✓ Dunning Creek at Belden, Pa.	Bedford	01-5600.00	172	1962, 1964-69	P	X	--	--	X
✓ East Branch Bixler Run (near Kistler) near Loysville, Pa.	Perry	01-5674.60	1.90	1954-62	P	---	--	--	--
✓ East Mahantango Creek near Dalmatia, Pa.	Northumberland	01-5555.00	162	1962, 1964-69	P	X	--	--	X
Elk Run near Mainesburg, Pa.	Tioga	01-5170.00	10.2	1954-67	D	X	--	--	X
Fishing Creek near Bloomsburg, Pa.	Columbia	01-5390.00	274	1963-69	D	X	X	--	X
✓ Frankstown Branch Juniata River at Williamsburg, Pa.	Blair	01-5560.00	291	1960	P	--	--	--	--
✓ Juniata River at Huntingdon, Pa.	Huntingdon	01-5590.00	816	1959-60, 1962, 1964-68	P	X	--	--	X
✓ Juniata River at Newport, Pa.	Perry	01-5670.00	3,354	1951-70	D	X	X	X	X
Kettle Creek at Cross Fork, Pa.	Potter	01-5445.00	136	1966-69	P	X	--	--	--
✓ Kishacoquillas Creek at Reedsville, Pa.	Mifflin	01-5650.00	164	1962, 1964, 1966	P	X	--	--	X
Lackawanna River at Old Forge, Pa.	Lackawanna	01-5360.00	332	1962, 1967	P	X	--	--	X
✓ Latimore Creek tributary near York Springs, Pa.	Adams	01-5738.80	1.26	1969	P	--	--	--	X
✓ Little Juniata River at Spruce Creek, Pa.	Huntingdon	01-5580.00	220	1962	P	--	--	--	--
✓ Little Swatara Creek at Jonestown, Pa.	Lebanon	01-5726.00	83.7	1959, 1962-63	P	X	--	--	X
✓ Little Swatara Creek near Mt. Aetna, Pa.	Berks	01-5725.40	27.5	1959-60	P	--	--	--	--
✓ Lower Little Swatara Creek at Pine Grove, Pa.	Schuylkill	01-5720.00	34.3	1959-60	P	--	--	--	--

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Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
Loyalsock Creek at Loyalsockville, Pa.	Lycoming	01-5520.00	443	1959-60, 1962-64, 1966, 1968-69	P	X	--	--	--
Lycoming Creek near Trout Run, Pa.	----do.-----	01-5500.00	173	1966-69	P	--	--	--	--
✓ Mahanoy Creek at Dornsife, Pa.	Northumberland	01-5552.50	117	1949-50	P	--	--	--	X
✓ Manada Creek near Sand Beach, Pa.	Dauphin	01-5735.50	32	1959-60	P	--	--	--	--
Marsh Creek at Blanchard, Pa.	Centre	01-5477.00	44.1	1956-58	D	X	--	--	X
✓ Muddy Creek at Castle Fin, Pa.	York	01-5775.00	133	1968-70	P	X	--	--	X
Nescopeck Creek at Nescopeck, Pa.	Luzerne	01-5386.00	171	1949-50	P	--	--	--	X
Nittany Creek near Curtin, Pa.	Centre	01-5473.00	16.9	1956-57	P	--	--	--	--
✓ North Branch Bixler Run (at Kistler) near Loysville, Pa.	Perry	01-5674.40	2.79	1954-64	P	--	--	--	X
✓ North Branch Bixler Run (at Palms) near Loysville, Pa.	----do.-----	01-5674.20	.54	1954-64	P	--	--	--	--
North Branch Corey Creek at Mainesburg, Pa.	Tioga	01-5164.20	2.13	1954-65	P	--	--	--	--
✓ North Fork Latimore Creek near York Springs, Pa.	Adams	01-5738.90	2.20	1970	P	--	--	--	--
Owego Creek near Owego, N.Y.	Tioga (N.Y.)	01-5140.00	186	1962-67	P	X	--	--	X
✓ Penns Creek at Penns Creek, Pa.	Snyder	01-5550.00	301	1964-68	P	X	--	--	X
Pine Creek at Cedar Run, Pa.	Lycoming	01-5485.00	604	1966-69	P	X	--	--	X
✓ Quittaphilla Creek near Annville, Pa.	Lebanon	01-5730.97	59.4	1959-63	P	X	--	--	X
✓ Quittaphilla Creek at Snyder, Pa.	----do.-----	01-5732.00	75.6	1959-60	P	--	--	--	--
✓ Raystown Branch Juniata River near Huntingdon, Pa.	Huntingdon	01-5630.00	957	1968	P	--	--	--	--
✓ Raystown Branch Juniata River at Saxton, Pa.	Bedford	01-5620.00	756	1959, 1960, 1962, 1964, 1966-69	P	X	--	--	X
✓ Shamokin Creek at Paxinos, Pa.	Northumberland	01-5545.30	-----	1967	P	--	--	--	--
✓ Shamokin Creek near Shamokin, Pa.	----do.-----	01-5545.00	54.2	1949-50, 1962, 1967	P	X	--	--	X

Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
✓ Sherman Creek at Shermans Dale, Pa.	Perry	01-5680.00	200	1961-68	P	X	--	--	X
Sinnemahoning Creek at Sinnemahoning, Pa.	Cameron	01-5435.00	685	1959, 1962, 1963	P	--	--	--	--
Spring Creek near Axemann, Pa.	Centre	01-5465.00	87.2	1964-68	P	X	--	--	X
✓ Spring Creek at Union Deposit, Pa.	Dauphin	01-5735.70	24.6	1959-60	P	--	--	--	--
✓ Spring Creek tributary near Harrisburg, Pa.	Dauphin	01-5711.00	1.85	1969	P	--	--	--	--
✓ South Branch Codorus Creek near York, Pa.	York	01-5750.00	117	1966-68	D	X	X	--	X
South Branch Corey Creek at Mainesburg, Pa.	Tioga	01-5163.80	3.57	1954-65	P	--	--	--	--
Susquehanna River at Conklin, N.Y.	Broome (N.Y.)	01-5030.00	2,240	1962-64, 1966-67	P	X	--	--	X
Susquehanna River at Danville, Pa.	Montour	01-5405.00	11,220	1963-68	P	X	--	--	X
✓ Susquehanna River at Harrisburg, Pa.	Dauphin	01-5705.00	24,100	1948, 1950, 1958 1961-70	D	X	X	--	X
Susquehanna River at Towanda, Pa.	Bradford	01-5315.00	7,797	1951-54, 1962-64, 1966-69	D	X	--	--	X
Susquehanna River at Unadilla, N.Y.	Otsego (N.Y.)	01-5005.00	984	1962, 1964, 1967	P	X	--	--	X
Susquehanna River near Waverly, N.Y.	Bradford (Pa.) Tioga (N.Y.)	01-5150.00	4,500	1962-67	P	X	--	--	X
Susquehanna River at Wilkes-Barre, Pa.	Luzerne	01-5365.00	9,960	1964	P	--	--	--	--
✓ Swatara Creek at Harper Tavern, Pa.	Lebanon	01-5730.00	337	1949, 1959-60	D	X	--	--	X
✓ Swatara Creek at Jonestown, Pa.	-----do.-----	01-5725.00	190	1959-60	P	--	--	--	--
✓ Swatara Creek at Middletown, Pa.	Dauphin	01-5736.00	565	1959	P	--	--	--	--
✓ Swatara Creek at Ravine, Pa.	Schuylkill	01-5718.20	43.3	1959, 1960	P	X	--	--	X
Tioga River near Erwins, N.Y.	Steuben (N.Y.)	01-5265.00	1,370	1963-67	P	X	--	--	--
Tioga River at Lindley, N.Y.	-----do.-----	01-5205.00	770	1964-67	P	X	--	--	X
Tioga River at Tioga, Pa.	Tioga	01-5180.00	282	1964-67	P	X	--	--	X
Towanda Creek near Monroeton, Pa.	Bradford	01-5320.00	215	1963, 1966-69	P	--	--	--	--

Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
Tunkhannock Creek at Tunkhannock, Pa. (Formerly at Dixon, Pa.)	Wyoming	01-5340.00	383	1959, 1962-64	P	X	--	--	--
Unadilla River near New Berlin, N.Y.	Chenango (N.Y.)	01-5010.00	196	1966-68	P	X	--	--	X
Unadilla River at Rockdale, N.Y.	----do.-----	01-5025.00	518	1962-67	P	X	--	--	X
Wapwallopen Creek near Wapwallopen, Pa.	Luzerne	01-5380.00	43.8	1949	P	--	--	--	--
Warrior Run at McEwensville, Pa.	Northumberland	01-5531.70	20.1	1970	P	X	--	--	X
West Branch Susquehanna River at Bower, Pa.	Clearfield	01-5410.00	315	1959, 1962 - 1967	D	X	--	--	X
West Branch Susquehanna River at Karthaus, Pa.	----do.-----	01-5425.00	1,462	1962 - 1963	P	--	--	--	--
West Branch Susquehanna River at Lewisburg, Pa.	Union	01-5535.00	6,847	1959, 1960, 1962-64, 1966-69	P	X	--	--	X
West Branch Susquehanna River at Renovo, Pa.	Clinton	01-5455.00	2,975	1962-63 1967-68	P	X	--	--	X
West Branch Codorus Creek at Spring Grove, Pa.	York	01-5745.00	75.5	1953, 1959-60	P	--	--	--	--
West Branch Susquehanna River at Williamsport, Pa.	Lycoming	01-5515.00	5,682	1963, 1966-68	P	--	--	--	--
West Conewago Creek near Manchester, Pa.	York	01-5740.00	510	1962-64, 1966-69	P	X	--	--	X
Wiconisco Creek at Elizabethville, Pa.	Dauphin	01-5555.70	60.7	1949-50	P	--	--	--	--
Yellow Breeches Creek near Camp Hill, Pa.	Cumberland	01-5715.00	216	1960-68	P	X	--	--	X
Young Womans Creek near Renovo, Pa. (Bench Mark Station)	Clinton	01-5456.00	46.2	1965-70	P	X	--	--	X

Station name	County	Station number	Drainage area (sq mi)	Period of record	Sampling frequency	Transport curve	Concentration frequency	Trend analyses	Particle size
POTOMAC RIVER BASIN									
Antietam Creek near Sharpsburg, Md.	Washington (Md.)	01-6195.00	281	1960-62	P	X	--	--	--
Antietam Creek near Waynesboro, Pa.	Franklin	01-6190.00	93.5	1948-50	P	X	--	--	--
Conococheague Creek at Fairview, Md.	Washington (Md.)	01-6145.00	494	1949-50, 1959-60, 1966-70	P	X	--	--	--
Monocacy River at Bridgeport, Md.	Carroll (Md.)	01-6390.00	173	1948-51, 1960-61	P	X	--	--	--
Wills Creek below Hyndman, Pa.	Bedford	01-6010.00	146	1960-62	P	X	--	--	X
OHIO RIVER BASIN									
Brokenstraw Creek at Youngsville, Pa.	Warren	03-0155.00	321	1969-70	D	X	--	--	X
Beaver River at Wampum, Pa.	Lawrence	03-1055.00	2,235	1970	P	X	--	--	--
Casselman River at Markleton, Pa.	Somerset	03-0790.00	382	1970	P	--	--	--	--
Connoquenessing Creek near Zellenople, Pa.	Butler	03-1060.00	356	1970	P	X	--	--	--
French Creek at Utica, Pa.	Venango	03-0240.00	1,028	1970	P	--	--	--	--
Loyalhanna Creek at Kingston, Pa.	Westmoreland	03-0450.00	172	1970	P	--	--	--	--
Oil Creek at Rouseville, Pa.	Venango	03-0205.00	300	1970	P	--	--	--	--
Redbank Creek at St. Charles, Pa.	Clarion	03-0325.00	528	1969-70	D	X	--	--	X
Slippery Rock Creek at Wurtemburg	Lawrence	03-1065.00	398	1970	P	X	--	--	--
South Fork Tenmile Creek at Jefferson, Pa.	Greene	03-0730.00	180	1960-62, 1969	P	X	--	--	X
Sugar Creek at Sugarcreek, Pa.	Venango	03-0250.00	166	1970	P	--	--	--	--

LIST OF SEDIMENT STATIONS IN DOWNSTREAM ORDER

Station number	Station name
<u>Delaware River Basin</u>	
01-4210.00	East Branch Delaware River at Fishs Eddy, N.Y.
01-4265.00	West Branch Delaware River at Hale Eddy, N.Y.
01-4285.00	Delaware River above Lackawaxen River near Barryville, N.Y.
01-4315.00	Lackawaxen River at Hawley, Pa.
01-4340.00	Delaware River at Port Jervis, N.Y.
01-4395.00	Bush Kill at Shumakers, Pa.
01-4427.50	Delaware River at Dunnfield, N.J.
01-4465.00	Delaware River at Belvidere, N.J.
01-4510.00	Lehigh River at Walnutport, Pa.
01-4515.00	Little Lehigh Creek near Allentown, Pa.
01-4517.00	Switzer Creek near Pleasant Corners, Pa.
01-4517.40	Lyon Creek near Weidasville, Pa.
01-4517.80	Mill Creek near Weidasville, Pa.
01-4518.00	Jordan Creek near Schnecksville, Pa.
01-4518.40	Jordan Creek at Kernsville, Pa.
01-4518.80	Jordan Creek at Guthsville, Pa.
01-4519.00	Jordan Creek at Stetlersville, Pa.
01-4519.50	Jordan Creek at Scherersville, Pa.
01-4520.00	Jordan Creek at Allentown, Pa.
01-4595.00	Tohickon Creek near Pipersville, Pa.
01-4635.00	Delaware River at Trenton, N.J. (Morrisville, Pa.)
01-4646.00	Delaware River at Burlington, N.J. (Bristol, Pa.-Burlington, N.J. bridge)
01-4655.00	Neshaminy Creek near Langhorne, Pa.
01-4657.70	Poquessing Creek at Trevoe Road at Philadelphia, Pa.
01-4657.80	Poquessing Creek above Byberry Creek at Philadelphia, Pa.
01-4657.85	Walton Run at Philadelphia, Pa.
01-4657.90	Byberry Creek at Chalfont Road, Philadelphia, Pa.
01-4657.95	Byberry Creek at Grant Avenue, Philadelphia, Pa.
01-4657.98	Poquessing Creek at Grant Avenue, Philadelphia, Pa.
01-4670.42	Pennypack Creek at Pine Road, Philadelphia, Pa.
01-4670.45	Pennypack Creek below Verre Road, Philadelphia, Pa.
01-4670.49	Wooden Bridge Run at Philadelphia, Pa.
01-4670.60	Delaware River at Palmyra, N.J. (Tacony, Pa.-Palmyra, N.J. bridge)
01-4670.84	Tacony Creek at County Line, Philadelphia, Pa.
01-4670.88	Frankford Creek at Torresdale Avenue at Philadelphia, Pa.
01-4674.70	Schuylkill River at Port Carbon, Pa.
01-4675.00	Schuylkill River at Pottsville, Pa.
01-4679.50	West Branch Schuylkill River at Cressona, Pa.
01-4685.00	Schuylkill River at Landingville, Pa.
01-4690.00	Schuylkill River at Auburn, Pa.
01-4697.00	Little Schuylkill River at South Tamaqua, Pa.


Station number	Station name
01-4700.00	Little Schuylkill River at Dreherstown, Pa.
01-4703.00	Little Schuylkill River at Port Clinton, Pa.
01-4704.50	Schuylkill River at Hamburg, Pa.
01-4705.00	Schuylkill River at Berne, Pa.
01-4706.60	Maiden Creek at East Berkley, Pa.
01-4707.20	Maiden Creek tributary at Lenhartsville, Pa.
01-4710.00	Tulpehocken Creek near Reading, Pa.
01-4720.00	Schuylkill River at Pottstown, Pa.
01-4721.57	French Creek near Phoenixville, Pa.
01-4721.74	Pickering Creek near Chester Springs, Pa.
01-4721.75	Unnamed tributary to Pickering Creek near Chester Springs, Pa.
01-4721.76	Pickering Creek tributary at Chester Springs, Pa.
01-4721.81	Pine Creek at Sharp Farm near Lionsville, Pa.
01-4721.82	Pine Creek near Lionsville, Pa.
01-4721.83	Pine Creek at Chester Springs, Pa.
01-4721.85	Pickering Creek tributary near Kimberton, Pa.
01-4721.86	Pigeon Run at Merlin, Pa.
01-4721.89	Rock Run at Charlestown, Pa.
01-4721.90	Pickering Creek near Phoenixville, Pa.
01-4721.95	Indian Creek near Zionsville, Pa.
01-4730.00	Perkiomen Creek at Graterford, Pa.
01-4738.00	Schuylkill River at Manayunk, Philadelphia, Pa.
01-4739.00	Wissahickon Creek at Fort Washington, Pa.
01-4739.50	Wissahickon Creek at Bells Mill Road, Philadelphia, Pa.
01-4739.80	Wissahickon Creek at Livezey Lane, Philadelphia, Pa.
01-4740.00	Wissahickon Creek at mouth, Philadelphia, Pa.
01-4755.10	Darby Creek near Darby, Pa.
01-4755.30	Cobbs Creek at U.S. Highway 1 near Philadelphia, Pa.
01-4755.40	Cobbs Creek below Indian Creek near Upper Darby, Pa.
01-4755.50	Cobbs Creek at Darby, Pa.
01-4785.00	White Clay Creek above Newark, Del.
01-4803.00	West Branch Brandywine Creek near Honey Brook, Pa.
01-4805.00	West Branch Brandywine Creek at Coatsville, Pa.
01-4806.40	West Branch Brandywine Creek at Wawaset, Pa.
01-4806.50	East Branch Brandywine Creek at Cupola, Pa.
01-4806.52	East Branch Brandywine Creek tributary near Cupola, Pa.
01-4806.55	East Branch Brandywine Creek at Glenmoore, Pa.
01-4806.56	Indian Run at Little Germany Road near Honey Brook, Pa.
01-4806.58	Indian Run at Glenmoore, Pa.
01-4806.60	East Branch Brandywine Creek at Lyndell, Pa.
01-4806.62	Culbertson Run at Lyndell, Pa.
01-4806.65	East Branch Brandywine Creek at Dorlan, Pa.
01-4806.75	Marsh Creek near Glenmoore, Pa.
01-4806.80	Marsh Creek near Lyndell, Pa.
01-4807.00	East Branch Brandywine Creek near Downingtown, Pa.

Station number	Station name
01-4808.00	East Branch Brandywine Creek at Downingtown, Pa.
01-4808.70	East Branch Brandywine Creek below Downingtown, Pa.
01-4809.40	East Branch Brandywine Creek near Sconnetown, Pa.
01-4810.00	Brandywine Creek at Chadds Ford, Pa.
01-4815.00	Brandywine Creek at Wilmington, Del.
01-4821.00	Delaware River at Delaware Memorial Bridge, Wilmington, Del.

Susquehanna River Basin

01-5005.00	Susquehanna River at Unadilla, N.Y.
01-5010.00	Unadilla River near New Berlin, N.Y.
01-5025.00	Unadilla River at Rockdale, N.Y.
01-5030.00	Susquehanna River at Conklin, N.Y.
01-5070.00	Chenango River at Greene, N.Y.
01-5140.00	Owego Creek near Owego, N.Y.
01-5150.00	Susquehanna River near Waverly, N.Y.
01-5163.80	South Branch Corey Creek at Mainesburg, Pa.
01-5164.00	Corey Creek at Mainesburg, Pa.
01-5164.20	North Branch Corey Creek at Mainesburg, Pa.
01-5165.00	Corey Creek near Mainesburg, Pa.
01-5170.00	Elk Run near Mainesburg, Pa.
01-5180.00	Tioga River at Tioga, Pa.
01-5185.00	Crooked Creek at Tioga, Pa.
01-5205.00	Tioga River at Lindley, N.Y.
01-5265.00	Tioga River near Erwins, N.Y.
01-5295.00	Cohocton River near Campbell, N.Y.
01-5310.00	Chemung River at Chemung, N.Y.
01-5315.00	Susquehanna River at Towanda, Pa.
01-5320.00	Towanda Creek near Monroeton, Pa.
01-5340.00	Tunkhannock Creek at Tunkhannock, Pa.
01-5360.00	Lackawanna River at Old Forge, Pa.
01-5365.00	Susquehanna River at Wilkes-Barre, Pa.
01-5380.00	Wapwallopen Creek near Wapwallopen, Pa.
01-5386.00	Nescopeck Creek at Nescopeck, Pa.
01-5390.00	Fishing Creek near Bloomsburg, Pa.
01-5403.50	Catawissa Creek at Catawissa, Pa.
01-5405.00	Susquehanna River at Danville, Pa.
01-5410.00	West Branch Susquehanna River at Bower, Pa.
01-5425.00	West Branch Susquehanna River at Karthaus, Pa.
01-5430.00	Driftwood Branch Sinnemahoning Creek at Sterling Run, Pa.
01-5435.00	Sinnemahoning Creek at Sinnemahoning, Pa.
01-5445.00	Kettle Creek at Cross Fork, Pa.
01-5455.00	West Branch Susquehanna River at Renovo, Pa.
01-5456.00	Young Womans Creek near Renovo, Pa.
01-5465.00	Spring Creek near Axemann, Pa.

Station number	Station name
01-5472.00	Bald Eagle Creek below Spring Creek at Milesburg, Pa.
01-5473.00	Nittany Creek near Curtin, Pa.
01-5474.00	Bald Eagle Creek near Milesburg, Pa.
01-5475.00	Bald Eagle Creek at Blanchard, Pa.
01-5477.00	Marsh Creek at Blanchard, Pa.
01-5485.00	Pine Creek at Cedar Run, Pa.
01-5500.00	Lycoming Creek near Trout Run, Pa.
01-5515.00	West Branch Susquehanna River at Williamsport, Pa.
01-5520.00	Loyalsock Creek at Loyalsockville, Pa.
01-5531.70	Warrior Run at McEwensville, Pa.
01-5535.00	West Branch Susquehanna River at Lewisburg, Pa.
01-5545.00	Shamokin Creek near Shamokin, Pa.
01-5545.30	Shamokin Creek at Paxinos, Pa.
01-5550.00	Penns Creek at Penns Creek, Pa.
01-5552.50	Mahanoy Creek at Dornsife, Pa.
01-5555.00	East Mahantango Creek near Dalmatia, Pa.
01-5555.70	Wiconisco Creek at Elizabethville, Pa.
01-5560.00	Frankstown Branch Juniata River at Williamsburg, Pa.
01-5580.00	Little Juniata River at Spruce Creek, Pa.
01-5590.00	Juniata River at Huntingdon, Pa.
01-5600.00	Dunning Creek at Belden, Pa.
01-5620.00	Raystown Branch Juniata River at Saxton, Pa.
01-5630.00	Raystown Branch Juniata River near Huntingdon, Pa.
01-5645.00	Aughwick Creek near Three Springs, Pa.
01-5650.00	Kishacoquillas Creek at Reedsville, Pa.
01-5670.00	Juniata River at Newport, Pa.
01-5674.00	Bixler Run (at Kistler) near Loysville, Pa.
01-5674.20	North Branch Bixler Run (at Palms) near Loysville, Pa.
01-5674.40	North Branch Bixler Run (at Kistler) near Loysville, Pa.
01-5674.60	East Branch Bixler Run (near Kistler) near Loysville, Pa.
01-5675.00	Bixler Run near Loysville, Pa.
01-5680.00	Sherman Creek at Sherman Dale, Pa.
01-5700.00	Conodoguinet Creek near Hogestown, Pa.
01-5701.00	Conodoguinet Creek tributary No. 1 near Enola, Pa.
01-5702.00	Conodoguinet Creek tributary No. 2 near Enola, Pa.
01-5702.30	Conodoguinet Creek tributary No. 2A near Enola, Pa.
01-5702.60	Conodoguinet Creek tributary No. 2B near Enola, Pa.
01-5703.00	Conodoguinet Creek tributary No. 3 near Enola, Pa.
01-5705.00	Susquehanna River at Harrisburg, Pa.
01-5711.00	Spring Creek tributary near Harrisburg, Pa.
01-5715.00	Yellow Breeches Creek near Camp Hill, Pa.
01-5718.20	Swatara Creek at Ravine, Pa.
01-5720.00	Lower Little Swatara Creek at Pine Grove, Pa.
01-5725.00	Swatara Creek at Jonestown, Pa.


 LSRB

Station number	Station name
01-5725.40	Little Swatara Creek near Mt. Aetna, Pa.
01-5726.00	Little Swatara Creek at Jonestown, Pa.
01-5730.00	Swatara Creek at Harper Tavern, Pa.
01-5730.97	Quittapahilla Creek near Annville, Pa.
01-5732.00	Quittapahilla Creek at Snyder, Pa.
01-5735.50	Manada Creek near Sand Beach, Pa.
01-5735.70	Spring Creek at Union Deposit, Pa.
01-5735.80	Beaver Creek at Hummelstown, Pa.
01-5736.00	Swatara Creek at Middletown, Pa.
01-5738.80	Latimore Creek tributary near York Springs, Pa.
01-5738.90	North Fork Latimore Creek near York Springs, Pa.
01-5740.00	West Conewago Creek near Manchester, Pa.
01-5745.00	West Branch Codorus Creek at Spring Grove, Pa.
01-5750.00	South Branch Codorus Creek near York, Pa.
01-5765.00	Conestoga Creek at Lancaster, Pa.
01-5775.00	Muddy Creek at Castle Fin, Pa.

Potomac River Basin

01-6010.00	Wills Creek below Hyndman, Pa.
01-6145.00	Conococheague Creek at Fairview, Md.
01-6190.00	Antietam Creek near Waynesboro, Pa.
01-6195.00	Antietam Creek near Sharpsburg, Md.
01-6390.00	Monocacy River at Bridgeport, Md.

Ohio River Basin

03-0155.00	Brokenstraw Creek at Youngsville, Pa.
03-0205.00	Oil Creek at Rouseville, Pa.
03-0240.00	French Creek at Utica, Pa.
03-0250.00	Sugar Creek at Sugarcreek, Pa.
03-0325.00	Redbank Creek at St. Charles, Pa.
03-0450.00	Loyalhanna Creek at Kingston, Pa.
03-0730.00	South Fork Tenmile Creek at Jefferson, Pa.
03-0790.00	Casselman River at Markleton, Pa.
03-1055.00	Beaver River at Wampum, Pa.
03-1065.00	Slippery Rock Creek at Wurtemburg, Pa.

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