HURRICANE AGNES RAINFALL AND FLOODS, JUNE-JULY 1972

Report prepared jointly by the U.S. Geological Survey
and the National Oceanic and Atmospheric Administration

U.S. DEPARTMENT OF THE INTERIOR • U.S. DEPARTMENT OF COMMERCE





GEOLOGICAL SURVEY PROFESSIONAL PAPER 924

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By J. F. BAILEY and J. L. PATTERSON, U.S. Geological Survey and J. L. H. PAULHUS, National Weather Service, National Oceanic and Atmospheric Administration

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UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON: 1975

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
V. E. McKelvey, Director

UNITED STATES DEPARTMENT OF COMMERCE
FREDERICK B. DENT, Secretary
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Robert M. White, Administrator

Library of Congress Cataloging in Publication Data

Patterson, James Lee.
Hurricane Agnes rainfall and floods, June-July 1972.
(Geological Survey professional paper; 924)
Bibliography: p.
Includes index.
Supt. of Docs. no.: I 19.16:924
1. Foods--Atlantic States. 2. Stream measurements--Atlantic States. 3. Atlantic States--Hurricane, 1972. I. Bailey, James F., joint author. II. Paulhus, Joseph L. H., joint author. III. United States. Geological Survey. IV. United States. National Oceanic and Atmospheric Administration. V. Title. VI. Series: United States. Geological Survey. Professional paper; 924.
GB1216.P37 557.3'08s [551.4'8] 75-619211

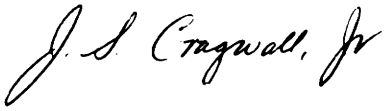
For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402

FOREWORD

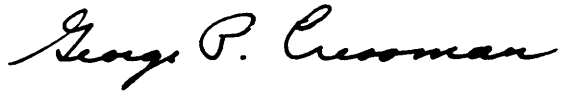
The U.S. Geological Survey and the National Weather Service have a long history of cooperation in monitoring and describing the Nation's water cycle—the movement of water as atmospheric moisture, as precipitation, as runoff, as streamflow, as ground water, and finally, through evaporation, its return to the atmosphere to begin the cycle over again. The cooperative effort has been a natural dovetailing of technical talent and responsibility: the National Weather Service as the Federal agency responsible for monitoring and predicting atmospheric moisture and precipitation, for forecasting river flow, and for issuing warnings of destructive weather events; and the U.S. Geological Survey as the primary agency for monitoring the quantity and quality of the earthbound water resources, including both ground water and surface water.

This report represents another step in the growth of our cooperative efforts. In some ways, this closer working arrangement has been spurred by five major flood disasters that have struck the Nation in the last 5 years. In August 1969, the remnants of Hurricane Camille caused flooding of the James River and other streams in central Virginia that left 152 people dead or missing. In February 1972, the failure of a coal-waste dam sent a flood wave down the Buffalo Creek Valley of West Virginia, leaving 118 people dead or missing. On June 9, 1972, extremely heavy rains over the eastern Black Hills of South Dakota produced record-breaking floods on Rapid Creek and other streams, leaving 237 dead and 8 missing. Beginning on June 18, 1972, the remains of Hurricane Agnes produced floods in the Eastern United States from Virginia to New York that killed 117 people in what has been called the worst disaster in American history. Most recently, the spring 1973 floods on the Mississippi River produced a record 89 days of floodflow at Vicksburg, Miss., and 78 days at St. Louis, Mo., inundated more than 11 million acres of land, and damaged over 30,000 homes.

These disasters have underlined the need to know more about and respect the force and flow of floodwater and have given impetus to further cooperation between the U.S. Geological Survey and the National Weather Service to combine their respective studies and information about flood events into single, unified reports. Hopefully, this documentation of the Hurricane Agnes floods will aid the understanding of such flood disasters and will help improve human preparedness for coping with future floods of a similar catastrophic magnitude.



Joseph S. Cragwall, Jr.
Chief Hydrologist
U.S. Geological Survey
Department of the Interior



George P. Cressman
Director
National Weather Service
Department of Commerce

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By J. F. BAILEY and J. L. PATTERSON, U.S. Geological Survey,
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ABSTRACT

Hurricane Agnes originated in the Caribbean Sea region in mid-June. Circulation barely reached hurricane intensity for a brief period in the Gulf of Mexico. The storm crossed the Florida Panhandle coastline on June 19, 1972, and followed an unusually extended overland trajectory combining with an extratropical system to bring very heavy rain from the Carolinas northward to New York. This torrential rain followed the abnormally wet May weather in the Middle Atlantic States and set the stage for the subsequent major flooding.

The record-breaking floods occurred in the Middle Atlantic States in late June and early July 1972. Many streams in the affected area experienced peak discharges several times the previous maxima of record. Estimated recurrence intervals of peak flows at many gaging stations on major rivers and their tributaries exceeded 100 years. The suspended-sediment concentration and load of most flooded streams were also unusually high. The widespread flooding from this storm caused Agnes to be called the most destructive hurricane in United States history, claiming 117 lives and causing damage estimated at $3.1 billion in 12 States. Damage was particularly high in New York, Pennsylvania, Maryland, and Virginia.

The detailed life history of Hurricane Agnes, including the tropical depression and tropical storm stages, is traced. Associated rainfalls are analyzed and compared with climatologic recurrence values. These are followed by a detailed description of the flood and streamflows of each affected basin. A summary of peak stages and discharges and comparison data for previous floods at 989 stations are presented. Deaths and flood damage estimates are compiled.

INTRODUCTION

A major flood caused by the exceptional rainfall associated with Hurricane Agnes ravaged the Middle Atlantic States in late June and early July 1972. The origin of Agnes can be traced back to a weak tropical disturbance first detectable over the Yucatan Peninsula on June 14. An interesting hypothesis advanced by Namias (1973a) regarding the antecedent meteorologic events that could have triggered its birth is presented. The depression intensified rapidly and moved eastward into the Caribbean Sea. Fed by the sensible and latent heat energy provided by the warm sea surface, its circulation developed further. It reached tropical storm intensity on June 16 and started to curve northward heading straight toward the Florida Panhandle. Its maximum surface wind near the center reached a speed of over 63 knots on June 18, while it was still in transit in the Gulf of Mexico. Agnes moved into the Florida Panhandle on June 19, with reduced maximum wind speeds. By the morning of the 20th the storm had weakened to tropical storm intensity. It never again reached the hurricane stage. Agnes would rank among the weakest hurricanes in intensity, but it had a relatively large diameter of 1,000 miles (1600 km). Also unusual was its extended overland trajectory after making landfall and the large amount of rainfall it brought over an extended area. Agnes' "tropical" center was over water when the heaviest rains fell. Its long overland track extended through the relatively populous and industrially developed coastal regions of the Atlantic States. Furthermore, during the waning stage of its life cycle, the weakened Agnes merged with an extratropical cyclone circulation centered over Northeastern United States. This reinforced low then stagnated over western Pennsylvania for about 24 hours, yielding additional rain over the northeastern section of the Nation.

The rainfall over Eastern United States from Agnes and other weather systems during June 16–25 produced record floods. Greatest point rainfall occurred in Pennsylvania and New York. The greatest 24-hour amount measured was 14.8 inches in southeastern Pennsylvania at Gage R44 in the Mahantango Creek basin. This amount well exceeds the value for the 100-year recurrence interval. A series of daily isohyetal maps and mass curves of rainfall for selected stations show the progression of the rainfall associated with Agnes from Southeastern United States toward the northeast. A rainfall map for Northeastern United States for the total storm period shows the magnitude of precipitation. Total precipitation at several locations from New York to Virginia was in excess of 15 inches. A comparison between Agnes and other tropical storms over the same region indicated that, for areas greater than 10,000 square miles and durations longer than 24 hours, Agnes rainfall set a record.

This complete description of the rainfall associated with this storm utilized considerable supplementary data as well as the regular reporting network. These supplementary data came from sources other than official gages and are included in tables of this report.

The flooding caused by the exceptional precipitation ravaged parts of 12 States. Peak stages and discharges established new records on many streams, and many reservoirs in New York and Pennsylvania were at their highest levels since construction. In the Susquehanna River basin, peak flows at many locations exceeded the maximum of record. Along the main stem of the Susquehanna from the New York-Pennsylvania border to its mouth on the Chesapeake Bay, this was the greatest flood since at least 1784. Peak flows from Harrisburg downstream to the bay were in excess of 1 million cubic feet per second (cfs). Although flooding on the main stem of the Potomac River was not exceptional, many of its tributaries downstream from the Shenandoah River experienced record flows. Peak flows on the Conococheague Creek at Fairview, Md., and on the Monocacy River near Frederick, Md., were greater than the flood of 1889, and the peak discharge of Difficult Run near Great Falls, Va., was 5 times the previous maximum for the period of record beginning in 1935. On the James River from Lynchburg to Richmond in Virginia, peak flows exceeded those resulting from the passage of Hurricane Camille in 1969 to become the highest since at least 1870. A maximum flow of 313,000 cfs occurred at Richmond. Detailed description of the flood for each affected drainage basin together with significant discharge hydrographs for affected major rivers are presented in the text.

The suspended-sediment concentration and load of most streams were unusually high. Sediment loads during the flood period on the Susquehanna and Schuylkill Rivers in Pennsylvania were three times their average annual loads.

The effectiveness of reservoir-storage regulation in controlling the magnitude of peak flows for the Susquehanna, Roanoke, and Ohio River basins, and for some streams tributary to Chesapeake Bay and to Lake Ontario was examined on the basis of data supplied by the U.S. Army Corps of Engineers.

Total damage from Hurricane Agnes was estimated to be $3.1 billion, or over twice that produced by Camille, the second most destructive hurricane to strike the United States. Most of the damage resulted from flooding in the Middle Atlantic States. Damage reached $2.12 billion in Pennsylvania alone, making this the worst natural disaster in the history of that State. Damage included destruction of homes and other structures, flooding of public water and sewage facilities, inundation of industrial and public utility plants, loss of crops, and disruption of normal activities. Owing to the timely warning issued to the public, the total death toll of 117 persons was comparatively light considering the severity of the flooding.

Data for 989 gaging sites are furnished in this report. These data should provide a valuable reference for future investigations. All sites, for which data on discharge, stage, and sediment are given, are numbered consecutively in downstream order and in the same sequence as is used in parts 1–4 in water-supply papers of the U.S. Geological Survey containing records of streamflow. Included in the numbering are gaging stations, reservoir stations, partial record stations, and miscellaneous sites. The location of each site is shown by report number on the map (pl. 1). The report number appears in parentheses preceding the site title in the section on streamflow data and in the tables in Appendix A. The permanent station number assigned by the U.S. Geological Survey is also shown in the streamflow data. Peak stage and discharge at gaging stations, flood-crest elevations for selected stream reaches, and reservoir-storage data are given in Appendix A.

This report was prepared jointly by the U.S. Geological Survey and the National Weather Service. Additional sources for both meteorologic and hydrologic data are included in Appendix B.

ACKNOWLEDGMENTS

The meteorologic and rainfall analyses in this report are based upon the efforts of many individuals within the National Weather Service. These people make and record thousands of observations and analyze countless charts in supporting an effort such as this. Hundreds of precipitation observations are made by unpaid volunteers in the cooperative observing program of National Oceanic and Atmospheric Administration. The supplementary rainfall data included in this report were collected under the supervision of John Thomas, Regional Hydrologist, National Weather Service, Eastern Region. The hurricane track shown in figure 1 was obtained from the National Hurricane Center, Robert H. Simpson, Director. John F. Miller, Chief, Water Management Information Division, and Dr. Edwin Chin of that Division have reviewed the manuscript.

Discharge records and other flood data in this report were collected as part of cooperative pro-

grams between the U.S. Geological Survey and the States of North Carolina, Virginia, Maryland, West Virginia, Pennsylvania, New York, and Connecticut; county and municipal agencies within these States; and agencies of the Federal Government. Other Federal and State agencies, municipalities, universities, corporations, and individuals gave assistance, financial or otherwise, in the data-collection effort. Credit for this assistance is given in the appropriate place in the text. During the flood emergency, engineers and technicians of the U.S. Geological Survey from 23 States were detailed into the Northeastern area to assist in the collection of flood data. Their assistance is gratefully acknowledged.

Photographs in this report were obtained from Federal and State agencies, newspapers, and individuals. Where appropriate, photograph sources are given.

The U.S. Army Corps of Engineers provided the information on damage.

GLOSSARY

Acre-foot (acre-ft).—The quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,223 cubic metres.

Contents.—The volume of water in a reservoir or lake. Content is computed on the basis of a level pool and does not include bank storage.

Convective clouds.—A cloud which owes its vertical development and possibly its origin to convection.

Cubic feet per second (cfs).—The rate of discharge. One cubic foot per second is equal to the discharge of a stream of rectangular cross section 1 foot wide and 1 foot deep, flowing at an average velocity of 1 foot per second. It equals 28.32 litres per second or 0.02832 cubic metres per second.

cfs-day.—The volume of water represented by a flow of 1 cubic foot per second for 24 hours. It equals 86,400 cubic feet, 1.98 acre-feet, or 2,447 cubic metres.

cfsm (cubic feet per second per square mile).—The average number of cubic feet of water per second flowing from each square mile of area drained by a stream, with the assumption that the runoff is distributed uniformly in time and area. One cfsm is equivalent to 0.0733 cubic metres per second per square kilometre.

Crest-stage station.—A particular site where only information on crest stage and peak discharge is collected systematically.

Depression.—An area of low atmospheric pressure.

Drainage area of a stream at a specific location.—The area, measured in a horizontal plane, which is enclosed by a topographic divide. Drainage area is given in square miles. One square mile is equivalent to 2.590 square kilometres.

Extratropical low (extratropical cyclone).—Any cyclone-scale storm that is not a tropical cyclone, usually referring only to the migratory frontal cyclones of middle and high latitudes.

Flood-hydrograph station.—A particular site where a record of the flood hydrograph is collected systematically.

Gaging station.—A particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained.

Gust.—A sudden brief increase in the speed of the wind.

Hurricane.—A severe tropical cyclone (windspeed 64 knots or higher) in the North Atlantic Ocean, Caribbean Sea, Gulf of Mexico, and in the Eastern North Pacific of the west coast of Mexico.

Instability.—Areas of instability as referred to in this report are areas where the lifted index is less than four. The lifted index is the difference, in °C, between the observed 500-mb temperature and the computed temperature, which a parcel characterized by the mean temperature and dew point of the 50-mb-thick surface layer would have if it were lifted from 25 mb above the surface to 500 mb.

Mean low water.—The average level of low water at a place over a 19-year period.

Mean sea level.—The average height of the sea surface for all stages of the tide over a 19-year period.

Miscellaneous site.—A site where data pertaining only to a specific hydrologic event are obtained.

Precipitable water.—The total atmospheric water vapor contained in a vertical column of unit-cross-sectional area extending from the surface up to a certain pressure level, usually 500 mb.

Runoff.—That part of the precipitation that appears in streams. It is the same as streamflow that is unaffected by artificial diversions, storage, or other works of man in or on the stream channels. Runoff, given in inches (1 inch is 2.54 centimetres), is the depth to which the drainage area would be covered if the runoff for a given time period were uniformly distributed over the surface.

Sediment.—Fragmental material that originated from weathering of rocks and is transported by,

suspended in, or deposited by water or air or is accumulated in beds by other natural agencies.

Sediment concentration.—The weight of dry solids divided by the weight of water-sediment mixture and is expressed in milligrams per litre (mg/1).

Sediment discharge.—The rate at which dry weight of sediment passes a section of a stream, or it is the quantity of sediment, as measured by dry weight or by volume, that is discharged in a given time.

Sediment load.—The sediment moved by a stream, whether in suspension or at the bottom. It is synonymous with "sediment discharge" in this report and is used to avoid possible confusion between stream discharge and sediment discharge.

Sediment station.—A river section where sediment-load samples are taken each day, or periodically.

Sounding.—A single complete radiosonde observation of the upper atmosphere.

Stage-discharge relation.—The relation between gage height and the amount of water flowing in a channel.

Suspended load.—Sediment that moves in suspension. It is transported at virtually the velocity of water.

Time of day is expressed in 24-hour time; for example, 12:30 a.m. is 0030 hours, 1:00 p.m. is 1300 hours. All time noted is eastern daylight time.

Tons per day.—The unit used to express the quantity of sediment that passes a particular site during a 24-hour period.

Tropical storm.—Tropical cyclone with winds 34 to 63 knots.

Trough.—An elongated area of relatively low atmospheric pressure.

CONVERSION FACTORS

Most units of measure used in this report are English Units. The following factors can be used to convert English Units to the International System of Units (SI).

Multiply English units	*By*	*To obtain SI units*
inches (in.)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
miles (nautical)	1.853	kilometres (km)
acres	4047	square metres (m^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
gallons (gal)	3.785	litres (1)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal).	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-day (ft^3/s-day)	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
feet per second	.3048	metres per second m/s
miles per hour (mph).	1.609	kilometres per hour km/hr
knot	1.853	kilometres per hour km/hr
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm).	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd).	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
ton (short)	.9072	tonne (t)

STORM HISTORY

The formation process for a tropical storm is not always clear, and that for Agnes is no exception. The first signs of an incipient hurricane usually appear on satellite photographs as a large cloud mass showing indications of tropical storm circulation, and this occurs when the storm is already well along in the development stage. The problem of early identification of tropical storm formation may lie in the fact that different and perhaps multiple causes may be involved in the formation processes of different storms.

Namias (1973a) has suggested that Agnes "may have resulted from a combination of events involving an antecedent massive cold air outbreak into the tropics and, perhaps crucially, the migration of a nucleating cloud cluster of intense convective cells from the Southern Hemisphere tropics into the Northern Hemisphere." From satellite photographs, he hypothesized that the nucleus for Agnes first

appeared on June 9 in an area of abnormally warm surface water off the Pacific coast of Colombia at about lat 5° S. This nucleating mass of convective clouds moved northward over surface water with temperatures exceeding 80°F (27°C), crossed the Isthmus of Panama on June 12, and then started to curve northwestward over the Caribbean Sea. On June 13–14 this mesoscale cloud mass met a large-scale cloud environment associated with an intense cold front moving southward from the United States, across the Gulf of Mexico, and over the Caribbean Sea. This cold-air outbreak established record low temperatures for this time of the year at many cities in the Eastern United States. Again, quoting Namias: "Apparently, the large-scale convective cloud system associated with the cold front, the general cyclonic vorticity field, and the implied high moisture content aloft provided a favorable large-scale environment for triggering the hurricane by the nucleating intense mesoscale cloud system arriving from the south over anomalously warm water." These immediate causes, Namias (1973b) further suggested, may be linked to midtropospheric anomalies in the large-scale air-sea circulation systems generated during the preceding 3 or 4 months.

At about 0700 EST, June 14, a weak depression in the surface-pressure field observed at about lat 20.0° N.; long 89.0° W., near Cozumel, Yucatan, was actually the first indication of the tropical disturbance that would become Hurricane Agnes (fig. 1). The depression intensified rapidly and moved slowly eastward along the lat 20° N. parallel until about 0700 EST, June 16 and then began to curve northward (fig. 1) as it reached tropical storm intensity (wind speeds 39–73 mph, or 34–63 knots). The cloud systems associated with the storm while moving eastward from Yucatan on June 15 and 16 appear distinctly on the satellite photographs of figure 2.

The storm continued northward at about 10 mph (16 km/hr) and was about 120 miles southwest of the west tip of Cuba by Saturday morning, June 17. By Saturday afternoon it had reached the Yucatan Channel, just west of the west tip of Cuba, with a minimum pressure of 986 mb (fig. 1). By early morning of June 18, the storm center was some 250 miles (400 km) southwest of the Florida Keys, and surface winds near the center were of hurricane force (over 73 mph, or 63 knots).

The satellite photograph in figure 3 shows a second well-defined circulation system east of Agnes. This system, which persisted throughout the life of Agnes, enhanced the already enormous flow of moisture and nearly saturated air into Agnes as the latter moved northward over land.

At 0700 EST on the 18th, Agnes was centered at lat 23.8° N., long 85.6° W., about 200 mi (320 km) west of Fort Myers, Fla. (fig. 4), and showers were occurring over most of Florida south of Orlando. The upper-air soundings at that time showed that the unstable air covering the Southeastern United States on the morning of the 17th (fig. 3) had spread slightly northward (fig. 4). A similar increase in precipitable water was noted. At about 0900 EST, the barometric pressure at Tallahassee, Fla., began to fall rapidly (fig. 11), and rain began about 1400 EST. Table 1 lists the minimum sea-level pressure and maximum wind speed at selected stations affected by Agnes during June 18–25.

Agnes became a hurricane on the 18th. During the afternoon, maximum sustained surface-wind speeds near the storm center reached 85 mph (74 knots). Maximum sustained surface-wind speeds over land, strengthening first in the Keys and by evening as far north as Orlando, were 25–45 mph (22–43 knots), with gusts from 40 to 50 mph (35–43 knots). Wind speeds along Florida's east coast were often higher than those along the west coast because the storm's unusually large circulation, roughly 1,000 miles (1,600 km) in diameter (fig. 4), resulted in easterly to southeasterly surface winds with little reduction from overland friction. As a result, the highest gust reported in Florida was 69 mph (60 knots) at Cape Kennedy early on the 19th (table 1).

By the afternoon of the 18th it was obvious that Agnes would cross the Florida Panhandle and that her most destructive weapon in Florida would be the storm tides along the west coast.

At 0100 EST, June 19, Agnes reached her lowest central pressure, 978 mb, while in the Gulf of Mexico (lat 27.2° N.; long 85.7° W.), but neither the eye nor the wall cloud ever became fully developed.

By 0700 EST the storm had moved to lat 28.5° N.; long 85.7° W., about 75 miles (120 km) south of Apalachicola, Fla. (figs. 1 and 5). Soundings showed an appreciable increase in precipitable water over the Eastern United States during the preceding 24 hours (figs. 4 and 5), with the maximum amounts in the extreme southeastern part well exceeding average values for June (Reitan 1960). The area of atmospheric instability had spread northward. With the exception of a stable area centered over Alabama, the degree of instability had increased also, with the greatest instability noted over the Florida Peninsula.

Rain was falling as far to the northeast as Augusta, Ga., where the pressure began to fall rapidly

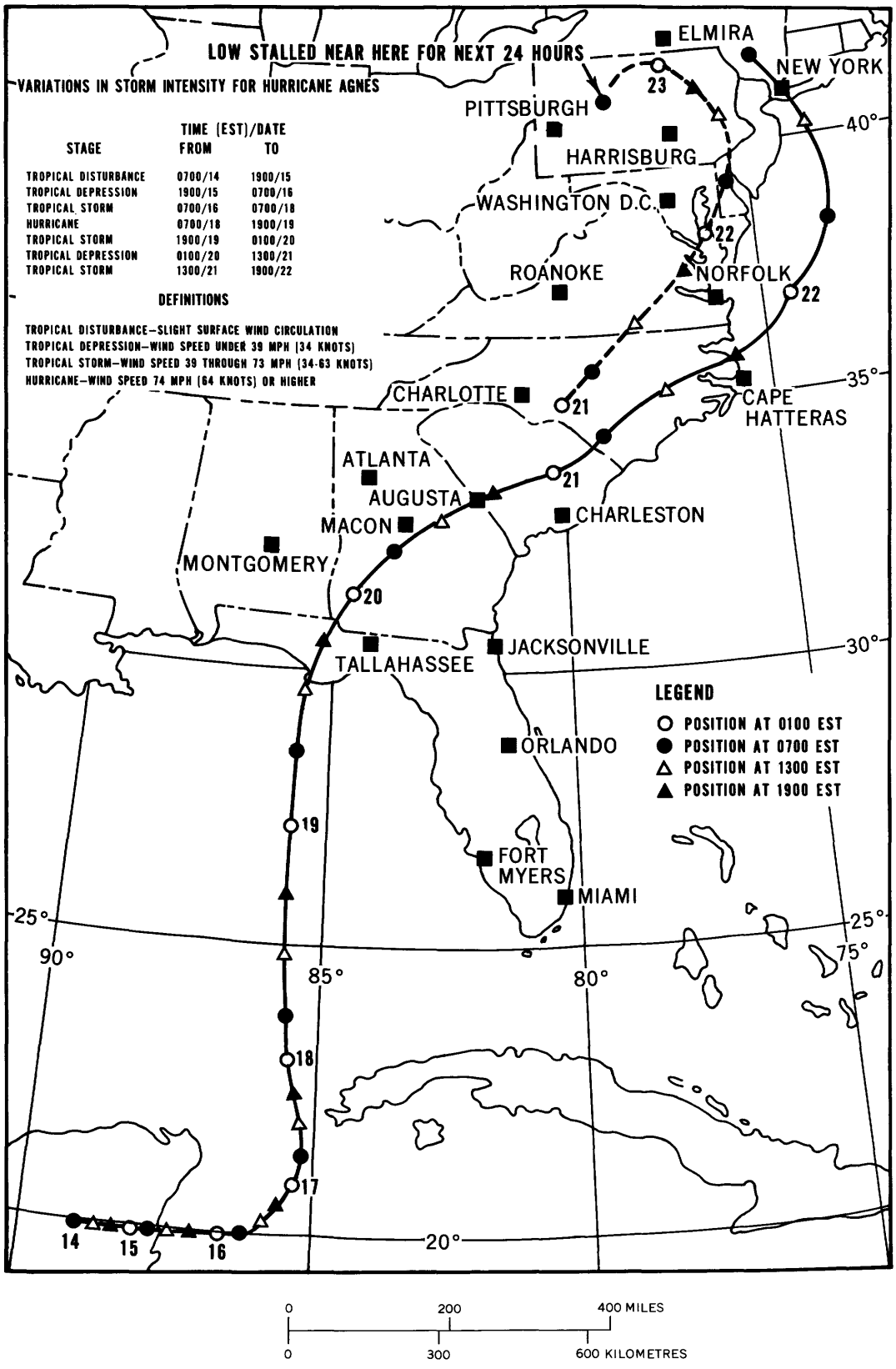


FIGURE 1.—Storm track, June 14–23, 1972.

about 0900 EST (fig. 11). Pressure at Charlotte, N.C., started to fall at about the same time, but rain did not begin until about 1400 EST.

Agnes moved ashore on the afternoon of the 19th, with the center crossing the Florida coastline near Port St. Joe (about halfway between Apalachicola and Panama City). Maximum sustained surface-wind speeds reported at observing stations nearest the center were 40–45 mph (35–39 knots), with gusts reaching 45–55 mph (39–48 knots). Lowest pressure (991.2 mb) at Tallahassee, roughly 70 miles east of the storm center, was recorded at 1709 EST, with south-southeast surface winds veering to southwest and west (fig. 11), as the storm moved northeastward into Georgia (fig. 1).

The high storm tides first occurred in the Florida Keys on the afternoon of the 18th, with Key West and Big Pine Key both reporting high tides of 1.2 feet above normal (table 2). The data reported in the first part of table 2 represent the actual storm surge, except as noted. The value given is the departure from the normal height of the hourly tide curve. Flamingo reported a high tide 2.0 feet above normal on the same date. Most of the high tides in Florida, however, occurred on the 19th (table 2), with the highest tide (7.0 ft above normal) being recorded by Cedar Key in the afternoon. The Corps of Engineers, in a survey after the storm, determined that tides along the west coast of Florida increased from Lee County northward. In Lee County, tides were about 2 feet above normal. In Charlotte and Sarasota Counties, they ranged between 2 and 3 feet above normal, while in Manatee and Pinellas Counties they ranged between 3 and 6 feet above normal. As Agnes neared the Panhandle, Apalachicola recorded a tide 6.4 feet above normal in the afternoon. The National Ocean Survey conducted a survey in early 1973 along the northwest Florida coast to determine high-water marks for use in National Oceanic and Atmospheric Administration (NOAA) studies for the Federal Insurance Administration. These data are given in table 2.

Agnes spawned 15 confirmed tornadoes in Florida, all occurred on the 18th and 19th and all were confined to the peninsula south of Daytona Beach. Three tornadoes struck the Keys. The first roared through Geiger and Big Coppitt Keys early on the 18th. Before daylight, the second struck Key West, and the third ripped through Key Colony Beach, Grass Key, Conch Key, and Key Largo. Nine more tornadoes were reported in the afternoon and evening, with four occurring near Fort Myers. Another tornado was reported 17 miles (27 km) north of Okeechobee. Tornadoes also touched down west of Lakeland and in Palm Beach County. Early on the 19th, three tornadoes hit the Cape Kennedy-Cape Canaveral area. In Georgia, tornadoes on the afternoon of the 19th struck near Blackshear and near Douglas. Damage resulting from all these tornadoes is reported later in the section on deaths and damage.

After crossing the coastline, Agnes changed her course toward the northeast (fig. 1) and weakened to a tropical depression (surface wind speed under 39 mph, or 34 knots) by 0700 EST, June 20, when the center was at lat 32.2° N.; long 83.8° W., about 30 miles (48 km) south-southwest of Macon, Ga. (fig. 6). By this time rain directly associated with the circulation around Agnes was falling from the northern boundary of Florida to southern Virginia. With the exception of Alabama, Misissippi, and northern New England, most of the Eastern United States was covered by unstable air. Except for some decrease in Florida, precipitable water had increased over the Southeastern States and was generally above June averages.

The radiosonde observations at Cape Hatteras, N.C., for the 19th and 20th (fig. 12) show a slight warming but a large increase in moisture during the 24-hour interval between the two soundings, although the storm center was still some 500 miles (800 km) away. A shift of winds at intermediate levels from southeasterly to southwesterly brought in a flow of moist air from the gulf, increasing the precipitable water in the layer of air from the surface to 500 mb from 1.20 to 1.84 inches in the 24-hour period. This shift of winds resulted from the approach of the 700-mb Low, which was centered over southwestern Georgia at 0700 EST on the 20th (fig. 6).

Later on the 20th Agnes deepened, and her circulation accelerated as a result of the release of energy from baroclinic sources (Simpson and Hebert, 1973) associated with an extratropical trough approaching from the west (fig. 6). This stimulation, however, was not enough to raise Agnes to the tropical storm stage but very likely led to the development of a secondary Low early on the 21st.

Continuing northeastward as a tropical depression, Agnes crossed into South Carolina, and at 0100 EST on the 21st was centered at lat 33.8° N.; long 80.2° W., about 60 miles (96 km) north-northwest of Charleston (fig. 1). At this time a secondary Low center appeared at lat 35.0° N.; long 80.0° W., roughly 80 miles (129 km) north of the primary center (fig. 1). These two Low centers, which ap-

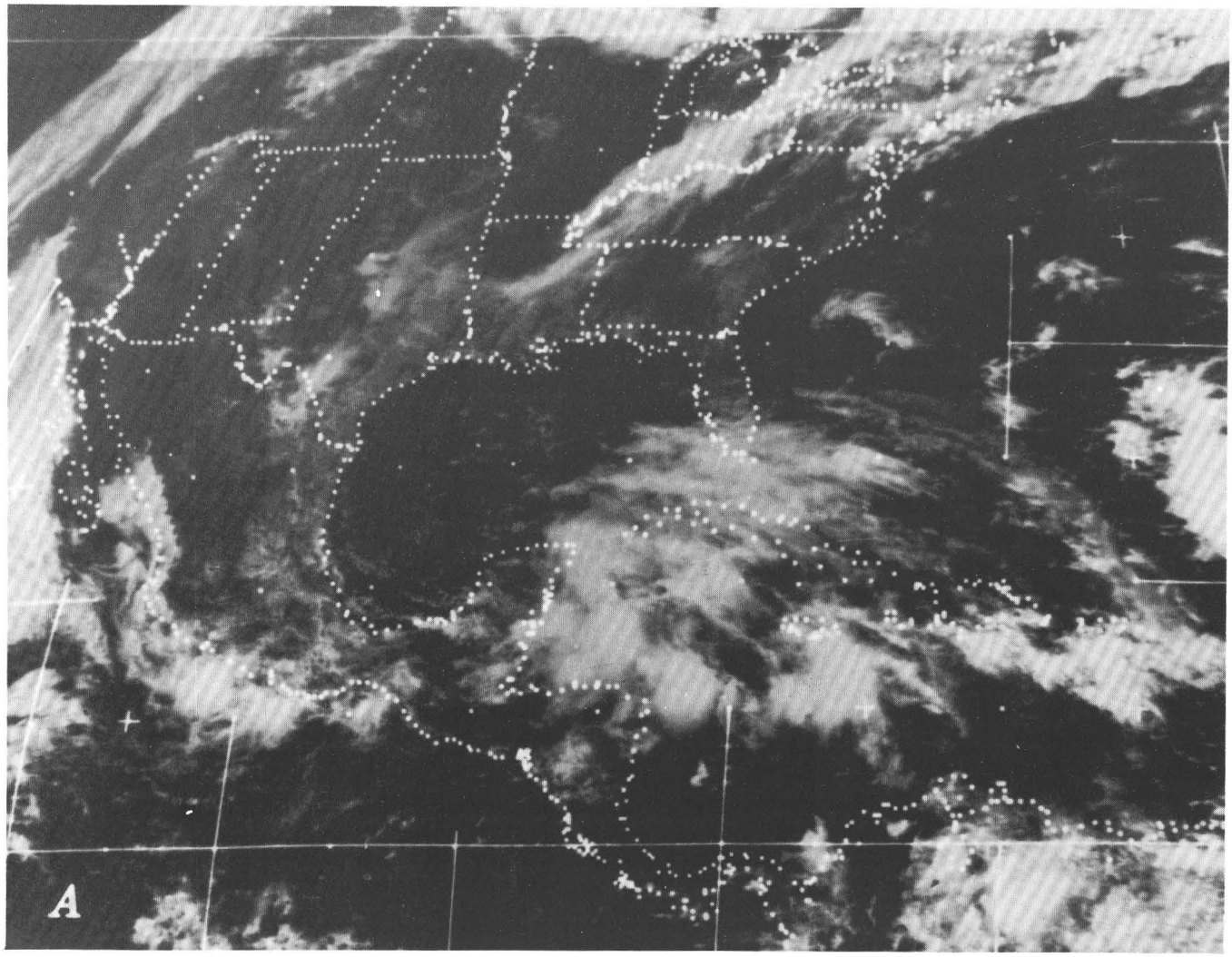


FIGURE 2.—Composite satellite photographs showing development of Agnes near East Coast of Yucatan on (*A*) June 15 and (*B*) June 16, 1972.

pear as one on the maps of figures 7 and 8, moved along fairly parallel tracks through the 22nd, when the original Agnes center was absorbed into the then dominant secondary center (Simpson and Hebert, 1973).

Travelling at a speed of 12–15 mph, the Agnes center had moved into southeastern North Carolina by 0700 EST on the 21st (fig. 7). Precipitable water amounts had increased during the preceding 24 hours to well above June averages (Reitan, 1960) ahead of the storm all the way to the Canadian border (fig. 7).

A comparison of the soundings at Sterling, Va., near Washington, D.C., for the 20th and 21st (fig. 13) shows a slight cooling in the lower layers, with some warming at upper levels. Dew-point temperatures, however, showed a great increase, with maximum gains being above the 550-mb level. Precipitable water increased from 1.19 to 1.43 inches. Winds above the 700-mb level had backed from southwest to southeast and were now southeasterly at all levels up to 400 mb. Wind speeds had also generally doubled.

The New York soundings for the 20th and 21st (fig. 14) showed temperature and dew point changes similar to those at Sterling, Va., with precipitable water increasing from 1.19 to 1.56 inches. However, northwesterly winds above the 700-mb level had backed to southwesterly on the 21st with little change in speed. At 0700 EST on the 21st, unstable air covered the Eastern United States from Florida to Canada, and rain was falling from the Carolinas to Canada as a result of Agnes and the northern low-pressure system.

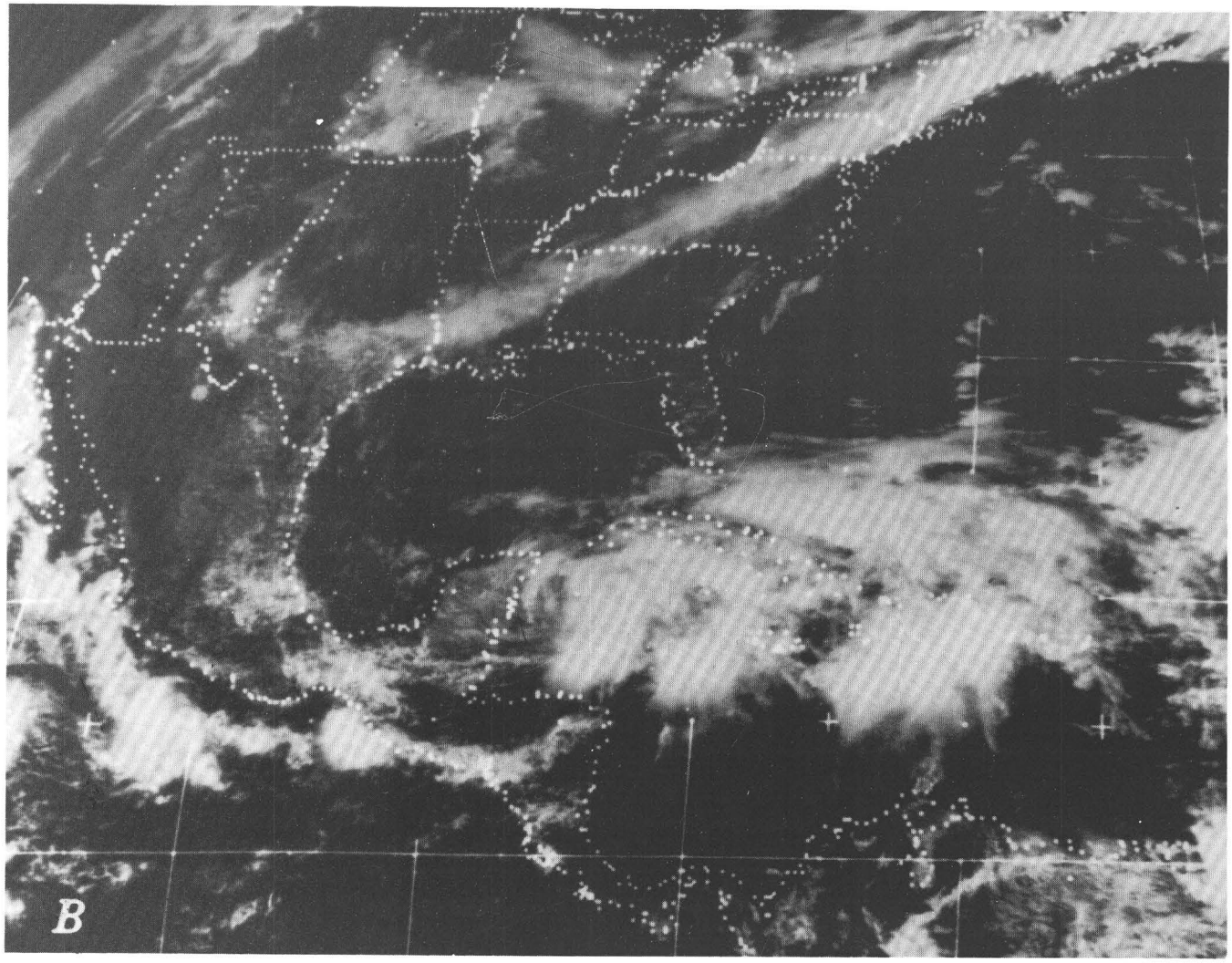
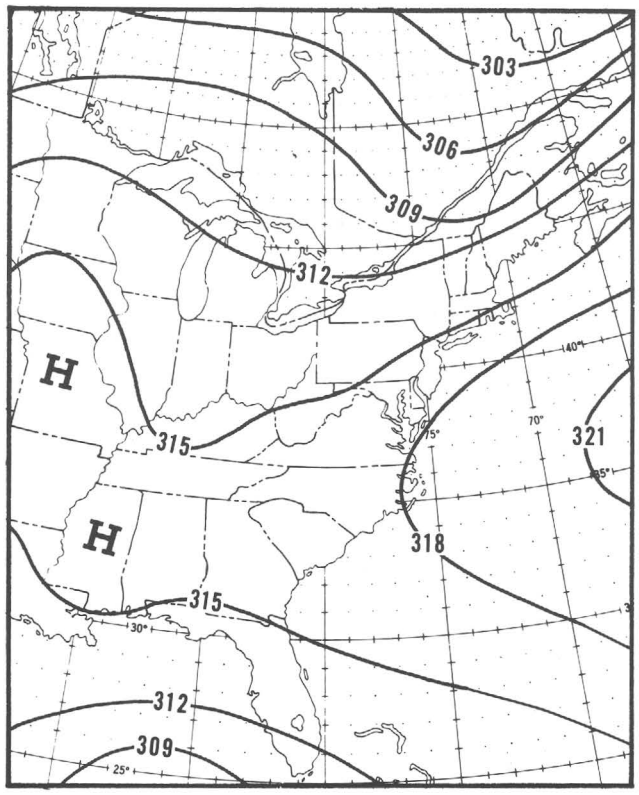


FIGURE 2.—Continued.

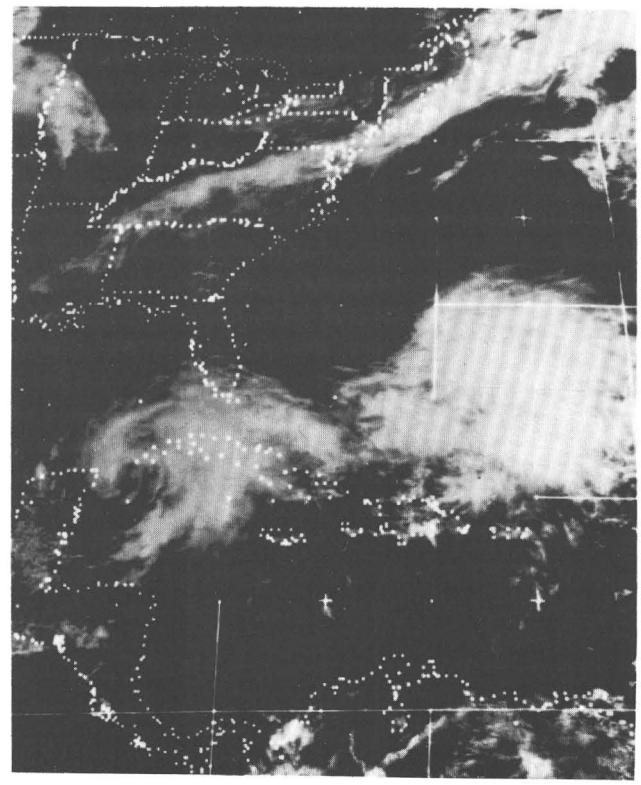
Continuing her northeastward movement, Agnes strengthened to a tropical storm during the afternoon of the 21st and crossed the North Carolina coastline about 1900 EST, the original center passing about 35 miles (56 km) north of Cape Hatteras (fig. 1). The pressure at Norfolk, Va., which had been falling rapidly since about 1100 EST on the 19th, reached its minimum of 985.4 mb at about 2000 EST, with the surface wind shifting from easterly to northwesterly about 2120 EST (fig. 11). At 0100 EST on the 22nd, the storm center was about 100 miles (160 km) east of Norfolk.

At 0700 EST on the 22nd, Agnes was centered at lat 38.2° N.; long 73.1° W., about 210 miles (338 km) east of Baltimore (figs. 1 and 8). It was at this time that Agnes reached the lowest recorded central pressure of her entire life, 977 mb, as determined by military reconnaissance flights. The sounding at J. F. Kennedy International Airport near New York City showed strong easterly to southeasterly winds at all levels (fig. 14), with precipitable water having increased slightly from 1.56 to 1.73 inches during the preceding 24 hours.

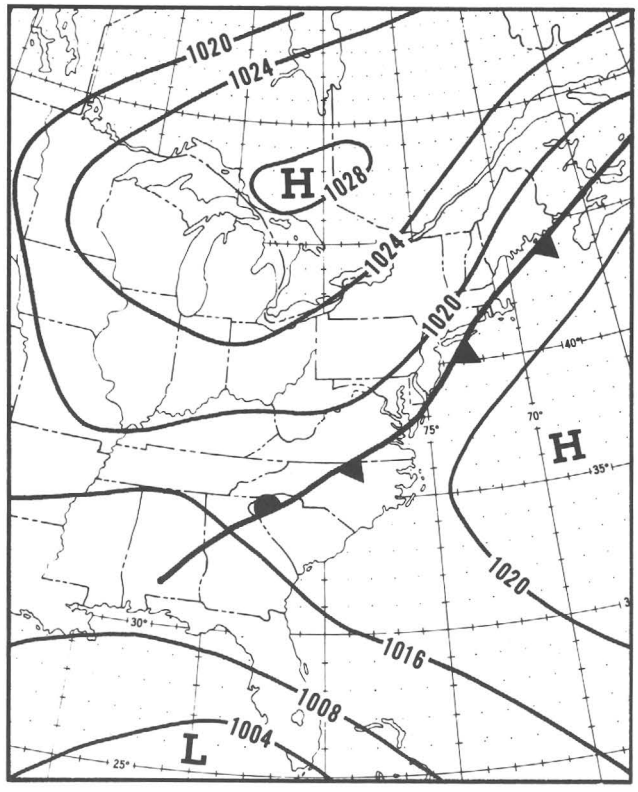
The moist unstable air accompanying the storm as it crossed Southeastern United States (figs. 3–7) had been replaced by dry stable air (fig. 8), which had moved in behind the storm, except over the extreme southern portion, where another weather system was active. The Kennedy Airport sounding (fig. 14) was the only one indicating instability in the Northeastern United States. The high amounts of precipitable water associated with Agnes on the morning of the 22nd were limited to southern New England, southern New York, and New Jersey



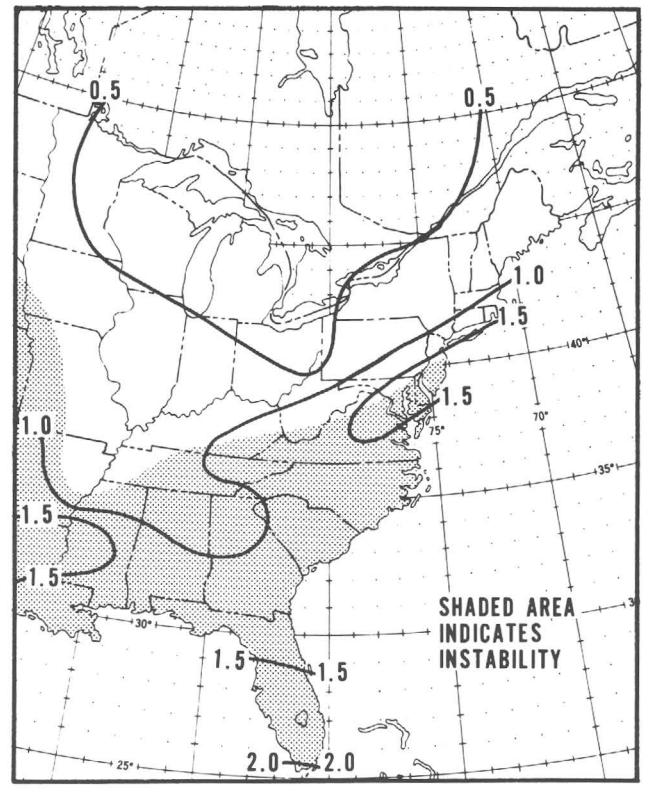
700-mb CHART



SATELLITE PHOTOGRAPH

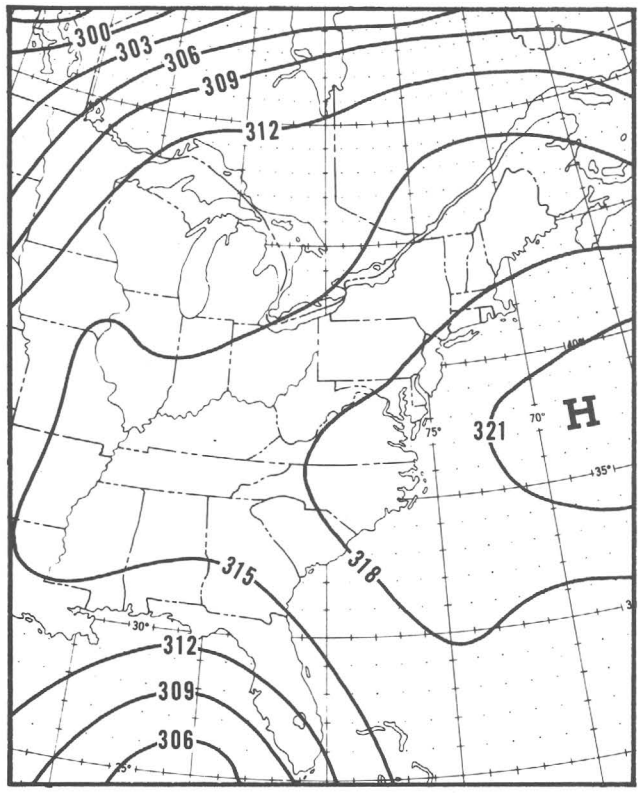


SURFACE WEATHER MAP

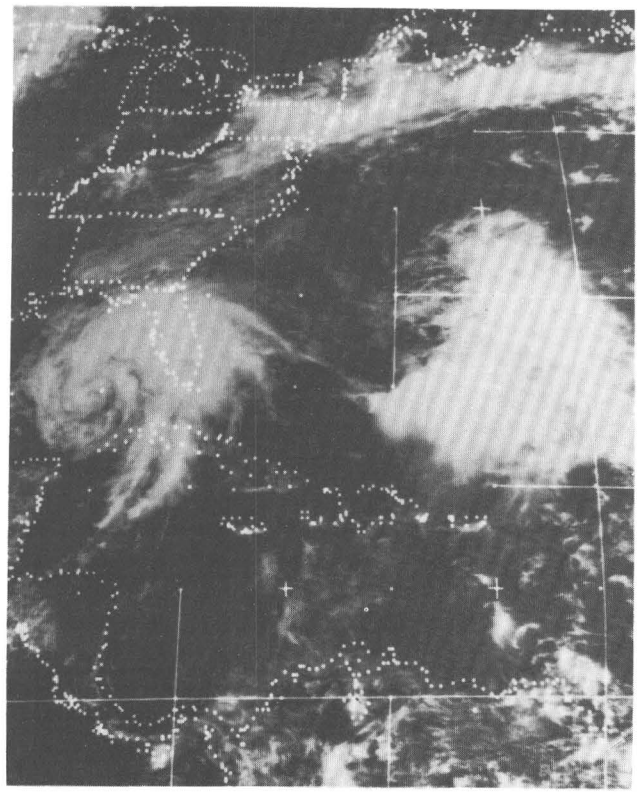


PRECIPITABLE WATER CHART

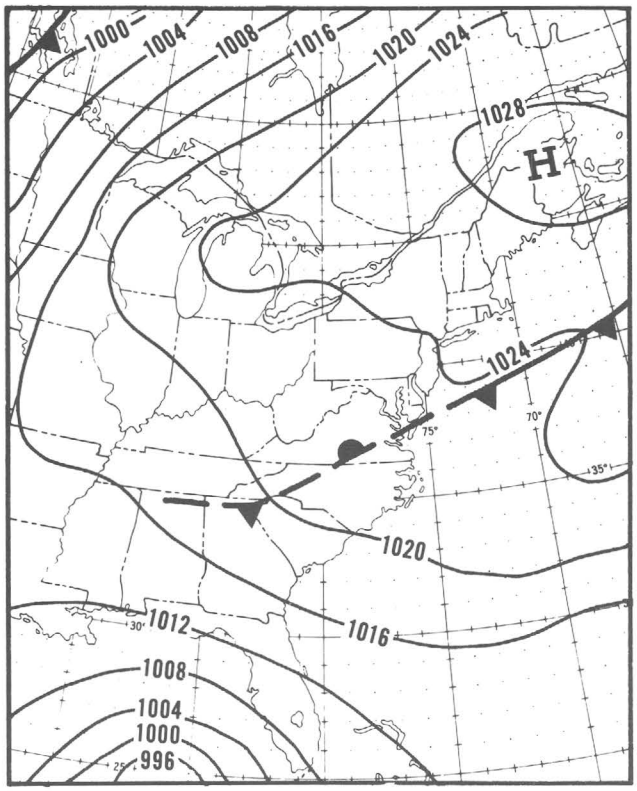
FIGURE 3.—Synoptic situation at 0700 EST, June 17, 1972. Satellite photograph is a composite from several orbits. (700-mb heights in tens of metres, surface pressure in millibars reduced to sea level, and precipitable water in inches.)



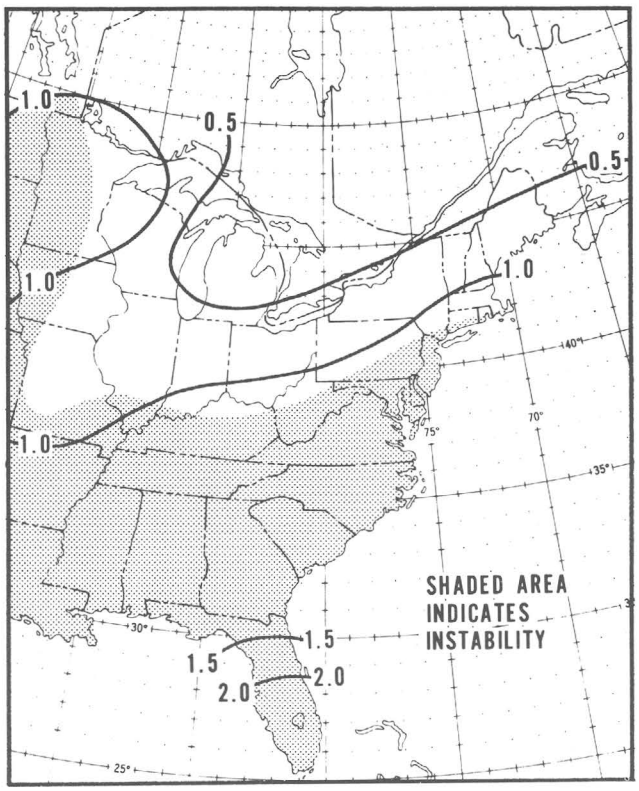
700-mb CHART



SATELLITE PHOTOGRAPH

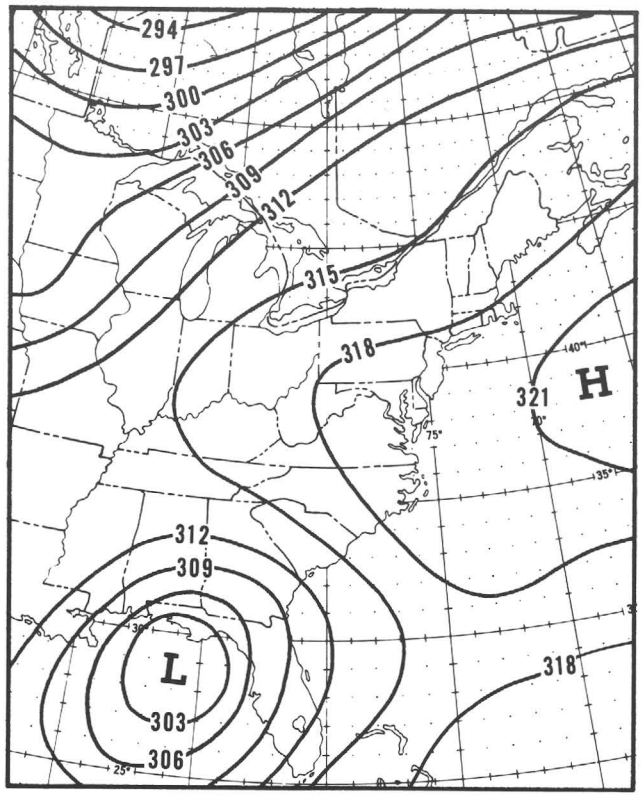


SURFACE WEATHER MAP

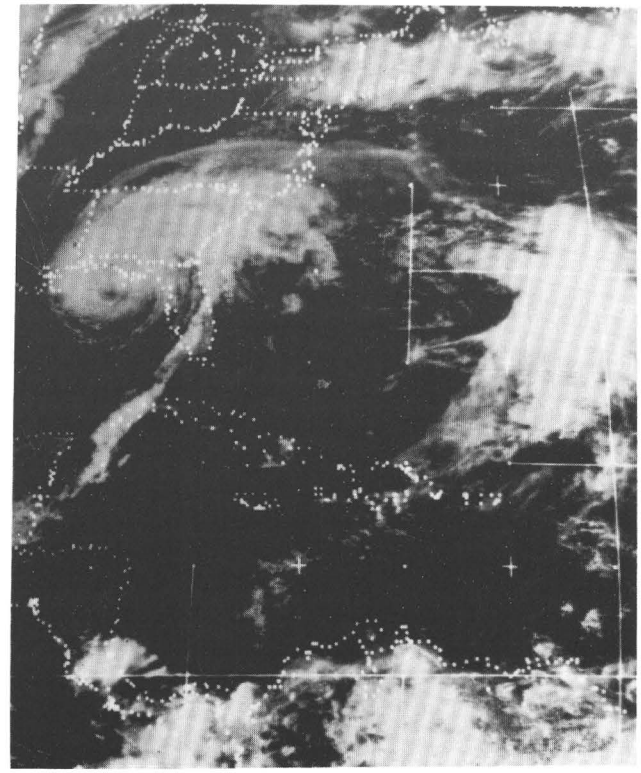


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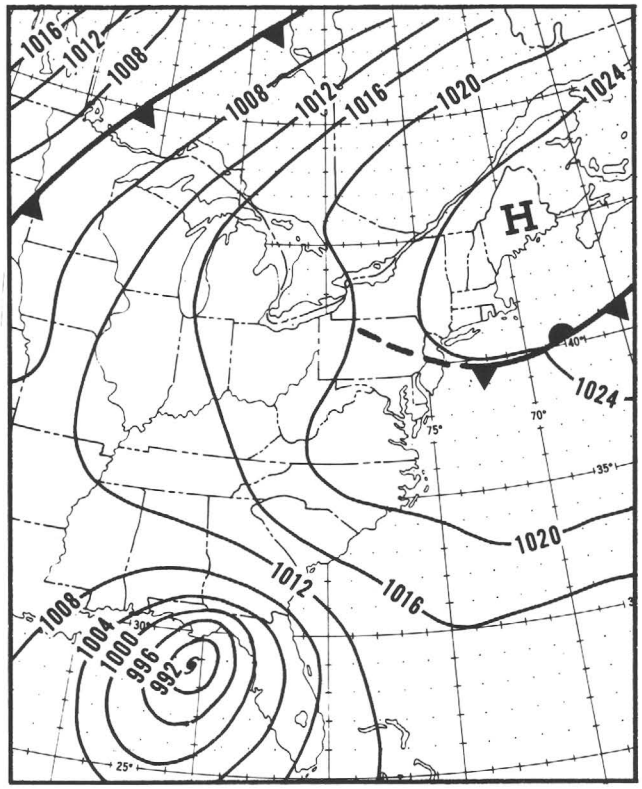
FIGURE 4.—Synoptic situation at 0700 EST, June 18, 1972. Satellite photograph is a composite from several orbits. (700-mb heights in tens of metres, surface pressure in millibars reduced to sea level, and precipitable water in inches.)



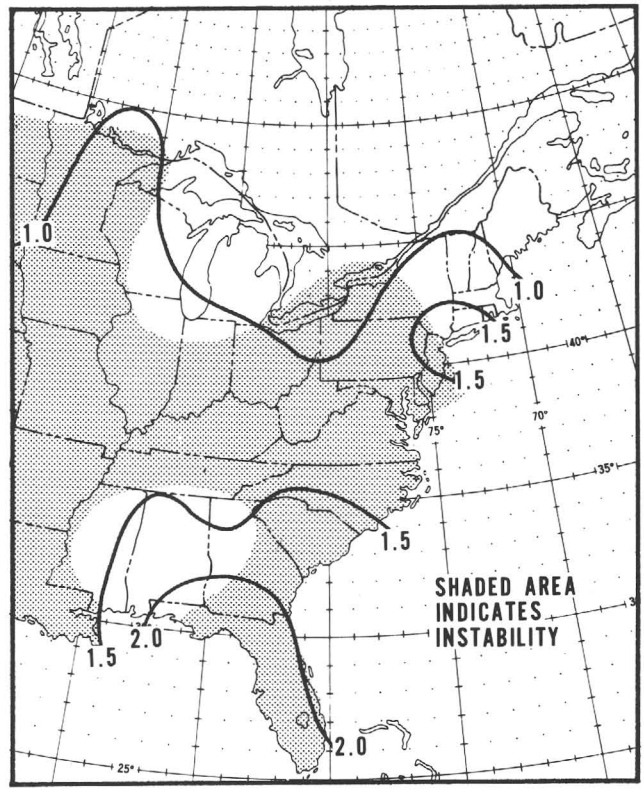
700-mb CHART



SATELLITE PHOTOGRAPH

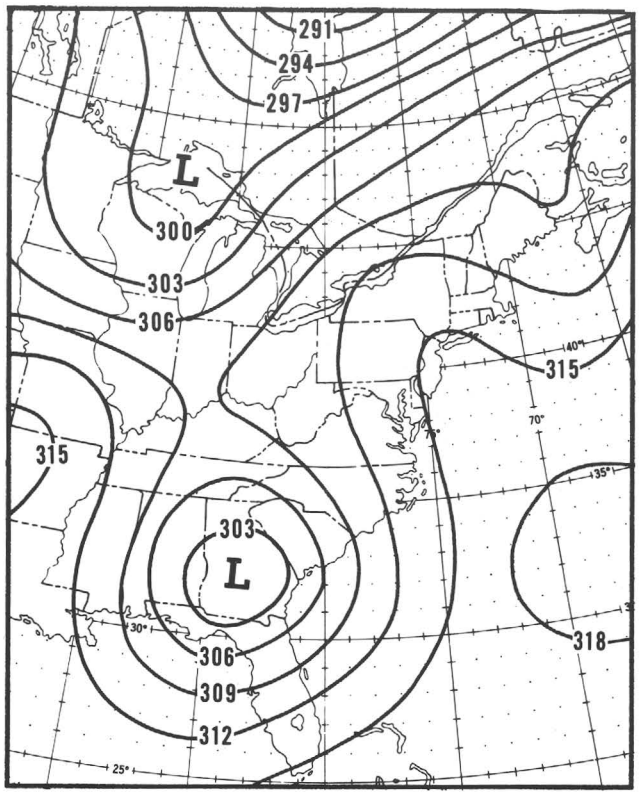


SURFACE WEATHER MAP

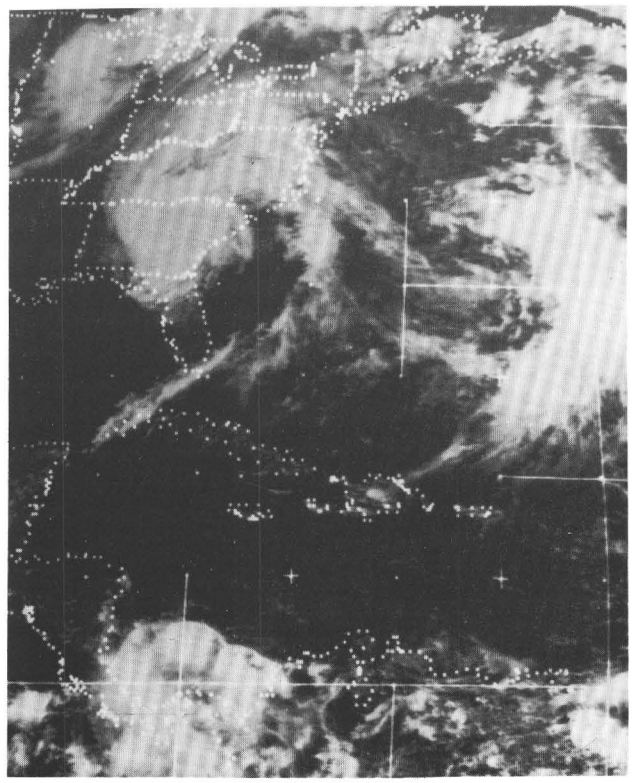


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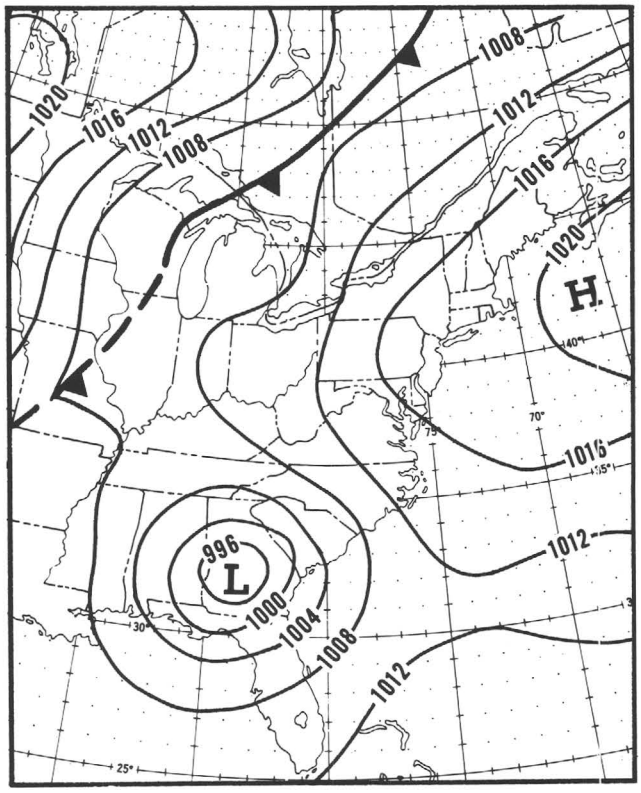
FIGURE 5.—Synoptic situation at 0700 EST, June 19, 1972. Satellite photograph is a composite from several orbits. (700-mb heights in tens of metres, surface pressure in millibars reduced to sea level, and precipitable water in inches.)



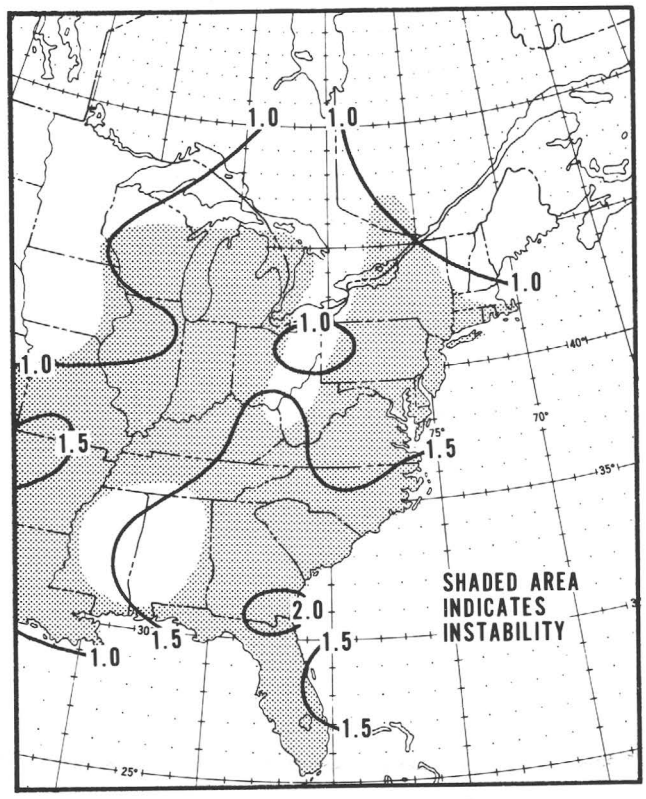
700-mb CHART



SATELLITE PHOTOGRAPH

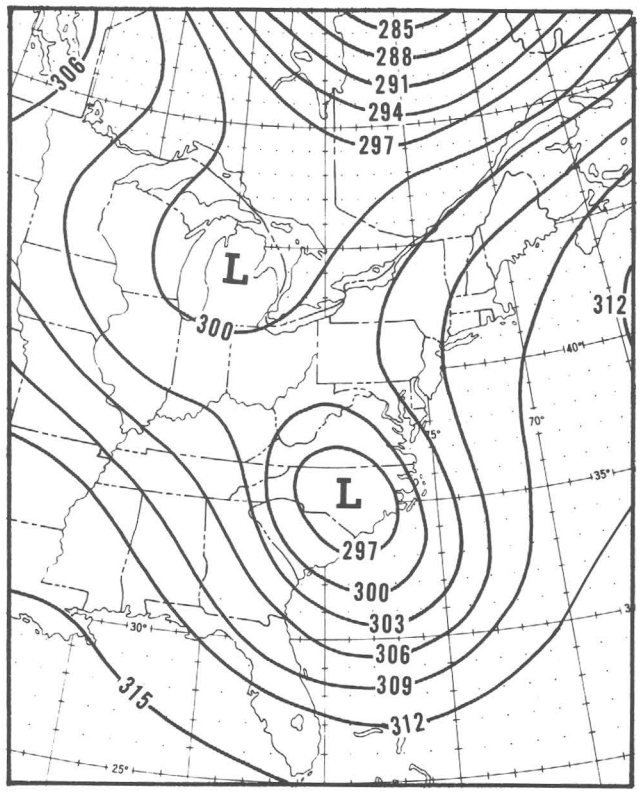


SURFACE WEATHER MAP

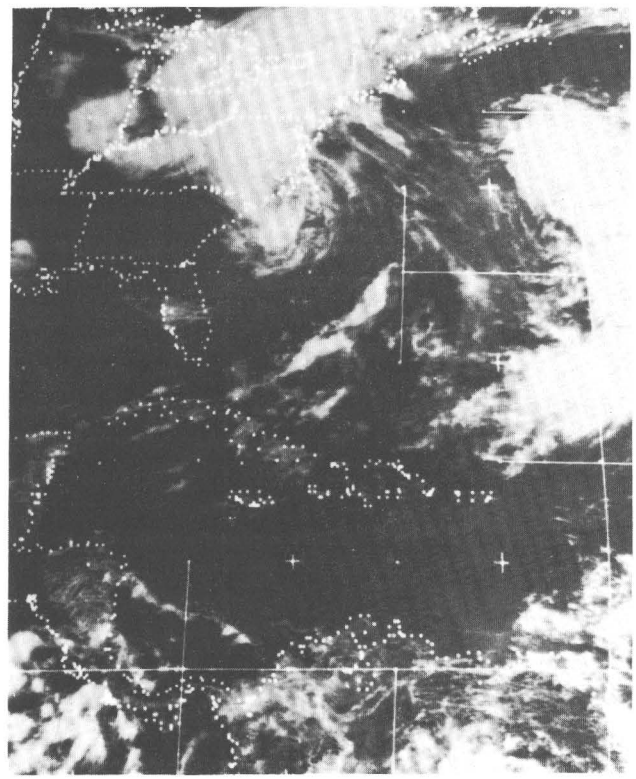


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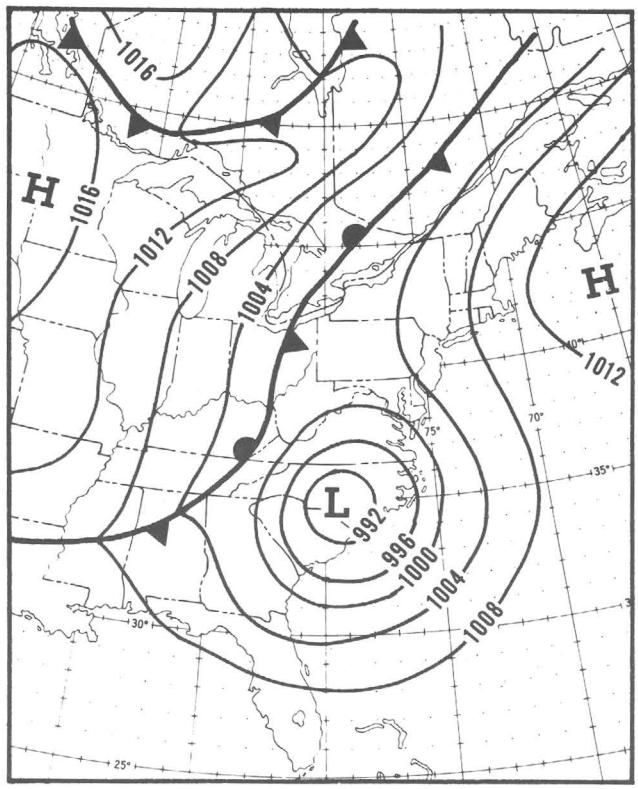
FIGURE 6.—Synoptic situation at 0700 EST, June 20, 1972. Satellite photograph is a composite from several orbits. (700-mb heights in tens of metres, surface pressure in millibars reduced to sea level, and precipitable water, in inches.)



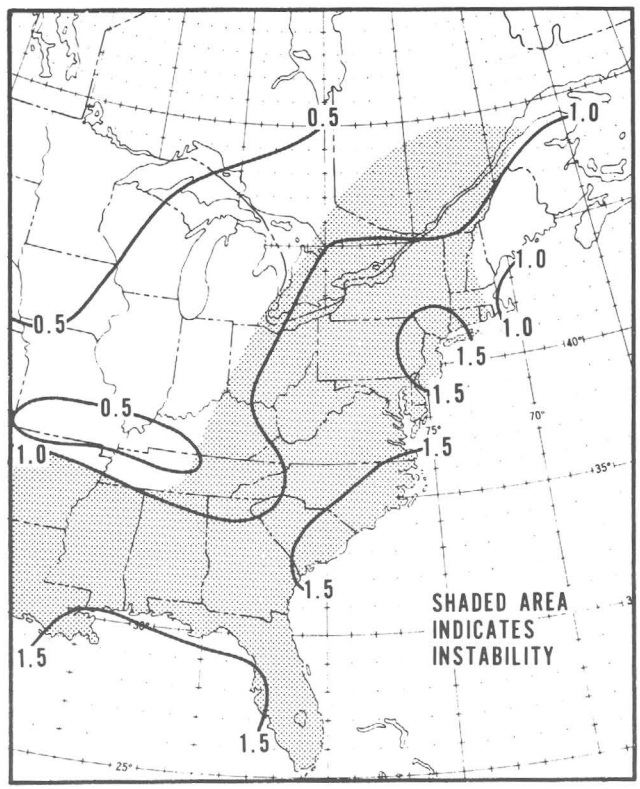
700-mb CHART



SATELLITE PHOTOGRAPH

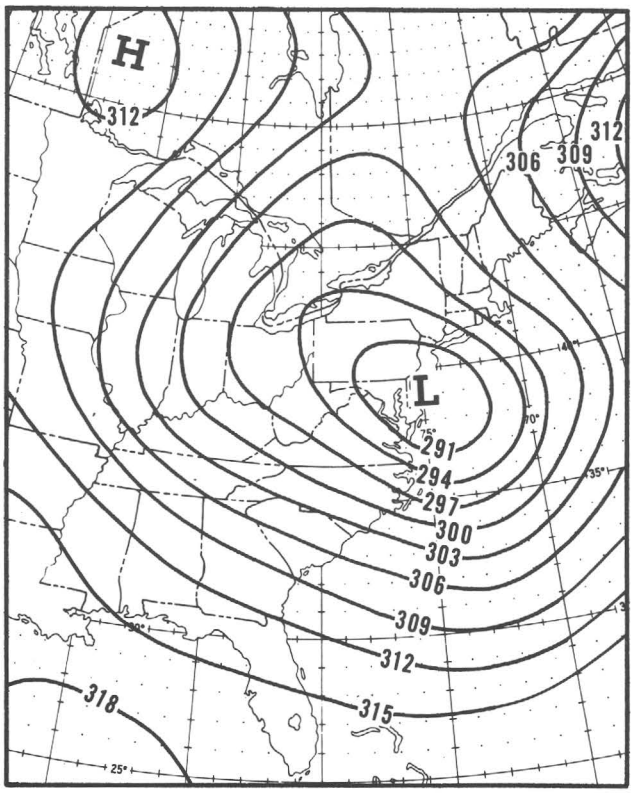


SURFACE WEATHER MAP

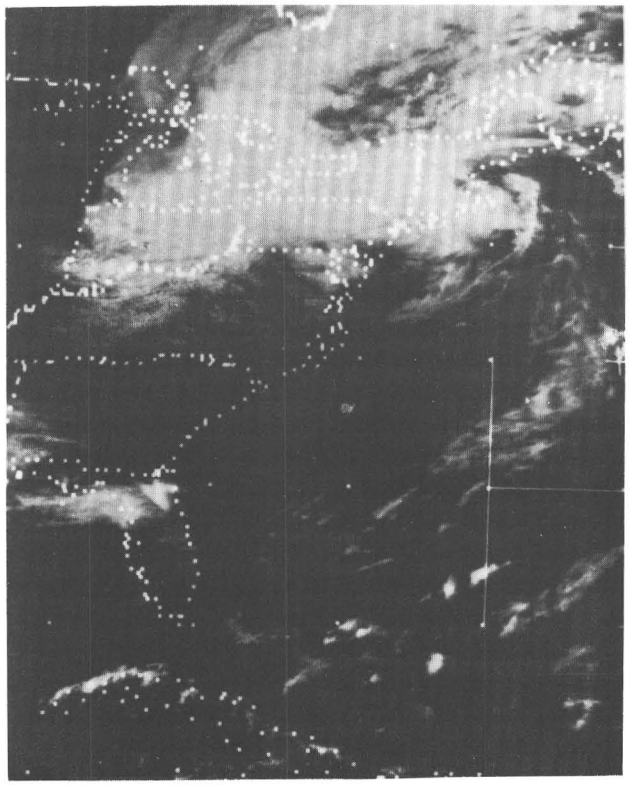


PRECIPITABLE WATER CHART

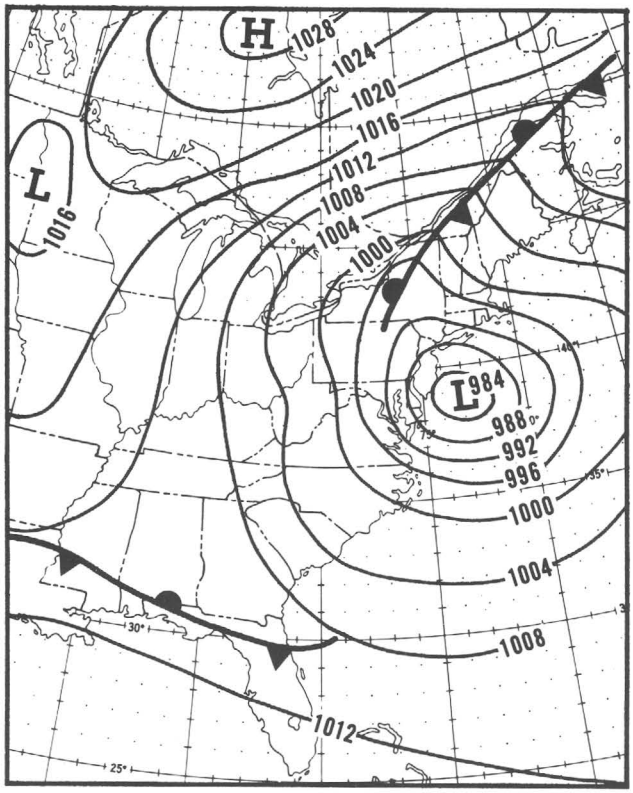
FIGURE 7.—Synoptic situation at 0700 EST, June 21, 1972. Satellite photograph is a composite from several orbits. (700-mb heights in tens of metres, surface pressure in millibars reduced to sea level, and precipitable water in inches.)



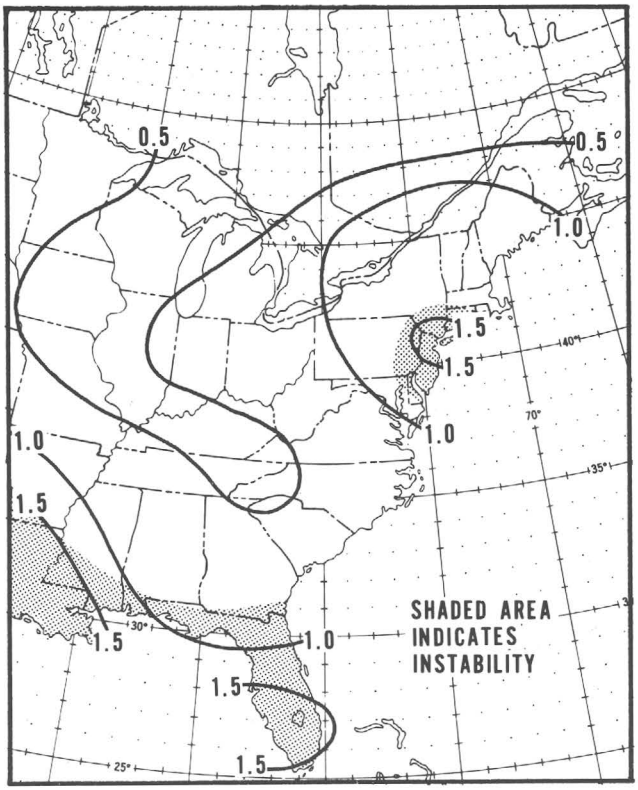
700-mb CHART



SATELLITE PHOTOGRAPH

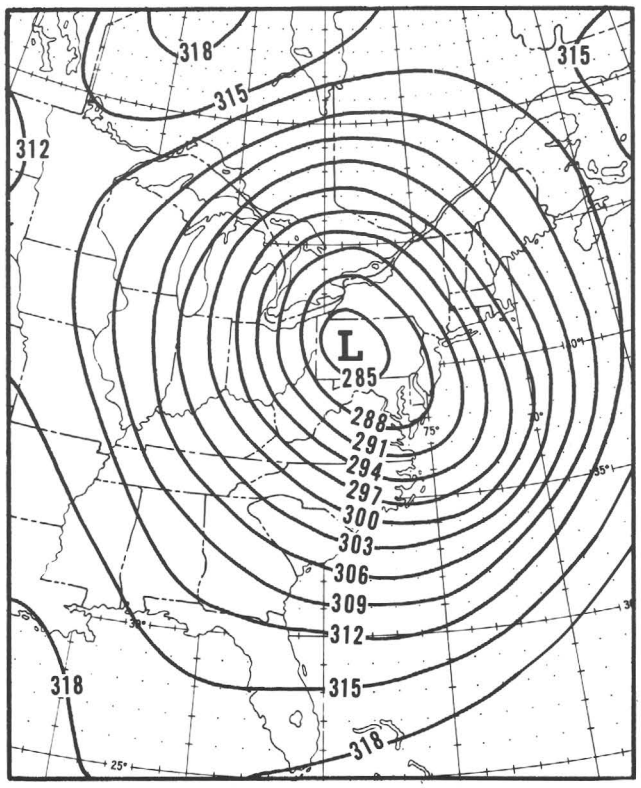


SURFACE WEATHER MAP

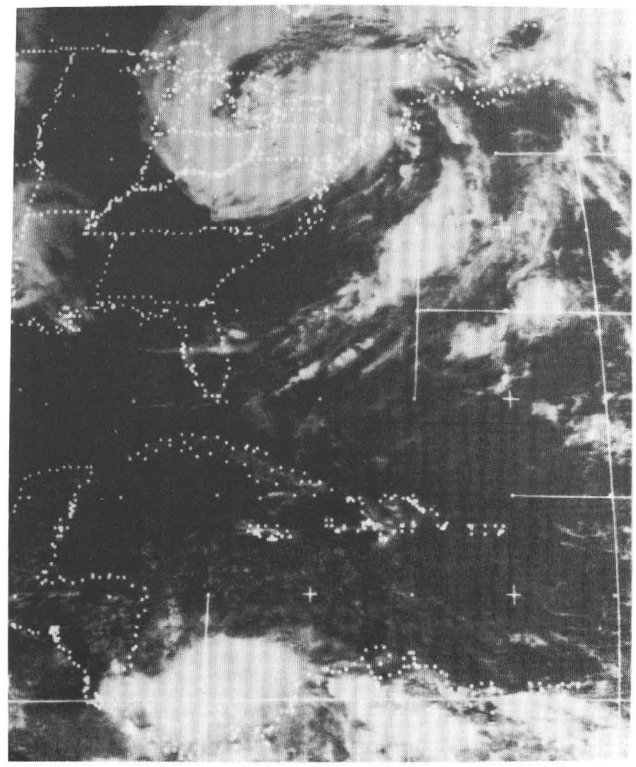


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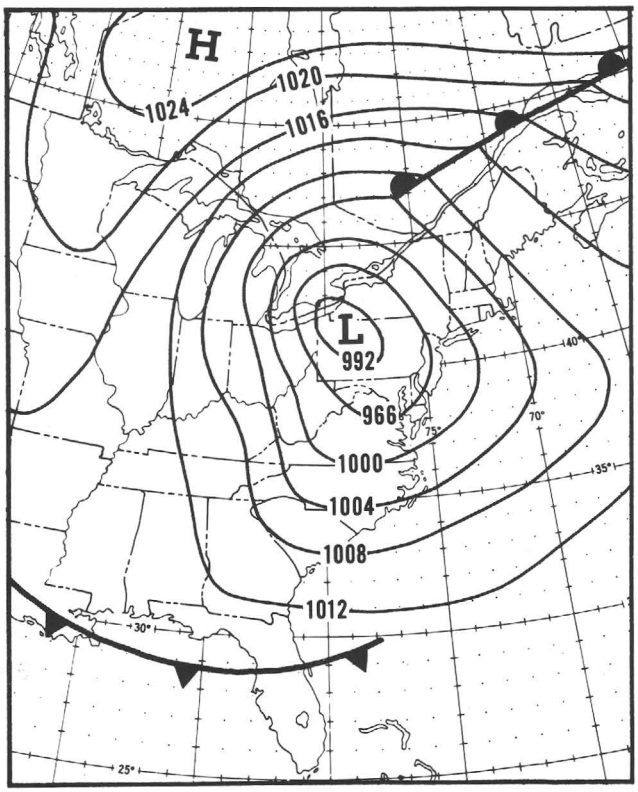
FIGURE 8.—Synoptic situation at 0700 EST, June 22, 1972. Satellite photograph is a composite from several orbits. (700-mb heights in tens of metres, surface pressure in millibars reduced to sea level, and precipitable water in inches.)



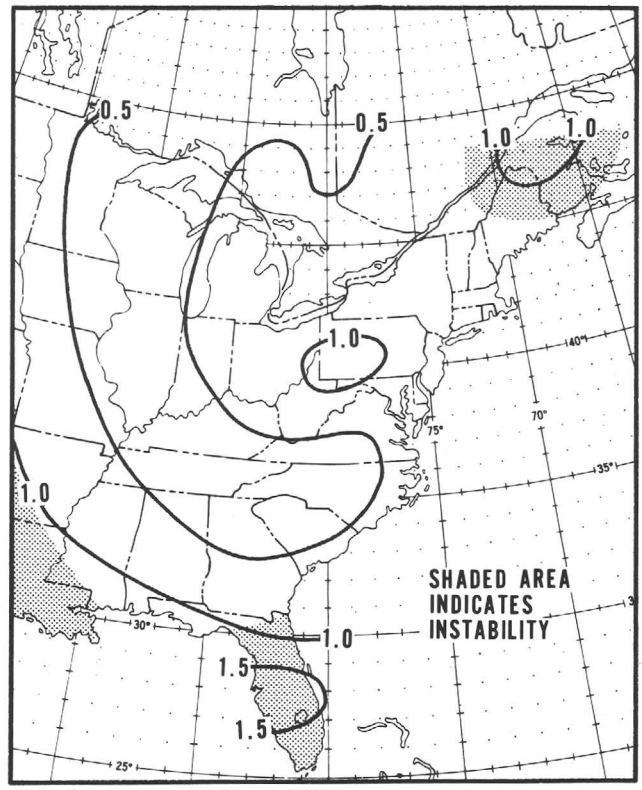
700-mb CHART



SATELLITE PHOTOGRAPH

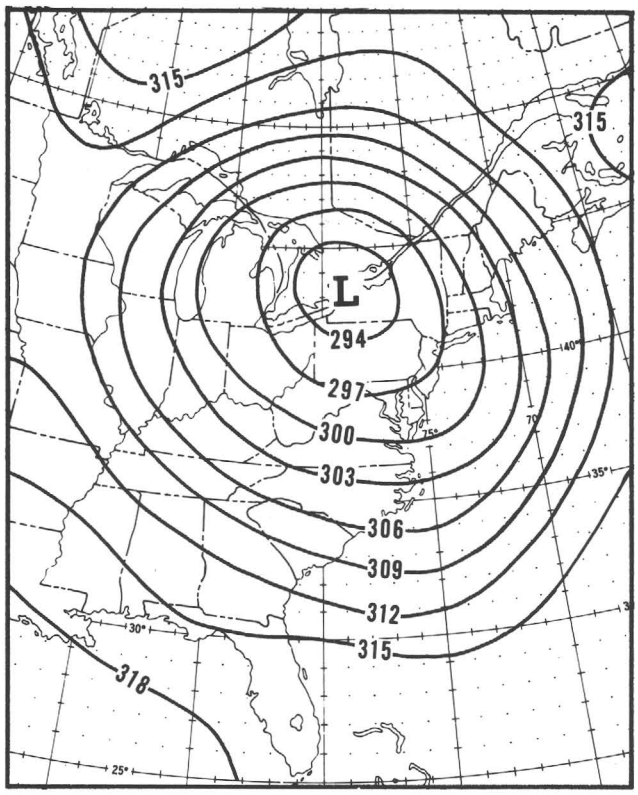


SURFACE WEATHER MAP

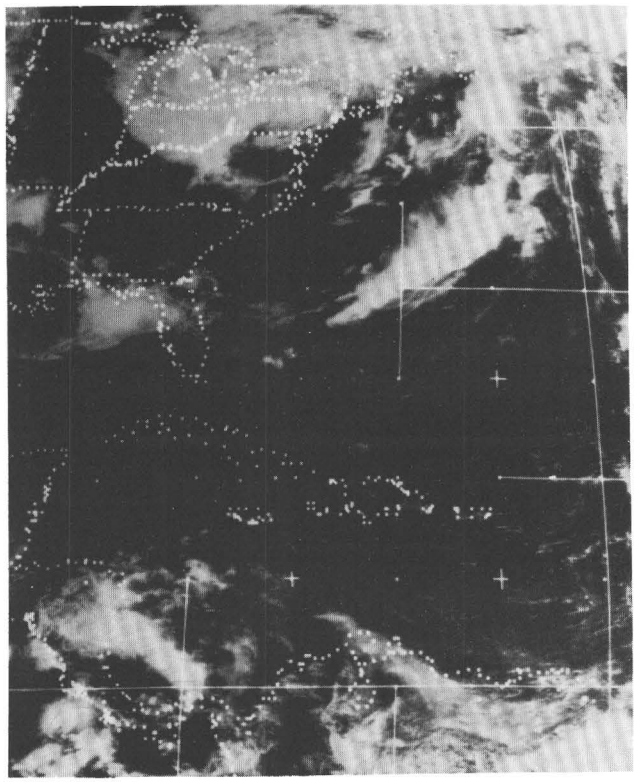


PRECIPITABLE WATER CHART

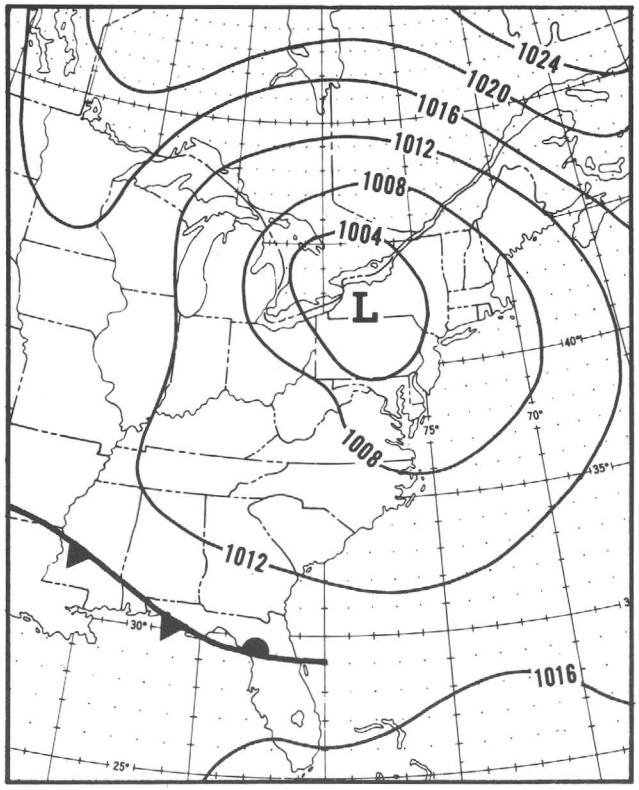
FIGURE 9.—Synoptic situation at 0700 EST, June 23, 1972. Satellite photograph is a composite from several orbits. (700-mb heights in tens of metres, surface pressure in millibars reduced to sea level, and precipitable water in inches.)



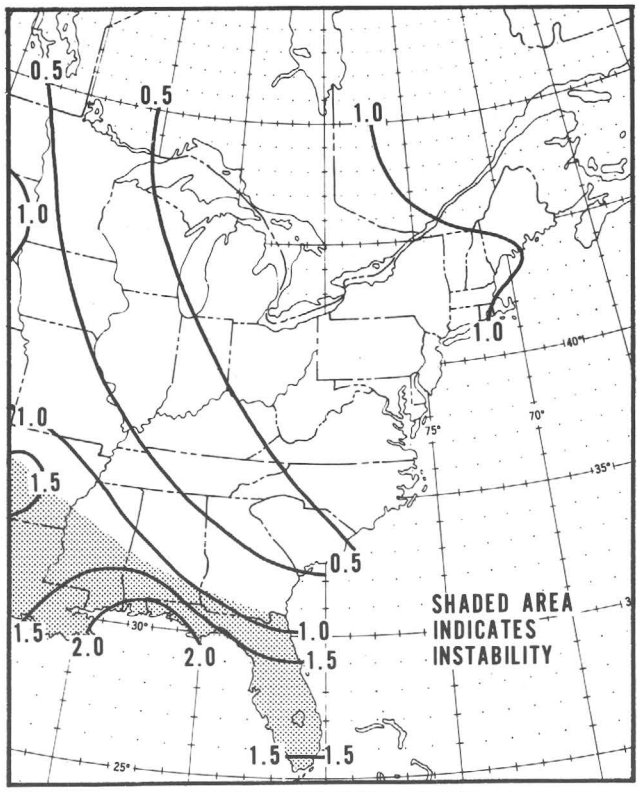
700-mb CHART



SATELLITE PHOTOGRAPH



SURFACE WEATHER MAP



PRECIPITABLE WATER CHART

FIGURE 10.—Synoptic situation at 0700 EST, June 24, 1972. Satellite photograph is a composite from several orbits. (700-mb heights in tens of metres, surface pressure in millibars reduced to sea level, and precipitable water in inches.)

TABLE 1.—*Minimum sea-level pressure and maximum surface wind speeds at selected stations, June 18–25, 1972*

Station [1]	Date	Pressure (mb)		Wind (mph)			
		Low	Time (EST)	Fastest mile	Time (EST)	Gusts	Time (EST)
Florida							
Apalachicola	19	987.1	1512	--------	----------	E 55	0612
						SE 55	1423
Big Pine Key	18	-----	----------	SSE 32	1140	SE 50	1200
Crestview FAA	19	984.4	1556–1757	NE 39	0958		
Daytona Beach WSO	19	1005.1	1656	E 29 [2]	18/2237	E 45	0312
Flamingo	18	-----	----------	SSE 42	0735	SSE 56	0700
Fort Myers WSO	17	-----	----------	E 25 [2]	1328	--------	-------
Do	18	1004.1	1630	SE 25 [2]	0955	SE 53	0955
Jacksonville WSO	19	-----	----------	E 39	0637	SE 56	0637
Kennedy SC	19	-----	----------	SSE 52	0330	SSE 69 [3]	0330
Key West WSO	18	1002.0	0310	SE 43	0519	E 52	0144
Lakeland WSO	19	1004.4	0230	SE 33	18/1828	SE 55	18/1816
Miami WSMO	18	-----	----------	ESE 25	2228	SE 36	1523
Orlando	18	1005.1	1655	ESE 30 [2]	18/2013	E 41	18/1928
Panama City	19	-----	----------	NNE 35	0200	NNE 44	0200
Panama City FAA	19	[4] 987.5	1600&1800	NE 40 [2]	0700–0750	--------	-------
Pensacola FWF NAS	19	997.0	1355–1655	NNE 35	0737	NNE 49	0648
Pensacola WSO	19	997.3	1700	NNW 23 [2]	1556	NNW 43	1556
St. Petersburg AP FAA	19	[4] 1001.7	0353–0552	S 29 [2]	0850	S 48	1455
Tallahassee WSO	19	991.2	1709	S 31 [2]	1757	SSE 46	1817
Tampa WSO	19	1002.0	0600	SE 27 [2]	18/2057	SE 43	18/2048
						S 43	11/1109
Tyndall AFB	19	985.8	1458	NE 40 [2]	0655	NE 52	0655
West Palm Beach WSO	18	1008.5	1632	E 32 [2]	1632	E 46	1632
Alabama							
Dothan FAA	20	990.9	2200	N 29 [2]	19/2157	N 43	19/2157
Mobile WSO	19	1002.0	1745	N 22 [2]	1457	N 35	1452
Montgomery WSO	20	998.3	0200–0400	N 25	1421	N 37	19/1411
Georgia							
Albany FAA	20	992.2	0555	ENE 17 [2]	19/1156	NE 29	19/1115
Augusta WSO	20	992.9	1800–2000	E 24 [2]	19/2010	E 35	19/1957
Brunswick	20	998.0	1558	--------	----------	E 52	19/1056
Macon WSO	20	995.6	1010	E 33	19/1537	NE 35	19/1555
Savannah WSO	20	994.9	1800	E 37 [2]	19/1349	E 48	19/1340
South Carolina							
Beaufort MCAS	21	992.6	0200	SE 29 [2]	19/1941	ESE 46	19/1901
Charleston WSO	21	992.2	0400	W 39	0644	E 40	19/2234
					22/1455		
Columbia WSO	21	992.2	0300–0400	E 24	19/2255	E 34	19/2254
Florence FAA	21	990.2	0400	WNW 23 [2]	1354	WNW 44	1354
Greer WSO	21	994.9	0200	E 21	20/0200	N 29	20/2156
Myrtle Beach AFB	21	989.8	0700	WNW 29 [2]	1136	NW 46	1350
North Carolina							
Cape Hatteras WSO	21	986.5	1755	WNW 37 [2]	2158	WNW 62	2155
Charlotte WSO	21	991.2	0400	NW 23	0617	NNW 26	0622
Elizabeth City FAA	21	985.8	1758	SSE 23 [2]	0600	SSW 35	1159
Greensboro WSO	21	992.2	0700	NW 26	0804	NNW 30	0747
New Bern FAA	21	988.5	1450	SE 18 [2]	0255	W 32	1855
Raleigh WSFO	21	990.5	0956	N 24 [2]	1256	WSW 31	22/1555
Rocky Mount FAA	21	988.2	1358	NNW 23 [2]	1555	NNW 35	1555
Wilmington WSO	21	988.8	1055–1255	SE 26	20/1038	SE 37	20/1004
				W 26	20/1346		
Virginia							
Chesapeake L/V	21	986.1	2300	--------	----------	--------	-------
Dulles Int'l. AP	21	991.9	1555	NNW 25 [2]	1855	N 50	1853
Langley AFB	21	985.8	1855	NNW 35	22/0055	NW 54	22/0058
Norfolk WSO	21	985.4	2000	NW 42	22/0037	NW 54	22/0032
Richmond WSO	21	986.8	1658	NW 31	1905	NW 32	1858
Washington Nat'l. AP	21	989.8	1955	NW 43	2317	NW 49	2103
Maryland							
Andrews AFB	21	990.9	1855	NNW 29	2230	NNW 46	0209
Assateague	22	-----	----------	SW 20	1100	SW 50	0800
Baltimore WSO	22	990.2	0042	NW 37	0116	NW 39	0155
Kentmorr Marina	22	-----	----------	NW 50 [2]	0224	NW 63	0212
Ocean City CGS	22	985.1	0400	W 52	0730	--------	-------
Patuxent NAS	21	986.1	2358	NNW 25 [2]	22/0158	NNW 43	22/0257
Salisbury FAA	22	984.4	0256–0356	NNW 37	0700	NW 57	0708
Delaware							
Dover AFB	22	986.1	0355	NW 46	0928	NW 67	0918
Indiana River Inlet CGS	22	986.1	0500	NW 46	1100	NW 50	1200
Wilmington WSO	22	986.1	0807	NW 35	1055	WNW 51	1133

See footnotes at end of table.

TABLE 1.—*Minimum sea-level pressure and maximum surface wind speeds at selected stations, June 18–25, 1972*—Continued

Station [1]	Date	Pressure (mb)		Wind (mph)			
		Low	Time (EST)	Fastest mile	Time (EST)	Gusts	Time (EST)
New Jersey							
Atlantic City WSO	22	982.4	0900–1115	WNW 31 [2]	1255	W 49	1227
Trenton WSO	22	982.1	1300	SW 29 [2]	2018		
Pennsylvania							
Allentown	22	983.5	1357	NE 25 [2]	0929		
Harrisburg	22	987.5	1950	NW 30	1048		
Philadelphia WSFO	22	984.1	0955	W 34	1318		
New York							
J. F. Kennedy Int'l. AP WSO	22	981.4	1451	WSW 32 [2]	1651	WSW 47	1712
LaGuardia Field WSO	22	981.4	1454	NE 41	0848	WSW 44	1747
New York City WSO	22	981.7	1450	NE 36	0843	NE 55	0839
Connecticut							
Hartford WSO	22	982.1	1730	S 29	1931	S 46	1923
New Haven FAA	22	982.1	1712	SSW 29	2047	SW 40	1945
Rhode Island							
Providence	22	985.5	1559	S 26 [2]	1928	S 38	1923

[1] Abbreviations after station name are: AFB, Air Force Base; AP, Air Port; CGS, Coast Guard Station; FAA, Federal Aviation Administration; FWF; Fleet Weather Facility; L/V, Light Vessel; MCAS, Marine Corps Air Station; NAS, Naval Air Station; SC, Space Center; WSFO, Weather Service Forecast Office; WSMO, Weather Service Meterological Office; WSO, Weather Service Office.
[2] Fastest 1-minute wind speed.
[3] Upper limit of recorder.
[4] Altimeter setting.

TABLE 2.—*High tides attributed to Agnes, June 18-22, 1972* [1]

Station name [2]	Location		Tide height (ft above normal)	Time (EST)/Date
	Lat N.	Long W.		
Florida				
Apalachicola WSO	29°45′	85°00′	6.4	1512/19
Big Pine Key	24°43′	81°23′	1.2	----/18
Cedar Key	29°08′	83°02′	7.0	----/19
Daytona Beach WSO	29°14′	81°00′	[3]1.7	0057/19
Flamingo	25°50′	80°38′	2.0	----/18
Fort Myers WSO	26°39′	81°52′	3.0	0830/19
Jacksonville WSO	30°24′	81°26′	2.8	----/19
Key West WSO	24°33′	81°48′	1.2	1430/18
Panama City	30°04′	85°35′	3.4	----/19
Pensacola WSO	30°24′	87°13′	1.7	0658/19
St. Petersburg FAA	27°46′	82°37′	4.1	----/19
Tampa	27°46′	82°37′	5.0	1115/19
Alabama				
Mobile WSO	30°42′	88°02′	1.3	0330/19
South Carolina				
Charleston	32°47′	79°55′	[4]7.0	----/21
Virginia				
Norfolk WSO (Sewells Point)	36°57′	76°20′	1.2	1730/21
Maryland				
Assateague	37°57′	75°06′	4.0	----/22
Ocean City CGS	38°20′	75°05′	3.0	1500/22
Delaware				
Indian River Inlet CGS	38°37′	75°04′	1.5	----/22
New Jersey				
Atlantic City WSO	39°21′	74°25′	2-3	----/22
New York				
LaGuardia Field	40°48′	73°47′	[3]2.9	1300/22
New York (Battery Park)	40°42′	74°11′	3.1	1107/22
Rhode Island				
Providence WSO	41°48′	71°24′	3.2	1700/22

[1] Parts of these data were obtained from the National Hurricane Center (Simpson and Hebert, 1978) and the Environmental Data Service (De Angelis and Hodge, 1972).
[2] CGS, Coast Guard Station; FAA, Federal Aviation Administration; WSO, Weather Service Office.
[3] Tide above mean sea level.
[4] Tide above mean low water.

TABLE 2.—*High tides attributed to Agnes, June 18-22, 1972* —Continued

Station	Location		Elevation of mark (ft above mean sea level)	Average ground elevation of site (ft above mean sea level)	Remarks
	Lat N.	Long W.			
High-water mark data, Florida					
Alligator Point	29°52′	84°25′	8.3	5.0	Water mark on door at Alligator Point Marina noted 5 hours after storm passage.
Apalachicola	29°44′	84°59′	5.4	0.5	Water at top of curb.
Carrabelle	29°51′	84°40′	8.3	15.0	Water level on piling.
Carrabelle	29°51′	84°39′	9.5	12.0	Water at top of piling.
East Point, 6 mi NE	29°49′	84°51′	6.4	5.5	Water elevation about 1 ft above cattle guard.
Florida State Route 65 and US 98, 1.4 mi W of junction.	29°50′	84°52′	7.4	9.0	State Trooper stated water was covering berm of Highway 98 in front of Florida Highway Patrol Station.
Panacea, 4 mi S	29°59′	84°22′	8.4	8.0	Water reached seam on pavement of driveway entrance to motel. Verified by photograph.
St. George Island	29°42′	84°50′	7.5	7.3	Water reached bottom of beams supporting floor of building.
St. George Island	29°42′	84°50′	4.4	4.0	Water reached top first layer of concrete blocks above floor level of building. Some conflicting testimony by witness.

(fig. 8). Rain was falling over the eastern Great Lakes region, Maryland, Delaware, New Jersey, and the New England coastal areas (figs. 28 and 29). Maximum sustained surface-wind speeds along the coast from Norfolk, Va., to Providence, R.I., ranged from 25 to 45 mph (22–39 knots) with guests up to 55 mph (48 knots).

At about 0700 EST on the 22nd, Agnes began to curve toward the northwest. The storm center just tipped the west end of Long Island and moved inland in the vicinity of New York City (fig. 1). The pressure at LaGuardia Airport reached its minimum of 981.4 mb at 1454 EST (table 1), and the northeasterly surface winds veered to southwesterly about 1700 EST. At about the same time, the surface wind at Wilkes-Barre, Pa., shifted from northerly to southerly. Lowest pressure at Wilkes-Barre was 981.5 mb at about 2000 EST (fig. 11).

Sometime during the afternoon of June 22, the original weakened Agnes center was absorbed into the circulation of the now dominant extratropical Low center, which was located in western Pennsylvania at 0700 EST, the 23rd (fig. 9). This Low stagnated for some 24 hours (fig. 10) before slowly drifting northeastward. It dominated the weather in the northeastern United States for several days before passing out into the North Atlantic. Most of the heavy rain in the Middle Atlantic region attributable to Agnes, however, fell on June 21–22.

RAINFALL

The severity of the flooding associated with Agnes may be attributable in part to the wet weather that prevailed over a period of several weeks preceding the storm. Figure 15 shows that May precipitation was abnormally heavy over New York, eastern Pennsylvania, Maryland, New Jersey, and, especially Virginia, the southeastern part of which experienced monthly totals exceeding twice normal.

Precipitation for the first half of June was generally above normal in eastern New York, western and extreme eastern Pennsylvania, northern New Jersey, and southeastern Maryland (fig. 16). In Virginia, precipitation was generally below normal.

A frontal system sweeping across Eastern United States on June 15–17 brought heavy rains to parts of the northeastern region and to scattered areas of the southern Appalachian Mountain region. The satellite photographs in figures 2 and 3 show that these heavy rains were associated with the cloudiness accompanying the frontal system and were not attributable to Agnes. The surface-weather map in figure 3 shows the northern part of the front passing out to sea at 0700 EST, June 17, with the southern part and associated cloud system, as shown by the satellite photograph, trailing southwestward from southern New England to Alabama and Mississippi. At this time Agnes had not yet reached the

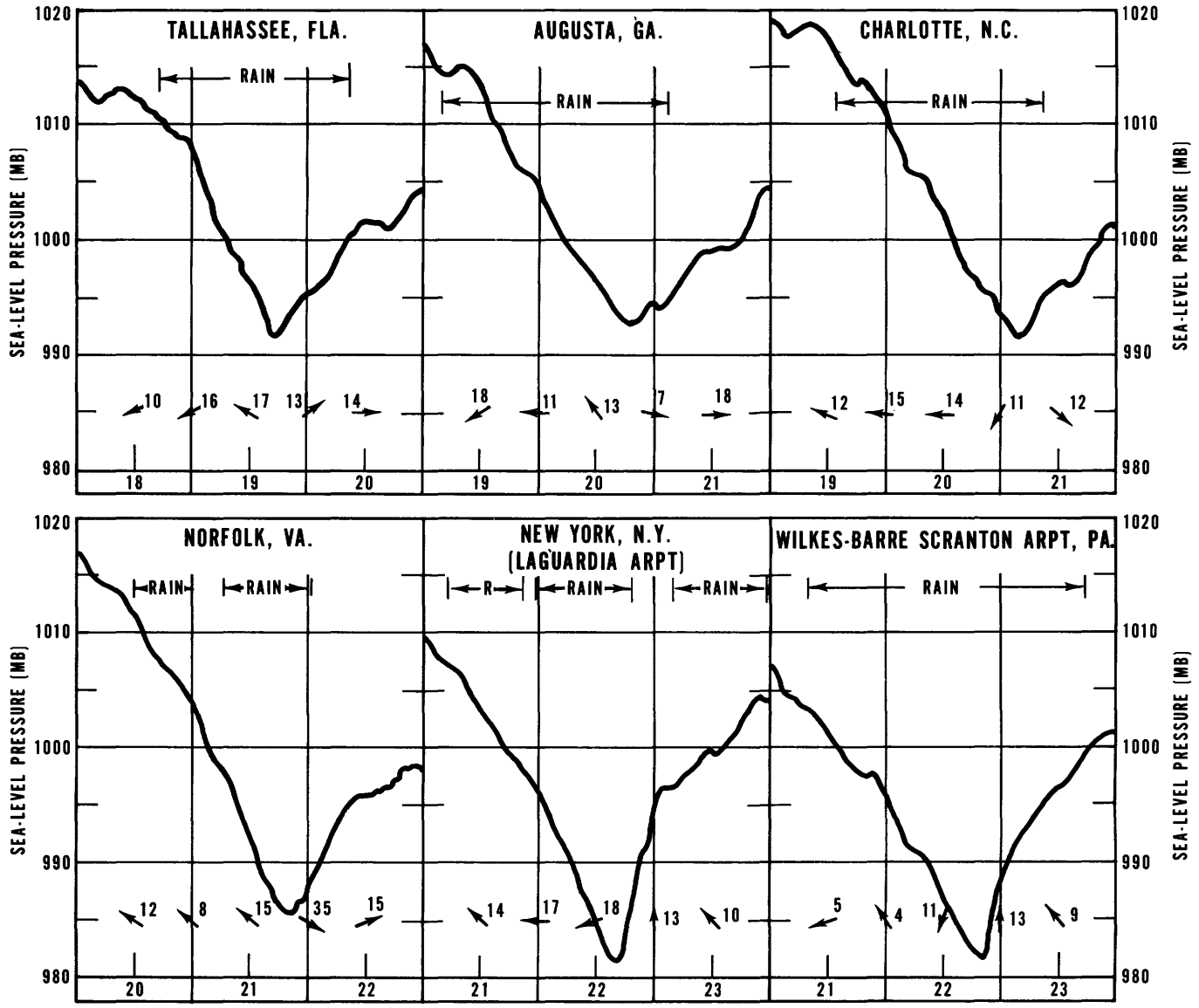


FIGURE 11.—Pressure variation at selected stations along the storm track. Arrows and numbers show surface wind direction and speed in knots.

west tip of Cuba (fig. 1), and her cloud pattern was well separated from that of the frontal system.

The isohyetal chart for the 24-hour period ending at 0700 EST, June 16 (fig. 17), shows an elongated area of heavy rainfall with centers of 2 to 4 inches extending southwestward from Lake Champlain in northeastern New York to northwestern Pennsylvania. During the following 24 hours, rainfalls exceeding 1 inch were measured in an area extending southwestward from eastern Massachusetts to south-central Pennsylvania and also in southwestern Virginia, southern West Virginia, and southeastern Kentucky (fig. 18). One-inch rainfalls were measured also at scattered places near the Tennessee-North Carolina border (fig. 19). The only mainland rainfall attributable to Agnes up to this time occurred in extreme southern Florida, where 24-hour amounts were less than an inch.

The rains associated with the frontal system continued into the 18th. At 0700 EST of that date the dissipating stationary front extended across southeastern Virginia, the western Carolinas, and the extreme northern parts of Georgia and Alabama (fig. 4). The rainfall for the 24-hour period ending at that time extended southwestward from southern New Jersey to the southern Appalachian Mountain region (figs. 20 and 21), with maximum amounts being generally less than 1½ inches.

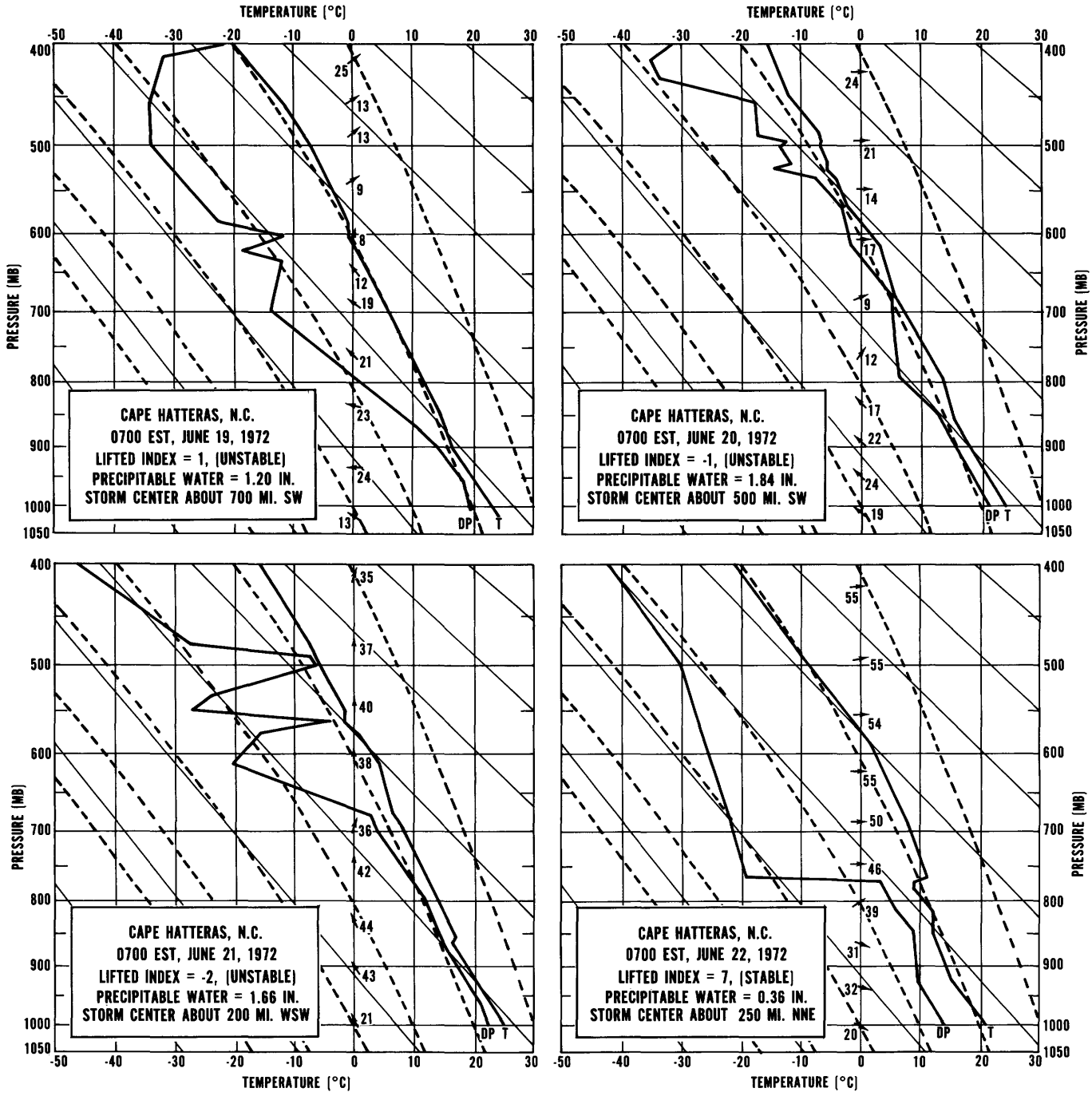


FIGURE 12.—Upper-air soundings at Cape Hatteras, N.C., June 19–22, 1972. Arrows and numbers show wind direction and speed in knots at various heights. (T = temperature; DP = dew point; precipitable water evaluated for layer from surface to 500 mb.)

The first heavy rainfall on the mainland produced directly by Agnes occurred on June 17–18. By 0700 EST, June 18, rain of up to about 4 inches had fallen during the preceding 24 hours over Florida south of a line between St. Petersburg and Vero Beach (fig. 21). During this day, the Agnes cloud shield advanced so as to cover most of Florida (fig. 4).

By 0700 EST, June 19, the front had passed almost completely out to sea, except for the tail end, which dragged across New Jersey into eastern Pennsylvania (fig. 5). Precipitable water and at-

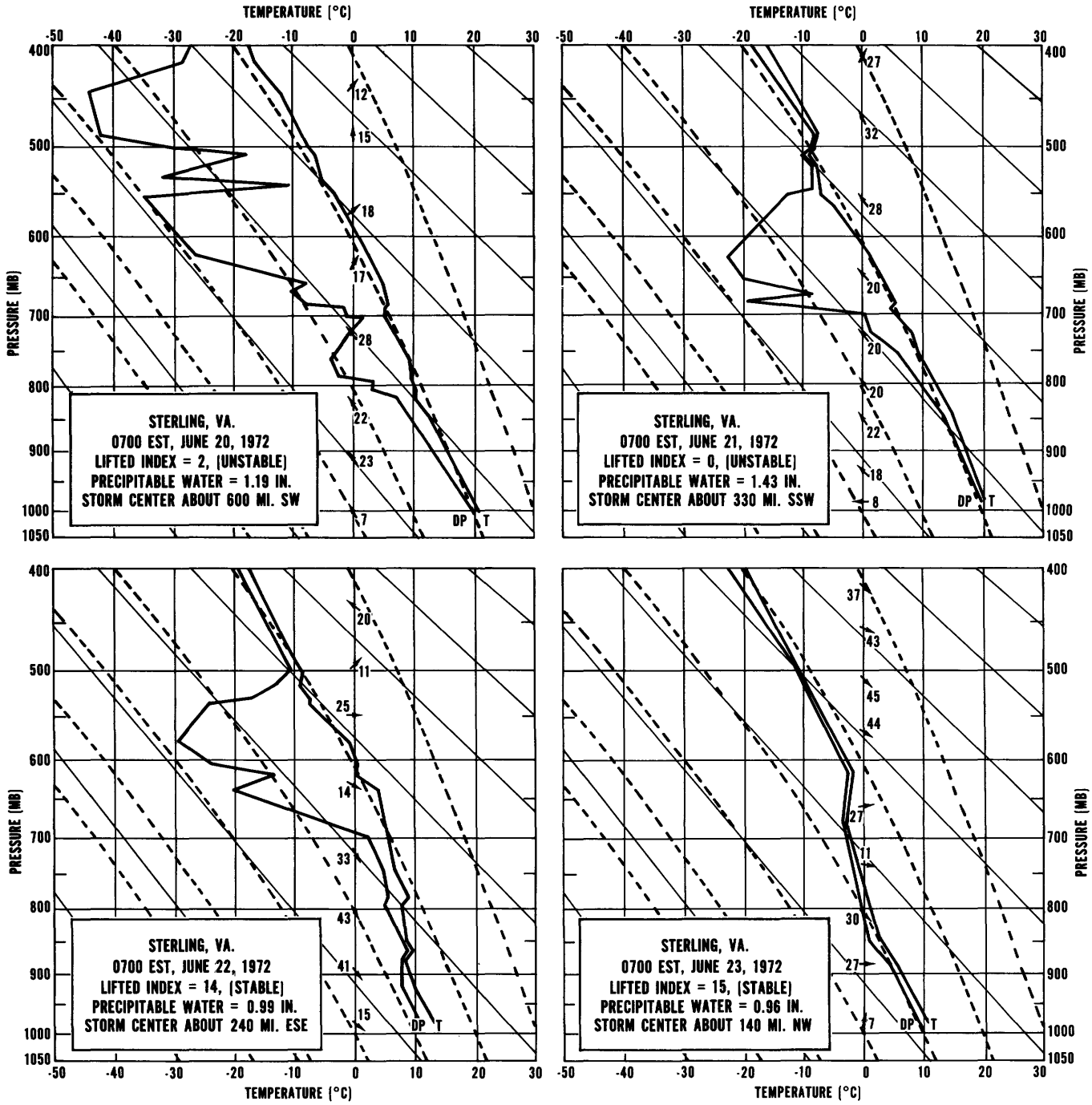


FIGURE 13.—Upper-air soundings at Sterling, Va. (near Washington, D.C.), June 20–23, 1972. Arrows and numbers show wind direction and speed in knots at various heights. (T = temperature; DP = dew point; precipitable water evaluated for layer from surface to 500 mb.)

mospheric instability had increased generally over the Eastern United States during the preceding 24 hours. The heavy rainfall associated with this system stretched from Cape Cod, Mass., to northern New Jersey, then in a more southerly direction to southern Virginia. Twenty-four-hour rainfall amounts exceeding 4 inches were measured in southwestern Connecticut and southern Virginia (fig. 22).

Almost all this rainfall occurred during the evening of the 18th and the morning hours of the 19th and resulted from renewed activity in the frontal system. The overland part of the original front had dissipated, and a new front had formed along a

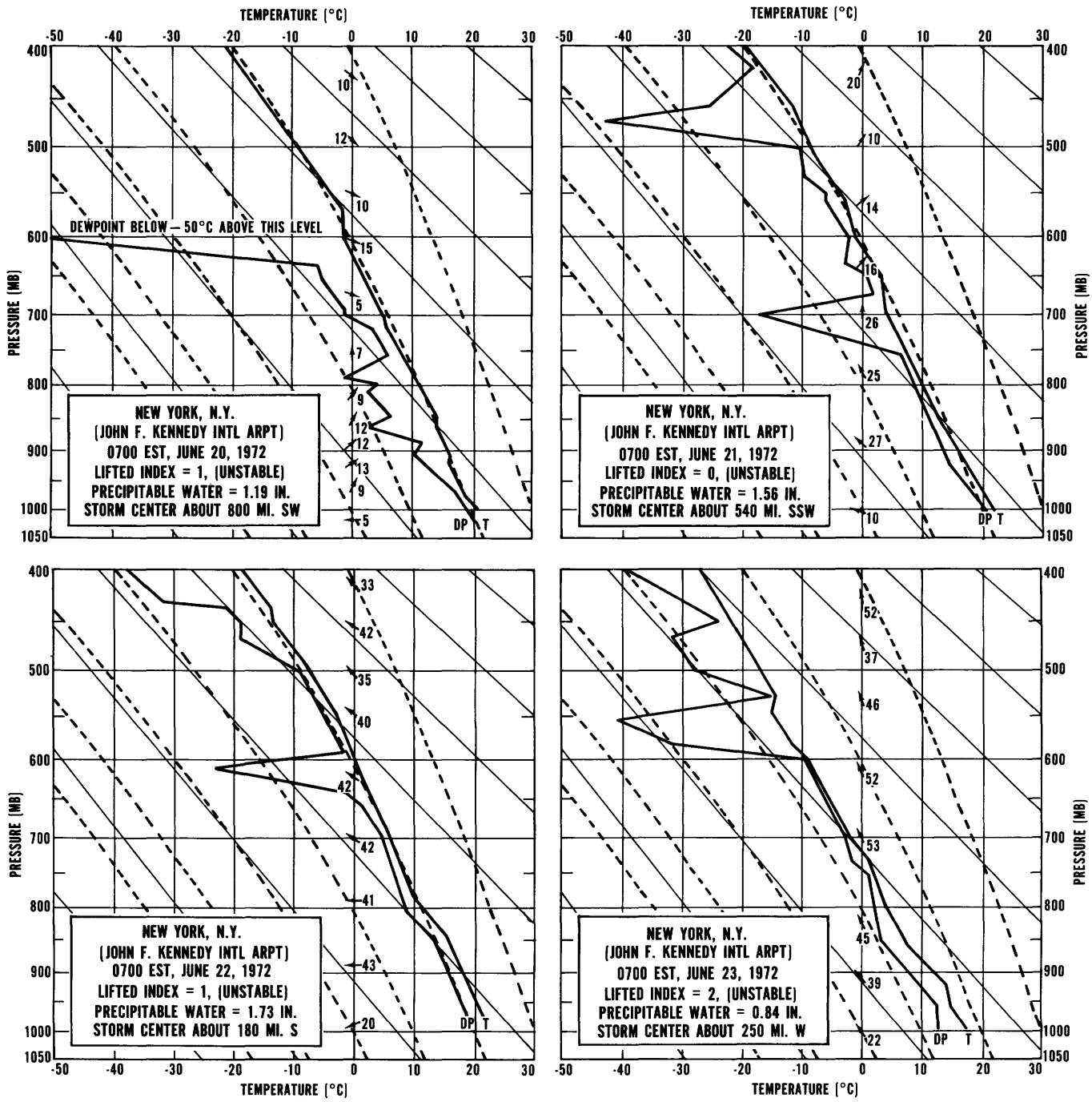


FIGURE 14.—Upper-air soundings at New York, N.Y., June 20–23, 1972. Arrows and numbers show wind direction and speed in knots at various heights. (T = temperature; DP = dew point; precipitable water evaluated for layer from surface to 500 mb.)

squall line behind and parallel to the old one. This squall line is not shown in figure 4, but, at that time, it extended from Connecticut southwestward to extreme southeastern Kentucky. The new front had a short life, and only a remnant shows up on the surface map of figure 5.

By 0700 EST on the 19th, rainfall directly attributable to Agnes, which was still in the Gulf of Mexico (fig. 5), had spread northward into southern Georgia and southeastern Alabama. Rainfall amounts for the preceding 24-hour period ranged up to about 7 inches in the Florida Peninsula (fig. 23).

Rainfall in extreme southern New England and

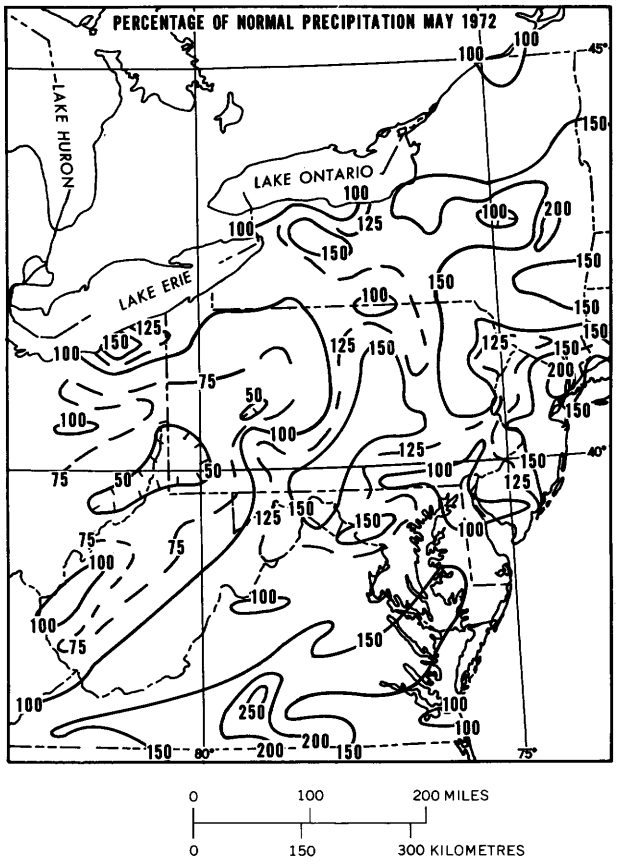


FIGURE 15.—Precipitation for May 1972 in percent of normal.

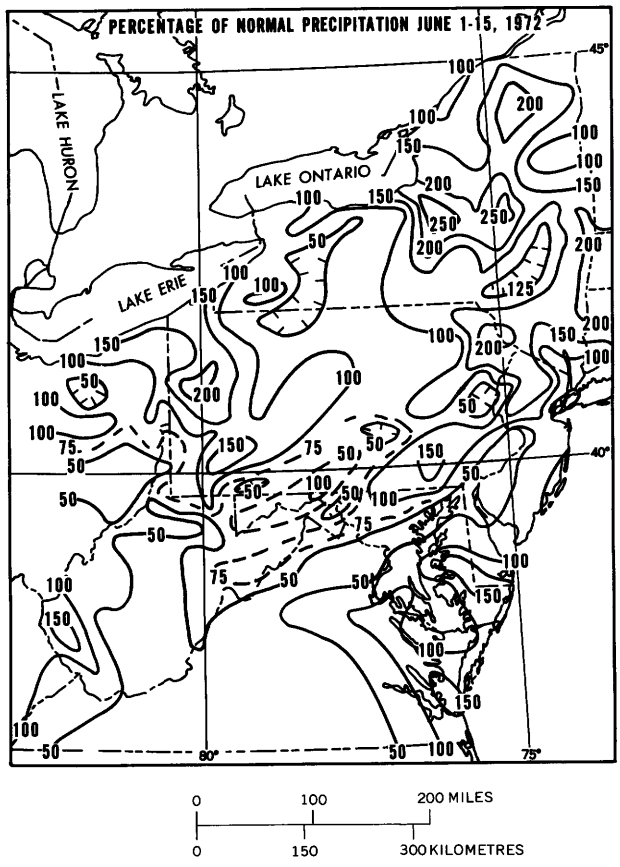


FIGURE 16.—Precipitation for June 1–15. 1972, in percent of normal.

southeastern Pennsylvania continued, with breaks, into the 20th. At 0700 EST on that date, 24-hour amounts up to about 2 inches were measured on Cape Cod, Mass., and Long Island, N.Y. (fig. 24). At this time, Agnes was centered in Georgia (fig. 6) and was producing rainfall as far north as southwestern Virginia and southeastern Kentucky (fig. 24). Rainfall was heaviest along the eastern slopes of the Appalachians in these two States and in Georgia and southeastern Alabama, with 24-hour amounts up to about 6 inches in these two States (fig. 25). Except for light instability showers, rain had generally ceased over all of Florida by 0700 EST on the 20th.

The 700-millibar chart for 0700 EST, June 20 (fig. 6), showed a deep Low over the Hudson Bay region, with a trough extending southwestward across the western Great Lakes into Illinois, with a secondary Low over Lake Superior. The high pressure ridge that had extended between this low-pressure system and Agnes on preceding days (figs. 3–5) had disintegrated by this time, and the northern low-pressure system and the tropical storm now lay in a common, though still somewhat discontinuous, pressure trough. The surface front associated with the Canadian Low and trough extended from Canada, across eastern Wisconsin, and into central Missouri (fig. 6).

The Canadian trough continued to move eastward on the 20th, producing heavy rains over the Allegheny River basin and along the main stem of the Ohio River down to its confluence with the Kanawha River. At 0700 EST on the 21st, with Agnes centered over North Carolina, the secondary Low in the Canadian 700-mb trough was located over Michigan (fig. 7). The isohyetal chart for that same time (fig. 26) shows the extent of the 24-hour rainfall associated with this system, the greatest amount being about 8 inches on the central Pennsylvania-New York border. This rainfall is considered to be attributable to the Canadian pressure trough and associated surface-weather system because of (1) the elongated area of light rainfall between it and the heavy-rainfall area extending into south-central Pennsylvania from Agnes in North Carolina, (2) its location west of the Allgheny Mountains, and

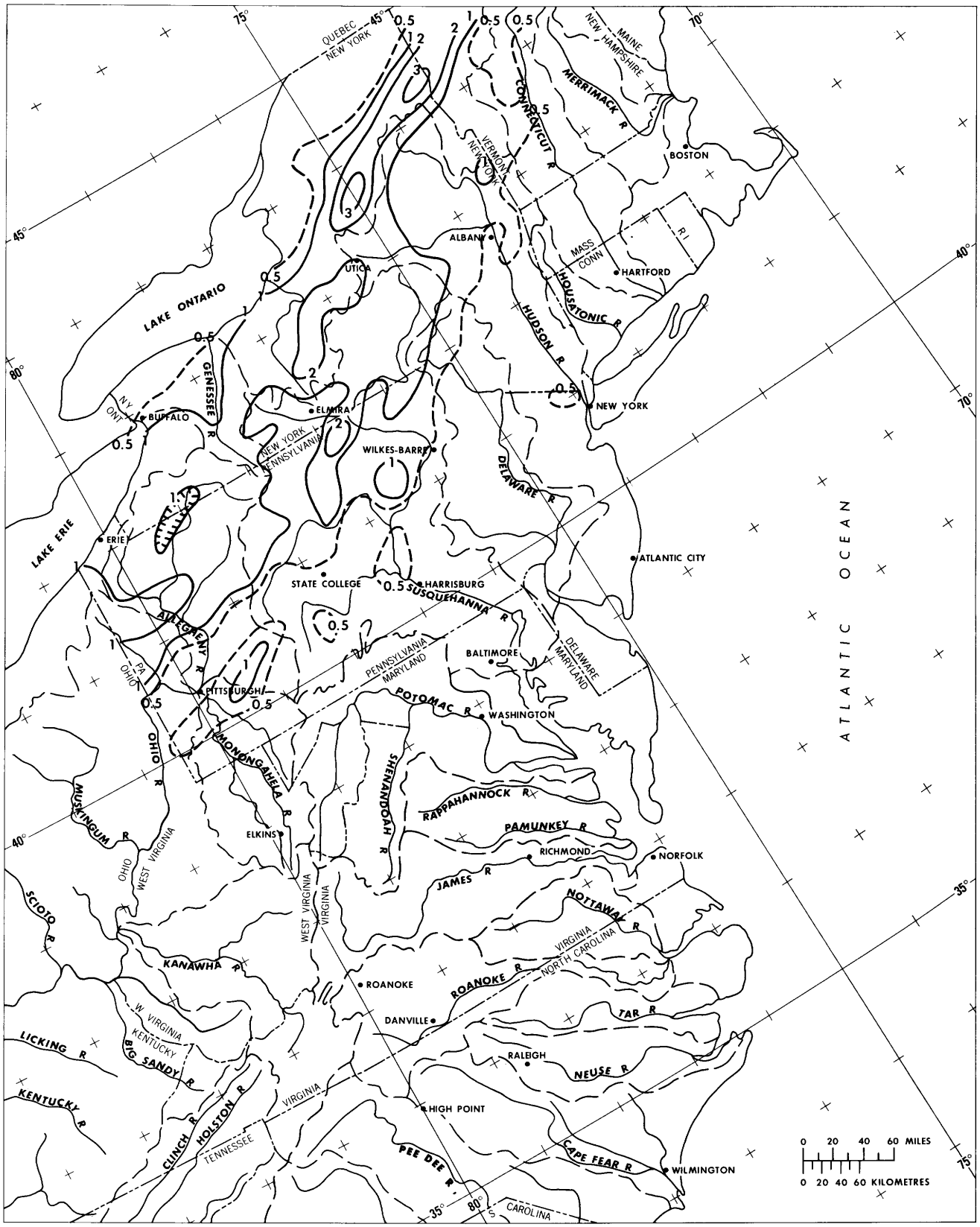


FIGURE 17.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 16, 1972.

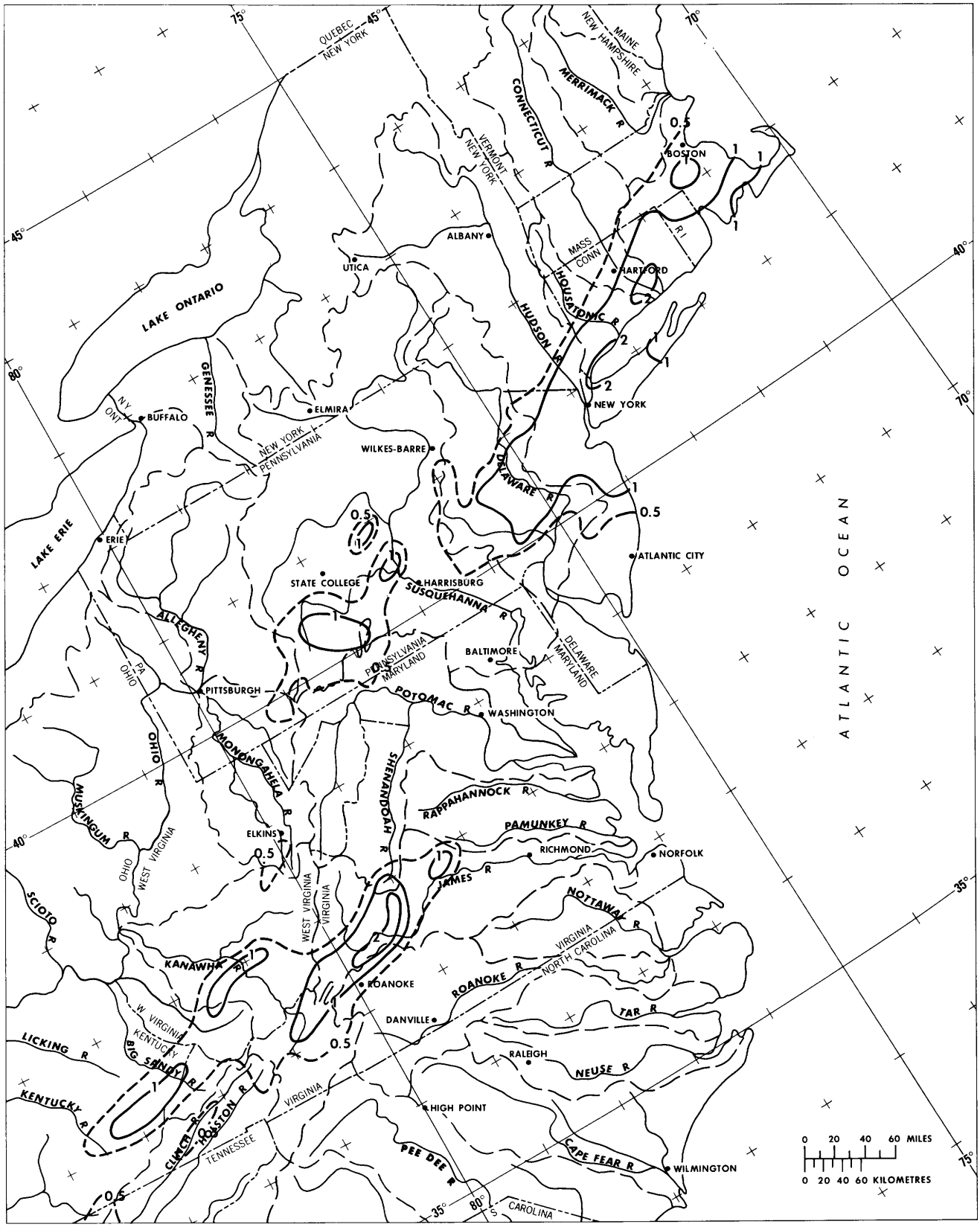


FIGURE 18.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 17, 1972.

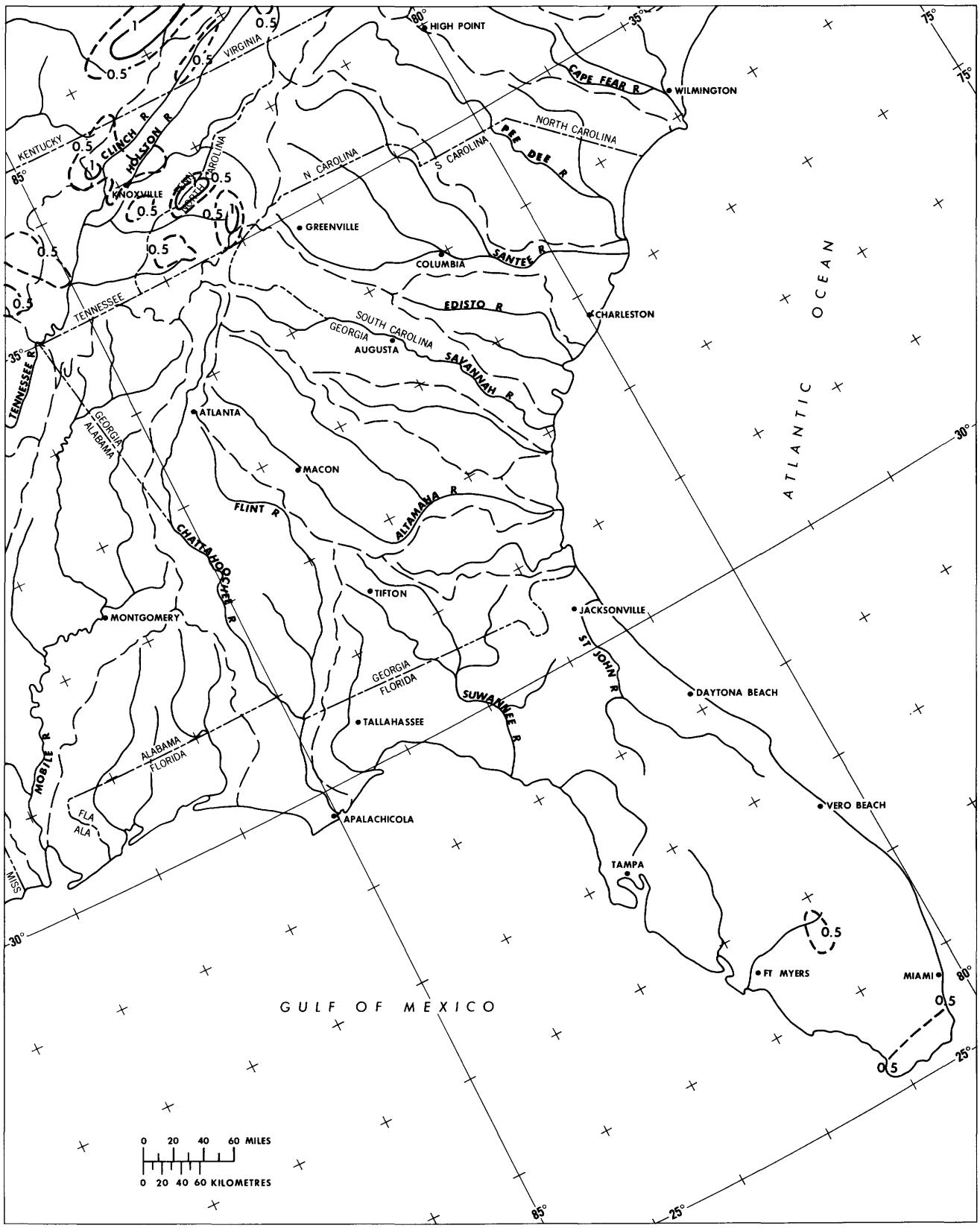


FIGURE 19.—Rainfall, in inches, over southern section for 24-hour period ending 0700 EST, June 17, 1972.

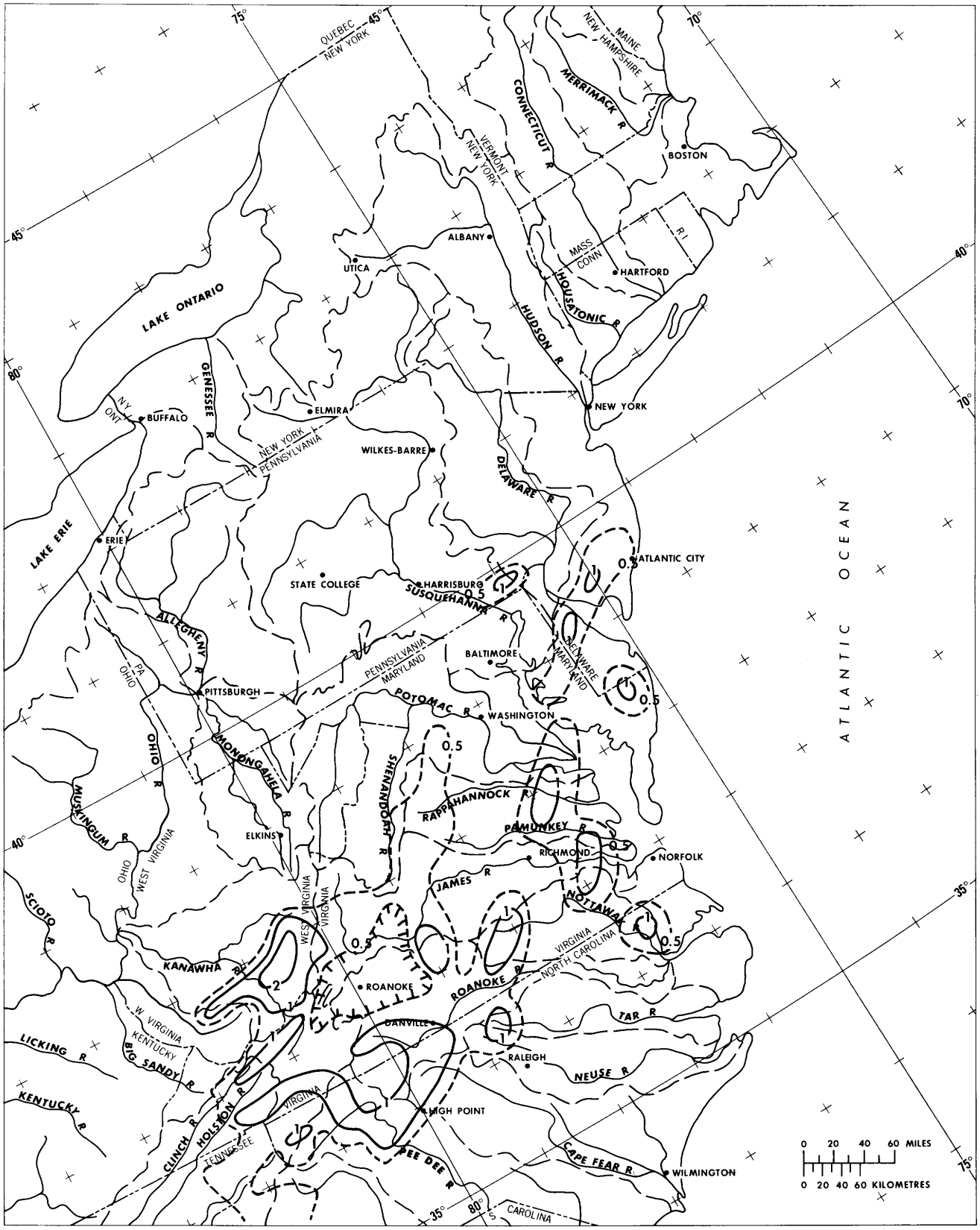


FIGURE 20.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 18, 1972.

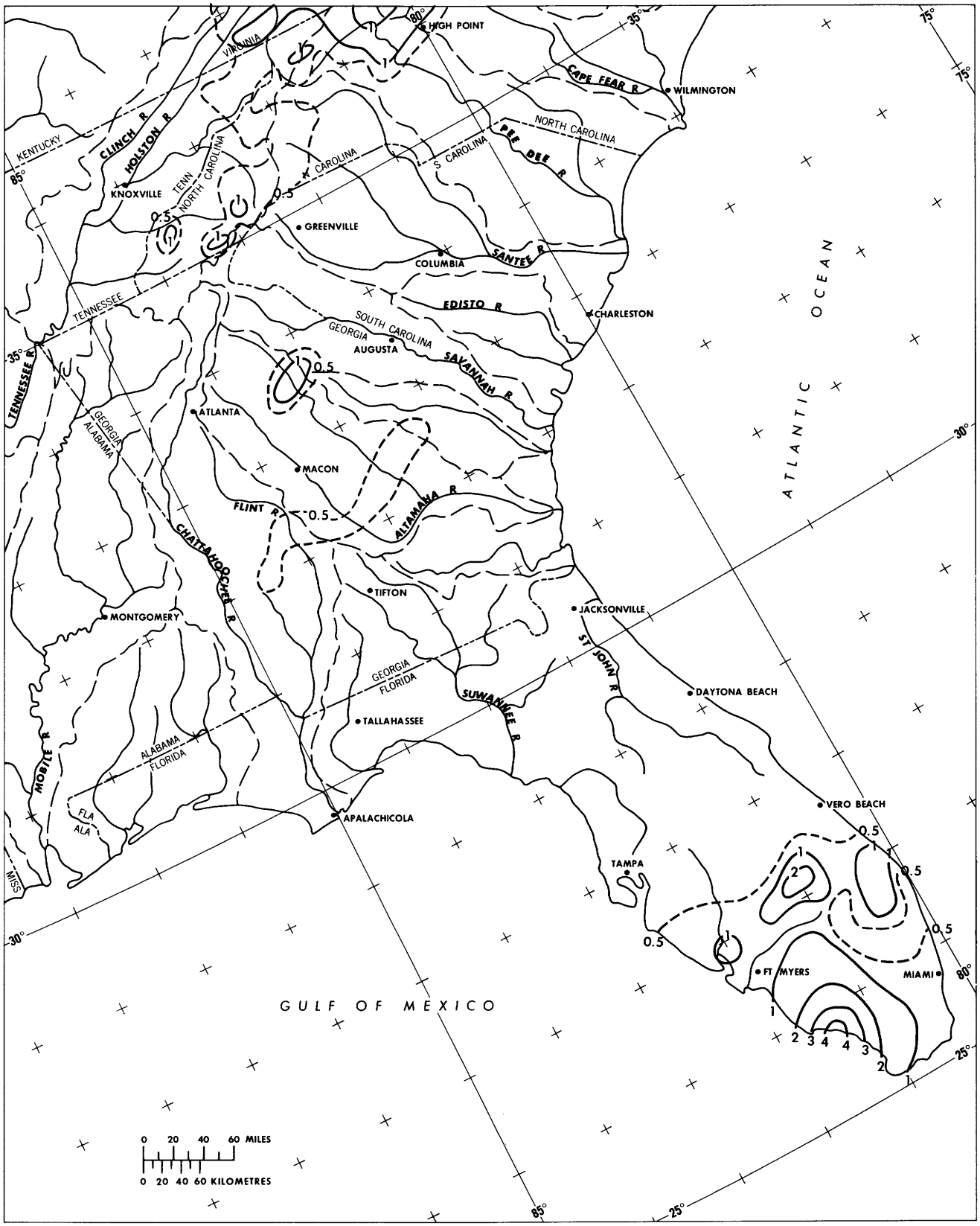


FIGURE 21.—Rainfall, in inches, over southern section for 24-hour period ending 0700 EST, June 18, 1972.

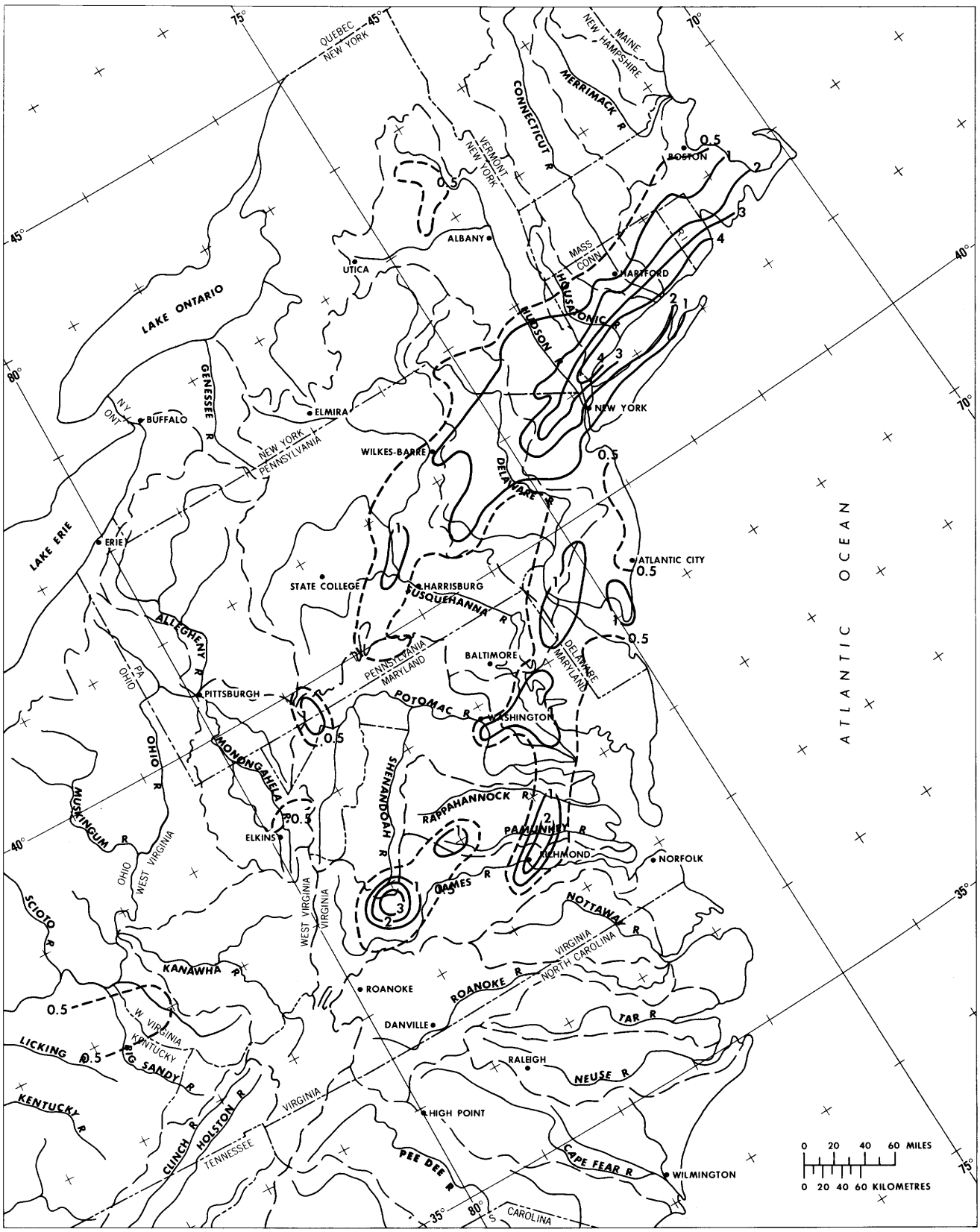


FIGURE 22.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 19, 1972.

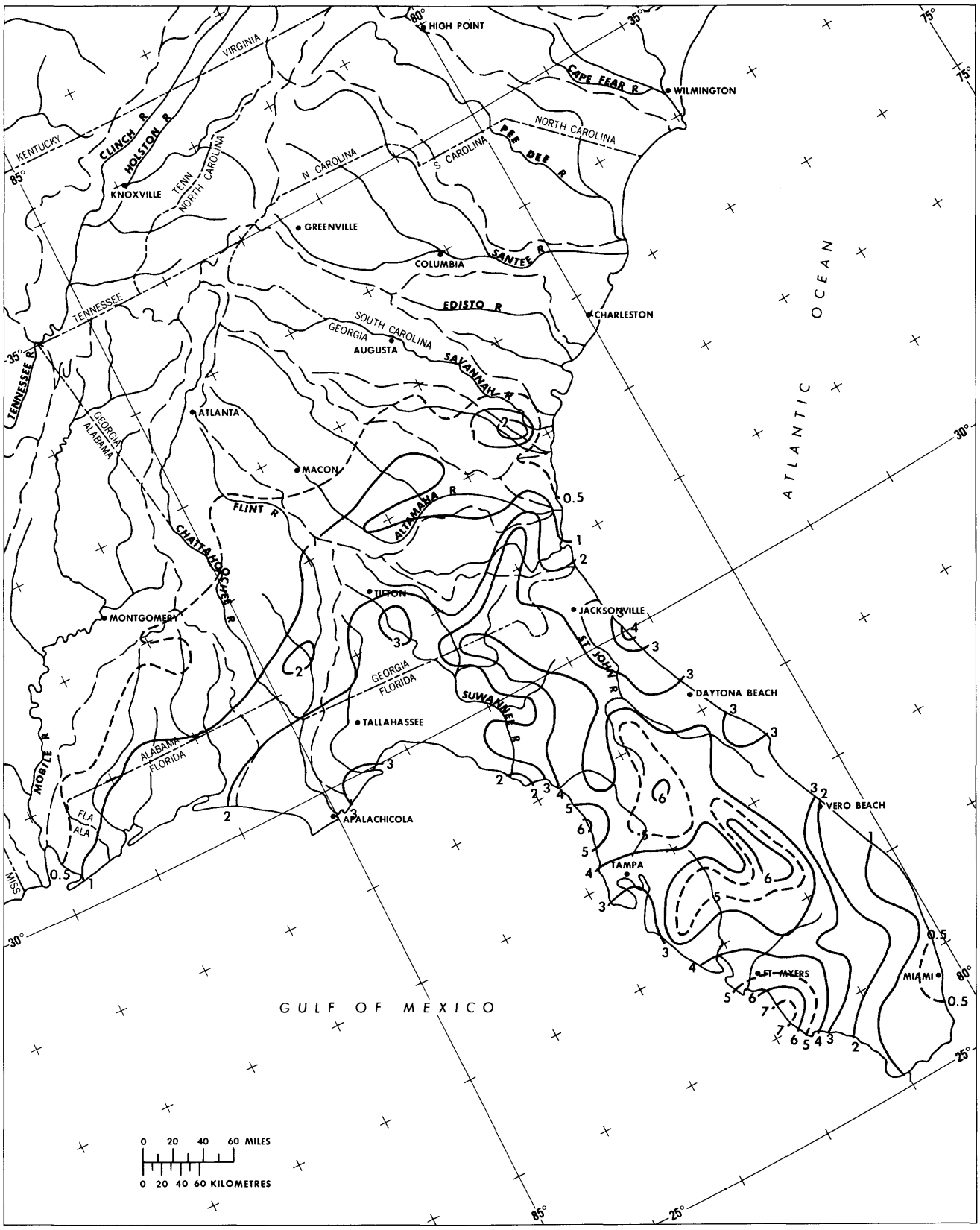


FIGURE 23.—Rainfall, in inches, over southern section for 24-hour period ending 0700 EST, June 19, 1972.

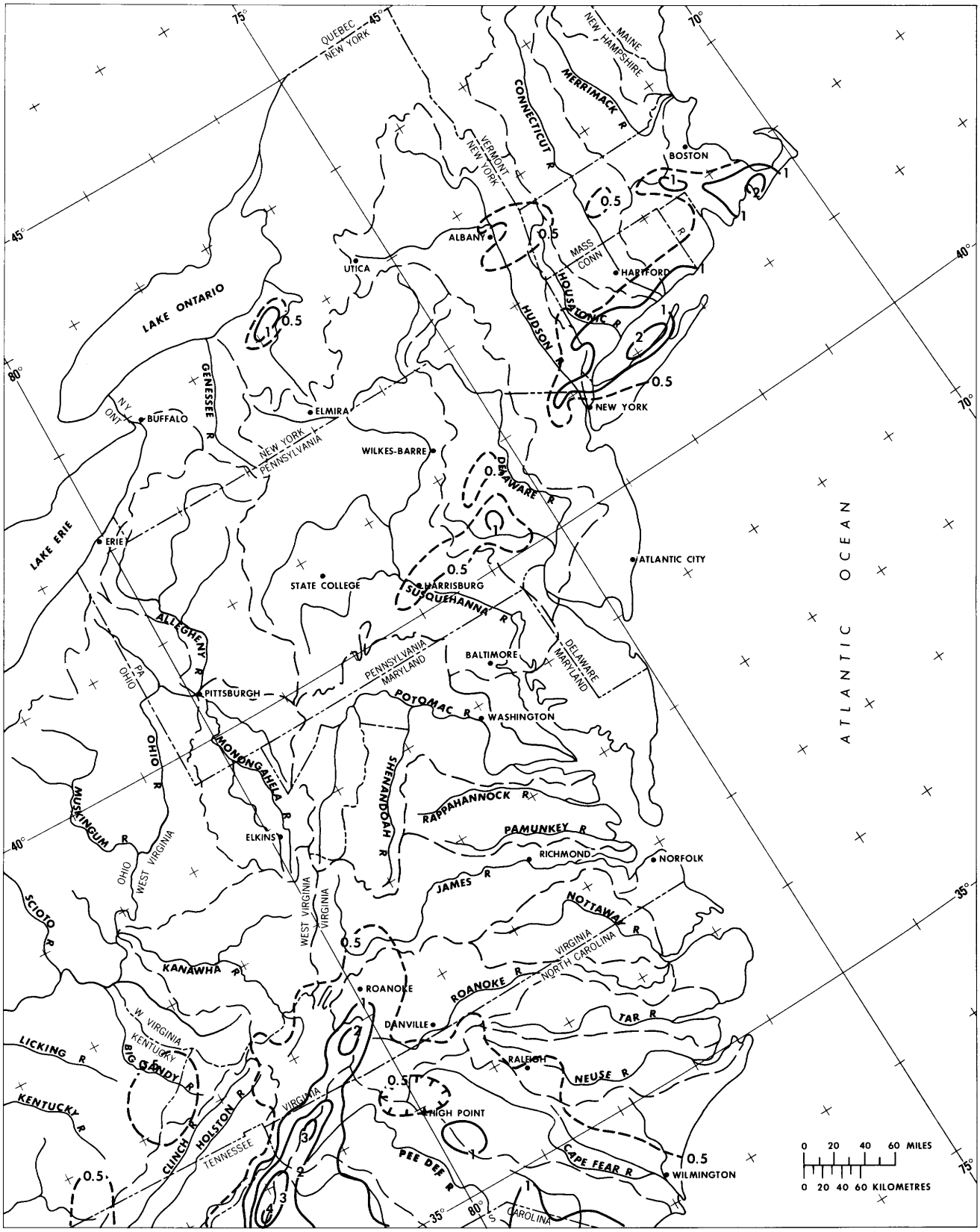


FIGURE 24.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 20, 1972.

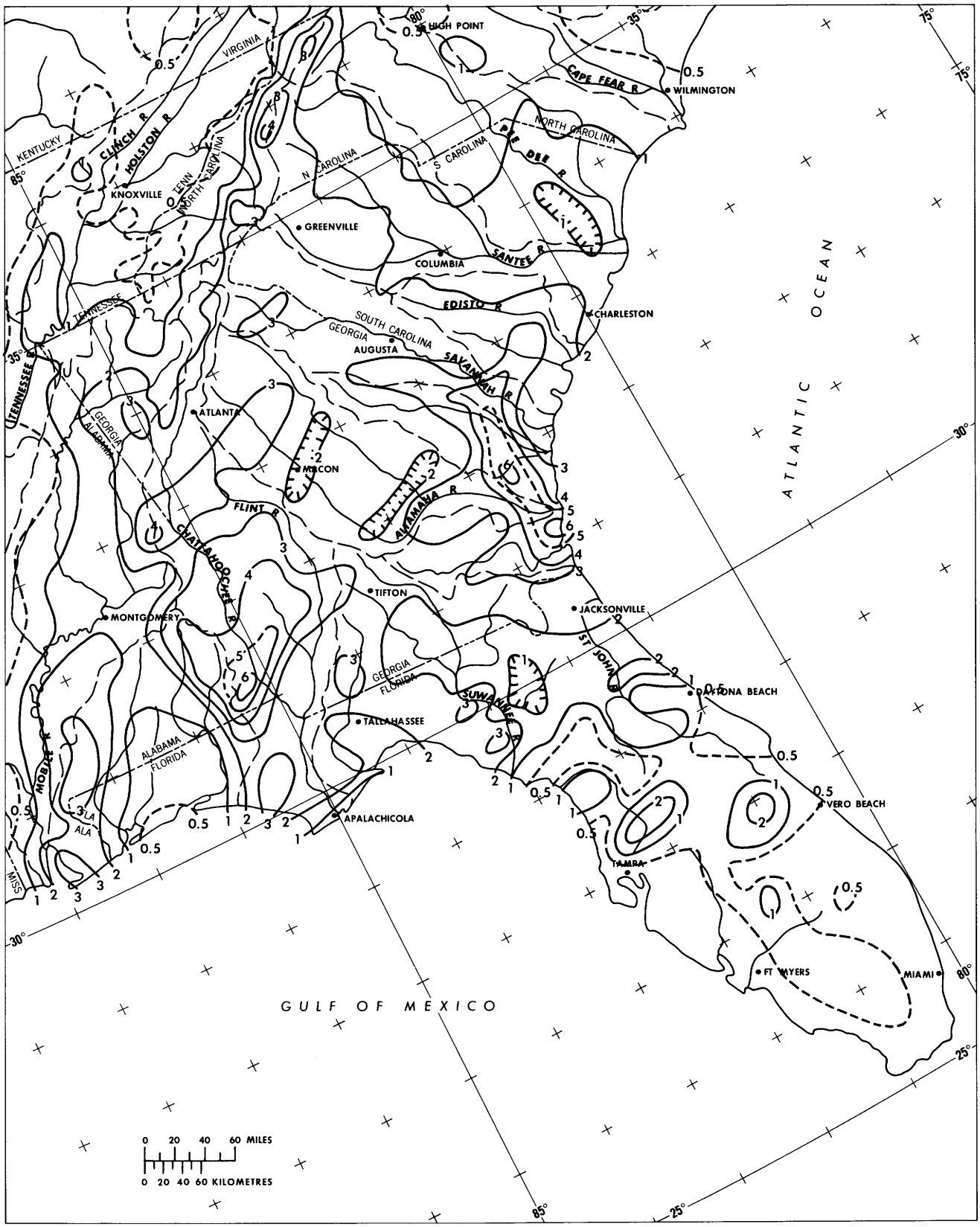


FIGURE 25.—Rainfall, in inches, over southern section for 24-hour period ending 0700 EST, June 20, 1972.

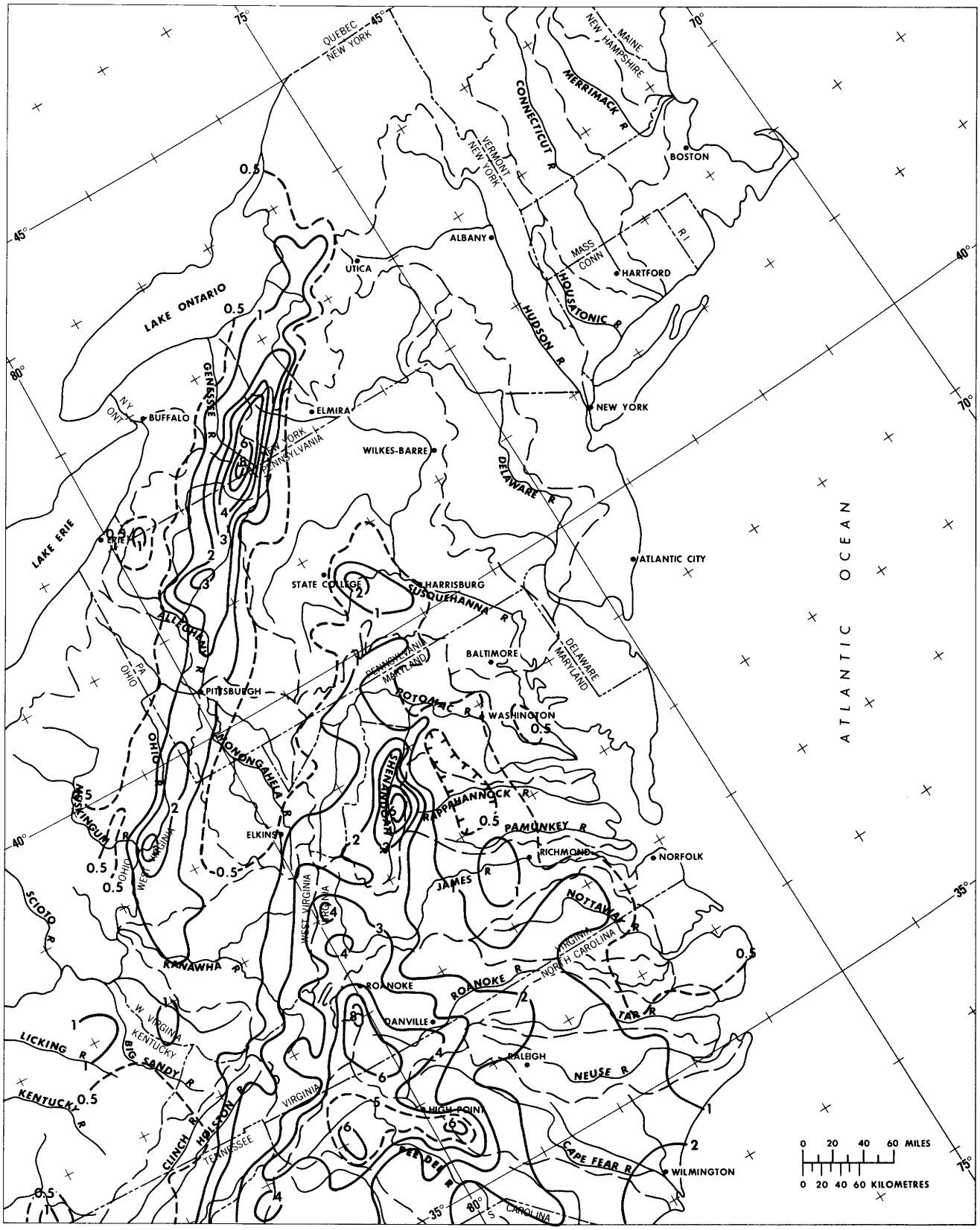


FIGURE 26.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 21, 1972.

(3) the prevailing southwesterly winds at Buffalo and Pittsburgh during this period of rainfall. Agnes, however, may have been an important factor contributing to the unusual intensities associated with the Canadian system because of the circulation bringing into that system more moisture (figs. 7, 13, and 14) than might have been realized without the tropical storm. The satellite photograph of figure 7 appears to lend support to this view. It should be kept in mind, however, that the photographs are composites from several orbits during the daylight hours. The cloudiness conditions shown for the 21st in figure 7 are somewhat different from those that prevailed during the heavy rainfall that occurred during the night of the 20th to the 21st.

Figure 26 shows that Agnes rainfall was also heavy during the 24-hour period ending at 0700 EST on the 21st. Amounts exceeding 6 inches were observed in northern and southwestern Virginia and in western North Carolina. Other heavy amounts were measured in South Carolina (fig. 27), although, except for scattered instability showers, it had already stopped raining there and in the other Southeastern States.

The greatest rainfall intensities associated with Agness occurred on the 21st and 22nd, while she was moving from southeastern North Carolina to a point some 140 miles east of the Maryland coast (figs. 1 and 8), where she reached the lowest central pressure of her entire life—977 mb. The isohyetal chart for 0700 EST, June 22 (fig. 28), shows 24-hour rainfall centers exceeding 10 inches in southeastern Pennsylvania, Maryland, and northern Virginia, with some amounts exceeding 12 inches. True 24-hour maximum amounts exceeded many of the values shown on this isohyetal chart, however, because the heaviest intensities generally extended into two observational periods. The mass rainfall curves of figures 32 and 33 show the extraordinary intensities observed at selected recording-gage stations, with maximum amounts for 6, 12, 24, and 48 hours being indicated on the charts. The greatest 24-hour amount measured was the 14.8 inches in southeastern Pennsylvania at Gage RR44 in the Mahantango Creek basin (fig. 33), which is located approximately in the farthest north 10-inch center shown in figure 28. The 24-hour amount of 14.8 inches is over twice the 100-year value indicated for that location (table 3).

Maximum 6-, 12-, 24-, and 48-hour rainfall amounts are summarized in table 3 for some stations recording 24-hour amounts of 10 or more inches during the period June 21–22, when the greatest intensities were experienced. For comparative purposes, the table also includes generalized point rainfall values for the 100-year return period, as read from rainfall frequency atlases (Hershfield, 1963 and Miller, 1964). Comparison of the observed amounts with the 100-year values indicates that, for the listed stations, the 6-hour amounts ranged from 97 to 128 percent of the 100-year values; the 12-hour amounts, from 125 to 192 percent; the 24-hour amounts, from 132 to 228 percent; and the 48-hour amounts, from 127 to 239 percent. Several other stations experienced 24-hour amounts equaling or exceeding 10 inches during June 21–22. These unusually heavy rainfalls may be attributed to high precipitable-water amounts and atmospheric instability, together with the approach of Agnes on the morning of the 21st (figs. 7 and 13), as rainfall tends to be heaviest in the forward part of a tropical storm. During the following 24 hours, precipitable water decreased and the atmosphere became stable (figs. 8 and 13).

By 0700 EST, June 22, it had stopped raining over the Southeastern United States south of lat 38° N., except for scattered light showers. To the north, however, rain continued into the 23rd as a result of Agnes having reentered the coast near New York City and moved into Pennsylvania (fig. 1), where she was absorbed into the extratropical Low. This resulted in a greatly deepened 700-millibar Low centered over wester Pennsylvania, which, by 0700 EST, June 23, had brought in much drier and more stable air into the flood-plagued area (figs. 9 and 13). Rainfall, however, continued to be heavy during the transition period, 0700 EST, June 22, to 0700 EST, June 23, and 24-hour amounts of 4 inches or more were experienced in southern New York, Pennsylvania, southern New Jersey, northern Delaware, and northern Maryland (fig. 29).

By 0700 EST, June 24, the low-pressure system had filled considerably (fig. 10), and drier and more stable air covered the flood area, but some instability was still evident in the vicinity of New York City (fig. 14). One- to 2-inch 24-hour rainfalls were measured in West Virginia, southwestern and northeastern Pennsylvania, New York, and southern New England, where amounts exceeded 2 inches in western Massachusetts and northwestern Connecticut (fig. 30).

The low-pressure system shown in figure 10 moved very little during the 24 hours after the morning of the 24th, but it did fill somewhat. The largest 24-hour rainfall amounts during this period occurred in southwestern and southeastern Pennsylvania, and these did not exceed 1.5 inches (fig. 31).

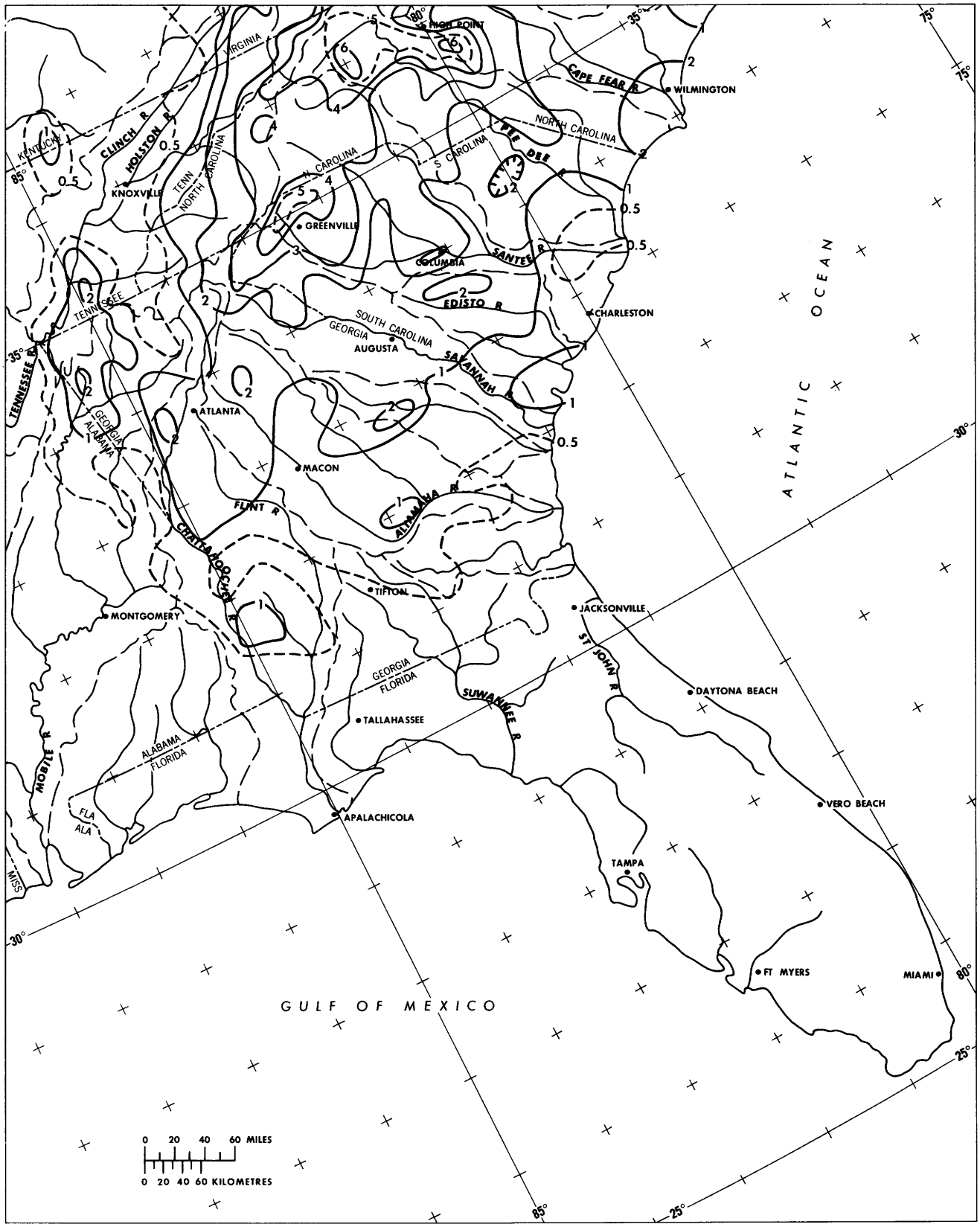


FIGURE 27.—Rainfall, in inches, over southern section for 24-hour period ending 0700 EST, June 21, 1972.

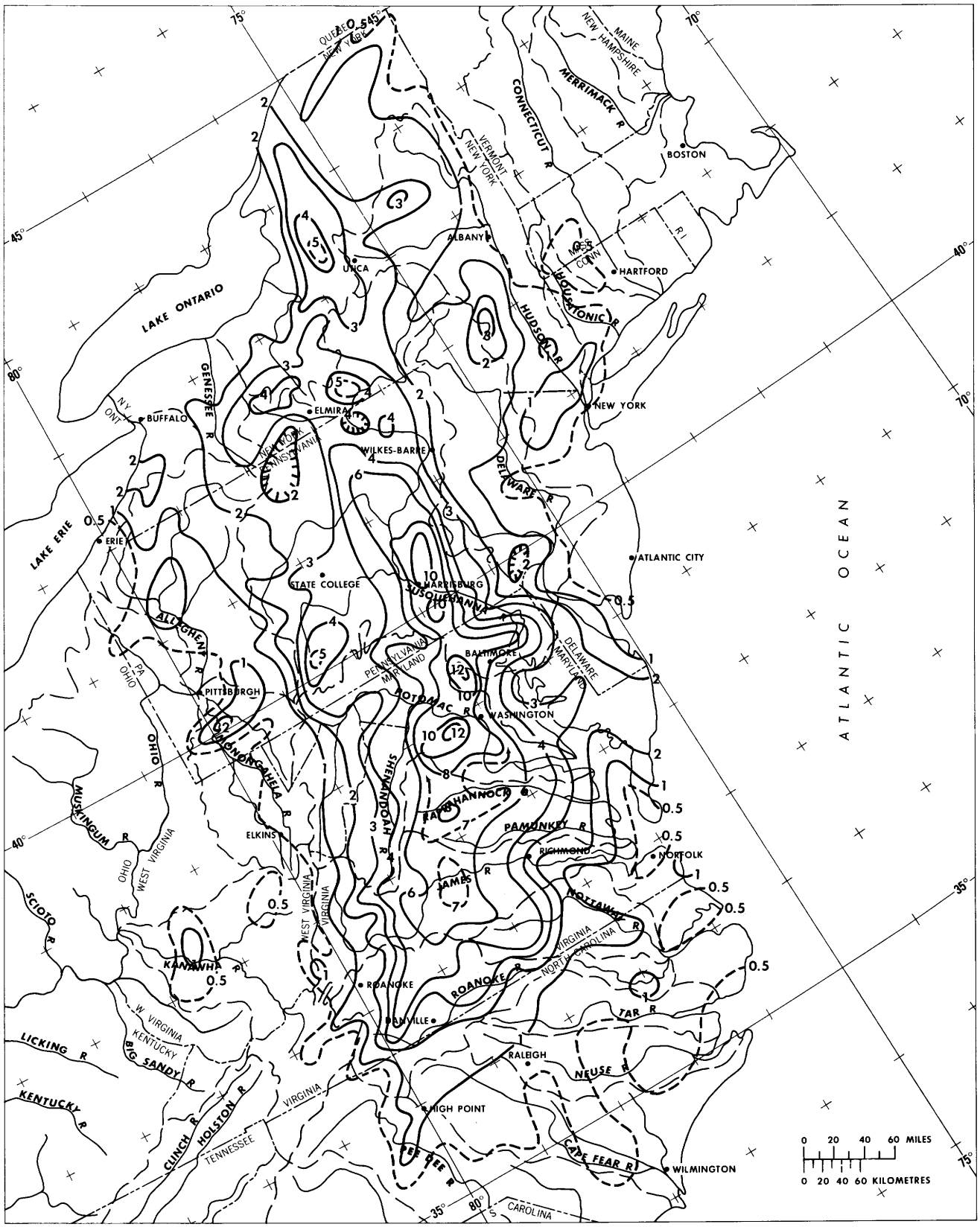


FIGURE 28.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 22, 1972.

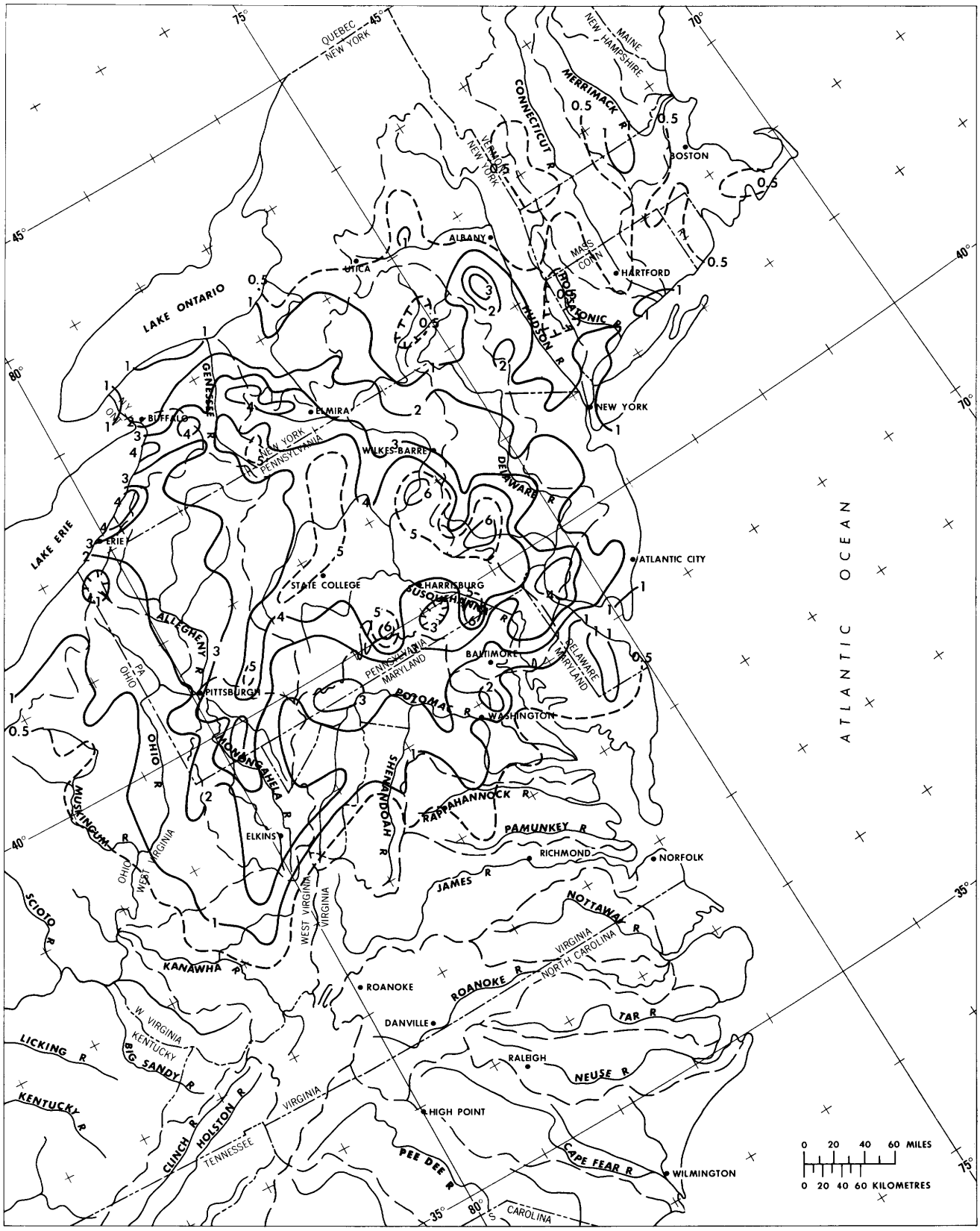


FIGURE 29.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 23, 1972.

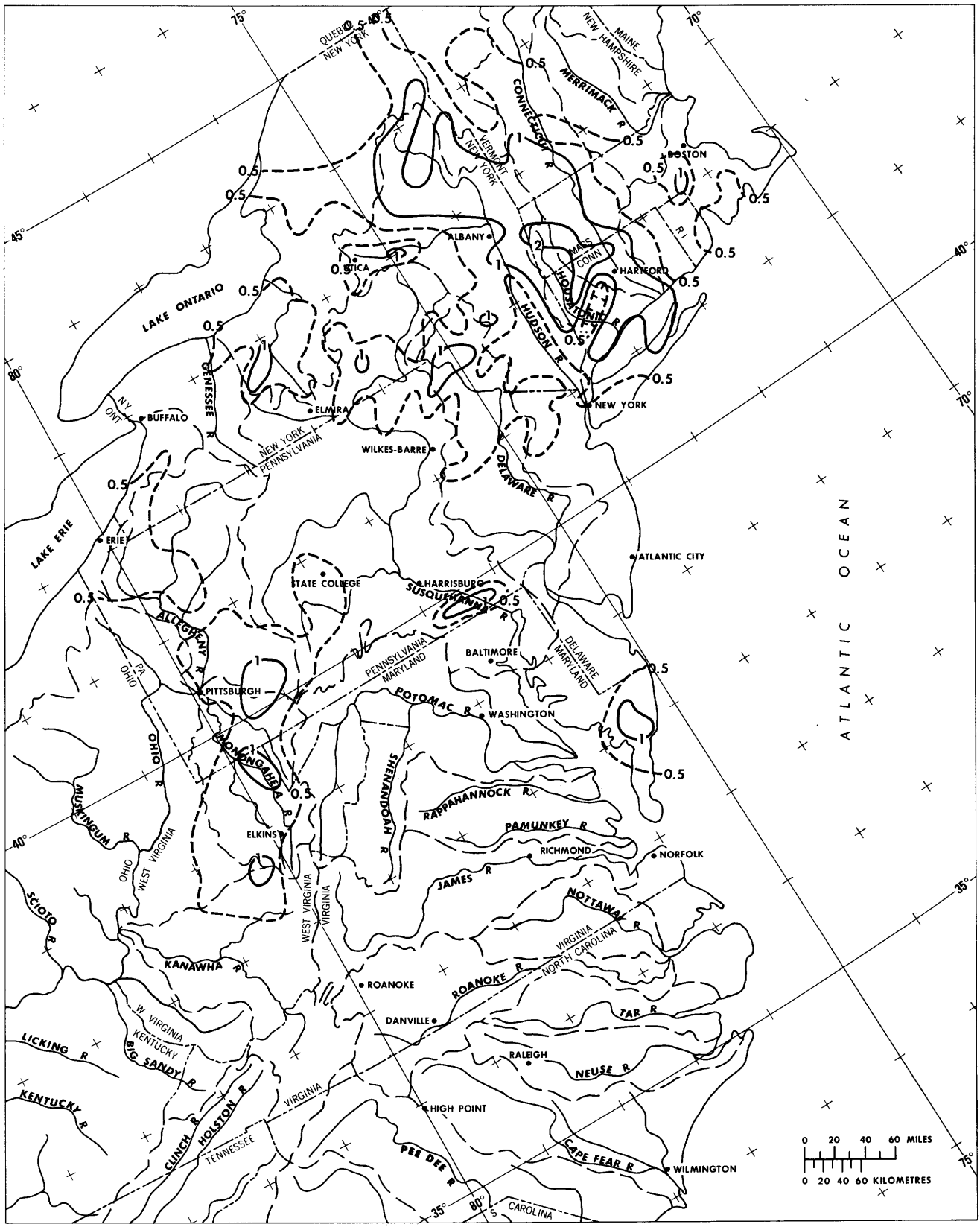
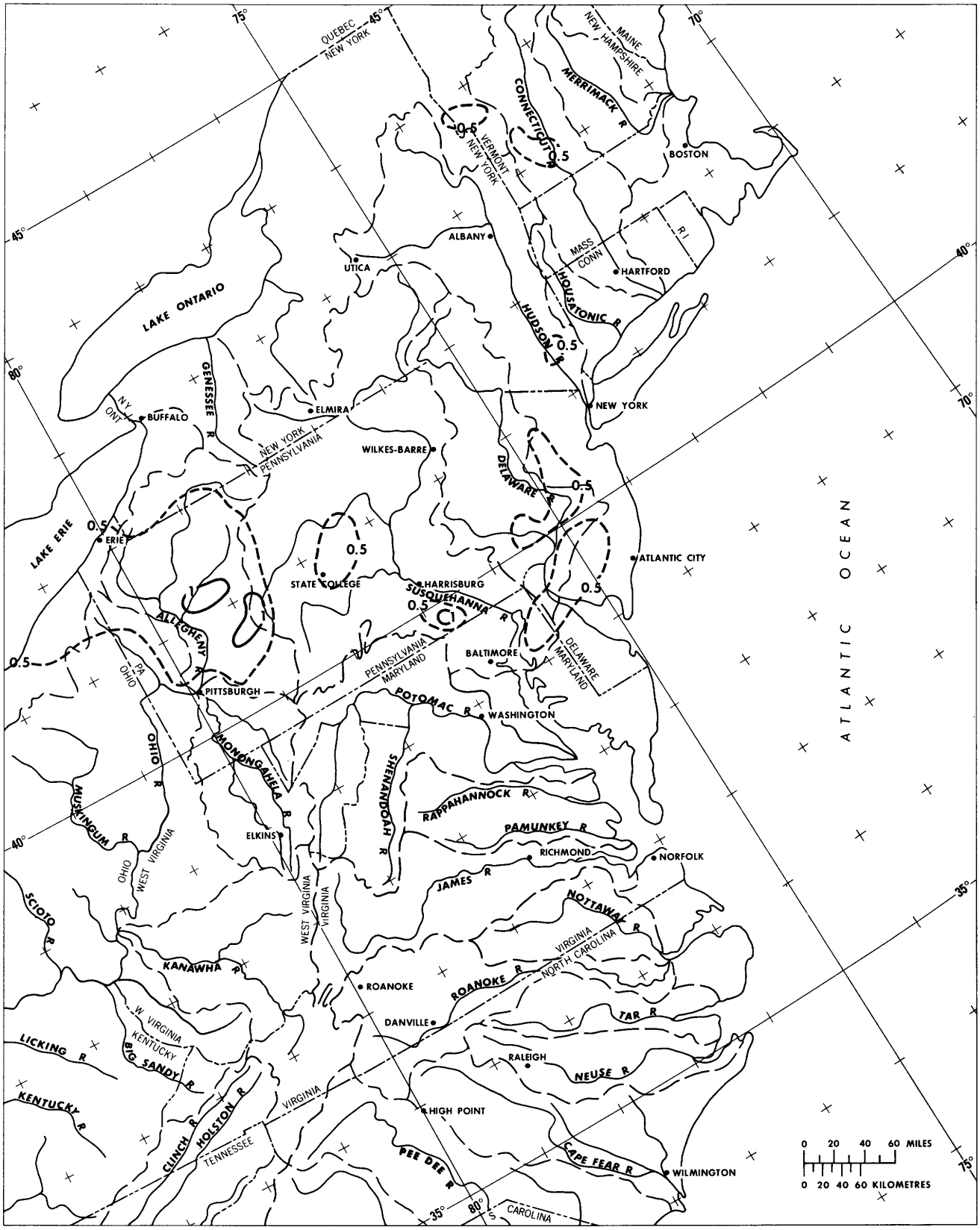


FIGURE 30.—Rainfall, in inches, over northern section for 24-hour period ending 0700 EST, June 24, 1972.


QUEBEC
NEW YORK
NEW HAMPSHIRE
MAINE
MERRIMACK R
CONNECTICUT R
VERMONT
NEW YORK
BOSTON
ALBANY
UTICA
MASS
CONN
R I
HARTFORD
HOUSATONIC R
HUDSON R
LAKE ONTARIO
GENESSEE R
NY
ONT
BUFFALO
ELMIRA
NEW YORK
NEW YORK
PENNSYLVANIA
WILKES-BARRE
DELAWARE R
LAKE ERIE
ERIE
STATE COLLEGE
HARRISBURG
SUSQUEHANNA R
ATLANTIC CITY
ATLANTIC OCEAN
ALLEGHENY R
PA
OHIO
PENNSYLVANIA
MARYLAND
BALTIMORE
DELAWARE
MARYLAND
PITTSBURGH
POTOMAC R
WASHINGTON
OHIO R
MONONGAHELA R
SHENANDOAH R
RAPPAHANNOCK R
PAMUNKEY R
MUSKINGUM R
OHIO
WEST VIRGINIA
ELKINS
RICHMOND
NORFOLK
JAMES R
NOTTAWAY R
SCIOTO R
WEST VIRGINIA
VIRGINIA
VIRGINIA
NORTH CAROLINA
KANAWHA R
ROANOKE
ROANOKE R
W VIRGINIA
KENTUCKY
TAR R
LICKING R
BIG SANDY R
DANVILLE
RALEIGH
NEUSE R
KENTUCKY R
HOLSTON R
CLINCH R
VIRGINIA
TENNESSEE
HIGH POINT
PEE DEE R
CAPE FEAR R
WILMINGTON
S CAROLINA
0 20 40 60 MILES
0 20 40 60 KILOMETRES
0.5
0.5
0.5

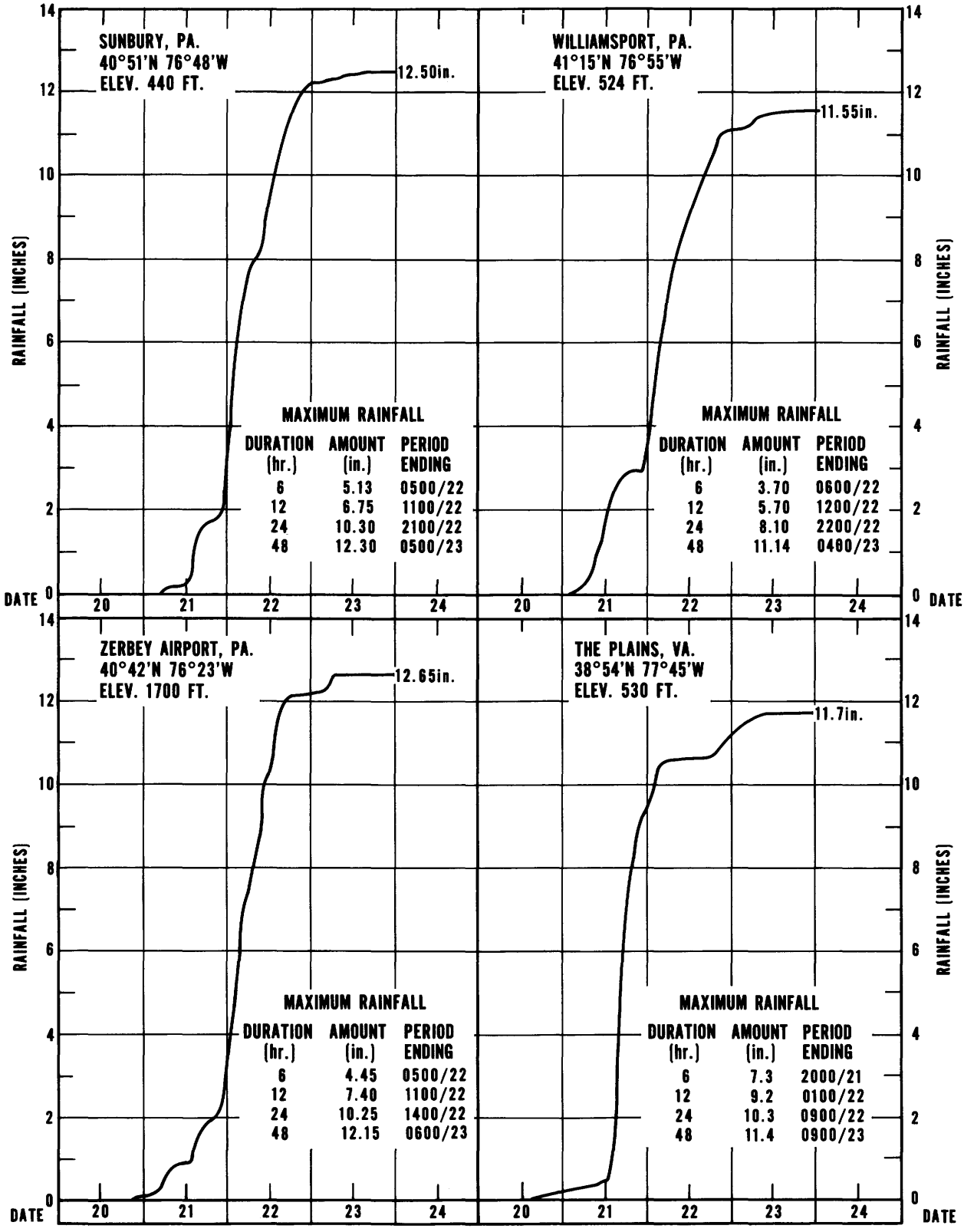


FIGURE 32.—Mass rainfall curves for three stations in Pennsylvania and one in Virginia for the period June 20–23, 1972.

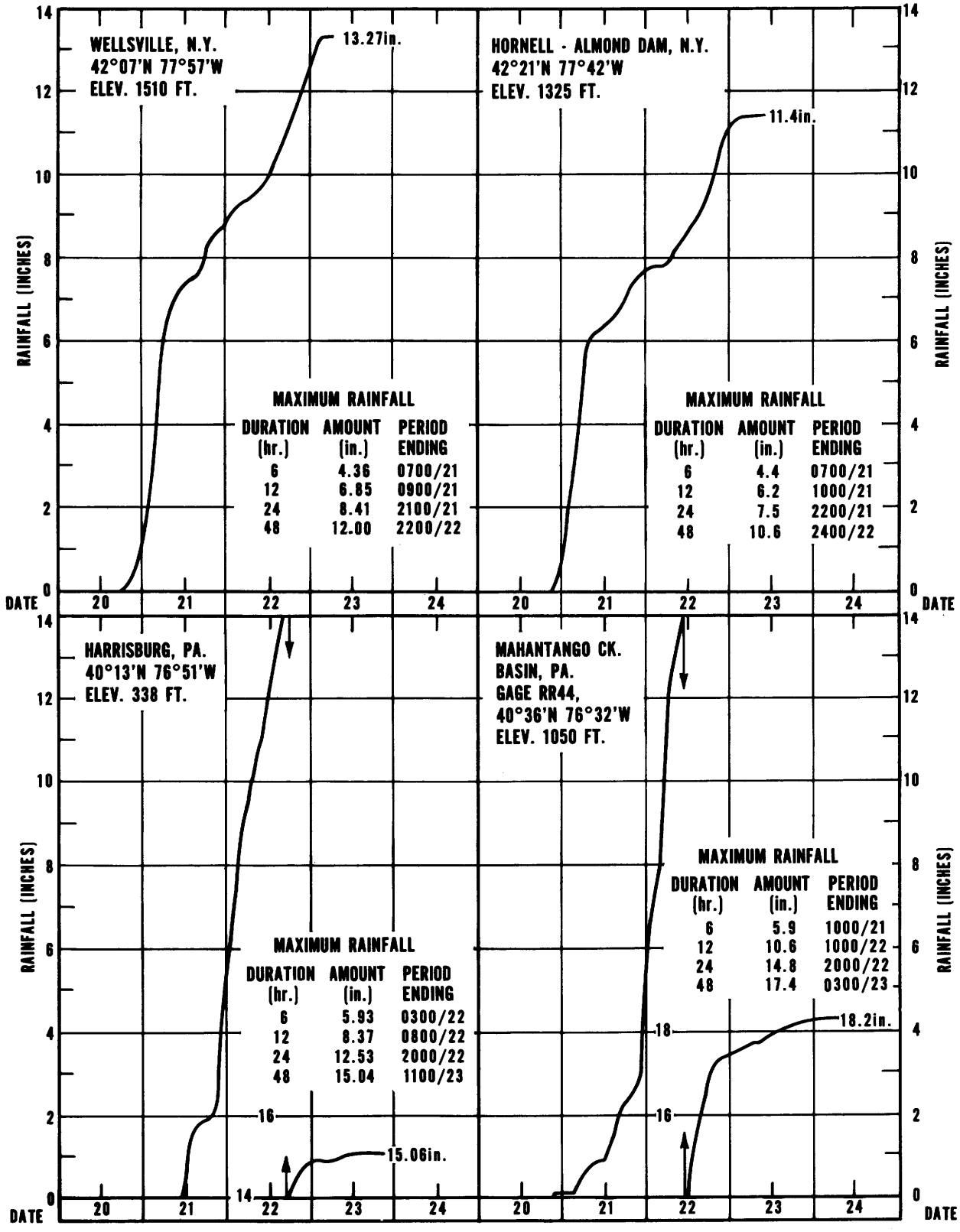


FIGURE 33.—Mass rainfall curves for two stations in New York and two in Pennsylvania for the period June 20–23, 1972.

TABLE 3.—*Maximum 6-, 12-, 24-, and 48-hour rainfall amounts for some stations recording 24-hour amounts of 10 or more inches during June 21–22, 1972* [1]

Station	Lat N.	Long W.	Elevation (in feet)	Maximum amount [2] (Duration in hours) 6	12	24	48
Maryland							
Aberdeen Phillips Field (NR)[3].	39°28′	76°10′	37	--	--	10.11(7.2)	10.81(8.5)
Parkton 2SW (R)	39°38′	76°42′	600	6.2 (5.1)	7.7 (6.0)	10.3 (7.1)	11.9 (8.2)
Pretty Boy Dam (NR)	39°37′	76°42′	520	--	--	12.25(7.1)	--
Wheaton Regional Park (NR).	39°04′	77°02′	330	--	--	10.00(7.4)	11.25(8.5)
Woodstock (NR)	39°20′	76°52′	460	--	--	11.47(7.3)	12.67(8.4)
Pennsylvania							
Harrisburg (R)	40°13′	76°51′	338	5.93(4.7)	8.37(5.6)	12.53(6.6)	15.04(7.4)
Mahantango Creek Basin, RR44 (R).	40°36′	76°32′	1050	5.9 (4.6)	10.6 (5.5)	14.8 (6.5)	17.4 (7.3)
Mahantango Creek Basin, RL45 (R).	40°39′	76°31′	680	5.5 (4.6)	9.5 (5.5)	13.6 (6.5)	16.0 (7.3)
Sunbury (R)	40°51′	76°48′	440	5.13(4.5)	6.75(5.4)	10.30(6.3)	12.30(6.9)
York 3SSW Pumping Station (NR).	39°55′	76°45′	390	--	--	13.50(6.8)	14.60(7.8)
Zerbey Airport (R)	40°42′	76°23′	1700	4.45(4.6)	7.40(5.6)	10.35(6.5)	12.15(7.3)
Virginia							
Dulles Int'l. Airport (NR)[4]	38°27′	77°57′	291	5.74(5.6)	10.32(6.6)	11.88(7.5)	12.63(8.7)
The Plains (R)	38°54′	77°45′	530	7.3 (5.8)	9.2 (6.8)	10.3 (7.8)	11.4 (8.9)

[1] Other nonrecording stations very likely experienced 24-hour amounts of 10 or more inches but the heavy rainfall may have extended into two observational periods, so that the once-daily measurements were less than 10 inches. There may also have been other qualifying recording-gage stations.
[2] Amounts in parentheses are 100-year values as read from rainfall frequency atlases (Hershfield, 1963 and Miller, 1964).
[3] R = recording gage. NR = nonrecording gage; true maxima probably greater than indicated.
[4] Amounts based on 6 hourly measurements; true maxima probably greater than indicated.

The total storm rainfall over the region extending from North Carolina to New England for the period June 18–25 is shown in figure 34, with the center of maximum rainfall located near Valley View, Pa. A depth-area-duration analysis of this rainfall yielded the maximum average depths for 6 to 72 hours over areas from 100 to 20,000 square miles (51,800 km²) given in the last column of table 4. For comparative purposes this table also presents similar data for nine other tropical storms producing outstanding rainfalls over the United States east of the Mississippi River. The two Florida hurricanes of July 5–10, 1916, and September 3–7, 1950, produced the largest values shown in the table. However, if these Florida storms and that of September 10–13, 1878, in Ohio are eliminated so as to restrict the comparison to tropical storm rainfalls north of Florida and from the Appalachians to the Atlantic coast, the Agnes rainfall exceeds all others for all durations over areas of 10,000 square miles (25,000 km²) and over. This comparison serves to explain in part why the Agnes floods were so outstanding over an extensive region.

Supplementary storm-rainfall data for New York and Pennsylvania during June 18–26, 1972, are presented in table 5. These data were obtained from field surveys by the National Weather Service, Corps of Engineers, and U.S. Geological Survey. Such surveys, often called "bucket surveys," consist of scouring the areas suspected of having experienced unusually heavy storm rainfalls to find and check rainfall amounts caught in buckets, tubs, barrels, and so forth. Many of these observations are reported by citizens who maintain various forms of regularly available rain gages for their own interest but who do not regularly report their observations. The results are usually published by the NOAA Environmental Data Service; however, the data of table 5 were processed too late to meet the scheduled publication deadline and are presented here as a matter of record since they do not appear in any other publication.

TABLE 4.—*Maximum depth-area-duration data for major tropical storm rainfalls in the Eastern United States*

[Rainfall depths in inches]

Rainfall duration (hours)	Period of heaviest rainfall (See footnote for location of rainfall centers)									
	Sept. 10–13, 1878	Aug. 23–28, 1908	July 5–10, 1916	July 13–17, 1916	Sept. 13–17, 1924	Sept. 17-22, 1938	Sept. 3-7, 1950	Aug. 17-20, 1955	Aug. 19-20, 1969	June 18-25, 1972
100 square miles (259 km²)										
6	5.8	6.4	12.8	7.2	7.7	5.0	14.0	7.6	12.9	7.1
12	10.9	8.3	15.6	12.0	11.2	6.8	26.3	10.5	21.7	10.9
24	12.1	10.8	17.3	19.3	12.9	9.5	35.2	14.6	21.7	13.7
48	14.1	13.8	19.5	21.7	13.7	13.0	38.9	18.8	21.7	16.7
72	---	15.1	20.8	22.1	14.4	15.1	40.6	19.0	---	17.4
200 square miles (518 km²)										
6	5.8	5.9	---	6.9	7.1	4.6	13.4	7.4	11.7	6.6
12	10.8	7.8	---	11.7	11.0	6.3	25.6	10.2	19.6	10.4
24	11.9	10.4	---	18.3	12.6	9.0	34.2	14.2	19.6	13.4
48	13.9	13.6	---	20.9	13.5	12.4	37.7	18.2	19.6	16.3
72	---	14.8	---	21.4	14.2	14.8	39.2	18.4	---	16.9
500 square miles (1,295 km²)										
6	5.6	5.3	10.5	6.4	6.2	4.1	12.5	6.8	9.8	5.9
12	10.5	7.0	13.9	11.1	10.5	5.6	24.6	9.7	16.3	9.6
24	11.5	9.9	16.6	16.6	12.1	8.3	32.7	13.4	16.3	12.8
48	13.4	13.2	18.8	19.5	12.9	11.6	36.0	17.2	16.3	15.6
72	---	14.2	19.5	20.1	13.8	14.2	37.3	17.3	---	16.1
1,000 square miles (2,590 km²)										
6	5.3	4.7	9.6	5.9	5.5	3.7	11.4	6.2	8.1	5.3
12	10.1	6.3	13.0	10.4	9.5	5.1	22.6	9.2	13.5	8.9
24	11.0	9.5	15.9	15.0	11.5	7.7	30.2	12.4	13.5	12.3
48	12.9	12.9	18.3	18.1	12.4	11.0	33.7	16.2	13.5	14.9
72	---	13.8	18.8	18.6	13.4	13.8	34.9	16.4	---	15.3
2,000 square miles (5,180 km²)										
6	4.9	4.2	8.4	5.1	4.8	3.3	9.4	5.4	6.3	7.6
12	9.4	5.6	11.8	9.3	8.2	4.6	17.7	8.0	10.7	8.1
24	10.4	8.8	14.6	13.3	10.7	7.2	24.8	11.2	10.9	11.5
48	12.2	12.4	17.1	16.3	11.7	10.4	28.4	14.9	10.9	14.1
72	---	13.1	17.9	16.8	12.7	13.2	29.7	15.2	---	14.4
5,000 square miles (12,950 km²)										
6	4.1	3.6	6.8	3.9	3.7	2.7	5.4	4.0	4.4	3.8
12	8.0	4.7	9.7	7.4	6.4	3.9	9.7	6.3	7.5	6.8
24	9.2	7.7	12.0	10.9	9.4	6.3	15.5	9.5	8.0	10.0
48	10.9	11.1	15.0	13.4	10.6	9.5	19.7	12.6	8.0	12.6
72	---	12.1	16.5	13.8	11.6	12.0	21.0	13.0	---	13.0
10,000 square miles (25,900 km²)										
6	3.5	3.0	5.2	3.0	2.8	2.3	3.3	3.1	3.3	3.2
12	6.8	4.0	7.7	5.5	5.0	3.3	6.6	5.0	5.8	5.7
24	8.1	6.6	9.8	8.6	8.1	5.7	10.6	8.0	6.3	8.7
48	9.7	9.7	13.2	10.6	9.6	8.6	14.7	10.6	6.3	11.3
72	---	11.0	15.4	11.0	10.6	10.9	16.4	10.8	---	11.8
20,000 square miles (51,800 km²)										
6	2.8	2.3	3.3	2.1	2.0	1.9	2.3	2.1	---	2.5
12	5.4	3.2	5.5	3.8	3.8	2.8	4.3	3.6	---	4.4
24	6.7	5.4	7.4	5.9	6.3	4.9	7.5	6.3	---	7.3
48	8.1	8.0	11.3	8.0	8.3	7.5	11.2	8.3	---	9.9
72	---	9.7	14.0	8.4	9.4	9.6	13.5	8.5	---	10.5
50,000 square miles (129,500 km²)										
6	1.9	1.4	1.9	---	1.2	1.4	---	---	---	1.6
12	3.5	2.1	2.3	---	2.3	2.1	---	---	---	2.8
24	4.6	3.7	4.7	---	4.0	3.7	---	---	---	5.1
48	5.8	5.6	8.7	---	6.1	5.8	---	---	---	7.7
72	---	7.5	11.5	---	7.5	7.3	---	---	---	8.6

Storm dates	*Name*	*Location of rainfall center(s)*
Sept. 10-13, 1878	—	Jefferson, Ohio
Aug. 23-28, 1908	—	Vade Mecum and Monroe, N.C.
July 5-10, 1916	—	Bonifay, Fla.
July 13-17, 1916	—	Altapass, N.C.
Sept. 13-17, 1924	—	Beaufort, N.C.
Sept. 17-22, 1938	—	Buck and Barre, Mass.
Sept. 3-7, 1950	Easy	Yankeetown, Fla.
Aug. 17-20, 1955	Diane	Westfield, Mass.
Aug. 19-20, 1969	Camile	Near Tyro, Va.
June 18-25, 1972	Agnes	Near Valley View, Pa.

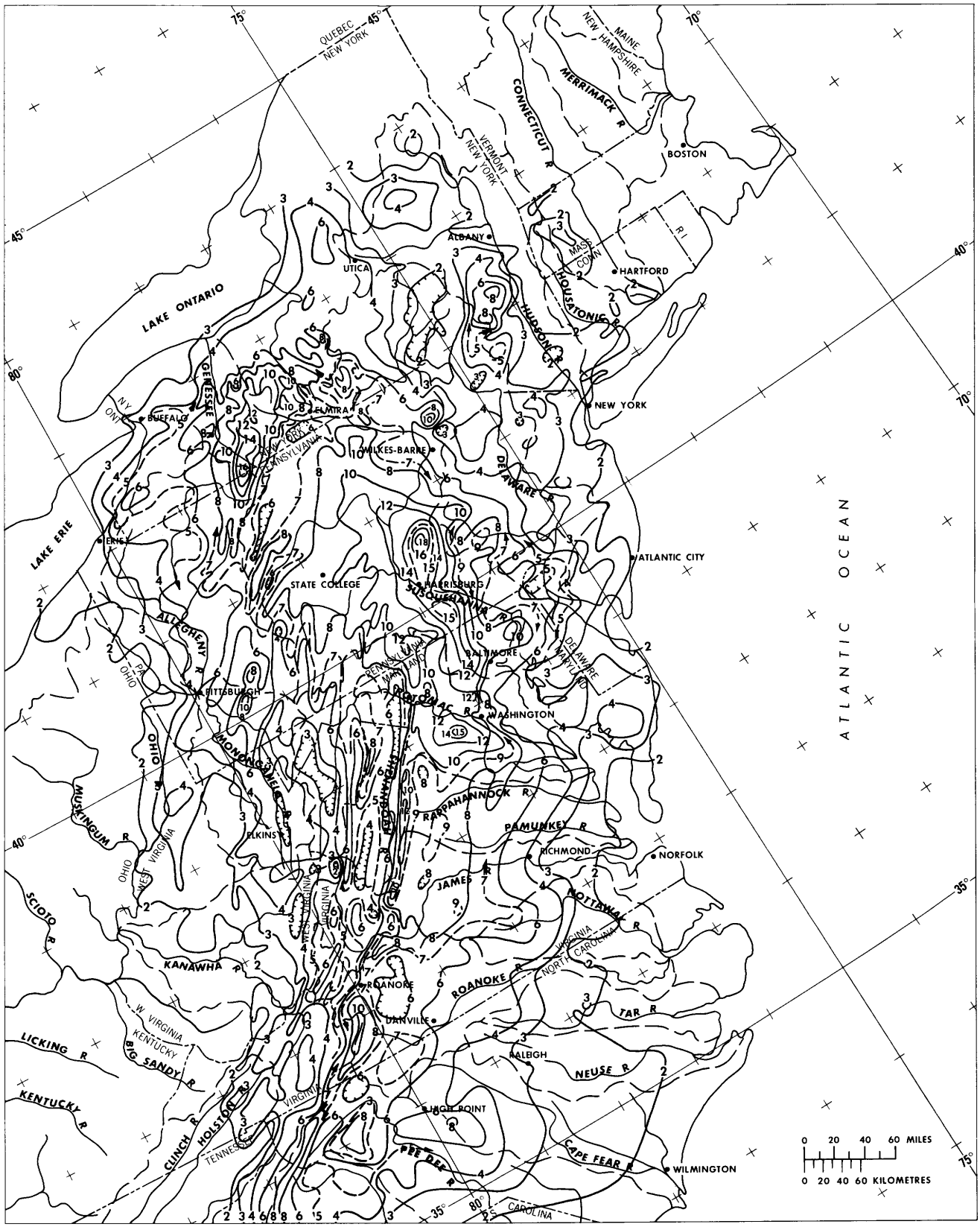


FIGURE 34.—Total storm precipitation for the period 6 p.m., June 19 through 6 p.m., June 23, 1972.

TABLE 5.—*Supplementary rainfall data for Northeastern United States for June 18–26, 1972*

Location [1]	Lat N.	Long W.	Rainfall amounts (in.) [2]	Date	Time a.m. or p.m. (EST)	Type of rain gage	Accuracy [3]	Remarks
NEW YORK								
Allegany Co.								
Alfred	42°15′	77°47′	13.52					
Alma (1)	42°01′	78°04′	11.0	21	6 a.m.	8-in. standard	Poor	Rain heaviest on 21st. No record 23rd–25th. Observer evacuated home 4 a.m. on the 21st. Report supposed to agree closely with Wellsville's but doesn't.
			7.0	22	6 a.m.			
			.13	26	6 a.m.			
Alma (2)	42°02′	78°03′	9.6			Standard bucket or pail.	Fair	Rain began 6 p.m. on the 20th. Bucket overflowed 9 a.m. on the 21st. No further readings. Heavy erosion of road and adjacent topsoil.
Andover Center.	42°09′	77°48′	16.0			4-in. circular glass.	Good	Emptied four times in open field.
Belmont (1)	42°13′	78°02′	7.95*	22	7:30 a.m.	Govt. rain gage	Good	
			1.85	22	7:30 p.m.			
			1.16	23	--			
			.22	24	--			
			.10	26	--			
Belmont (2)	42°15′	77°55′	12.5+			12.5-in. cylindar.	Fair	Container overflowed 12.5 in. rain.
Belmont (3)	42°16′	77°56′	10.0			Tube	Fair	
Belmont (4)	42°15′	77°54′	14.3			Agway tube	Good	
Belmont (5)	42°15′	77°54′	12.0			Pot	Fair	12 in. in pot in garden in open.
Belvedere	42°15′	78°04′	9.0			5-gal. bucket	Poor	8 in. plus 1 in. evaporation.
Birdsall	42°24′	77°55′	11.0			5-gal. bucket	Fair	Approximately 11 in.
Canseraga	42°28′	77°47′	10.5			Glass tube	Good	10 in. from the evening of the 20th to the afternoon of the 23rd plus one-half in.
Centerville	42°01′	78°15′	10.0+			Sap bucket	Poor	10 in. overflowed.
Ceres	42°01′	78°16′	9.0+			9-in. pot, 14-in. diameter.	Fair-Poor	Rain began 5 p.m. on the 20th. Pot overflowed between 9–10 a.m. on 22nd. Not reset so further precipitation lost. Pot was setting about 10 ft W of house.
Cuba (1)	42°13′	78°17′	12.0			Round	Poor	On post in field.
Cuba (2)	42°14′	78°17′	10.0+				Poor	Neighbors had gages with 10–11 in.
Fillmore (1)	42°28′	78°07′	4.0*	21	--	Agway rectangular	Fair	Observer said neighbor had garbage can in open with 8.25 in. too.
			4.25*	26	9 a.m.			
			8.25					
Fillmore (2)	42°28′	78°07′	7.25			Plastic triangle.	Good	
Hume (1)	42°29′	78°08′	7.5				Fair	
Hume (2)	42°29′	78°08′	7.0			Glass tube	Fair	6 in. plus 1 in. (shaded by tree; possible evaporation).
Independence Hill.	42°04′	77°48′	4.00	21	6 a.m.	6-in. Taylor plastic tube, 1.75 in. diameter, graduated 0-5 in.		Visual measurement. Exposure good.
			2.00	21	Afternoon			
			5.00	22	10 p.m.			
			1.25*	26	8 a.m.			
			12.25					
Obi (1)	42°04′	78°18′	9.3			Official 6-in. wedge, graduated one-tenth in.	Good	
Obi (2)	42°04′	78°18′	7.0*	24	9 a.m.			Gage obstructed E-NE side by trees and N side by poultry house; most precipitation on open side to W.
			2.13*	26	9:30 a.m.			
			9.13					

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TABLE 5.—*Supplementary rainfall data for Northeastern United States for June 18–26, 1972*—Continued

Location [1]	Lat N.	Long W.	Rainfall amounts (in.) [2]	Date	Time a.m. or p.m. (EST)	Type of rain gage	Accuracy [3]	Remarks
NEW YORK—Continued								
Allegany Co.—Continued								
Petrolia	42°05′	78°01′	7.40	21	8:05 a.m.	4-in. Agway tube, graduated one-tenth in.		Rain began 6 p.m. on the 20th. Also, plastic ice chest (11.25 in. deep, 16.5 in. long, 12 in. wide) on open porch overflowed. Time not noted.
			3.95	22	8 a.m.			
			4.20	23	4:45 a.m.			
			15.55					
			U					
Rts. 14 and 70	42°26′	77°44′	11.0			5-gal. bucket	Fair	11.12-in. deep and 11-in. wide at top of container. 1.12 in. evaporated.
Rt. 19A between Fillmore and Rushford.	42°25′	78°10′	7.8			Gage	Poor	
Rts. 26 and 408	42°18′	78°04′	9.1				Good	
Scio (1)	42°10′	77°59′	5.0	21	5:30 a.m.	5-in. Agway tube tube one-tenth in.		Rain began just after midnight on the 21st. Heaviest precipitation on the 21st. Fields flooded and erosion of roads. Observation point good.
			3.9	22	5 a.m.			
			5.6	23	5:30			
			0.5	24	7:30 p.m.			
			15.0					
Scio (2)	42°11′	77°59′	4.36	21	6:30 a.m.	8-in. standard		E-15 form lost in flood. Gagehouse washed away. Heavy damage to fields and crops. Observer had some entries on paper but relied on memory for others. Actual rainfall may have been greater as observer may have forgotten to make entry.
			5.35	22	6 a.m.			
			1.40	23	6 a.m.			
			.40	24	6 a.m.			
			11.51					
Swain	42°29′	77°51′	10.0			ICA	Good	8.5 plus 1.5 in., about 10 in. total. Heaviest rain on the 22nd.
West Almond (1).	42°20′	77°55′	11.5			Agway	Good	
West Almond (2).	42°20′	77°53′	11.25			5-in. Agway	Good	4.5 in. 9 a.m. on the 21st.
Cattaraugus Co.								
Portville (1)	42°03′	78°20′	4.7	21	7 p.m.	6-in. conical shaped, graduated one-tenth in.	Good	Rain began 7 p.m. on the 20th. Heavy rain between 7 p.m. on the 20th and noon on 21st. Crop loss and loss of gravel. Fields flooded.
			3.1	22	7 p.m.			
			1.3	23	7 p.m.			
			0.3	24	7 p.m.			
			0.2	25	7 p.m.			
			0.2	26	8:30 a.m.			
			9.8					
Portville (2)	42°03′	78°19′	10.0			10-in. round plastic, graduated one-tenth in. to 2 in., five-tenths in. to 10 in.		Rain began 7 p.m. on the 20th. Measurement made at 8:45 a.m. on the 26th. Heaviest rain between midnight on the 20th and 5 p.m. on the 22nd. Observer had fields flooded, fences downed, and topsoil washed away.
Portville (3)	42°04′	78°18′	7.0*	23	--	6-in. Victor tube, graduated on-tenth in.	Poor-fair	Rain began 7 p.m. on the 20th to the 23rd. Little damage to obsrever. Gage obstructed by trees and shrubs.
			1.3	24	--			
			.5*	26	7 a.m.			
			8.8					

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NEW YORK—Continued								
Cayuga Co.								
Auburn	42°51′	76°35′	6.2			5-in. rectangular, 2-25 in. by three-fourths in.	Good	Exposure good.
Moravis	42°44′	76°27′	6.0			5-in. glass tube, graduated one-tenth in.	Fair	Did not remember distribution.
New Hope	42°48′	76°21′	6.0			Wedge	Fair	
Niles	42°50′	76°24′	3.0			Tube	Poor	Does not fit in the pattern, but observer seems to keep track of rain.
Union Springs	42°51′	76°37′	5.0+			5-25-in. coffee can	Fair	Rain began on the 20th. Measurement made on the 25th. Gage may have splashed over.
Weedsport	43°07′	76°33′	5.0			5-in. wedge 1 in. by 3 in.	Good	Rain began the evening of the 20th. Measurement made on the evening of the 23rd.
Chemung Co.								
Elmira (1)	42°15′	76°45′	7.2			4.5-in. glass tube, graduated one-tenth in.	Fair	Lost paper on which breakdown was written.
Elmira (2)	42°05′	76°49′	T	21	7 a.m.			
			3.30	22	7 a.m.			
			3.02	22	8 p.m.			
			6.32					
Cortland Co.								
Scott	42°45′	76°15′	5.6			5-in. glass tube, flared top and expanded scale	Poor	Did not remember distribution.
Erie Co.								
East Aurora	32°46′	78°37′	4.0				Fair	
North Collins	42°36′	78°57′	6.0			Plastic test tube	Good	Rain began 2 p.m. on the 21st. On the morning of the 23rd, 5.34 was measured. Storm total measured on the 24th.
Genesse Co.								
Bergen	43°05′	77°57′	.15	20	7 a.m.	6-in wedge, graduated one-tenth in.	Good	Open exposure.
			1.25	21	7 a.m.			
			1.60	22	7 a.m.			
			.45	23	7 a.m.			
			.15	24	7 a.m.			
			3.60					
Oakfield	43°04′	78°17′	1.4	21	7 a.m.	6-in. wedge, graduated one-tenth in.	Good	Open exposure.
			1.5	22	7 a.m.			
			.3	23	7 a.m.			
			.2	24	7 a.m.			
			3.4					
Livingston Co.								
Avon (1)	42°55′	77°45′	.02	20		6-in. wedge, graduated one-tenth in.	Good	Heaviest rainfall 2:30–4 p.m. on the 22nd. Excellent exposure.
			.34	21				
			1.25	22				
			2.60	23				
			.37	24				
			.08	25				
			4.66					
Avon (2)	42°53′	77°46′	4.5			6-in. wedge graduated one-tenth in.		

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TABLE 5.—*Supplementary rainfall data for Northeastern United States for June 18–26, 1972*—Continued

Location [1]	Lat N.	Long W.	Rainfall amounts (in.) [2]	Date	Time a.m. or p.m. (EST)	Type of rain gage	Accuracy [3]	Remarks
NEW YORK—Continued								
Livingston Co.—Continued								
Conesus (1)	42°45′	77°40′	2.5	21	7 a.m.	5-in. cone, graduated one-tenth in.		50 percent loss in grape crop due to rainfall.
			2.5	22	7 a.m.			
			3.0	23	7 a.m.			
			T	24	7 a.m.			
			8.0					
Conesus (2)	42°43′	77°40′	4.0*	22	5 a.m.	4-in. Agway, graduated one-tenth in.		Rain began at 9 p.m. or later on the 20th. Exposure fair.
			4.5	23	--			
			8.5					
Cuylerville	42°47′	77°52′	1.20	10	6 a.m.	6-in. wedge, graduated one-tenth in.		Exposure good.
			.52	20	6 a.m.			
			1.50	21	6 a.m.			
			3.00	22	6 a.m.			
			.11	23	6 a.m.			
			.14	24	6 a.m.			
			6.47					
Dalton	42°33′	77°58′	9.5			Agway tube	Good	Greatest rain on the evening of the 22nd.
Geneseo	42°46′	77°50′	.40	19		6-in. wedge, graduated one-tenth in.		
			5.00*	23				
			5.40					
Hunt (1)	42°32′	78°00′	4.1	21	11 p.m.	4-in circular tube	Good	
			3.7	22	11 p.m.			
			.3	23	11 p.m.			
			.2	24	11 p.m.			
			8.3					
Hunt (2)	42°33′	78°01′	8.0			Tube	Fair	8 in. at bottom of valley.
Leicester	42°47′	77°53′	6.5			Agway tube, graduated one-tenth in.		Rain began about 9 p.m. on the 20th and ended close to midnight on the 22nd. 700 acres of 1,500 were under water from Little Beards Creek.
Livonia (1)	42°48′	77°40′	3.00	21		5-in. rectangular Agway, graduated one-tenth in.		Station doubled some surrounding rainfall reports. Amount possible. Creek flooded flats. Station located between two hills.
			5.00	22				
			3.00	25				
Livonia (2)	42°49′	77°40′	.20	19		5-in. Agway, graduated one-tenth in.		Exposure fair.
			.85	20				
			.00	21				
			1.50	22				
			2.80	23				
			.40	24				
			.15	25				
			5.90					
Livonia (3)	42°50′	77°40′	1.00	22		5-in. rectangular Agway, graduated one-tenth in.	Good	
			1.30	23				
			3.55	24				
			5.85					
Mt. Morris (1)	42°42′	77°52′	.70	19	7 a.m.	6-in. wedge, graduated one-tenth in.		From Dansville to Henrietta, 2,000 acres of contracted crops suffered.
			.65	20	7 a.m.			
			1.50	21	7 a.m.			
			1.95	22	7 a.m.			
			.25	23	7 a.m.			
			T	24	7 a.m.			
			5.05					
Mt. Morris (2)	42°39′	77°52′	3.5*	21	6 p.m.	4-in. plastic tube.	Poor	
			3.0*	23	6 p.m.			
			6.5					
Mt. Morris (3)	42°38′	77°48′	3.5*	22	6 a.m.	5-in. glass tube.	Fair	
			3.2	23	6 p.m.			
			6.7					

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Location [1]	Lat N.	Long W.	Rainfall amounts (in.) [2]	Date	Time a.m. or p.m. (EST)	Type of rain gage	Accuracy [3]	Remarks
NEW YORK—Continued								
Livingston Co.—Continued								
Mt. Morris (4)	42°43′	77°54′	.1	20	----------	5-in. tube	Good	----------
			1.4	21				
			2.3	22				
			3.0	23				
			.2	24				
			.1	25				
			7.1					
Nunda	42°34′	77°57′	8.0	----------		6-in. Victor	Fair-good	Rain began about 7–8 p.m. on the 20th and ended about midnight on the 26th.
Portageville	42°34′	78°03′	9.0	----------		4.5-in. Agway tube.	Fair-good	Rain began about 7–9 p.m. on the 20th and ended about 6 p.m.–midnight on the 26th.
Springwater	42°32′	77°35′	2.96	21	4 p.m.	Standard Weather Bureau gage.	Good	----------
			2.10	22	3 p.m.			
			2.98	23	3 p.m.			
			.08	24	4 p.m.			
			8.12					
Livingston-Wyoming Co. line.	42°45′	77°57′	6.25	----------		Triangle	Good	Exposure good.
Onandaga Co.								
Apulia	42°52′	76°01′	.01	21	----------	Wedge	Good	----------
			2.70	22				
			1.20	23				
			.32	24				
			4.23					
Camillus	43°02′	76°21′	3.1	21	----------	2.5 by 4-in. can.	Fair	----------
			1.5	22				
			1.5	23				
			6.1					
Fabius	42°49′	76°02′	.01	21	7 a.m.	Tru Check plastic wedge	Good	Exposure good.
			2.70	22	7 a.m.			
			1.20	23	7 a.m.			
			.32	24	7 a.m.			
			4.23					
Navarino (1)	42°56′	76°16′	5.2	----------		5-in. glass tube.	Poor	Poor exposure, tall trees nearby.
Navarino (2)	42°56′	76°15′	6.0	----------		4.5-in. glass tube.	Fair	Did not remember distribution.
Ontario Co.								
Burbee Hollow	42°43′	77°25′	3.50	21	7 a.m.	Tru Check plastic wedge.	----------	Exposure good.
			5.00	22	7 a.m.			
			2.50	23	7 a.m.			
			1.00	24	7 a.m.			
			12.00					
Canandaigua	42°53′	77°12′	3.0*	--	---------	4-in. Agway, graduated one-tenth in.	----------	Took two readings during storm.
			2.3*	26				
			5.3					
Canadice	42°44′	77°32′	4.0*	--	---------	4-in. Agway, graduated one-tenth in.	----------	Emptied once.
			2.0*	--				
			6.0					
Canadice Lake	42°43′	77°34′	.07	20	----------	----------	----------	----------
			1.31	21				
			2.25	22				
			3.34	23				
			.40	24				
			.10	25				
			7.47					
Gorham	42°48′	77°10′	3.3*	--	---------	4-in. glass tube.	Fair	Did not remember dates.
			2.0*	--				
			2.0*	--				
			7.3					

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NEW YORK—Continued								
Ontario Co.—Continued								
Granger Point	42°40′	76°21′	2.80	21	7 a.m.	11-in. plastic Taylor tube, 4-in. diameter.		Exposure good.
			2.25	22	7 a.m.			
			2.84	23	7 a.m.			
			.54	24	7 a.m.			
			8.43					
Naples	42°35′	77°27′	11.0			5-in. rectangular Agway.	Fair	Rain began night of 20th. Heaviest rain on the 21st and 22nd.
Wine Cellar Hill.	42°37′	77°26′	4.00	21	7 a.m.	12-in. plastic Taylor tube 4-in. diameter.		Exposure good.
			3.20	22	7 a.m.			
			3.00	23	7 a.m.			
			10.20					
Orleans Co.								
Medina	43°13′	78°24′	.0	20		Weather Bureau gage.	Good	Records sent to Dr. Pack, Cornell Univ.
			T	21				
			.95	22				
			1.40	23				
			.24	24				
			.02	25				
			2.56					
Schuyler Co.								
Mecklenburg	42°24′	76°45′	8.2			4-in. glass tube	Fair	
Seneca Co.								
Covert	42°34′	76°42′	7.5			Wedge	Fair	Did not remember distribution.
Romulus	42°47′	76°50′	2.0*			0.5-in. tube		Did not remember dates.
			3.0*					
			2.0*					
			7.0					
Steuben Co.								
Addison	42°07′	77°15′	.09	21	7 a.m.			
			1.81	22	7 a.m.			
			1.90					
Arkport (1)	42°24′	77°42′	10.5+			5-in. Agway tube.	Poor	5.5+ overflowed.
Arkport (2)	42°24′	77°43′	5.5+	21	8 a.m.	5-in. Agway tube.	Good	5.5+ in. overflowed on the 21st. 14 in. on another gage at airport.
			1.5	21	10:30 a.m.			
			2.4	22	7 a.m.			
			3.6	23	6:45 a.m.			
			.9	24	7 a.m.			
			13.5+					
Arkport (3)	42°24′	77°42′	10.2			5-in. Agway	Good	Rain began the night of the 20th and ended the night of the 23rd.
Arkport (4)	42°24′	77°41′	11.9			Wedge	Fair	
Atlanta	42°31′	77°29′	5.05	21	10 p.m.	Weather Bureau gage and USDA gage.	Good	Rain began 10 p.m. on the 20th and ended 6 a.m. on the 23rd. 39-hr period.
			4.15	22	10 p.m.			
			2.00	23	6 a.m.			
			11.20					
Dansville	42°27′	77°35′	10.5			5-gal. bucket and glass tube.	Fair	Rain began 10 p.m. on the 20th. Measurement made at 7 a.m. on the 23rd.
Ingleside	42°34′	77°24′	2.45	21	7 a.m.	12-in. plastic Taylor tube, 4-in. diameter.		Exposure good.
			2.90	22	7 a.m.			
			4.70	23	7 a.m.			
			.39	24	7 a.m.			
			10.44					
Kirkwood	42°31′	77°28′	5.05	21	10 p.m.	8-in. standard		Exposure good.
			4.15	22	10 p.m.			
			2.00	23	10 p.m.			
			.19	24	10 p.m.			
			11.39					

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NEW YORK—Continued								
Steuben Co.—Continued								
Lindley	42°02′	77°08′	2.30	22	7 a.m.			
Stephens Mill	42°24′	77°37′	14.00			Plastic gage	Fair	
Wheeler	42°26′	77°20′	11.00			Agway tube	Fair	3-day period.
Tompkins Co.								
Fenner	42°37′	76°36′	7.8			4-in. Agway tube, 0.63-in. diameter.	Poor	3-day period. Exposure good.
North Lansing Howser.	42°37′	76°30′	6.5			6-in. wedge	Good	From the 20th to the 25th.
Wyoming Co.								
Bennington	42°50′	78°25′	2.5*			Circular can	Fair	Time of observations unknown.
			1.0*					
			3.5					
Castile	42°38′	78°03′	7.0			Plastic gage	Good	
Hermitage	42°39′	78°13′	6.5			4-in. Agway tube.	Good	From the 20th to the 23rd.
Java (1)	42°39′	78°23′	6.2			5-in. Agway tube.	Good	Rain heaviest the evening of the 21st.
Java (2)	42°38′	78°23′	5.75			5-in. Agway tube.	Good	
Orangeville	42°45′	78°16′	9.5				Poor	Seem to high.
East Perry Center.	42°45′	78°00′	6.7			5-in. Agway tube.	Good	
Pike	42°34′	78°09′	7.5+			4-in. Agway tube.	Fair	7.5+, not more than one-half in. ran over.
Portageville	42°34′	78°04′	7.1			4-in. Agway tube.	Good	7.1 in. west of Portageville; 8.1 in. in Portageville; 7.1 in. in Hunt lower elevation—neighbors.
Warsaw (1)	42°47′	78°07′	4.5			Agway tube	Good	Rain began the night of the 20th. Measurement made on the 23rd.
Warsaw (2)	42°44′	78°09′	5.25			Tube	Poor	Poor location of gage.
Warsaw (3)	42°45′	78°07′	6.0			6-in. tube	Good	Exposure good.
Warsaw (4)	42°44′	78 08′	7.00			4-in. Agway tube.	Fair	7 in. at least.
Yates Co.								
Branchport	42°37′	77°48′	3.5*	--		4.5-in. gage, graduated one-fourth in.	Fair	Did not remember dates.
			4.0*					
			7.5					
Dundee	42°31′	76°59′	3.8*	--		4-in. Agway tube, graduated one-tenth in.		Smaller amounts measured on some days during this period. Storm total given as 10.6 in.
			3.7*					
Keuka (1)	42°30′	77°08′	3.0+	21	9 a.m.	3-in. glass tube.		Gage may have splashed over.
			3.0	21	8 p.m.			
			3.0	22	6 a.m.			
			1.5	22	6 a.m.			
			10.5+					
Keuka (2)	42°30′	77°06′	3.1*			4-in. Agway tube.		Did not remember dates.
			3.4*					
			1.0*					
			7.5					
Middlesex	42°43′	77°16′	4.0	21		4-in. Agway tube.		
			3.0	22				
			1.2	23				
			.8	24				
			9.0					

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[3] Accuracy is listed as reported by field surveyor.

TABLE 5.—*Supplementary rainfall data for Northeastern United States for June 18–26, 1972*—Continued

Location [1]	Lat. N.	Long W.	Rainfall amounts (in.) [2]	Date	Time a.m. or p.m. (EST)	Type of rain gage	Accuracy [3]	Remarks
PENNSYLVANIA								
Bradford Co.								
Troy (1)	41°43′	76°39′	11.4			Plastic gage		Gage in open area. Emptied by observer a few times.
Troy (2)	41°48′	76°50′	10.2			Plastic gage		
Wyalusing (1).	41°40′	76°13′	7.5			Straight-sided concrete mixing vat.		
Wyalusing (2).	41°44′	76°17′	6.6			5-in. plastic Taylor tube.		
Wysox	41°48′	76°24′	8.1			Milk can, 12-in. diameter, 9-in. opening.		
Elk Co.								
Johnsonburg	41°31′	78°40′	3.05	21	6 a.m.	8-in. standard		Homes flooded W of town. 44 in. of water on first floors. Boy drowned on the 26th 1.5 mi below dam at Bending State Park 4 mi up Clarion River from Johnsburg.
			1.06	22	6 a.m.			
			3.77	23	6 a.m.			
			.17	24	6 a.m.			
			.67	25	6 a.m.			
			.37	26	6 a.m.			
			9.09					
Lake City	41°21′	78°54′	9.0			Straight pot		Readings from the 20th to the evening of the 26th. Ruler used.
Fayette Co.								
Uniontown	39°53′	79°43′	.24	21				
			.63	22				
			4.34	23				
			.90	24				
			.19	25				
			6.30					
Lackawanna Co.								
Interstate 81 and Rt. 632 intersection.	41°33′	75°44′	14.2			Milk can, 17-in. diameter, 14-in. opening.		In open undisturbed area.
Luzerne Co.								
Nescopec	41°03′	76°17′	13.8			Oval metal container, 8 ft by 3 ft.		Observer assumed this amount covered more than 2 days.
McKean Co.								
Eldred (1)	41°58′	78°22′	5.3	21	11 a.m.	Wedge		Town suffered extensive damage to business and residences. Exposure poor.
			3.1	22	4 p.m.			
			0.5	23	--			
			0.6	24	--			
			0.5	25	11 a.m.			
			10.0					
Eldred (2)	41°58′	78°21′	3.03	21	7 a.m.	8-in. standard		
			2.19	22	7 a.m.			
			3.29	23	7 a.m.			
			.05	24	7 a.m.			
			.38	25	7 a.m.			
			.16	26	7 a.m.			
			9.10					
Port Allegany	41°47′	78°14′	6.0			6-in. Victor tube, graduated one-tenth in.	Fair	Rain began 6-7 p.m. on the 20th and ended about midnight on the 26th. Heaviest precipitation between 7 p.m. on the 20th and 11 a.m. on the 21st.
			6.6*	21	11 a.m.			
			12.6					
Northcumberland Co.								
Mt. Carmel	40°48′	76°26′	12.06			Standard		

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[3] Accuracy is listed as reported by field surveyor.

TABLE 5.—*Supplementary rainfall data for Northeastern United States for June 18–26, 1972*—Continued

Location [1]	Lat. N.	Long W.	Rainfall amounts (in.) [2]	Date	Time a.m. or p.m. (EST)	Type of rain gage	Accuracy [3]	Remarks
PENNSYLVANIA—Continued								
Schuylkill Co.								
Eisenhuth Reservoir.	40°48′	76°07′	9.24					Schuylkill Co. Water Authority
New Ringold	40°40′	75°58′	11.25			Glass tube, 8-in. diameter, 0.38-in. opening.		
Tamaqua	40°48′	76°02′	9.2			Straight-sided metal can, 15.75-in. diameter.		Can in clear area.
Tioga Co.								
Gaines	41°45′	77°33′	5.18			Wedge		Tall trees around gage but open over top.
Maimesburg (1).	41°46′	76°58′	9.4			Plastic		Gage in clear area.
Maimesburg (2).	41°48′	76°54	6.5+	22	11 p.m.	Plastic		Rain began 5 a.m. on the 22nd. Gage in clear area.
Mansfield	41°48′	77°07′	7.80			Plastic		Gage in clear area.
Wellsboro	41°47′	77°11′	8.00			9-in. calibrated glass gage.		
Westmoreland Co.								
Donegal	40°07′	79°22′	.16	20	11 p.m.			3.34 in. at 11 a.m. on the 23rd.
			.96	21	11 p.m.			
			2.10	22	11 p.m.			
			4.17	23	11 p.m.			
			.74	24	11 p.m.			
			.12	25	11 p.m.			
			.00	26	11 p.m.			
			8.25					
Greensburg	40°14′	79°28′	.24	20		8-in. standard		Exposure good.
			.45	21				
			2.00	22				
			3.73	23				
			.27	24				
			.29	25				
			6.98					
Kingston	40°18′	79°21′	.27	20	11 p.m.	8-in. standard		Exposure good.
			1.50	21	11 p.m.			
			2.00	22	11 p.m.			
			2.56	23	11 p.m.			
			.60	24	11 p.m.			
			.12	25	11 p.m.			
			.00	26	11 p.m.			
			7.05					
Latrobe (1)	40°18′	79°23′	2.00	22		5-in. Agway, graduated one-tenth in.		Exposure fair.
			3.50	23				
			2.00	24				
			7.50					
Latrobe (2)	40°19′	79°23′	.50	19	6:30 a.m.	8-in. standard		Exposure poor to fair.
			.00	20	6:30 a.m.			
			.40	21	6:30 a.m.			
			1.30	22	6:30 a.m.			
			4.03	23	6:30 a.m.			
			2.30*	26	6:30 a.m.			
			8.53					
Mt. Pleasant (1).	40°07′	79°30′	.00	20		10-in. metal Taylor, 3-in. diameter.		Exposure fair to good.
			2.00	21				
			2.00	22				
			5.00	23				
			3.00	24				
			1.50	25				
			.00	26				
			13.50					

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[3] Accuracy is listed as reported by field surveyor.

TABLE 5.—*Supplementary rainfall data for Northeastern United States for June 18–26, 1972*—Continued

Location [1]	Lat. N.	Long W.	Rainfall amounts (in.) [2]	Date	Time a.m. or p.m. (EST)	Type of rain gage	Accuracy [3]	Remarks
PENNSYLVANIA—Continued								
Westmoreland Co.—Continued								
Mt. Pleasant (2).	40°11′	79°28′	12.+			13-in. 5.gal. oil can, 11.13-in. diameter.		May have been measured on the 21st. Rain continued after can emptied.
Perryopolis	40°05′	79°48′	1.5*	22		15.5-in. can, 11-in. diameter.		Rain began on the 20th. Exposure good. Another farmer a half mile down road had identical reading.
			5.0*	24				
			6.5					
Rector (1)	40°11′	79°15′	.00	20		8-in. standard		Exposure good.
			.21	21				
			1.11	22				
			3.85	23				
			1.25	24				
			.20	25				
			.02	26				
			6.64					
Rector (2)	40°11′	79°15′	.00	20	7 a.m.	8-in. standard		Exposure good.
			.20	21	7 a.m.			
			1.10	22	7 a.m.			
			4.00	23	1 p.m.			
			.63	24	7 a.m.			
			.18	25	7 a.m.			
			.00	26	7 a.m.			
			6.11					
Smock	39°57′	79°48′	1.0	22		4-in. Agway tube, 0.75-in. diameter.		On the 23rd, overflowed at 7 a.m.
			4.5+	23				
			1.0	24				
			6.5+					
Stahlstown	40°10′	79°21′	.00	20		Wedge		Exposure good.
			.38	21				
			1.04	22				
			4.05	23				
			2.20	24				
			.40	25				
			.03	26				
			8.10					
Wyoming Co.								
Mehoopany	41°34′	76°03′	7.4			Plastic gage		
Meshoppen	41°37′	76°02′	6.1			Straight-sided metal can, 6-in. diameter.		Can in open area.
Mill City	41°30′	75°52′	5.7			Straight-sided plastic bucket, 10.5-in. diameter.		Bucket in open area.
Rts. 6 and 92 intersection.	41°29′	75°52′	6.0			1 gal. can		Road washed out a few miles south of here.

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[3] Accuracy is listed as reported by field surveyor.

FLOOD FREQUENCY

Information on flood frequency is useful in the design of bridges, culverts, highways, flood-control structures, industrial plants or other buildings lying on flood plains, and in the development of criteria for land management.

Recurrence interval in this report is defined as the average number of years within which a given flood peak will be exceeded once. The recurrence intervals are average figures based on historical data; consequently, a flood of a given recurrence interval may occur in any year, in successive years, or may not occur for a period much greater than the designated recurrence interval. Probability terms may be used to avoid any inference of regularity of occurrence. A flood with a 50-year recurrence interval would have 1 chance in 50 or a 2-percent chance of being exceeded in any given year; cor-

respondingly, a 25-year flood would have 1 chance in 25 or a 4-percent chance of being exceeded in any given year.

Flood-frequency information at gaging sites are shown in this report in table A–1. The flood frequency data shown were prepared using the methodology described by the U.S. Water Resources Council (1967). Peak flow data through 1971 were used in the frequency analysis. Flood-frequency information shown for some stations is based on regional flood-frequency analysis owing to insufficient length of record at the site. At sites where flood peaks are materially affected by regulation or diversion, flood frequency is shown only if 25 or more years of record are available during which effects of regulation or diversion on peak flows has remained virtually unchanged. Many stations experienced flood peaks whose recurrence interval was greater than 100 years. Owing to the short length of available record, frequency curves could not be reliably defined beyond the 100-year recurrence interval, therefore, stations whose peak flow exceeded the 100-year recurrence interval are shown in table A–1 as >100.

The outstanding aspect of the 1972 floods was their great areal extent, resulting in record-breaking extremely rare floods on major streams. Peak flows at some stations approached the highest ever recorded (fig. 35).

Several major streams, the Schuylkill River, the Susquehanna River and its major tributaries, the Chemung and West Branch Susquehanna Rivers, and the James River experienced peak flows having recurrence intervals in excess of 100 years throughout most of their lengths. New record highs would have been recorded throughout the length of the Allegheny River had it not been for flood storage in reservoirs.

Peak flows on many tributary streams had recurrence intervals greater than 100 years. Most gaged streams tributary to the Susquehanna River from Waverly, N.Y., to the Chesapeake Bay experienced peak flows having recurrence intervals near or greater than 100 years. This was also true of most Potomac River tributaries downstream from Point of Rocks, Md.

THE FLOODS

In this section the magnitude of floodflows in the report area is discussed. Storm precipitation and property damage are covered in other parts of the report and are not discussed here. The floods in the various river basins in the flood area are dis-

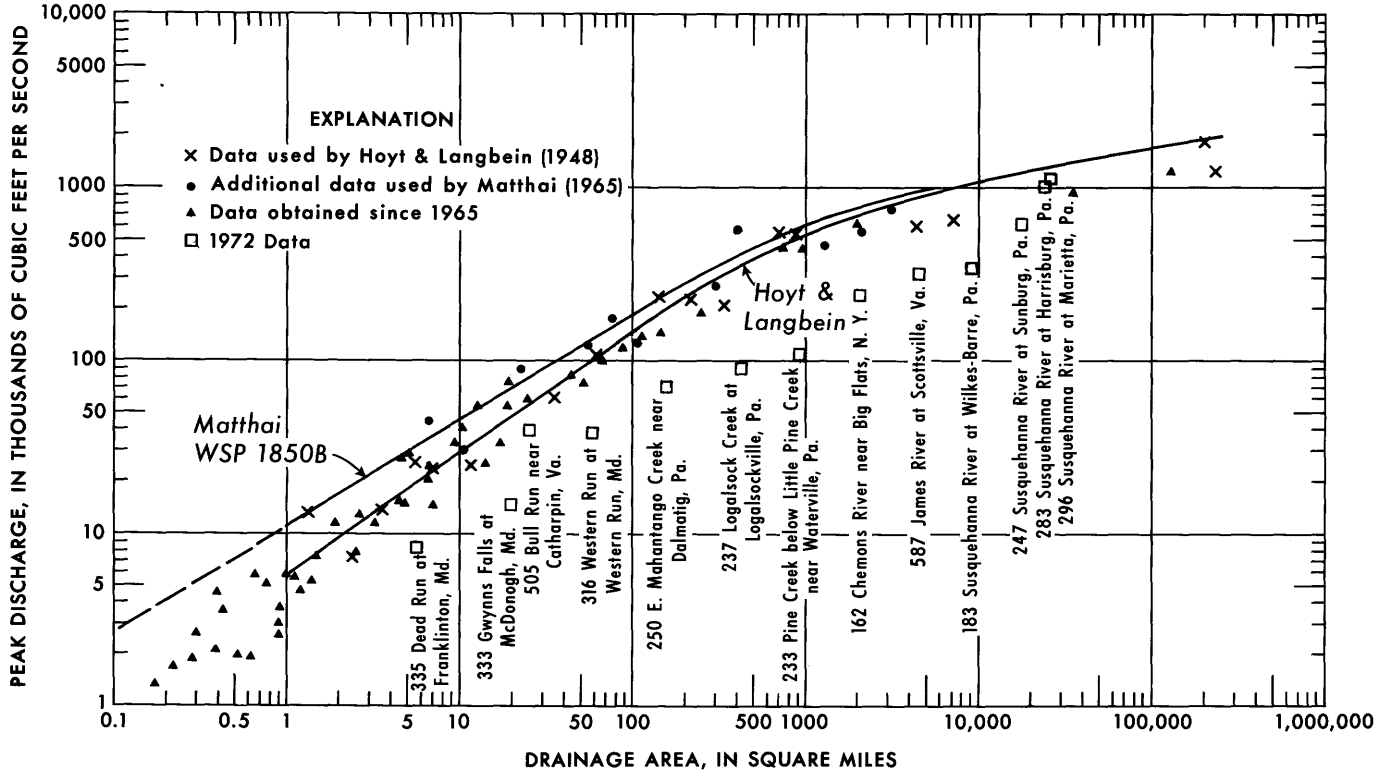


FIGURE 35.—Maximum discharge versus drainage area for known floods.

cussed briefly in the downstream order used in water-supply papers of the U.S. Geological Survey. Peak flows are described with reference to their recurrence intervals (the average number of years during which the peak discharge will be exceeded once) and by comparison with previous floods. A summary of data on flood stages and discharges is given in table A–1.

STREAMS TRIBUTARY TO LONG ISLAND SOUND

Unusually high floodflows were experienced on streams in Manchester County, N.Y., and the southeast corner of Connecticut on June 19. These high flows were caused by an intense frontal storm before the advent of Hurricane Agnes in other parts of the report area. Maximum peak flows for periods of record were recorded at most stream-gaging sites. Some of the peak discharges had recurrence intervals estimated to be greater than 100 years. Four gaging stations, with records dating back to about 1940, Blind Brook at Rye, N.Y. (site 11); Beaver Swamp Brook at Mamaroneck, N.Y. (site 13); Mamaroneck River at Mamaroneck, N.Y. (site 17); and Bronx River at Bronxville, N.Y. (site 19), had peak flows almost two times the magnitudes of the previously recorded maximums. Flood profile data for several streams are shown in table A–2.

DELAWARE RIVER BASIN

Severe flooding occurred in the Schuylkill River basin from the headwaters to its confluence with the Delaware River at Philadelphia. Flooding in the Delaware River basin upstream from the Schuylkill River was not unusual, and only the Schuylkill River and other right- (west-) bank tributaries to the Delaware River downstream from Philadelphia are included in the report area. Peak discharges recorded at several gaging stations indicate that recurrence intervals greater than 100 years were fairly common. The peak discharge for Schuylkill River at Berne, Pa. (site 23), was the greatest since records began in 1948, and the peak of 95,900 cfs at Pottstown, Pa. (site 28), was almost two times the maximum previously known since at least 1902. The peak stage of 29.97 feet at that site is about 9 feet higher than the previous maximum during the same period. At the gaging station at Philadelphia, Pa. (site 39), the peak discharge of 103,000 cfs was the greatest since at least 1902 but was exceeded by the historic flood of 1869. Information on flood-crest elevations along the Schuylkill River are shown in table A–3. Discharge hydrographs for the period of extreme flooding for Schuylkill River at Pottstown and Philadelphia, are shown in figure 36.

Outstanding floods also occurred on Schuylkill River tributaries, Tulpehockan Creek, French Creek, and Perkiomen Creek. There was some reduction of peak flow of Perkiomen Creek owing to flood storage in Green Lane Reservoir; however, the peak discharge at Graterford, Pa. (site 32), downstream from the reservoir was 35,800 cfs, only slightly less than the maximum for the period of record beginning in 1915.

There was no flooding of consequence on small tributary streams between the Schuylkill River and Christina River; however, record-breaking floods occurred on streams in the Christina basin (includes Brandywine Creek) in southeast Pennsylvania and Delaware. Peak discharge of White Clay Creek above Newark, Del. (site 50), was more than two times the previous maximum for the period 1953–59, 1963–72, and that of White Clay Creek near Newark, Del. (site 52), was the greatest since at

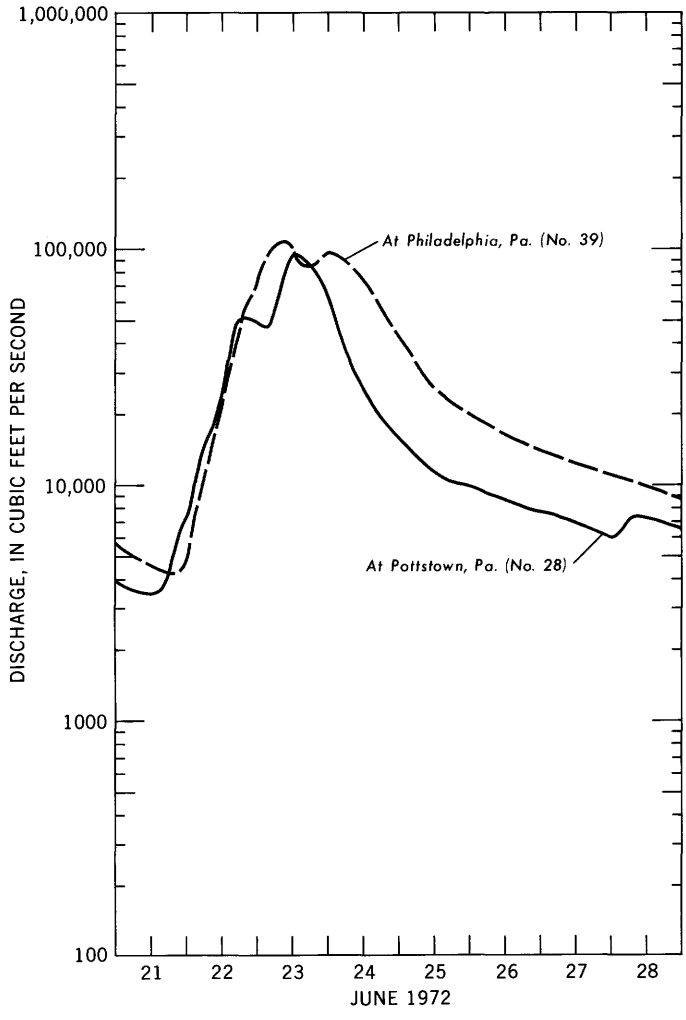


FIGURE 36.—Discharge hydrographs at selected gaging stations on Schuylkill River, June 21–28, 1972.

least 1932. Peaks at both sites had recurrence intervals estimated to be greater than 100 years. New maximums of record were recorded at most gaging stations in Brandywine Creek basin. The peak discharge of Brandywine Creek at Chadds Ford, Pa. (site 64), was the greatest known since at least 1912, and that for Brandywine Creek at Wilmington, Del. (site 67), was the greatest since at least 1947. Recurrence intervals at these and several other sites in the basin exceeded 100 years.

SUSQUEHANNA RIVER BASIN

The 1972 flood in the Susquehanna River basin is the greatest known as regards both areal extent and magnitude of flood flow. Only the upper reaches of the basin escaped the disasterous effects of Agnes. Flood-crest-profile data for more than 1,000 river miles in the basin are tabulated in table A–3.

SUSQUEHANNA RIVER MAIN STEM

Flooding along the Susquehanna River and its tributaries upstream from Binghamton, N.Y., was not significant. The peak discharge of 58,000 cfs recorded for the Susquehanna River at Vestal, N.Y. (site 102), has a recurrence interval of only 2 years. However, flood flows increased rapidly downstream from Vestal owing to high rates of runoff from tributary streams; the peak discharge at a gaging station near Waverly, N.Y. (site 107), was about two times that at Vestal and has a recurrence interval of 40 years.

The Susquehanna River, from the mouth of Chemung River, just upstream from the New York-Pennsylvania line, to the Chesapeake Bay in Maryland, experienced the greatest flood known since as far back as 1784. Peak flows along the entire reach have recurrence intervals greater than 100 years. Some reduction of peak flows resulted from flood storage in reservoirs on tributary streams. The estimated reduction of peak stages upstream from West Branch Susquehanna River was less than 1 foot and was between 1 and 2 feet downstream from that point. (See table A–5). For the reach between Chemung and West Branch Susquehanna Rivers, peak discharges were about 1.5 times the previous known maximums, and peak stages exceeded previous maximums by 8.4 feet at Towanda (since at least 1865), by 7.8 feet at Wilkes-Barre (since at least 1784), and by 4.8 feet at Danville (since at least 1865).

Flooding was especially severe on the Susquehanna River from Wilkes-Barre to Harrisburg. The peak flow of West Branch Susquehanna River at its confluence with Susquehanna River near Sunbury, Pa., was about 300,000 cfs, thus sustaining record peak flows in the river downstream. At Sunbury, Pa. (site 247), the peak discharge of 620,000 cfs on the Susquehanna was 64,000 cfs more than that for the great flood of 1936, the greatest previously known since at least 1819, and the stage was 1.2 feet higher. Flood flows increased rapidly downstream as all tributary streams experienced extremely high rates of runoff. The peak discharge of 1,020,000 cfs at Harrisburg, Pa. (site 283), was 1.4 times that of 1936, which was the previous maximum since at least 1786, and the stage was 3.4 feet higher. At Marietta, Pa. (site 296), the peak stage was 3.8 feet higher than that of the 1936 flood. The greatest peak discharge determined for the Susquehanna River was 1,130,000 cfs at the short-term gaging station at Conowingo, Md. (site 302).

Discharge hydrographs at selected gaging stations on the Susquehanna River are shown in figure 37. Pictures of flooding along the Susquehanna are shown in figures 38–44.

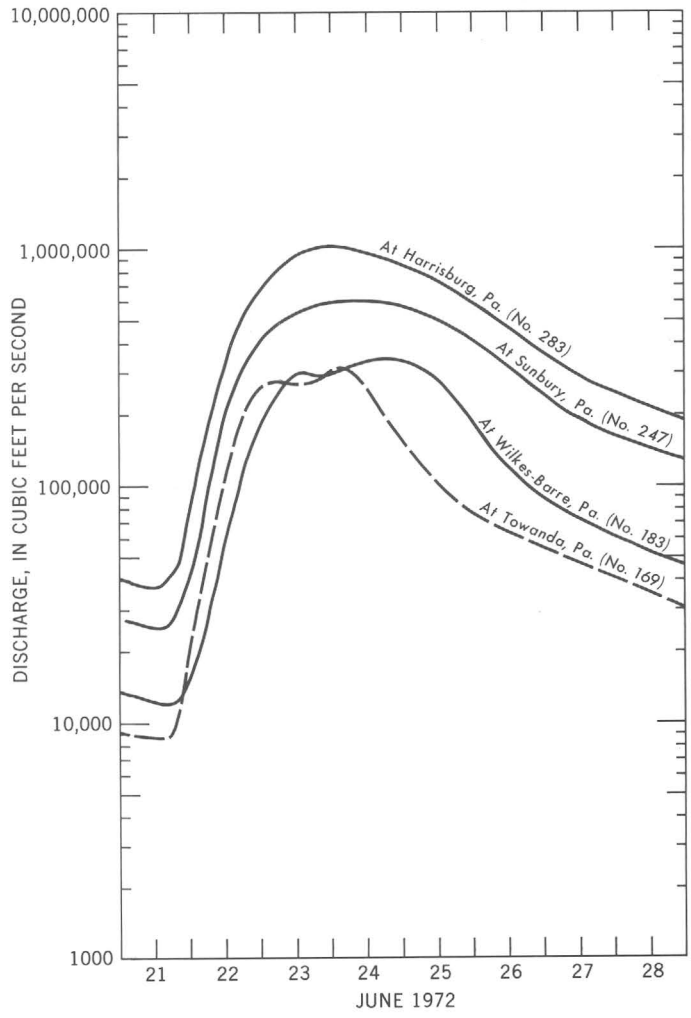


FIGURE 37.—Discharge hydrographs at selected gaging stations on Susquehanna River, June 21–28, 1972.



FIGURE 38.—Susquehanna River at Wyoming, Pa. Photograph by Pennsylvania Army National Guard.

SUSQUEHANNA RIVER TRIBUTARIES

Some of the most destructive flooding occurred on the Chemung River and its principal tributaries, the Tioga, the Canisteo, and the Cohocton Rivers. Peak discharges having recurrence intervals greater than 100 years were recorded at most gaging stations in the basin, and only a few of the more unusual will be enumerated. On the main stem of the Tioga River, peak discharges were almost two times those previously known at the gaging station at Tioga, Pa. (site 113), Lindley, N.Y. (site 117), and Erwins, N.Y. (site 145), for periods of record beginning in 1939, 1930, and 1919, respectively, and the peak stage of Tioga was 2.3 times higher than that of the historic flood of 1889. High floodflows also occurred in the Canisteo River basin, but some reduction of peak flow was effected by flood storage in Arkport Reservoir on Canisteo River and Almond Lake on Canaceda Creek. (See table A–5.) Even with flood storage, the peak flow of Canisteo River at West Cameron, N.Y. (site 140), exceeded the previous maximum for the period of record 1937–72 and also exceeded the historic peak of 1935.

Extreme flooding occurred throughout the Cohocton River basin. The peak discharge of Cohocton River at Avoca, N.Y. (site 150), was about four times that of the previous maximum since at least 1939, but the peak near Campbell, N.Y. (site 158), was slightly less than that of the flood of 1935. The peak flow of Mud Creek near Savana, N.Y. (site 157), a tributary to Cohocton River, was more than three times the previous maximum since at least 1939.

Flooding along the Chemung River downstream from the confluence of Tioga and Cohocton Rivers



FIGURE 39.—Susquehanna River at Kingston, Pa. Photograph by Pennsylvania Army National Guard.

greatly exceeded any previously known. Flood peaks moving down the two tributary streams arrived at their juncture at about the same time setting the stage for unprecedented high flows along the main stem of the Chemung River. A peak discharge of 235,000 cfs occurred near Big Flats, N.Y. (site 162). The peak discharge of 189,000 cfs recorded at Chemung, N.Y. (site 167), was about 1.5 times that of the previous maximum since at least 1904. The peak stage was about 8 feet higher than the previous maximum known.

Extreme flooding occurred on streams between Chemung and West Fork Susquehanna Rivers, except for tributary streams draining the area north of the Susquehanna River between Towanda and Wilkes-Barre, Pa., which experienced only moderate flooding. The flood peak of Towanda Creek near Monroeton, Pa. (site 170), was the greatest since at least 1914, and that for Fishing Creek near Bloomsburg, Pa. (site 189), was almost two times the previous maximum since at least 1939. Peaks at both sites had recurrence intervals greater than 100 years.

Flooding in the West Branch Susquehanna River basin was reduced to some extent by storage in flood-control reservoirs, but the lower reaches of West Branch Susquehanna and some of its uncontrolled tributaries experienced peak flows greater than previously known. In the upper part of the basin, peak flows were generally slightly lower than those for the outstanding flood of 1936 but exceeded those of other known floods. Even with reservoir regulation, the peak discharges of West Branch Susquehanna River at Williamsport, Pa. (site 236), and Lewisburg, Pa. (site 245), exceeded those of the 1936 flood and were the greatest known since at least 1889. Without flood storage, it is estimated that peak stages would have been about 4 feet higher. (See table A–5.) The most outstanding peak flows on tributary streams occurred in the



FIGURE 40.—Susquehanna River at Wilkes-Barre, Pa. Photograph by Pennsylvania Army National Guard.

lower part of the basin. Flooding was particularly severe in the Pine Creek, Lycoming Creek, and Loyalsock Creek basins north of Williamsport, where peak flows far exceeded any previously known. At the most downstream gaging station on West Branch Susquehanna River at Lewisburg, Pa., the peak discharge of 300,000 cfs was only slightly less than that for the Susquehanna River just upstream from their confluence.

Extreme flooding occurred on all tributary streams between West Branch Susquehanna River and Juniata River. The peak discharge of Penns Creek, at Penns Creek, Pa. (site 249), was more than two times the previous maximum since at least 1930, and that for East Mahantango Creek near Dalmatio, Pa. (site 250), was almost seven times the previous maximum for the same period. The stage at Dalmatio was 13 feet higher than that of the 1933 flood, the highest previously known. Wiconisco Creek at Lykens, Pa. (site 251), experienced a peak discharge of 18,700 cfs from a drainage area of 29.0 square miles, and the peak discharge of Rattling Creek near Lykens (site 252) was 13,500 cfs from 18.9 square miles.

Floodflows in the Juniata River basin, though outstanding, were generally less than those for the 1936 flood. The uncompleted dam on Raystown Branch near Huntingdon, Pa. impounded about 159,000 acre-feet of flood waters in Raystown Lake during the flood, thus reducing peak flows on Raystown Branch and on Juniata River downstream from Raystown Branch. Peak flows of the main stem of Juniata River were generally the greatest since the 1936 flood; at the most downstream gaging station at



FIGURE 41.—Susquehanna River at Enola, Pa. Photograph by Pennsylvania Army National Guard.

Newport, Pa. (site 274), discharge was almost as great as that of the 1936 flood and would have been greater had it not been for upstream flood storage.

There are no large streams tributary to Susquehanna River downstream from Juniata River, but extremely high rates of runoff occurred on most small tributary streams from Juniata River to Chesapeake Bay. In general, peak flows were the greatest known and have recurrence intervals greater than 100 years.

The peak discharge of Stony Creek near Dauphin, Pa. (site 278), was about five times the previous maximum known since at least 1939, and that of Yellow Breeches Creek near Camp Hill, Pa. (site 286), was about three times greater than the previously known maximum in 1915. The maximum discharge recorded for Swatara Creek at Harper Tavern, Pa. (site 288), was more than two times the previous maximum known since at least 1919, but was exceeded by that of the historic flood of 1889. The maximum peak discharge for West Conewago Creek near Manchester, Pa. (site 290), was about two times that of the 1933 flood, and the maximum for Conestoga Creek at Lancaster, Pa. (site 298), was about four times greater. The 1933 flood was the greatest known since at least 1929. The 1972 peak stage for Conestoga Creek at Lancaster, Pa. was 10.5 feet higher than that in 1933.

Discharge hydrographs at selected gaging stations on Susquehanna River tributaries are shown in figure 45.

SMALL BASINS TRIBUTARY TO CHESAPEAKE BAY

Streams discussed in this section are west-bank tributaries to Chesapeake Bay in Maryland between the Susquehanna and Potomac Rivers. Consistently high rates of runoff were experienced throughout these basins with most peak flows at gaging stations



FIGURE 42.—Susquehanna River at City Island at Harrisburg, Pa. Photograph by Pennsylvania Army National Guard.

exceeding previously known maximums. Recurrence intervals for peak flow for many sites were around 100 years or more.

In the Gunpowder River basin the most outstanding flood occurred on Baisman Run. A peak discharge of 38,000 cfs was determined at the gaging station at Broodmoor, Md. (site 317), from a drainage area of 59.8 square miles. This was more than six times the maximum previously known during the period of record beginning in 1945.

Peak flows of streams in the Beck River basin were not unusual and were considerably less than those in 1971.

Record-breaking floods occurred throughout the Patapsco River basin. The peak flow of North Branch Patapsco River at Cedarhurst, Md. (site 325), was seven times the previous maximum since at least 1946, and the stage was 10.4 feet higher. A peak flow of 80,600 cfs was experienced on Patapsco River at Hollofield, Md. (site 330). This discharge was more than four times the previous maximum for the period of record beginning in 1949, and the peak stage was almost 12 feet higher than that of the outstanding flood of 1933. A peak discharge of 7,400 cfs from a drainage area of 5.52 square miles occurred on Dead Run at Franklintown, Md. (site 335).

Flooding in the small South River basin was insignificant.

In the Patuxent River basin flooding was quite severe upstream from the confluence of Patuxent and Little Patuxent Rivers and, to a lesser degree, along the main stem of the Patuxent River downstream to Chesapeake Bay. Flooding on tributary streams in the lower part of the basin was not unusual. The peak discharge of Patuxent River near Laurel (site 343) was more than two times the previous maximum since at least 1945, and the peak discharge of 35,400 cfs for Little Patuxent River at Savage was about six times that of the previous maximum since at least 1940. The stage was about 8 feet higher than that of the 1933 flood.



FIGURE 43.—Susquehanna River at Harrisburg, Pa. Photograph by Pennsylvania Army National Guard.

POTOMAC RIVER BASIN

Flooding in the Potomac River basin upstream from Hancock, Md. was not unusual, and peak flows on the main stem of the Potomac River throughout its entire length were considerably less than those of previous floods. Floodflows in the lower reaches of the river were relatively greater than those upstream owing to extremely high rates of runoff from tributaries downstream from the Shenandoah River. Recurrence intervals of floods at the five gaging stations on the Potomac River, at Paw Paw, W. Va., at Hancock, Md., at Shepherdstown, W. Va., at Point of Rocks, Md., and near Washington, D.C., were determined as 5, 7, 18, 40, and 30 years, respectively, with the greater recurrence intervals in the lower reaches of the river reflecting high rates of runoff from tributaries downstream from Shenandoah River. The peak discharge of 347,000 cfs at Point of Rocks, Md. (site 437), was exceeded by the historic floods of 1889 (460,000 cfs), 1936 (480,000 cfs), and 1943 (418,000 cfs). Although flooding on the main stem of the Potomac River and its principal tributary, the Shenandoah River, were not outstanding, peak flows on some of the smaller downstream tributaries were probably the most outstanding in the entire report area. Discharge hydrographs at selected gaging stations on the Potomac River are shown in figure 46.

Peak flows on the Shenandoah River were not exceptional except on a few small tributary streams. The peak discharge of 103,000 cfs at Millville, W. Va. (site 433), had a recurrence interval of 18 years and was only the fourth largest flood since 1924.

Peak flows on most north-bank Potomac River tributaries from Conococheague Creek at Fairview, Md. to Rock Creek at Washington, D.C., exceeded previously known maximums and had recurrence intervals estimated to be greater than 100 years. Conococheague Creek at Fairview, Md. (site 399),



FIGURE 44.—Susquehanna River at Steelton, Pa. Photograph by Pennsylvania Army National Guard.

experienced a peak discharge of 32,400 cfs. This is the greatest known discharge at the site and is about 1.5 times that of the flood of 1889, with a stage about 8 feet higher than the 1889 peak. In the Monocacy River basin in Maryland, the peak discharge of 22,800 cfs for Big Pipe Creek at Bruceville, Md. (site 441), was more than twice that of the previous maximum for the period of record beginning in 1948. The peak of 20,100 cfs for Liganore Creek near Frederick, Md. (site 448), was about five times the maximum for the period of record beginning in 1933. The Monocacy River at Jug Bridge near Frederick, Md. (site 449), had a peak discharge of 81,600 cfs, exceeding maximums of the floods of 1889 and 1933.

Some other long-term gaging station sites on north-bank Potomac River tributaries experiencing outstanding peak flows were: Bennett Creek at Park Mills, Md. (site 450), about three times previous maximum since at least 1949; Seneca Creek at Dawsonville, Md. (site 963), greatest since at 1931; and Rock Creek at Sherrill Drive, Washington, D.C. (site 475), twice the previous maximum since at least 1930. The peak discharge for North Branch Rock Creek near Norbeck, Md. (site 473), was 10,100 cfs from a drainage area of only 9.73 square miles, and that for Northwest Branch Anacostia River at Norwood, Md. (site 478), was 3,750 cfs from a drainage area of 2.45 square miles. Peak discharges at other gaging stations on this stream were two to three times previous maximums for periods extending back to 1924.

Except for the Shenandoah River, extremely severe flooding occurred on most south-bank Po-

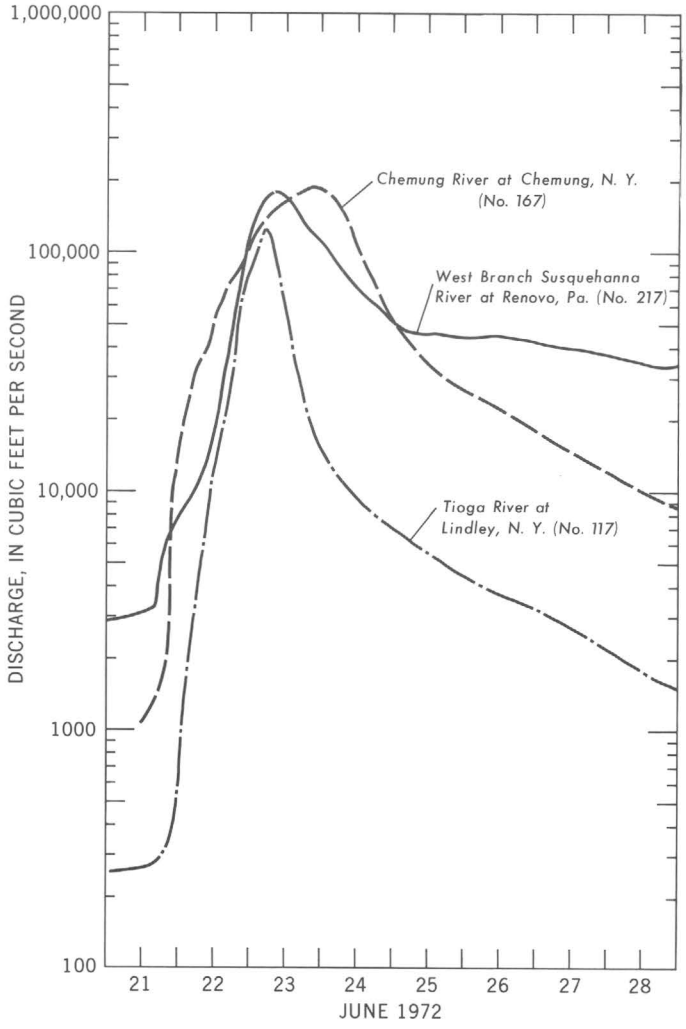


FIGURE 45.—Discharge hydrographs at selected gaging stations in the Susquehanna River basin, June 21–28, 1972.

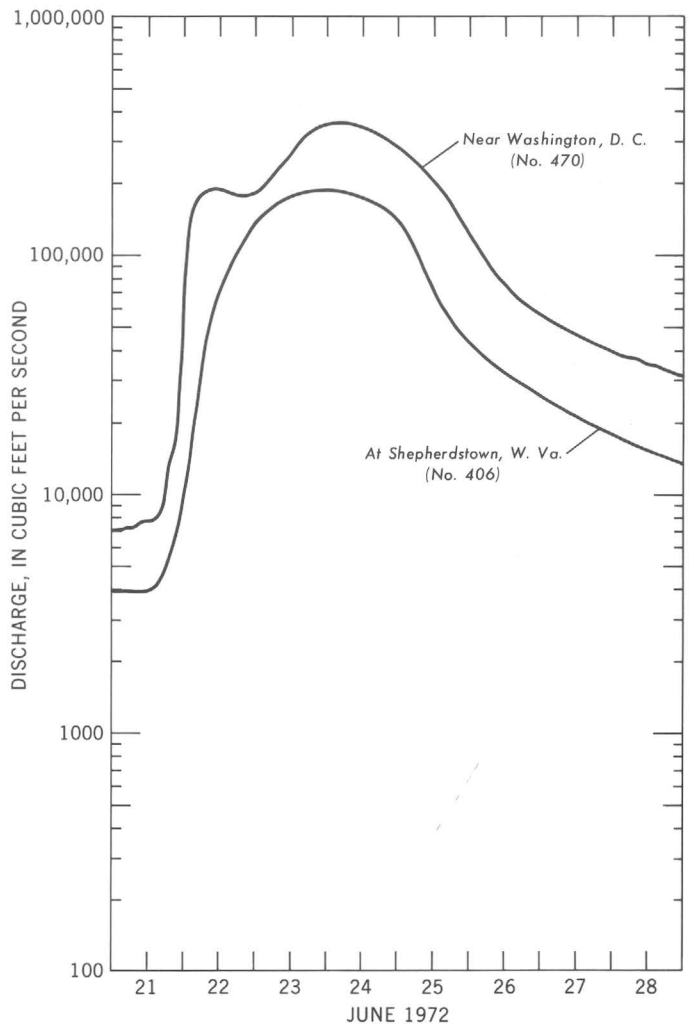


FIGURE 46.—Discharge hydrographs at selected gaging stations on Potomac River, June 21–28, 1972.

tomac River tributaries in West Virginia and Virginia from just west of Winchester, Va., and Martinsburg, W. Va., to Alexandria and Quantico, Va., in the east. Flooding on some of the streams in this area was even more outstanding than on north-bank tributaries, with estimated recurrence intervals exceeding 100 years at many sites. The peak discharge of 19,000 cfs on Opequon Creek near Martinsburg, W. Va. (site 402), exceeded the maximum for the period of record beginning in 1948 and was about the same as that of the 1936 flood. Flooding in the Leesburg, Herndon, Manassas, and Occoquan area west and south of Washington, D.C., was particularly severe. Peak discharge exceeding 1,000 cfs per square mile on small streams were common. Peak data for some streams in this category are tabulated below.

Report No.		*Drainage area (sq mi)*	*Maximum discharge* (cfs)	*Maximum discharge* (cfs per sq mi)
455	South Fork Broad Run near Arcola, Va.	4.12	4,180	1,010
456	Frying Pan Branch near Herndon, Va.	1.50	1,840	1,230
457	Horsepen Run at Sully Road, near Herndon, Va.	7.20	8,250	1,140
494	Long Beach at Vienna, Va.	1.18	1,280	1,080
505	Bull Run near Catharpin, Va.	25.8	39,400	1,530
506	Cub Run near Chantilly, Va.	7.13	8,300	1,160
507	Cain Branch near Chantilly, Va.	1.67	2,200	1,320
508	Flatlick Branch at Sully Road near Chantilly, Va.	5.92	6,600	1,120
510	Big Rocky Run at Sully Road near Centreville, Va.	6.10	7,100	1,160

Peak flows for larger streams were equally outstanding. The peak discharge of 78,100 cfs at the gaging station on Goose Creek near Leesburg, Va. (site 452), was about twice those of the floods of 1899, 1937, and 1942. At Difficult Run near Great Falls, Va. (site 468), the peak discharge of 32,200 cfs was about five times the previous maximum for the period of record beginning in 1935. Cedar Run near Catlett, Va. (site 500), experienced a peak flow of 38,600 cfs, which is about 5.5 times the previous maximum for the period of record beginning in 1951. The stage was about 6 feet higher than that for the outstanding flood of 1942. The peak discharge of 36,000 cfs for Cub Run near Centreville, Va. (site 509), was about 16 times that experienced during 1961–72. Bull Run at Manassas, Va. (site 511), had a peak discharge of 76,100 cfs, about six times the maximum during 1951–72. The peak discharge of 56,400 cfs for Occoquan River near Manassas, Va. (site 504), greatly exceeded the maximum previously known. Figures 47 and 48 show pictures of Occoquan River at Virginia State Highway 123 bridge and at Occoquan Dam. Figures 49 and 50 show discharge hydrographs at selected gaging stations on Potomac River tributaries.

RAPPAHANNOCK RIVER AND YORK RIVER BASINS

Flooding in the Rappahannock and York River basins was less severe than in the Potomac River basin to the north or the James River basin to the south. However, peak discharges having recurrence intervals of 50 years or more did occur at some sites in the basins. Peak discharges on the main stem of the Rappahannock River were probably the third largest since at least 1908 and were exceeded only by the floods of 1937 and 1942. The Rapidan River near Culpeper, Va. (site 535), experienced a peak discharge of 55,600 cfs, the second highest since at least 1931, having a recurrence interval of about 50 years. The small stream of Harpers Run near Morrisville, Va. (site 528), had a peak discharge of 1,900 cfs from 2.28 square miles. This peak was estimated to have a recurrence interval greater than 100 years.

In the York River basin, peak flows were generally slightly lower than those during the 1969

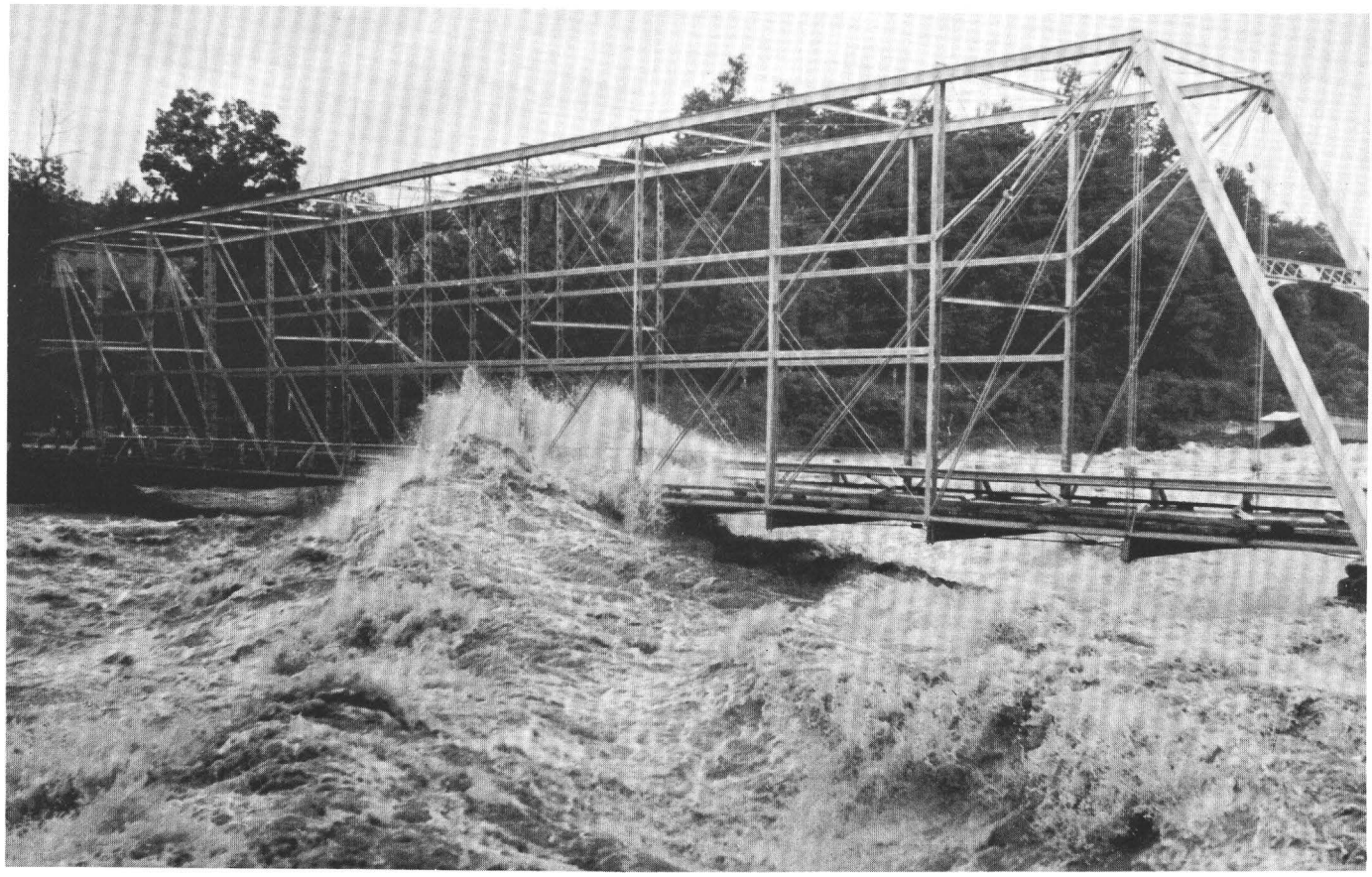


FIGURE 47.—Occoquan River at Virginia State Highway 123 bridge at Occoquan, Va., just prior to destruction of bridge. Photographed by Paul Muse, Potomac News.



FIGURE 48.—Occoquan River at Occoquan Dam at Occoquan, Va. Washington Evening Star photograph.

flood. The peak flow of 23,300 cfs on North Anna River near Doswell, Va. (site 546), had a recurrence interval of about 75 years and was slightly less than that of the 1969 flood. It was the second highest since at least 1927. The flood peak of the Mattaponi River near Beulahville, Va. (site 556), exceeded that of the 1969 flood and was the greatest since at least 1942. The peak discharge of 16,900 cfs is estimated to have a recurrence interval greater than 100 years. Outstanding peaks were also recorded for several small streams in the York River basin as follows: Bunch Creek near Boswells Tavern, Va. (site 548), 2,580 cfs, drainage area 4.37 square miles; Harris Creek near Trevilians, Va. (site 549), 2,310 cfs, drainage area 3.31 square miles; and Po River near Spotsylvania, Va. (site 554), 10,900 cfs, drainage area 77.4 square miles. Recurrence interval at each of these small-stream sites is estimated to exceed 100 years.

JAMES RIVER BASIN

Some of the worst flooding in the report area was experienced in the James River basin, particularly on the main stem of the James River. Peak flows upstream from Lynchburg, Va., though outstanding, were not unprecedented. Flooding on the James River downstream from Lynchburg was the greatest known since at least 1870; peak flows were considerably greater than those for the flood of 1969, which at the time, was considered to be the flood of the century. Peak stages downstream from Lynchburg were from 3 to 4 feet higher than in 1969. Information on flood-crest elevations along the James River are shown in table A–4. The peak discharge determined at main stem gaging stations ranged from 66,300 cfs at Lick Run, Va. (site 564), drainage area 1,373 square miles, to 362,000 cfs at Cartersville Va. (site 608), drainage area 6,257 square miles. The 1972 peak discharge at Cartersville was more than 100,000 cfs greater than that of 1969.

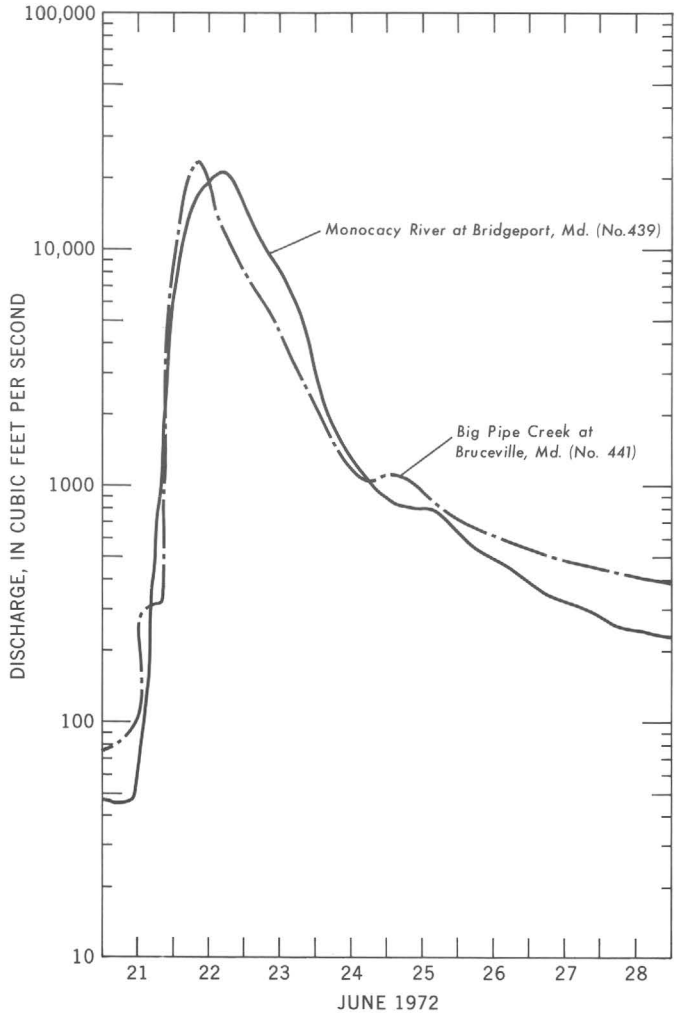


FIGURE 49.—Discharge hydrographs at selected gaging stations in the Potomac River basin in Maryland, June 21–28, 1972.

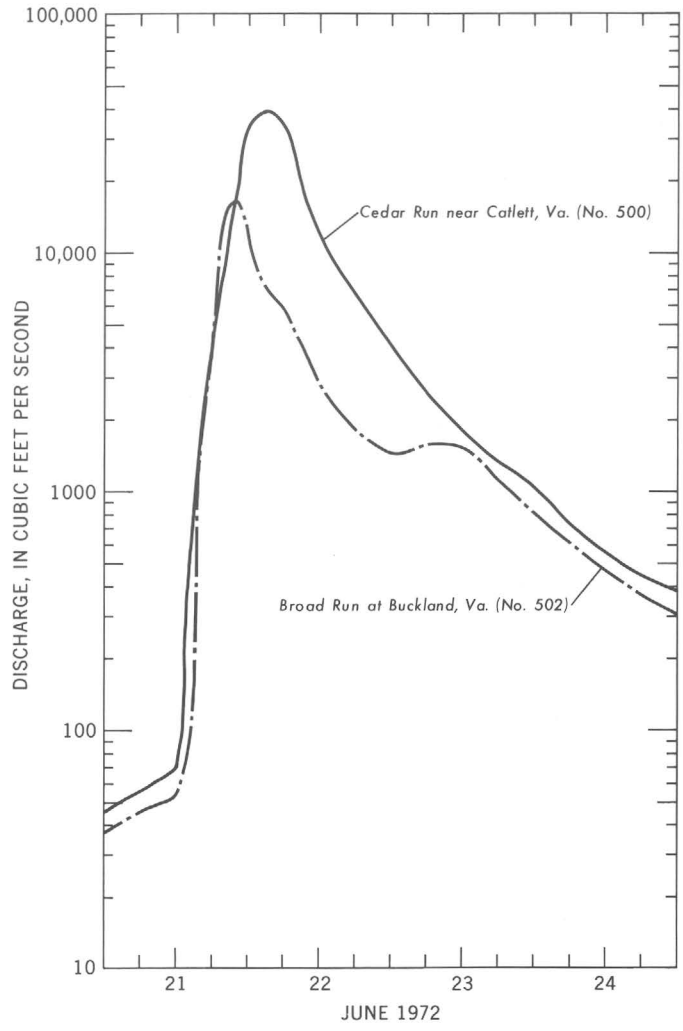


FIGURE 50.—Discharge hydrographs at selected gaging stations in the Potomac River basin in Virginia, June 21–24, 1972.

Although there was some attenuation of peak discharge downstream from Cartersville the maximum discharge determined at the gaging station near Richmond, Va. (site 612), was 313,000 cfs, almost 100,000 cfs more than that experienced during the 1969 flood. Figures 51 and 52 are pictures of the James River at Maiden, Va., and at Richmond near the peak of the flood showing part of the inundated area. Figure 53 shows a plot of discharge hydrographs for selected gaging stations on James River in Virginia. Estimated recurrence intervals of peak flows at gaging stations on the James River range from about 25 years at Lick Run to about 100 years at Buchanan, Va., and exceeded 100 years at sites downstream from Lynchburg, Va.

Severe flooding occurred on tributary streams in the James River headwaters in the vicinity of Covington, New Castle, and Catawba. The peak discharge of Dunlap Creek near Covington, Va. (site 560), was the highest since at least 1929 as was that for Potts Creek near Covington, Va. (site 561). At New Castle, Va., the peak discharge for Johns Creek (site 567) was about the same as that experienced in 1935, which was the greatest since at least 1927. Peak flow for Craig Creek near Parr, Va. (site 569), was the highest since at least 1926; that for Catawba Creek at Catawba, Va. (site 570), was the greatest since at least 1944, but it was exceeded by an outstanding flood in 1936. Recurrence intervals of peak flows in this area ranged from about 50 years to more than 100 years.

Flooding on tributary streams between Buchanan and Scottsville, although extensive, were not record breaking. In contrast, floods in the Hardware, Slate, Rivanna, and Willis River basins entering James River between Scottsville and Cartersville were very



FIGURE 51.—James River at U.S. Highway 522 at Maiden, Va. Photograph by Virginia Dept. of Highways.



FIGURE 52.—James River at Mayos Bridge at Richmond, Va. Photograph by Virginia Dept. of Highways.

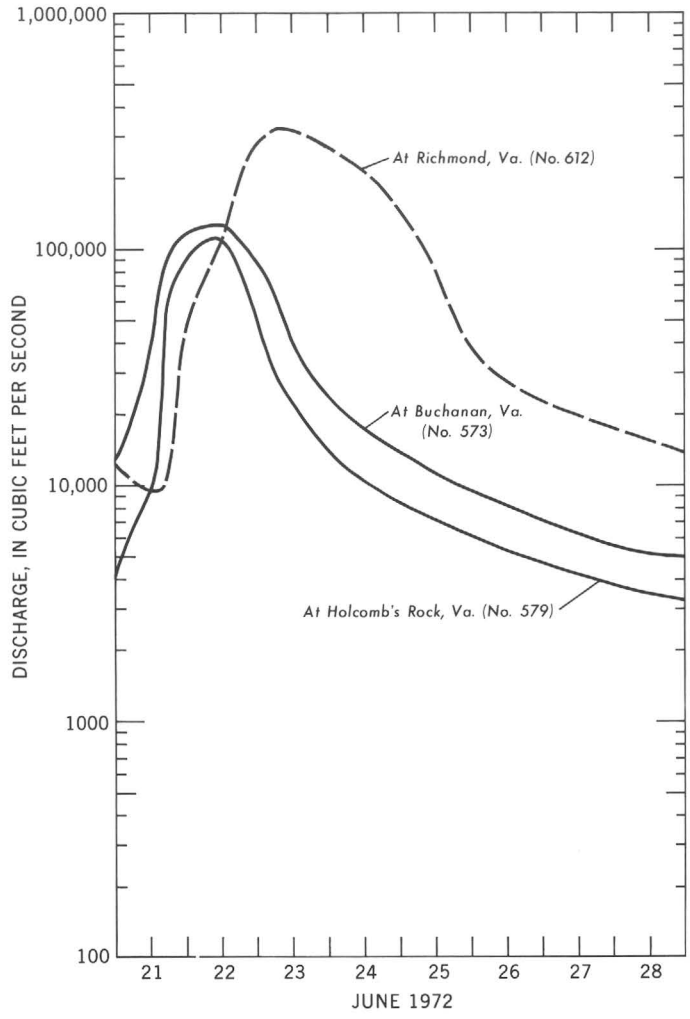


FIGURE 53.—Discharge hydrographs at selected gaging stations on James River, June 21–28, 1972.

outstanding and were generally the greatest known. The peak discharge of 42,200 cfs for Slate River near Arvonia, Va. (site 592), is 1.5 times the previous known maximum since at least 1927 and has a recurrence interval greater than 100 years. Severe flooding was experienced throughout the Rivanna River basin with peak discharges at several sites having recurrence intervals greater than 100 years. A peak discharge of 18,000 cfs from a drainage area of only 13.6 square miles was experienced on Lynch River near Nortonsville, Va. (site 600), a tributary to Rivanna River. On Rivanna River at Palmyra, Va. (site 605), the peak discharge of 73,400 cfs was second only to that of the 1969 flood, which was the highest during the period of record beginning in 1934. The maximum stage of Willis River at Flanagan Mills, Va. (site 607), was about 6 feet higher than the previous high since at least 1927.

The Appomattox River basin upstream from Mattax, Va., experienced record breaking floods with recurrence intervals of peak flows exceeding 100 years at most gaged sites. The peak discharge of Holiday Creek near Andersonville, Va. (site 615), was 9,640 cfs from a drainage area of 8.53 square miles, more than 1,000 cfs per square mile. On the Appomattox River at Farmville, Va. (site 617), the peak flow of 33,100 cfs was about 1.5 times that of the previous maximum for the period of record beginning in 1927. Downstream from Mattoax the peak rate of runoff from tributary streams was not outstanding, and there was attenuation of peak discharge along the lower reaches of the Appomattox River. The peak flow of Appomattox River at Matoaca (site 621) was only 22,800 cfs or about two thirds that experienced at gaging station at Farmville.

CHOWAN RIVER AND ROANOKE RIVER BASINS

Flooding in the Chowan River basin was outstanding only in the upper Nottoway and Meherrin River basins in the vicinity of Keysville, Victoria, and Blackstone. The peak flows of Nottoway River near Burkeville, Va. (site 623), and Nottoway River near Rawlings, Va. (site 626), were slightly less than those for the 1971 flood, which were the greatest since at least 1947 and 1951, respectively. The peak discharge for North Meherrin River near Keysville, Va. (site 634), was the greatest since at least 1949. Flooding in other parts of the Chowan River basin was not significant.

Extremely high flows occurred on the Roanoke River and its tributaries upstream from Smith Mountain Lake. Record-breaking peaks were experienced at gaging stations; South Fork Roanoke River near Shawsville, Va. (site 640), Roanoke River at Lafayette, Va. (site 641), Roanoke River at Roanoke, Va. (site 642), Tinker Creek near Daleville, Va. (site 643), and Roanoke River at Niagara, Va. (site 644). Peak discharge at each of these sites had a recurrence interval estimated to be greater than 100 years. Records of peak flows on the three long-term gaging stations on Roanoke River above Smith Mountain Lake indicate that the 1972 flood was probably the greatest since at least 1899.

Flooding was alleviated in the Lower Roanoke River Basin below Leesville by operations of the flood-control reservoirs, Smith Mountain Lake and Leesville Lake. Operations of these two reservoirs are described in more detail in a later section entitled "Effect of Regulation." As a result of flood storage in Smith Mountain and Leesville Lakes and

diminished tributary inflow downstream, peak flows of the Roanoke (Staunton) River were not outstanding. The peak discharge at the gaging station on Roanoke (Staunton) River at Altavista, Va. (site 651), was reduced from 77,000 cfs to 37 300 cfs according to information furnished by U.S. Army Corps of Engineers (see table A–6). Peaks were reduced to a lesser extent downstream from this site.

Severe flooding occurred on tributary streams in an area just north of Brookneal, Va., at the gaging station on Falling River near Naruna, Va. (site 656). The peak discharge was the greatest for the period 1930–34, 1940–72 and is about 1.5 times that of the 1940 flood.

Unusually high rates of runoff also occurred in the Dan River basin upstream from Smith River. The peak flow at several gaging stations exceeded previously recorded maximums. The peak flow of 54,200 cfs on Dan River near Wentworth, N.C. (site 671), was about 1.5 times the previous maximum for the period of record beginning in 1940 but was exceeded by the flood of 1908. The peak discharge of Mayo River near Price, N.C. (site 669), was slightly less than that of the 1937 flood and was the second highest since at least 1930. Flood storage in Philpot Lake on Smith River reduced what would have been near record-breaking peaks on that stream to only moderate flooding. Some reduction of peak flows on Dan River downstream from Smith River was also affected. Even with flood storage in Philpot Lake, the peak discharge of 64,800 cfs for Dan River at Paces, Va. (site 682), was the greatest since at least 1951 and the peak stage exceeded that of the 1940 flood by about 1 foot.

Flood flows in the remainder of the Roanoke basin were not outstanding. Flood storage in John H. Kerr Reservoir effectively controlled flows in the Roanoke River downstream from the reservoir. A computed peak inflow of 141,000 cfs into the reservoir was reduced to 25,200 cfs peak outflow.

OHIO RIVER BASIN

Although considerable flooding occurred along the main stem of the Ohio River, peak flows were reduced considerably by flood storage in Allegheny Reservoir on the Allegheny River and many flood control reservoirs on tributary streams (see table A–7). At Sewickley, Pa. (site 842), the peak stage was 10.3 lower than that of 1936, the previous maximum since at least 1934. At St. Marys, W. Va. (site 843), the peak stage was 8.2 feet lower than the 1943 flood (greatest since at least 1939) and 15.7 feet lower than the historic flood of 1913, which was the greatest since at least 1884. At Huntington, W. Va. (site 873), the most downstream point for which records are included in this report, the 1972 peak stage was 26.4 feet lower than that for the great flood of 1937.

In addition to the data shown for the main stem Ohio River, flood data for the Allegheny River basin, Monongahela River basin, and the Kanawha River basin are contained in this report. Discharge hydrographs at selected gaging stations in the Ohio River basin are shown in figure 54.

ALLEGHENY RIVER BASIN

The upper Allegheny River and its tributary streams in New York and Pennsylvania experienced record breaking floods following the Hurricane Agnes storm. The peak discharge of 3,000 cfs for Newell Creek near Port Allegheny, Pa. (site 701), was about four times the previous maximum since at least 1960. At Allegheny River at Elrod, Pa. (site 704), the peak discharge of 65,400 cfs was the greatest since at least 1940, and the peak discharge of

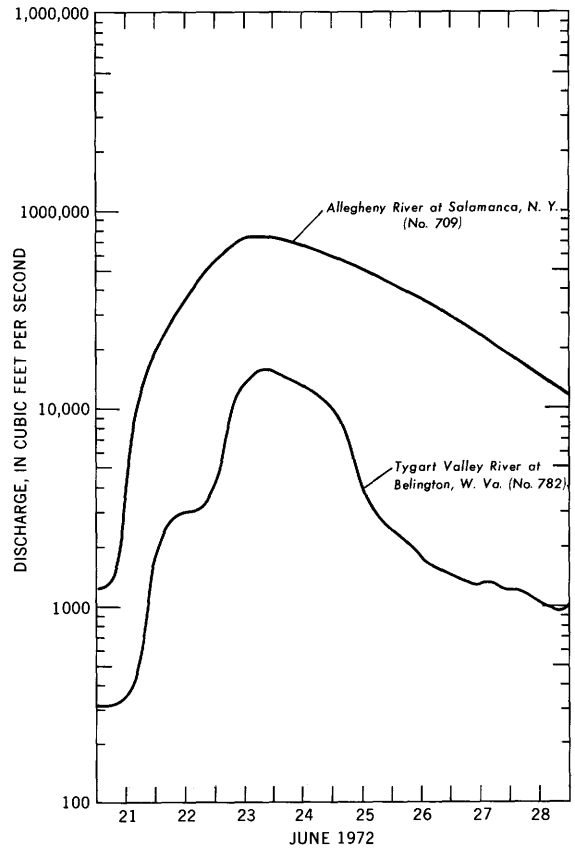


FIGURE 54.—Discharge hydrographs at selected gaging stations in the Ohio River basin, June 21–30, 1972.

73,000 cfs recorded for Allegheny River at Salamanca, N.Y. (site 709), was about 1.5 times the previous maximum since at least 1904.

The Allegheny Reservoir greatly reduced peak flows downstream. At the gaging station on Allegheny River at Warren, Pa. (site 712), the U.S. Corps of Engineers estimated the peak flow under natural conditions would have been about 94,000 cfs, about 1.5 times the previous maximum since at least 1936. The regulated peak flow was only 25,000 cfs and occurred June 28, about 5 days after the peak reservoir inflow. Comparable reduction in peak flows were effected at other points along the Allegheny River between Allegheny Reservoir and its confluence with the Monongahela River. This reduction was caused by flood storage in numerous reservoirs on tributary streams as well as that in Allegheny Reservoir (see table A–7). Had it not been for flood storage in the basin during the storm, record peak flows would have been experienced throughout the length of the Allegheny River; however, with storage, only moderate flooding was experienced on the main stem downstream from Warren, Pa.

Outstanding and, in some cases, record-breaking floods occurred on unregulated tributary streams in the entire Allegheny River basin. Even with regulation by West Branch Clarion River Lake, the peak flow of 53,300 cfs for Clarion River at Cooksburg, Pa. (site 745), was only slightly less than the previous maximum since at least 1935, and the peak flow of 74,500 cfs for Clarion River near Piney, Pa. (site 746), was about 1.5 times the previous maximum for the same period. Record peaks were experienced at long-term gaging stations on Mahoning Creek at Punxsutawney, Pa. (site 751), and Little Mahoning Creek at McCormick, Pa. (site 752), with periods of record beginning in 1936 and 1940, respectively. The peak discharge of 13,200 cfs for Crooked Creek at Idaho, Pa. (site 756), was the greatest for the period of record beginning in 1937 and was only slightly less than that for the historic flood of 1936.

Outstanding flood flows occurred in the upper reaches of the Kiskiminetas River upstream from Conemaugh River Lake and Loyalhanna Lake. Peak discharges for Blacklick Creek at Josephine, Pa. (site 763), and Two Lick Creek at Graceton, Pa. (site 768), were about two times that for the previous maximums since at least 1952. Peak flows on the upper Loyalhanna Creek were also outstanding. On the lower Kiskiminetas River, peak flows were greatly reduced by flood storage in upstream reservoirs.

MONONGAHELA RIVER BASIN

In general the flooding in the Monongahela River basin was not as severe as that in the Allegheny River basin. In the upper reaches of the basin, flood flows were outstanding only in the Tygert Valley River drainage. The peak flow of 15,800 cfs recorded at gaging station on Tygert River at Belington, W. Va. (site 782), was slightly less than that of 1967, which was the greatest since the flood of 1912. The peak flow of Middle Fork River at Audra, W. Va. (site 783), was the greatest since at least 1943, and that for Tygert Valley River at Philippi, W. Va. (site 788), was only slightly less than the previous maximum for the period of record beginning in 1940. Flooding in the West Fork River basin was insignificant; that in the Cheat River basin, although severe in some areas, was not record breaking. High flows were experienced, however, on Deckers Creek (site 800) and Corbun Creek (site 799) at Morgantown, W. Va., with peak discharges having recurrence intervals of about 50 years.

Flooding along the main stem of the Monongahela River was severe but considerably reduced by flood storage in upstream reservoirs. Peaks were considerably less than those experienced in 1967.

Flooding in the Youghiogheny River basin, principal tributary to the Monongahela River was not noteworthy except in the lower reaches of the main stem, where peak flows approached those of previously experienced maximums. The peak discharge of Youghiogheny River at Suttersville, Pa. (site 838), was 83,000 cfs, as compared with the previous maximum of 108,000 cfs in 1954 for the period of record 1921–72.

KANAWA RIVER BASIN

Only about one thind of the Kanawha River basin is in the area covered by this report. The Greenbrier River, the Gauley River above Sommersville Dam, and the Elk River above Sutton Dam are included. This basin is in a fringe area in regards to high rates of runoff, and flooding was noteworthy only in scattered localities. The most outstanding floods in the basin occurred on east bank tributaries of the Greenbrier River in the vicinity of Anthony and White Sulphur Springs, W. Va. High peak flows were recorded on Anthony Creek near Anthony (site 853), Dry Fork at White Sulphur Springs (site 854), Howard Creek at Caldwell (site 855), and Second Creek near Second Creek (site 856). Peak discharge at each of these sites was a maximum for the period of record. Records for only site 856 extended back as far as 1946.

STREAMS TRIBUTARY TO LAKE ERIE AND LAKE ONTARIO

That part of the Lake Erie and Lake Ontario drainage systems in which significant flooding occurred lies between Buffalo, N.Y., in the west and Rome, N.Y., in the east and is entirely within the State of New York. Data for only a few Lake Erie tributaries south and east of Buffalo are included in the report. Within that general area, the most severe flooding occurred in the upper Chautauqua Creek basin. A peak flow of 7,730 cfs was measured for Chautauqua Creek at Barcelona, N.Y. (site 874), from a drainage area of 36.0 square miles, with an estimated recurrence interval greater than 100 years. Near record flows for period of record extending back to about 1940 were also experienced on Buffalo Creek at Gardenville, N.Y. (site 881), and Cazenovia Creek at Ebenezer, N.Y. (site 883). The peak flow of 8,800 cfs for Cayuga River near Lancaster, N.Y. (site 882), was the greatest since at least 1939.

There was no significant flooding on the Niagara River tributaries nor on Lake Ontario tributaries between the Niagara River and the Genesee River; data for this area is not included in this report. Flooding in the Genesee River basin upstream from Mount Morris Lake was extreme, and most peak flows had recurrence intervals estimated to be greater than 100 years. Peak flows on tributary streams were generally greater than any previously known. A few of the more outstanding peak flows determined are: Fullmer Valley Creek near Hallsport, N.Y. (site 889), 3,200 cfs (drainage area 11.8 square miles), Chenunda Creek at Stannards, N.Y. (site 891), 9,200 cfs (drainage area 30.6 square miles), and Indian Creek near Andover, N.Y. (site 896), 929 cfs (drainage area 1.07 square miles). At the long-term gaging station on the Genesee River at Scio, N.Y. (site 900), the recorded peak discharge of 41,000 cfs was almost two times the previous maximum for the period of record beginning in 1917, and the peak discharge of 90,000 cfs recorded on the Genesee River at Portageville, N.Y. (site 913), was about two times the previously experienced peak since at least 1909. The peak stage of 35.25 feet at Portageville was 12.3 feet higher than for the 1967 flood, which was the highest previously known. A discharge hydrograph for Genesee River at Portageville is shown in figure 55. Flood storage in Mount Morris Lake, (site 914) prevented what would have been a disastrous flood along the lower reaches of the Genesee River. Water stored in the lake increased from about 7 260 acre feet (elev. 603.1 feet) on June 20 to 322,600 acre feet

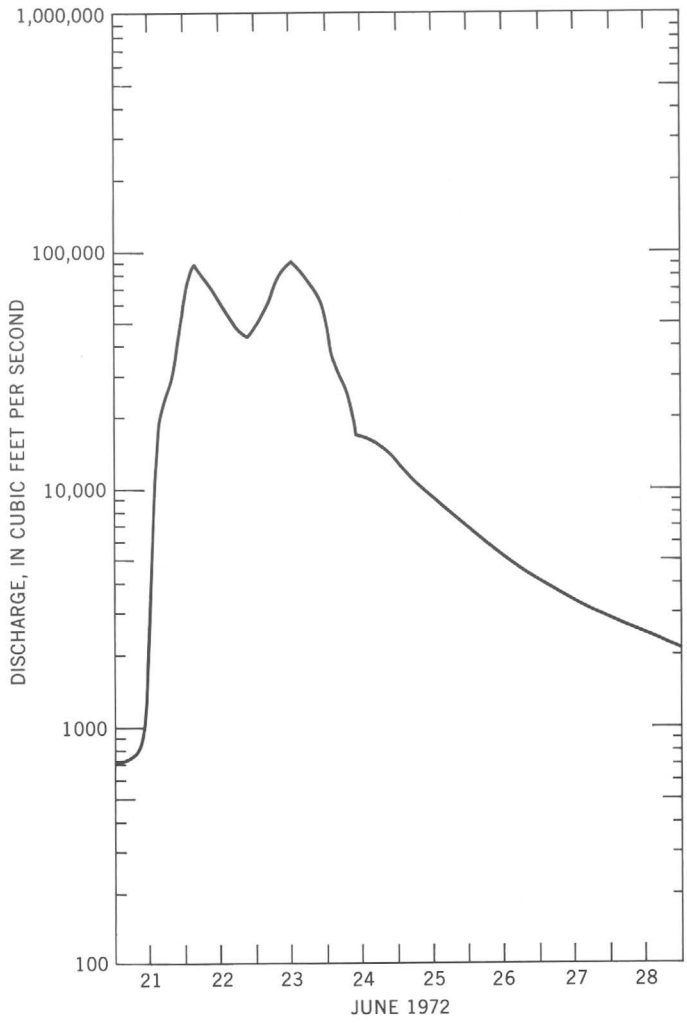


FIGURE 55.—Discharge hydrographs of Genesee River at Portageville, N.Y., June 21–28, 1972.

(elev. 755.46 ft) June 25, or an increase of about 315,000 acre feet and a rise in lake level of more than 152 feet. The peak lake level was about 36 feet higher than the previous maximum since the reservoir was completed in 1951. Flooding on Genesee River tributaries downstream from Mount Morris Lake, though not as extreme as that experienced on upstream tributaries, was still severe. Even though peak flows on the lower Genesee River were greatly reduced, the peak discharge of 29,600 cfs (gage height, 15.89 ft) at Rochester, N.Y. (site 933), is only slightly lower than that of the 1942 flood, 34,400 cfs (gage height, 17.08 ft), which was the maximum since the flood of 1927.

Flooding upstream from Cayuga Lake in the vicinity of Ithaca was noteworthy, and peak flows on streams were the greatest known, some having recurrence intervals estimated to be greater than 100 years. The peak discharge of 4,800 cfs for

Cayuga Inlet near Ithaca, N.Y. (site 947), was the greatest since at least 1937, and the peak flow of 11,800 cfs at a downstream gaging station in Ithaca (site 949) was outstanding. Peak discharge of Canandaigua outlet at Chapin, N.Y. (site 963), was the greatest since at least 1940; that of Flint Creek at Potter, N.Y. (site 964), was more than five times the previous maximum since 1964. Outstanding flooding also occurred in the vicinity of Lake Owasco and Lake Skaneateles. The peak flow of Owasco outlet near Auburn, N.Y. (site 969), was the greatest since at least 1913, with a recurrence interval estimated to be greater than 100 years. Peak flows from Seneca River at Baldwinsville, N.Y. (site 971), and Onondaga Creek at Darwin, N.Y. (site 973), exceeded previously recorded maximums for periods beginning in 1950 and 1952, respectively. Severe flooding also occurred both upstream and downstream from Oneida Lake, with the peak flow of East Branch Fish Creek at Talberg, N.Y. (site 981), being the greatest since at least 1924.

Records of lake elevations have been collected for 10 natural lakes in that part of Lake Ontario drainage in the report area. During the 1972 flood, maximum elevations for periods of record were recorded at nine of these lakes, and the maximum elevation of the remaining lake, Owasco Lake near Auburn, was virtually the same as the previous maximum for the period of record beginning in 1912.

SEDIMENTATION

The extremely high floods on most streams caused widespread movement and deposition of sediment. Sediment yield, especially on the large streams, was unusually high owing to the widespread flooding.

Erosion and deposition, physical processes related to sedimentation, contributed significantly to the damage. Wyoming Valley near Wilkes-Barre and Harrisburg, both on the Susquehanna River, suffered heavy damage from sedimentation. Dramatic evidence of the erosive capability of a large stream is shown in figure 56.



FIGURE 56.—Erosion on flood plain of Susquehanna River at Old Fort, Pa. Photograph by Media Affiliates, Inc. Wilkes-Barre, Pa.

Damage by erosion was not confined to natural or undeveloped areas. Developed areas were also ravaged by the high flows, as can be seen in figure 57.

Overbank areas, natural and developed, bordering on the major streams experienced deposition. Extensive amounts of sand, silt, and mud were deposited in these areas. A typical example of such a deposition can be seen in figure 58. The sediment particles deposited on the flood plains were generally sand-grain size or finer.

The Schuylkill River at Manayunk, Philadelphia, Pa., Susquehanna River at Harrisburg, Pa., and Potomac River near Point of Rocks, Md., for flood periods of June 22–27, 21–30, and 21–26, respectively, carried a combined total of 9,649,000 tons of sediment. This amount of sediment is equivalent to approximately 0.5 inch of soil from a 200-square-mile area. The Susquehanna River carried the most sediment—by virtue of having the largest drainage basin. During the specified flood periods, the Susquehanna and Schuylkill Rivers transported approximately three times their average annual sediment load, while the Potomac River transported 1.5 times its average annual load. The normal sediment load for a 3-year period at Harrisburg on the Susquehanna River and at Philadelphia on the Schuylkill River was exceeded in 10 days and 6 days, respectively, while 1.5 times the normal annual sediment load was carried past Point of Rocks in 6 days.

Conestoga Creek at Lancaster, Pa., experienced the highest runoff and sediment load per square mile of any other major stream, followed, in decreasing order, by the Schuylkill, Susquehanna, and Potomac Rivers. The extremely high sediment yield per square mile shown for Stave Run near Reston, Va., reflects the extensive urban development in progress in the basin immediately preceding the flood. The Schuylkill River was the muddiest, transporting, on the average, 3.10 tons/cfs-day, while the Susquehanna River transported 1.76 tons/cfs-day and the Potomac River, 1.46 tons/cfs-day.

Data on water and sediment discharge for the Susquehanna River at Harrisburg, Pa., during June



FIGURE 57.—Road washout in Shickshinny, Pa. Photograph by Media Affiliates, Inc., Wilkes-Barre, Pa.

21–30 are shown in figure 59. The data show that well-defined suspended-sediment-concentration peaks were experienced at Harrisburg, with the maximum peak concentration preceding the peak stage. The maximum suspended-sand concentration was well defined and preceded the maximum stage experience by more than 24 hours.

Sediment data collected during the flood period are summarized in table A–8.

FLOOD-CREST ELEVATIONS

Information on flood-crest elevations was obtained for about 1,290 stream miles in the flood area. About 1,030 miles of the profile data are for streams in the Susquehanna River basin.

These data include maximum stages recorded or observed at gaging stations, as well as many high-water elevations determined from field surveys made after the flood crest. The streams for which data were obtained are listed below in downstream order.

Streams tributary to Long Island Sound
- East Branch Byram River
- Blind Brook
- Mamaroneck River
- Sheldrake River
- Hutchinson River

Hudson River basin
- Sawmill River

Delaware River basin
- Schuylkill River

Susquehanna River basin
- Susquehanna River
- Tioga River (head of Chemung River)
  - Canisteo River
  - Cohocton River
- Chemung River
- Seeley Creek
- West Branch Susquehanna River
- Penns Creek
  - Middle Creek
- Mahoney Creek
- East Mahantango Creek
- Pine Creek
- Wiconisco River
  - Rattling Creek
- Juniata River
- Sherman Creek
- Conodoguinet Creek
- Paxton Creek
- Yellow Breeches Creek
  - Mountain Creek
- Swatara Creek
  - Little Swatara Creek
- West Canewago Creek
- Codorus Creek
- Conestoga Creek
- Pequa Creek
- Muddy Creek

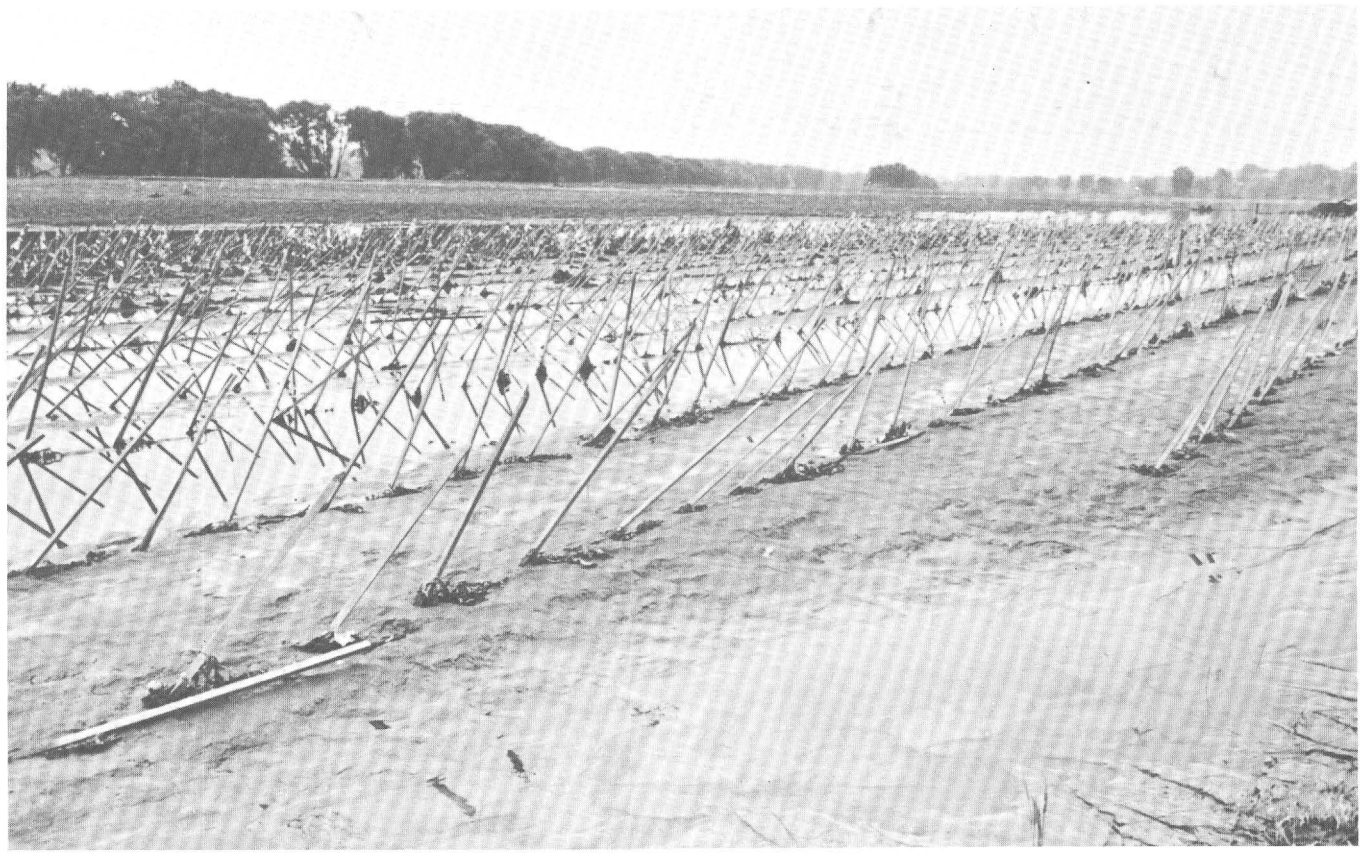
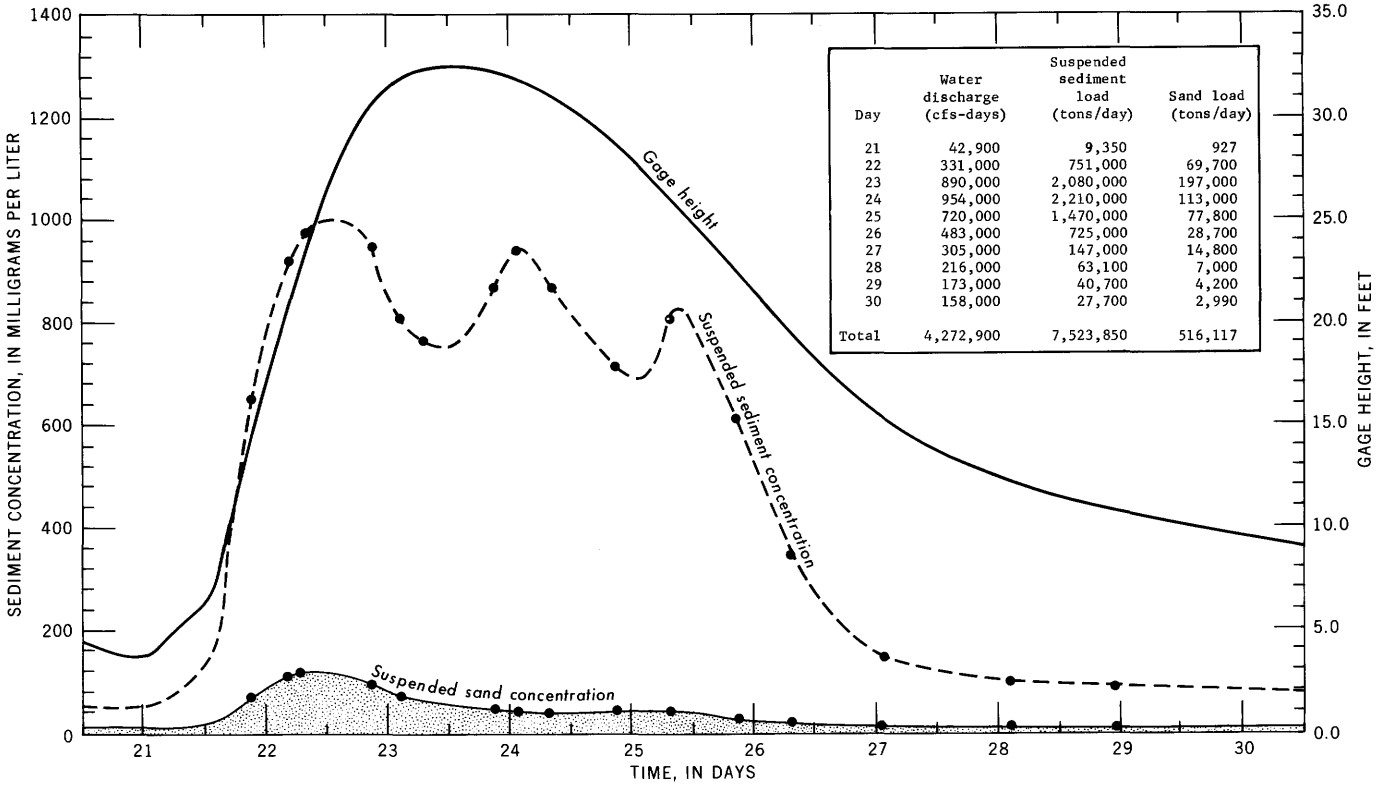


FIGURE 58.—Deposition on farmland bordering Susquehanna River near Exeter, Pa. Photograph by Media Affiliates, Inc., Wilkes-Barre. Pa.



Day	Water discharge (cfs-days)	Suspended sediment load (tons/day)	Sand load (tons/day)
21	42,900	9,350	927
22	331,000	751,000	69,700
23	890,000	2,080,000	197,000
24	954,000	2,210,000	113,000
25	720,000	1,470,000	77,800
26	483,000	725,000	28,700
27	305,000	147,000	14,800
28	216,000	63,100	7,000
29	173,000	40,700	4,200
30	158,000	27,700	2,990
Total	4,272,900	7,523,850	516,117

FIGURE 59.—Graph of water and sediment discharge, Susquehanna River at Harrisburg, Pa., June 21–30, 1972.

Potomac River basin
Conococheague Creek
West Branch
Monocacy River
James River basin
James River
Allegheny River basin
Allegheny River

Flood-crest elevations for streams tributary to Long Island Sound and for Sawmill Creek in the Hudson River basin are listed in table A–2. Flood crests in this area occurred June 19 and were caused by a frontal storm which struck just prior to Hurricane Agnes, which caused flooding in the rest of the area covered by this report.

Profile data for James River in Virginia are listed for the floods of 1936 and 1969, as well as for the 1972 flood. The 1972 flood was considerably higher than the earlier floods in the lower part of the basin. Profile data for James River are shown in table A–4.

Flood-crest data for streams other than those listed above are included in table A–3. Flood crests on streams listed in this table occurred during June 22–24, and the date of occurrence is shown when known, or it can be estimated from the time of occurrence recorded at gaging stations for other points along the streams.

EFFECT OF REGULATION

Reservoir storage during the flood period substantially reduced the magnitude of peak flows in some basins. In other basins the effect of regulation was not significant. Storage was supplied by reservoirs primarily designed for flood control as well as those constructed for water supply or hydroelectric-power generation. Some of the effects of regulation were briefly discussed in a previous section describing the floods. The effect of regulation on peak flow is discussed in the following sections for those basins where the effect is probably significant. Data presented in this report are adapted from information furnished by the U.S. Army Corps of Engineers.

SUSQUEHANNA RIVER BASIN

Peak flows of the Susquehanna River upstream from the Chemung River were only slightly reduced owing to the operation of flood-control structures on the Ouleout Creek and Otselic River. Natural runoff in the Susequehanna River basin above Waverly was relatively light, as compared to that downstream.

Peak flows on the upper Canisteo River in the Chemung River basin, in the reach from Hornell to Canisteo, were materially reduced by storage in Arkport Reservoir and Almond Lake. However, the effect on peak reduction rapidly diminished downstream as a result of extremely high flows from unregulated tributary streams, and peak reduction was not significant downstream from the confluence of the Canisteo and Tioga Rivers.

Reservoir storage in the West Branch Susquehanna River basin significantly reduced peak flows on the main stem of the river from Curwensville Reservoir near Curwensville to its confluence with the Susquehanna River. Peak flows were also reduced on the following tributary streams: First Fork Sinnemahoning Creek and Sinnemahoning Creek (First Fork Sinnemahoning Creek Reservoir), Kettle Creek (Kettle Creek Lake), and Bald Eagle Creek (Foster Joseph Sayers Lake). The stage reduction on West Branch Susquehanna River ranged from about 7 feet just downstream from Curwensville Reservoir to about 4 feet near its confluence with Susquehanna River.

Construction of Raystown Dam on Raystown Branch Juniata River was not complete at the time Hurricane Agnes struck, but storage above the dam caused a considerable reduction in peak flows on Raystown Branch and on the Juniata River downstream from Raystown Branch. The estimated peak-stage reduction on Juniata River ranged from 4.6 feet at Mapelton Depot, Pa., to 3.3 feet at Newport, Pa.

Estimated stage reduction on the main-stem Susquehanna River was less than 1 foot upstream from West Branch Susquehanna and between 1 and 2 feet downstream.

Effects of reservoir storage in the Susquehanna River basin are summarized in table A–5. This table lists the major reservoirs in the basin, shows the available storage at the beginning of the storm, the amount of water stored during the storm, and peak inflow, if determined. The reduction of peak stage and discharge are shown for selected points downstream from the reservoirs. The report numbers listed are the same as those used to identify the site descriptions in a later section entitled "Streamflow Data." These numbers are also used to identify the location of sites shown on plate 1.

SMALL BASINS TRIBUTARY TO CHESAPEAKE BAY

Reservoirs in the area, although designed for municipal water supply for Baltimore, Md., and suburban Washington, D.C., did store water during the storm and consequently caused some reduction of peak flows on streams below these reservoirs. The storage space used during the flood in 5 water-supply reservoirs in the area are as follows.

Report No.	*Name and location of reservoir*	*Storage space used (acre-ft)*
311	Pretty Boy Reservoir on Gunpowder Falls near Hereford, Md.	7,600
318	Loch Raven Reservoir on Gunpowder Falls near Carney, Md.	21,900
326	Liberty Reservoir on North Branch Patapsco River near Marriottsville, Md.	19,000
341	Triadelphia Lake on Patuxent River near Laurel, Md.	5,500
342	T. Howard Duckett Reservoir near Laurel, Md.	4,600

ROANOKE RIVER BASIN

Storage of floodwaters in four major reservoirs in the Roanoke River basin in Virginia was effective in reducing peak flows for the June–July 1972 flood. Smith Mountain Lake and Leesville Lake on the Roanoke River reduced peak flows of the Roanoke River from Leesville Dam to John H. Kerr Reservoir. Reduction in stage in this reach ranged from about 9 feet at Altavista, Va., to about 4 feet at Randolph, Va.

Peak flows along the Smith River in Virginia and North Carolina were substantially reduced by flood storage in Philpott Lake on Smith River. The reduction in stage ranged from more than 9 feet at Bassett, Va., to about 3 feet at Eden, N.C. Flood flows on the Dan River downstream from Smith River were reduced to a lesser degree. Reduction in stage along the Dan River ranged from about 3 feet at its confluence with Smith River to less than a foot at the upper end of John H. Kerr Reservoir.

Floodflows from John H. Kerr Reservoir were completely controlled by storage in the reservoir. The peak inflow to the reservoir was computed as 141,000 cfs. The maximum average daily reservoir release was 25,200 cfs and occurred after flood peaks from downstream tributary streams had passed.

The effect of reservoir storage in the basin is summarized in table A–6.

OHIO RIVER BASIN

Three subbasins of the Ohio River drainage system—the Allegheny River basin, the Monongahela River basin, and the Kanawha River basin—are within the report area. Reservoir storage in the Allegheny and Monongahela River basins caused considerable reduction of peak flows on these streams as well as on the main stem of the Ohio River downstream from their confluence.

The Allegheny Reservoir on the Allegheny River stored about 526,000 acre-ft of water during June 20–27 and completely controlled flood flows at that point. A maximum inflow to the reservoir of 88,000 cfs on June 23 was computed with the maximum outflow of 25,000 cfs occurring June 27.

Reservoir storage on tributary streams also contributed to the reduction of peak flows. In addition to the Allegheny Reservoir, there are seven other flood-control reservoirs in the Allegheny River basin that contributed significantly to peak-flow reduction. These reservoirs are listed in table A–7. At the beginning of the storm, space for storage of 1,292,-010 acre-ft of water was available in the Allegheny Reservoir and the 7 flood-control reservoirs on tributary streams. Of the available storage space, 1,051,-640 acre-ft, or about 81 percent of that available, was used to store floodwater. Peak flows on the Allegheny River were reduced from what would been record stages and discharges to moderate flooding.

Conemaugh River Lake, the second largest reservoir in the Allegheny River basin, stored 233,150 acre-ft of water and reduced the computed inflow of 99,100 cfs to an outflow of 25,900 cfs. Storage in this reservoir contributed significantly to peak reduction on the Allegheny and Ohio Rivers.

Flood storage in the Monongahela River basin contributed to a lesser degree to reduction of peak flows. Tygart Lake on Tygart Valley River and Youghiogheny River Lake on Youghiogheny River are the largest reservoirs in the basin, but only Tygart Lake had an appreciable effect on peak-flow reduction. The computed peak inflow to Tygart Lake was 52,000 cfs and the peak outflow was 16,800 cfs. The reduction of peak discharge on the Monongahela River at Greensboro, Pa., was estimated to be about 35,000 cfs, and that at Charleroi, Pa., to be about 42,000 cfs. Peak runoff from the area above Deep Creek Reservoir (hydro-electric storage) and Youghiogheny River Lake was not great; consequently, storage in these reservoirs did not significantly affect peak flows farther downstream.

Reservoir storage, mostly in the Alleghney River basin, reduced peak flows in the Ohio River main stem significantly. Peak-discharge reduction ranged from about 224,000 cfs at Sewickley, Pa., to about 155,000 cfs at Huntington W. Va. The peak stage was reduced by about 11 feet at Sewickley and about 10 feet at Huntington. Without reservoir storage the flood of 1972 at Sewickley would have been the greatest since at least 1934. With storage, the flood was only the third highest during this period.

The effect of reservoir storage in the Ohio River basin is summarized in table A–7.

STREAMS TRIBUTARY TO LAKE ONTARIO

Flood storage in Mount Morris Lake near Mount Morris, N.Y., virtually controlled flood flows at the reservoir outlet and prevented disastrous flooding on the Genesee River downstream from Mount Morris. The peak discharge of 90,000 cfs at a gaging station on the Genesee River at Portageville was about twice the previous maximium since at least 1909, whereas, downstream from the reservoir, the peak discharge of 17,800 cfs recorded at Avon, N.Y., was only about one-third of that of the flood of 1916. A large part of the 17,800 cfs was contributed by Canaseraga Creek which enters Genesee River downstream from Mount Morris Lake. The peak discharge of the Genesee River at Rochester, N.Y., was only about half the previous known maximum.

Natural storage in numerous lakes on streams tributary to Lake Ontario moderated the magnitude of peak flows downstream from these lakes.

DETERMINATION OF FLOOD DISCHARGE

The discharge at a gaging station is usually determined from a stage-discharge relation (rating curve) defined by current-meter measurements at various stages. The reliability of the stage-discharge relation is dependent on how well the experienced range in stage is covered by current-meter measurements. Fairly reliable extensions of rating curves to about twice the measured discharge can generally be made by logarithmic plotting, from velocity-area or slope-conveyance studies, or by use of other hydraulic principles.

The peak stages and discharges on many streams during the June 1972 flood greatly exceeded those previously known. Current-meter measurements were obtained where possible; however, the wide areal extent of the flood and the short period (June 22–24) during which the peak flows occurred made it impossible to obtain such measurements at many gaging stations. Measuring facilities were destroyed or overtopped, and access roads or bridges were inundated or washed out at many sites. Even if the site were accessible, reliable current-meter measurements could not have been made on many small streams owing to the short duration of the peak flow. Despite these difficulties, current-meter measurements were obtained at, or near, peak stage, and rating curves were reliably defined at many gaging stations.

At those sites where available current-meter measurements were inadequate to define the stage-discharge relation for extreme flows, it was necessary to determine peak discharge by indirect measurements, such as slope area, contracted opening, flow through culvert, flow over highway embankment, flow over dam, and others. These indirect measurements are based on field surveys of high-water marks, channel geometry, and geometry of hydraulic structures, such as bridges, culverts, highway embankments, and dams. The measurements are indirect only in the sense that the data are collected after the passage of the peak discharge rather than by direct observation of the flow. Techniques used by the Geological Survey in determining peak discharge by indirect methods are described in selected chapters in the series Techniques of Water Resources Investigations of the United States Geological Survey.

STREAMFLOW DATA AT GAGING STATIONS AND MISCELLANEOUS MEASURING SITES

SUMMARY OF PEAK STAGES AND DISCHARGES

Maximum stage and discharge information (contents and pool elevations for reservoirs) for 989 sites in the flood area is summarized in table A–1. This summary includes peak data for daily discharge gaging stations, reservoir gaging stations, crest-stage gaging stations, flood-hydrograph gaging stations, and miscellaneous sites. Sites are listed in the downstream order used in U.S. Geological Survey Water-Supply Papers since 1951 and are identified by a report number (a sequential number assigned to each of the 989 sites) and by the permanent eight-digit number used in Geological Survey annual series of surface-water reports. Some miscellaneous sites are identified only by a report number. Numbers used in the table correspond to those used to identify the site descriptions in a later section entitled "Streamflow Data." The report numbers are used to identify the locations of sites shown on plate 1.

In the table summarizing peak stages and discharges (table A–1), the first column under maximum flood previously known, the period of known floods, is not necessarily the same as the period for which the gaging stations have been operated. For instance, if a gaging station has been operated since 1942 but experienced a flood in 1936 for which the peak stage and discharge has been determined to be the greatest since at least 1891, the period of known floods would be shown as 1891–1972, and the peak stage and discharge for the 1936 flood would be listed. If only the stage of the 1936 flood is known, two periods will be shown. The period 1891–1972 will be listed with only the stage of the 1936 flood given. The next line will show the period 1942–72, with the maximum stage and discharge for that period shown. If the 1936 peak was the greatest known for the period 1891 to the time the gage was installed in 1942 but was subsequently exceeded by a flood in 1969, the period of known floods would be 1891–1972, and the peak stage and discharge for the 1969 flood will be listed. If it is not known whether the 1936 flood is the greatest for a given period of time, the periods of known floods will be shown as 1942–72, and information for the 1936 flood will be shown on the next line.

The recurrence interval shown in the last column is the average interval of time in which the peak discharge during June–July 1972 can be expected to be exceeded once. Methods of determining the recurrence interval are explained in the section titled "Flood Frequency." If the recurrence interval is estimated to be greater than 100 years, it is not listed, and the symbol indicating that the recurrence interval is greater than 100 years is shown.

STATION DESCRIPTION AND DISCHARGE TABLES

Information on stage and discharge (elevation and contents for reservoir stations) for 989 sites in the flood area is given. At some sites sediment data are also shown. The data generally consist of a station description, a table of daily mean discharges for June–July 1972, and a table of stages and discharges at indicated times during the period of severe flooding. Comparable sediment data are included where available. At miscellaneous sites and at crest-stage stations where only peak stage and discharge are known, only the station description is included. For some sites classified as continuous-record or flood-hydrograph gaging stations, malfunction of the recording gage during critically high flow periods did not permit inclusion of a table of stages and discharges at indicated times. This table was also omitted in some cases where the magnitude of the peak flow was relatively insignificant.

The station description gives information relative to the location of the site, size of drainage area upstream from the site, nature of gage-height record obtained during the period covered by this report, datum of the gage, definition of the stage-discharge relationship, maximum stage and dis-

charge during June–July 1972, maximum stage and discharge known prior to this flood, effect of regulation and diversion, and other pertinent information.

The table of daily mean discharge for continuous-record gaging stations or reservoir contents for June-July 1972 follows the station description. Daily mean suspended-sediment concentrations and loads are also given if these data are available. The table also shows monthly mean discharge, in cubic feet per second, and generally the monthly runoff, in inches and acre feet. If data are available, the monthly mean sediment load, in tons per day, and the monthly sediment load, in tons, are also shown. The 2 months for which data are included are adequate to show conditions for antecedent and recession periods. The table of stage and discharge at indicated times gives sufficient data to permit reproduction of stage and discharge hydrographs. Suspended-sediment concentration detailed in a similar manner is included in this table, where data are available. Only data for the period of severe flooding are included in this table.

DEATHS AND DAMAGE

Although Agnes barely reached the hurricane stage and then only for hours, she was the costliest hurricane in United States history (table 6). While it is true that gradually increasing population, industrialization, and property values tend to make the latest hurricane costlier than earlier hurricanes of equal or greater intensity, Agnes' large size was an important factor in her setting a new record for damage. Agnes and the extratropical storm each brought heavy rains over large areas. These heavy rains continued after the two systems merged. The combined rainfall produced severe flooding over a large area. That it occurred following generally wet weather over the heavily populated and industrialized Mid-Atlantic States added to its effectiveness as a producer of costly floods. The fact that the extratropical Low into which the tropical storm was absorbed stalled for a few days in the Pennsylvania-New York area, thus adding to the tropical storm rainfall, was a contributing factor, even though the heaviest rainfall occurred before the two Lows joined.

The death toll of 117 was light considering the severity of the widespread floods. Total damage was estimated to be $3.1 billion, or over twice that produced by the very violent Camille in August 1969 and exceeded the combined total damage of the two next costliest hurricanes, Camille and Betsy (1965), by $257 million (table 6). Damage and deaths in each of the 12 States affected are summarized in table 7, and the number of families suffering property losses and the nature of these losses are given in table 8. The loss of life and damage to property would very likely have been much greater had it not been for the timely weather and flood forecasts (U.S. National Oceanic and Atmospheric Administration, 1973) issued in connection with this storm. Not included in the above estimates are the seven deaths and the damage resulting from the severe flooding in western Cuba. In Pinar Del Rio, 97 homes were destroyed and another 300 damaged.

Pennsylvania.—Agnes was the worst natural disaster ever to hit Pennsylvania. Damage was so extensive that the entire State was declared a disaster area. There were 48 deaths, and damages were estimated to be $2.119 billion, or about two-thirds of the total damage wrought by Agnes. Damage in the Schuylkill River Basin alone was estimated at over $330 million. In that part of the Ohio River Basin lying within the State, damage was roughly estimated at $92 million. In Wilkes-Barre, 100,000 persons evacuated, and 60 percent of the city was inundated. Altogether, some 250,000 persons were forced

TABLE 6.— *The 10 most destructive tropical cyclones in the United States since 1930 (De Angelis, 1972)*

Storm	Year	Damage (millions of dollars)	Deaths
Agnes	1972	$3,102.6	117
Camille	1969	1,420.7	258
Betsy	1965	1,420.5	75
Diane	1955	831.7	184
Carol	1954	461.0	60
Celia	1970	453.8	11
Carla	1961	408.3	46
New England Huricane	1938	387.1	600
Donna	1960	386.5	50
Hazel	1954	251.6	95

TABLE 7.—*U.S. deaths and damage attributed to Agnes* (De *Angelis, 1972*)

State	Damage	Deaths
Pennsylvania	$2,119,269,000	48
New York	702,502,000	24
New Jersey	15,000,000	1
Maryland	110,186,000	19
Ohio	6,818,000	0
Delaware	Light	1
West Virginia	7,753,000	0
Virginia	125,987,000	13
North Carolina	6,558,380	2
South Carolina	50,000	0
Georgia	205,000	0
Florida	8,243,000	9
Total	$3,102,571,380	117

TABLE 8.—*Classification of property damage (DeAngelis, 1972)*

State	Families suffering loss	Dwellings destroyed	Dwellings, major damage	Dwellings, minor damage	Mobile homes destroyed	Mobile Homes, major damage	Farm buildings destroyed	Farm buildings, major damage	Small businesses, destroyed or major damage
Virginia	7,063	95	1,307	3,086	125	450	11	27	205
Maryland	3,479	103	866	1,664	50	43	17	44	81
West Virginia	1,946	108	344	1,214	118	91	0	10	18
Washington, D.C.	506	0	0	350	0	0	0	0	0
New York	40,090	628	4,922	27,910	135	367	92	341	1,547
Pennsylvania-New Jersey.[1]	69,860	2,321	33,412	29,455	1,266	1,908	435	1,249	3,003
Ohio	405	0	3	302	0	100	0	0	0
Florida	2,893	96	447	1,355	177	374	0	0	988
Georgia	1	0	0	0	0	1	0	0	0
North Carolina	7	0	1	0	0	6	0	0	0
Total	126,250	3,351	41,302	65.336	1,871	3,340	555	1,671	5,842

[1] Almost all damage occurred in Pennsylvania.

to evacuate their homes, and many returned to find their homes gone.

Public water and sewage facilities were flooded out in many areas, and water had to be rationed in some communities. Fires that broke out in many places burned unchecked because flooding made them inaccessible.

Crop losses were estimated to have been $120 million. The floods washed out or closed 569 bridges, and total damage to roads and bridges was estimated at $300 million. Damage to industry amounted to $1 billion.

New York.—Second only to Pennsylvania in number of deaths and damage suffered was New York, with 24 deaths and $703 million damage, of which over $157 million was in the Susquehanna River basin. About 100,000 persons had to be evacuated from their homes. Almost the entire population of Corning was forced to flee, and about half the population of Elmira had to evacuate. Fear that dams would fail led many residing below the dams to flee. Lakeshore residents were forced to move to higher ground. The overflow of some of the Finger Lakes caused damage to boats, docks, marinas, and surrounding properties. Altogether, some 5,000 homes were destroyed or badly damaged, with the greatest loss being in the Corning-Elmira area. A tragic loss was the famous Glass Museum at the Corning Glassworks, where water rose almost to the ceiling of the museum rooms, with the result that many priceless ancient glass objects were lost. Other hard hit cities were Salamanca, Olean, Hornell, and Wellsville. At Wellsville, a hospital wing collapsed as a result of flooding.

Rains and floods caused extensive damage throughout the southwestern tier and Finger Lakes counties. Greatest damage was to potatoes, corn, and hay. Dairy farmers suffered heavy losses also. Vineyards in the Naples area were inundated, and ruinous heavy rains occurred during the critical bloom stage.

The enormous damage resulting from all the above losses led to the following counties being declared disaster areas: Allegany, Cattaraugus, Cayuga, Chemung, Livingston, Ontario, Schuyler, Seneca, Steuben, Tompkins, Wyoming, and Yates.

New Jersey.—Total storm damage in New Jersey was estimated at $15 million, of which $10 million resulted from crop damage. One death was reported.

Ohio.—Northeasterly winds generated 15-foot waves and a 3.5-foot rise in the lake level along the south shore of Lake Erie, which caused damage to ships, boats, buildings, houses, docks, and cars. Other damage resulted from flooding along the Ohio River between East Liverpool and Hannibal, with Powhatan Point being hard hit. Total damage in the State was reported at slightly over $6 million. No deaths were reported.

Delaware.—One storm-connected death was reported, but damage was minor.

Maryland-District of Columbia.—The 19 deaths attributed to the storm ranked third among the death tolls in the States affected by Agnes. No deaths were reported in the District of Columbia. The $110 million in damages ranked fourth. About 1,000 homes were destroyed or suffered major damage. The following counties, including Baltimore City, were declared disaster areas: Anne Arundel, Baltimore, Carroll, Cecil, Charles, Frederick, Harford, Howard, Montgomery, Prince Georges, and Washington. Also included were the counties in the Chesapeake Bay area: Calvert, Dorchester, Kent, Queen's, St. Mary's, Somerset, Talbot, and Wicomico.

Disaster in the Chesapeake Bay counties was primarily in the form of losses to the shellfish industry, with resultant unemployment. Heavy rains cause excessive runoff into the bay, which reduces its salinity. The fresh water forms a layer on the surface of the bay. This surface layer gradually mixes with and dilutes the lower layer of salty water. Shellfish, particularly oysters, cannot survive prolonged exposure to low salinities. Also, a layer of fresh water overlying salt water with little mixing tends to reduce the amount of dissolved oxygen in the salt water. Damage to the industry was estimated to be somewhat less than that attributed to Camille in 1969.

Virginia.—In Virginia there were 13 deaths, and total damage was estimated at $126 million, the third largest loss of the States affected by Agnes. Destruction was widespread throughout the central part of the State, but was particularly heavy in the northern part, where Fairfax County reported damage estimated at $25 million, the greatest county loss by far. In the Fourmile Run drainage area, which includes parts of Arlington and Fairfax Counties, damage was estimated at $14 million.

Destruction ranged from agricultural damage on small streams to inundated cities and towns on the larger rivers, such as the Roanoke and the James, where total damage for these basins was estimated to be $20 million and $50 million, respectively. Richmond, the capital city, was hit hard. The water supply and sewage treatment plants were inundated, as were the electrical and gas plants, which were partly closed. Only one of the five bridges crossing the James River was usable. Downtown Richmond was closed for several days. Industry and business suffered much damage, and many residents were evacuated from their homes.

Other cities and towns suffering great damage included Alexandria, Buchanan, Charlottesville, Danville, Farmville, Fredericksburg, Glasgow, Lexington, Lynchburg, Manassas, Occoquan, Roanoke, Salem, Scottsville, and Waynesboro.

Altogether, through the State, some 1,400 homes were destroyed or suffered major damage. Much damage was done to highways. At the height of the flood, 600 miles (960 km) of road was under water, and 103 State highway bridges were destroyed or damaged. Most of the latter were small bridges on secondary highways.

Real tragedies occurred along the small tributaries. Most creeks and streams overflowed their banks and swept the adjacent land clean. Homes, household goods, and other possessions were washed away. Losses were lessened somewhat by timely warnings, which also kept the death toll from being higher.

West Virginia.—Most of the damage, estimated to be $7.753 million, occurred along the Ohio River between Chester and New Martinsville, with Wheeling being hit particularly hard. No deaths were reported. Some 3,000 homes and 1,500 businesses were inundated along this reach of the river. In Greenbriar County, which adjoins Virginia, Dry and Howard Creeks overflowed their banks and damaged 22 businesses and 56 homes. Five houses were destroyed. Damage there was estimated at $323,000.

North Carolina.—Two deaths were reported, and total damage in the State was estimated at $6.558 million. About two-thirds of the damage ($4.22 million) occurred in the Yadkin River basin, where 86,000 acres (about 135 mi^2, or 350 km^2) was inundated, and agricultural losses, mostly in growing crops, were estimated at $3.5 million. Flooding in Elkin, Yadkin College, and other river towns accounted for the remainder. One of the two deaths reported occurred in Surry County, when a canoe overturned, and the other, in Iredell County, when a man driving a tractor was swept away in the flood waters. In Catawba, Congaree, and Reedy River Basins, minor home and trailer damage and some crop losses were estimated at $32,000.

South Carolina.—Damage in this State was restricted to the Pee Wee River basin, where floods caused about $25,000 in crop losses.

Georgia.—Total damage was estimated at $205,000, with no deaths reported. A tornado near Douglas, Coffee County, in the afternoon of June 19, was responsible for damage estimated at $100,000. That same afternoon, another tornado near Blackshear, Pierre County, destroyed a mobile home for a loss of $5,000. Elsewhere in the State, total property damage was estimated at $80,000 and crop damage at $20,000.

Florida.—Nine deaths were reported, another 170 persons were injured, and total damage from tides, winds, and the 15 tornadoes reported on June 18–19 was estimated at $8.243 million. The tornadoes alone accounted for $4.5 million of the damage. The gulf coast counties from Monroe to Bay (Key West to Panama City) were declared disaster areas. Panama City, 18 feet (5.5 m) above mean sea level, in Bay County, suffered little damage, but low-lying coastal villages between Carrabelle and Apalachicola in Franklin County suffered great damage. Damage in Franklin County alone as a result of the

storm tides ran well over $1 million. These tides, the highest in many years, destroyed homes and businesses, washed out roads, and cut off access to many offshore islands. Pinellas County was also hit hard, particularly in the St. Petersburg area, with extensive beach erosion and shorefront property damage south to the Fort Myers area.

Inland, winds and tornadoes were responsible for the damage and most of the deaths. The following counties were declared disaster areas: Brevard, Hardee, Hendry, and Okeechobee. At Okeechobee City, a series of windstorms cut a swath 100 yards (90 m) wide through Treasure Island Park, a fishing lodge, and several other mobile home parks, killed six people, and injured another 40. Damage, including destruction of 50 mobile homes, was estimated at $500,000.

A windstorm near Ft. Denaud, Hendry County, destroyed a trailer, killing a woman and injuring her daughter. It then tore up some citrus groves and several other trailer parks near La Belle. Property damage was estimated at $200,000 and crop damage, $10,000. Other deaths included that of a child drowned in a rain-swollen stream and another caused by a heart attack attributed to the storm.

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STREAMFLOW DATA

STREAMS TRIBUTARY TO LONG ISLAND SOUND

(1) 01208900 PATTERSON BROOK NEAR EASTON, CONN.
(Crest-stage stateion)

LOCATION.--Lat 40°17'16", long 73° 17'33", Fairfield County, on right bank at culvert on State highway 59, 2.5 miles north of Easton, and 0.3 mile upstream from mouth at Tatetuck Brook.

DRAINAGE AREA.--1.21 sq mi.

GAGE HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 20 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972, Discharge, 80 cfs June 19 (gage height, 5.1 ft).
1960 to May 1972: Discharge, 90 cfs March 12, 1962 (gage height, 5.37 ft).

(2) 01208950 SASCO BROOK NEAR SOUTHPORT, CONN.

LOCATION.--Lat 41°09'10", long 73°18'23", Fairfield County, on left downstream abutment of bridge on Hulls Farm Road, 1.5 miles northwest of Southport, and 2.4 miles upstream from mouth at Long Island Sound at Southport.

DRAINAGE AREA.--7.27 sq mi.

GAGE HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. No gage height record June 17, 0200 hours to June 20, 0900 hours; gage graph reconstructed on basis of high-water mark and gage records for Saugatuck River near Redding (01208990) and Norwalk River at South Wilton (01209700). Datum of gage is 52.01 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 185 cfs and by contracted-opening measurement at 1,640 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,640 cfs 1100 hours June 19 (gage height, 7.00 ft. from floodmarks).
1961 to May 1972: Discharge, 340 cfs December 4, 1968 (gage height, 4.15 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	42	64	11...	15	11	21...	99	7.0
2....	30	34	12...	12	9.8	22...	147	6.5
3....	25	36	13...	11	44	23...	139	5.6
4....	20	49	14...	11	34	24...	163	5.0
5....	17	29	15...	11	16	25...	84	4.3
6....	16	25	16...	22	10	26...	68	4.1
7....	15	19	17...	117	9.7	27...	54	3.8
8....	14	16	18...	54	8.7	28...	37	3.7
9....	13	14	19...	785	7.8	29...	30	3.2
10...	19	12	20...	218	7.2	30...	89	3.2
						31...		3.3
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							79.2	16.3
RUNOFF, IN INCHES.....							12.16	2.59

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	2100	2.12	49	6-19	2000	5.1	750	6-20	2400	2.63	114
6-18	2400	2.25	59	6-19	2400	4.25	470				
6-19	0300	2.8	146	6-20	0400	3.75	332	6-21	1200	2.42	87
6-19	0600	4.3	485	6-20	0800	3.35	245	6-21	2400	2.61	110
6-19	0900	6.6	1,430	6-20	1200	3.06	191				
6-19	1100	7.00	1,640	6-20	1400	2.98	167				
6-19	1300	6.8	1,530	6-20	1600	2.88	151				
6-19	1600	5.8	1,030	6-20	2000	2.74	130	6-22	1200	2.59	109

(5) 01209700 NORWALK RIVER AT SOUTH WILTON, CONN.

LOCATION.--Lat 41°09'49", long 73°25'11", Fairfield County, on right bank at upstream side of bridge on Kent Road at South Wilton, 2.5 miles north of Norwalk, and 6.0 miles upstream from mouth at Norwalk Harbor.

DRAINAGE AREA.--30.0 sq mi.

GAGE HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 115.69 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 651 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 2,220 cfs 1100 hours June 19 (gage height, 4.79 ft).
1963 to May 1972: Discharge, 1,700 cfs September 14, 1971 (gage height, 4.37 ft).
Flood of October 1955 reached a stage of about 13.5 ft, present site and datum from floodmarks.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	235	258	11...	62	58	21...	460	36
2....	142	179	12...	50	50	22...	722	33
3....	116	154	13...	44	164	23...	653	28
4....	90	152	14...	40	137	24...	802	24
5....	102	121	15...	37	102	25...	475	22
6....	88	111	16...	38	72	26...	361	21
7....	75	96	17...	129	61	27...	289	19
8....	59	85	18...	102	50	28...	208	18
9....	55	75	19...	1,350	42	29...	165	16
10...	87	65	20...	643	38	30...	316	15
						31...		16
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							267	74.8
RUNOFF, IN INCHES.....							9.91	2.87

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	2000	1.93	99	6-19	1000	4.78	2,200	6-20	0600	3.30	770
6-18	2400	2.04	128	6-19	1100	4.79	2,220	6-20	1200	3.04	594
				6-19	1200	4.77	2,190	6-20	1800	2.89	504
				6-19	1400	4.51	1,910	6-20	2400	2.84	474
				6-19	1600	4.21	1,610				
6-19	0200	2.50	300	6-19	1800	3.94	1,340				
6-19	0400	3.43	874	6-19	2000	3.72	1,120				
6-19	0600	3.87	1,270	6-19	2200	3.60	1,010				
6-19	0800	4.42	1,820	6-19	2400	3.47	906	6-21	1200	2.67	385

(6) 01209770 FIVEMILE RIVER NEAR NORWALK, CONN.
(Crest-stage station)

LOCATION.--Lat 41°06'02", long 73°27'18", Fairfield County, on left bank at bridge on West Cedar Street, 1.8 miles west of Norwalk, 1.8 miles northeast of Darien, and 3.3 miles upstream from mouth at Long Island Sound at Rowayton.

DRAINAGE AREA.--8.96 sq mi.

GAGE HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by cureent-meter measurements below 840 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,600 cfs June 19, 1972 (gage height, 6.09 ft).
1962-May 1972: Discharge, 1,070 cfs March 12, 1962 (gage height, 5.10 ft).

(7) 01211700 EAST BRANCH BYRAM RIVER AT ROUND HILL, CONN.
(Crest-stage station)

LOCATION.--Lat 41°05'56", long 73°41'00", Fairfield County, on right bank at bridge on John Street, 0.8 mile west of Round Hill, 6 miles northwest of Greenwich, and 3.3 miles upstream from mouth at Toll Gate Pond on Byram River at Riversville.

DRAINAGE AREA.--1.69 sq mi.

GAGE HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by indirect, and current-meter measurements below 184 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 245 cfs June 19 (gage height, 4.19 ft).
1960 to May 1972: Discharge, 184 cfs May 28, 1968 (gage height, 3.50 ft).

(3) 01208990 SAUGATUCK RIVER NEAR REDDING, CONN.

LOCATION.--Lat 41°17'40", long 73°23'44", Fairfield County, on right bank 15 ft downstream from bridge on State Highway 53, 100 ft south of the intersection of State Highways 53 and 57, 0.8 mile upstream from Saugatuck Reservoir, one mile southwest of Redding, and 15.0 miles upstream from mouth at Long Island Sound at Westport.

DRAINAGE AREA.--20.8 sq mi.

GAGE HEIGHT RECORD.--Digital recorder tape punched at 30-minute intervals. Datum of gage is 285.42 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 385 cfs and extended above by logarithmic plotting, and area-velocity studies.

MAXIMUMS.--June-July 1972: Discharge, 851 cfs 1400 hours June 19 (gage height, 4.33 ft).
1962 to May 1972: Discharge, 2,160 cfs March 15, 1969 (gage height, 5.88 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	133	160	11...	37	37	21...	317	23
2....	90	123	12...	31	34	22...	409	20
3....	75	100	13...	28	89	23...	399	16
4....	59	93	14...	28	84	24...	468	14
5....	61	81	15...	26	57	25...	312	12
6....	46	73	16...	29	41	26...	257	11
7....	43	61	17...	113	37	27...	210	9.6
8....	36	54	18...	90	31	28...	163	9.1
9....	32	46	19...	612	26	29...	129	8.3
10...	51	41	20...	507	27	30...	203	7.8
						31...		8.0
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							166	46.3
RUNOFF, IN INCHES							8.93	2.56

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	2000	2.41	90	6-19	1200	4.24	788	6-20	0800	3.89	595
6-18	2400	2.54	110	6-19	1400	4.33	851	6-20	1200	3.80	550
				6-19	1600	4.19	754	6-20	1600	3.60	450
				6-19	2000	3.95	625	6-20	2400	3.41	355
6-19	0400	3.24	287	6-19	2400	3.87	585				
6-19	0600	3.96	630								
6-19	0800	4.21	767	6-20	0400	3.90	600	6-21	1200	3.19	272

(4) 01209600 COMSTOCK BROOK AT NORTH WILTON, CONN.
(Crest-stage station)

LOCATION.--Lat 41°12'45", long 73°27'31", Fairfield County, on right bank at bridge on Nod Hill Road at North Wilton, 1.6 miles northwest of Wilton, and 2.3 miles upstream from mouth of Norwalk River at Wilton.

DRAINAGE AREA.--3.53 sq mi.

GAGE HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 99 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 130 cfs June 19 (gage height, 3.13 ft).
1960 to May 1972: Discharge, 250 cfs September 14, 1971 (gage height, 3.91 ft).

(8) 01212100 EAST BRANCH BYRAM RIVER AT RIVERSVILLE, CONN.
(Crest-stage station)

LOCATION.--Lat 41°03'39", long 73°40'31", Fairfield County, on right bank at bridge on Riversville Road, just downstream from Merritt Parkway, 0.2 mile upstream from mouth, 3.5 miles northwest of Greenwich, and 0.2 mile upstream from mouth at Toll Gate Pond on Byram River at Riversville.

DRAINAGE AREA.--7.40 sq mi, excluding 3.70 sq mi from which Greenwich Water Company diverts entire flow into Putnam Lake.

GAGE HEIGHT RECORD.--Crest-stage only. Datum of gage is 146.77 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,090 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,700 cfs June 19 (gage height, 7.62 ft).
1963 to May 1972: Discharge, 1,040 cfs May 28, 1968 (gage height, 6.77 ft).

(9) 01299000 BLIND BROOK NEAR PURCHASE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 41°02'23", long 73°41'27", Westchester County, at bridge on Anderson Hill Road, 0.4 mile east of Lincoln Road, 0.9 mile upstream from Hutchinson River Parkway and 1.3 miles east of Purchase.

DRAINAGE AREA.--1.79 sq mi.

MAXIMUM.--June-July 1972: Discharge, 1,140 cfs June 19, from computation of flow through culvert.

(10) 01299100 BLIND BROOK TRIBUTARY AT PURCHASE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 41°02'15", long 73°42'26", Westchester County, at bridge on Anderson Hill Road, 0.3 mile upstream from dam of small pond, 0.4 mile east of State Highway 120, and 0.5 mile southeast of Purchase.

DRAINAGE AREA.--1.04 sq mi.

MAXIMUM.--June-July 1972: Discharge, 119 cfs June 19, from computation of flow through culvert.

(11) 01300000 BLIND BROOK AT RYE, N.Y.

LOCATION.--Lat 40°59'00", long 73°41'14", Westchester County, on left bank at Rye, just upstream from bridge on Theodore Fremd Avenue, 0.25 mile southwest from Penn Central Transportation Company railroad station and 0.85 mile upstream from mean high tide in Milton Harbor.

DRAINAGE AREA.--9.20 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 19 from 0900 to 1400 hours. Datum of gage is 13.05 ft above mean sea level (levels by city of Rye).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 800 cfs and by computation of flow through culvert. Discharge June 19, 0900 to 1400 hours, estimated from graph based on floodmark.

MAXIMUMS.--June-July 1972: Discharge, 2,320 cfs about 1300 hours June 19 (gage height, 12.44 ft).
1944 to May 1972: Discharge, 1,360 cfs Oct. 16, 1955 (gage height, 9.52 ft).

REMARKS.--Medium and high flows affected by detention reservoir 2 miles upstream (capacity, about 26 acre-ft at spillway level or 50 acre-ft at crest of concrete dam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	86	51	11...	11	10	21...	75	12
2....	26	26	12...	8.9	8.5	22...	251	12
3....	21	27	13...	8.2	153	23...	138	8.5
4....	48	29	14...	8.2	40	24...	110	8.2
5....	61	20	15...	7.8	22	25...	105	6.4
6....	23	20	16...	51	18	26...	78	5.7
7....	22	16	17...	157	48	27...	57	4.9
8....	15	14	18...	39	18	28...	37	4.7
9....	13	14	19...	1,070	15	29...	29	4.1
10...	17	11	20...	121	12	30...	67	4.1
						31...		4.1
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							92	21
RUNOFF, IN INCHES							11.16	2.62

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 197.

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0030	1.25	7.7	6-18	1300	1.65	31				
6-15	0745	1.27	8.5	6-18	1500	1.68	33				
6-15	1630	1.25	7.7	6-18	1530	1.83	47	6-22	0530	2.68	151
6-15	2400	1.25	7.7	6-18	1745	1.76	40	6-22	1045	2.56	133
				6-18	2215	1.81	45	6-22	1230	2.70	154
				6-18	2400	1.96	59	6-22	1915	4.31	451
6-16	1530	1.23	7.0					6-22	2045	4.40	468
6-16	1545	1.51	21					6-22	2345	3.99	390
6-16	1600	2.22	87	6-19	0115	2.27	93	6-22	2400	3.92	377
6-16	1615	2.46	118	6-19	0145	2.98	200				
6-16	1700	2.21	86	6-19	0245	3.13	227				
6-16	1715	2.23	89	6-19	0345	4.02	396	6-23	0015	3.83	360
6-16	1800	2.54	130	6-19	0745	8.05	1,170	6-23	0400	2.81	172
6-16	2045	2.83	175	6-19	0900	10.61	1,710	6-23	0830	2.38	107
6-16	2100	2.82	173	6-19	1300	12.44	2,320	6-23	1600	2.32	100
6-16	2400	2.39	109	6-19	1430	10.28	1,630	6-23	2400	2.62	142
				6-19	1945	5.53	683				
				6-19	2400	3.51	299				
6-17	0130	2.24	90					6-24	0415	2.80	170
6-17	0200	2.82	173					6-24	0530	2.76	164
6-17	0230	2.67	150	6-20	0015	3.43	278	6-24	1400	2.23	89
6-17	0300	3.06	214	6-20	0230	2.88	178	6-24	2400	1.98	61
6-17	0430	2.98	200	6-20	0900	2.48	117				
6-17	0515	3.48	293	6-20	2400	2.15	76				
6-17	0645	3.40	278					6-25	0915	1.98	61
6-17	1045	3.23	246					6-25	1045	2.01	64
6-17	1530	2.37	106	6-21	1145	1.97	53	6-25	1145	2.29	96
6-17	2045	1.95	58	6-21	1645	2.24	82	6-25	1315	2.41	111
6-17	2400	1.84	48	6-21	2115	2.52	117	6-25	1615	2.95	195
				6-21	2145	2.47	110	6-25	1645	2.96	196
				6-21	2400	2.45	107	6-25	2400	2.31	98

(12) 01300450 BEAVER SWAMP BROOK AT RYE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 40°58'48", long 73°42'04", Westchester County, at bridge on North Street in Rye, 2.0 miles upstream from gaging station at Mamaroneck (01300500).

DRAINAGE AREA.--1.64 sq mi.

MAXIMUM.--June-July 1972: Discharge, 135 cfs June 19, from computation of flow through culvert.

(13) 01300500 BEAVER SWAMP BROOK AT MAMARONECK, N.Y.

LOCATION.--Lat 40°57'21", long 73°43'07", Westchester County, on right bank just downstream from bridge on Short Street, in Mamaroneck, and 0.2 mile downstream from Brentwood Brook, 0.2 mile upstream from tidal barrier in Guion Creek, Mamaroneck Harbor.

DRAINAGE AREA.--4.71 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 24.99 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 197 cfs 2015 hours June 19 (gage height, 3.06 ft).
1944 to May 1972: Discharge, 167 cfs Mar. 12, 1962 (gage height, 3.09 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	37	15	11...	4.7	4.7	21...	56	4.7
2....	16	11	12...	4.2	4.2	22...	54	4.0
3....	11	13	13...	4.0	41	23...	70	3.5
4....	15	12	14...	3.7	26	24...	45	2.9
5....	34	9.2	15...	3.5	9.7	25...	38	2.5
6....	13	8.0	16...	18	8.4	26...	35	2.3
7....	9.2	6.8	17...	70	11	27...	26	2.1
8....	6.8	6.4	18...	31	6.8	28...	18	2.1
9....	5.7	6.0	19...	146	5.3	29...	14	1.9
10...	7.6	5.0	20...	141	4.7	30...	21	1.9
						31...		2.3
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							32	7.9
RUNOFF,IN INCHES.....							7.57	1.93

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	149	110	11...	21	31	21...	193	28
2....	52	60	12...	17	3.5	22...	519	21
3....	41	62	13...	15	273	23...	300	17
4....	112	89	14...	15	82	24...	209	13
5....	142	52	15...	14	42	25...	234	11
6....	45	29	16...	156	50	26...	178	9.3
7....	41	29	17...	411	157	27...	122	10
8....	29	21	18...	92	41	28...	76	6.3
9....	24	29	19...	2,340	29	29...	58	4.8
10...	34	37	20...	366	26	30...	149	4.3
						31...		6.8
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							205	45
RUNOFF,IN INCHES.....							9.78	2.20

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0030	0.48	14	6-17	1530	1.79	263	6-21	2400	1.72	220
6-15	0130	0.46	13	6-17	2115	1.35	140				
6-15	0215	0.52	17	6-17	2400	1.24	116				
6-15	0400	0.48	14					6-22	0600	2.02	300
6-15	1130	0.48	14					6-22	0945	2.02	300
6-15	1800	0.47	13	6-18	1400	0.99	73	6-22	1230	2.14	336
6-15	2330	0.47	13	6-18	2230	1.21	110	6-22	1645	3.26	699
6-15	2400	0.49	15	6-18	2400	1.29	126	6-22	2100	4.44	1,180
								6-22	2115	4.44	1,180
								6-22	2400	3.37	740
6-16	0145	0.45	12	6-19	0115	1.59	201				
6-16	0245	0.49	15	6-19	0145	1.96	321				
6-16	0430	0.45	12	6-19	0230	2.22	414	6-23	0015	3.26	664
6-16	1115	0.45	12	6-19	0715	6.10	2,220	6-23	0215	2.68	468
6-16	1530	0.43	11	6-19	0730	6.33	2,350	6-23	0830	2.03	273
6-16	1545	0.46	13	6-19	1145	9.51	4,580	6-23	1330	1.93	245
6-16	1600	1.10	90	6-19	1200	9.64	4,680	6-23	2245	1.91	239
6-16	1615	1.31	130	6-19	1230	9.71	4,740	6-23	2400	2.01	267
6-16	1645	1.37	144	6-19	1715	7.64	3,100				
6-16	1715	1.55	190	6-19	2100	4.56	1,250				
6-16	2000	2.96	699	6-19	2400	3.35	740	6-24	0215	2.13	309
6-16	2015	2.96	699					6-24	0400	2.08	294
6-16	2400	1.91	304					6-24	1745	1.55	153
				6-20	0015	3.26	706	6-24	2400	1.43	128
				6-20	0400	2.63	489				
6-17	0130	1.64	216	6-20	2245	1.72	220				
6-17	0230	1.75	250	6-20	2400	1.70	214	6-25	0800	1.45	132
6-17	0245	2.16	393					6-25	1030	1.55	153
6-17	0430	2.90	675					6-25	1445	2.57	441
6-17	0515	3.53	933	6-21	1300	1.53	171	6-25	1515	2.57	441
6-17	0530	3.52	928	6-21	1800	1.73	222	6-25	[illegible]	[illegible]	214
6-17	1115	2.49	515	6-21	1845	1.71	217				

(18) 01301500 HUTCHINSON RIVER AT PELHAM, N.Y.

LOCATION.--Lat 40°54'41", long 73°48'55", Westchester County, on right bank in Pelham, just upstream from Penn Central Transportation Company bridge, 100 ft downstream from Pelham Lake and 1.5 miles west of New Rochelle.

DRAINAGE AREA.--5.76 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 12.92 ft above mean sea level (levels by county of Westchester).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 257 cfs 1245 hours June 19 (gage height, 4.53 ft).
1944 to May 1972: Discharge, 526 cfs Aug. 28, 1971 (gage height, 5.18 ft).

REMARKS.--Flow controlled by Pelham Lake and three reservoirs above station.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0030	0.55	3.5	6-18	1315	0.96	23	6-22	1745	1.48	66
6-15	0515	0.56	3.6	6-18	1500	0.99	25	6-22	1800	1.82	92
6-15	2230	0.53	3.0	6-18	2000	1.02	27	6-22	2100	1.83	93
6-15	2400	0.52	2.8	6-18	2230	1.01	26	6-22	2400	1.78	90
				6-18	2400	1.06	30				
6-16	1530	0.54	3.2					6-23	0015	1.78	90
6-16	1545	0.74	10	6-19	0115	1.23	45	6-23	1130	1.48	66
6-16	1600	1.17	40	6-19	0145	1.42	62	6-23	1215	1.55	72
6-16	1700	1.32	53	6-19	1415	2.85	179	6-23	2215	1.38	58
6-16	1800	1.34	55	6-19	2015	3.06	197	6-23	2400	1.40	60
6-16	2345	1.09	33	6-19	2400	2.95	188				
6-16	2400	1.08	32								
								6-24	0015	1.40	60
				6-20	0015	2.94	187	6-24	2400	1.09	33
6-17	0130	1.08	32	6-20	2400	1.82	92				
6-17	0215	1.19	42								
6-17	0245	1.62	78					6-25	0945	1.05	30
6-17	0415	1.67	82	6-21	0015	1.81	92	6-25	1100	1.09	33
6-17	0500	1.98	104	6-21	1500	1.23	45	6-25	1200	1.27	49
6-17	2400	1.27	49	6-21	2400	1.12	35	6-25	1430	1.31	52
								6-25	1700	1.24	46
								6-25	2400	1.14	37
6-18	0030	1.26	48	6-22	1300	1.19	42				

(14) 01300700 WEST BRANCH MAMARONECK RIVER AT WHITE PLAINS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 40°59'38", long 73°45'14", Westchester County, at bridge on Saxon Woods Road at White Plains city line and 1.2 miles upstream from mouth.

DRAINAGE AREA.--1.09 sq mi.

MAXIMUM.--June-July 1972: Discharge, 253 cfs June 19, from computation of flow through culvert.

(15) 01300800 MAMARONECK RIVER AT WINFIELD AVENUE, MAMARONECK, N.Y.
(Miscellaneous site)

LOCATION.--Lat 40°58'07", long 73°44'15", Westchester County, at bridge on Winfield Avenue, 0.1 mile downstream from Mamaroneck Reservoir, and 1.6 miles upstream from gaging station at Mamaroneck (01301000).

DRAINAGE AREA.--14.5 sq mi.

MAXIMUM.--June-July 1972: Discharge, 2,590 cfs June 19, from computation of flow through culvert, flow over road, and flow over bridge. Water-surface elevation 40 ft downstream from culvert, 35.91 ft above mean sea level.

(16) 01300900 SHELDRAKE RIVER AT MAMARONECK, N.Y.
(Miscellaneous site)

LOCATION.--Lat 40°56'38", long 73°45'04", Westchester County, at outlet of pond 200 ft west of New England Thruway, 0.2 mile upstream from Mamaroneck village line and 1.3 miles upstream from mouth.

DRAINAGE AREA.--5.55 sq mi.

MAXIMUM.--June-July 1972: Discharge, 372 cfs June 19, from computation of flow over dam. Mean water-surface elevation of pond, 32.2 ft above mean sea level.

(17) 01301000 MAMARONECK RIVER AT MAMARONECK, N.Y.

LOCATION.--Lat 40°57'14", long 73°44'06", Westchester County, on left bank in Mamaroneck, 113 ft downstream from bridge on Halstead Avenue, 700 ft downstream from Sheldrake River, and 0.3 mile upstream from mean high tide in Mamaroneck Harbor.

DRAINAGE AREA.--23.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 11.46 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,000 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 4,740 cfs June 19 1230 hours (gage height, 9.71 ft).
1944-53, 1955 to May 1972: Discharge, 2,260 cfs Aug. 28, 1971 (gage height, 6.68 ft); gage height, 8.23 ft Sept. 15, 1944.
Maximum stage known, about 11.9 ft Sept. 21, 1938 (hurricane wave), from information by officials of village of Mamaroneck.

REMARKS.--Flow regulated by several reservoirs above gage.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	23	20	11...	5.5	6.7	21...	26	11
2....	14	14	12...	5.2	5.9	22...	51	8.2
3....	9.6	12	13...	4.9	49	23...	57	6.7
4....	19	12	14...	4.3	33	24...	33	5.9
5....	23	11	15...	4.3	13	25...	33	5.1
6....	15	9.7	16...	26	13	26...	33	3.8
7....	9.9	9.1	17...	90	20	27...	23	2.6
8....	7.8	8.8	18...	30	12	28...	16	1.8
9....	5.9	8.2	19...	174	7.9	29...	13	1.6
10...	7.1	7.6	20...	72	6.7	30...	24	1.5
						31...		2.2
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							29	11
RUNOFF, IN INCHES							5.55	2.13

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0030	2.40	4.2	6-18	1230	2.85	25				
6-15	1500	2.39	4.0	6-18	1600	2.87	26	6-22	0230	2.84	21
6-15	1545	2.42	4.8	6-18	1745	2.94	31	6-22	0400	2.97	30
6-15	2400	2.41	4.5	6-18	2215	2.88	27	6-22	0945	2.96	29
				6-18	2400	2.93	30	6-22	1115	2.97	30
								6-22	1215	3.18	45
6-16	1415	2.42	4.8					6-22	1430	3.30	56
6-16	1515	2.43	5.1	6-19	0030	2.92	26	6-22	1700	3.45	72
6-16	1530	2.46	6.1	6-19	0100	3.05	36	6-22	1815	3.76	112
6-16	1545	2.63	12	6-19	0115	3.25	52	6-22	1830	3.75	111
6-16	1630	3.63	103	6-19	0145	3.67	100	6-22	2030	3.56	85
6-16	1700	3.85	136	6-19	0230	3.38	64	6-22	2400	3.52	80
6-16	1830	3.39	73	6-19	0330	3.54	83				
6-16	2400	2.93	30	6-19	0545	4.17	182				
				6-19	0645	3.91	136	6-23	0030	3.52	80
				6-19	1200	4.30	208	6-23	2100	3.13	41
6-17	0145	2.85	25	6-19	1245	4.53	257	6-23	2400	3.19	46
6-17	0215	2.88	27	6-19	1300	4.52	255				
6-17	0230	2.96	33	6-19	2400	4.03	155				
6-17	0300	3.57	95					6-24	0030	3.18	45
6-17	0400	3.38	72					6-24	2330	2.90	25
6-17	0415	3.45	80	6-20	0015	4.01	152	6-24	2400	2.89	24
6-17	0500	4.15	193	6-20	1200	3.35	61				
6-17	0515	4.25	216	6-20	2200	3.04	35				
6-17	0530	4.21	206	6-20	2400	3.01	33	6-25	0845	2.87	23
6-17	0615	3.89	142					6-25	1100	3.05	36
6-17	2315	3.11	45					6-25	1215	3.17	45
6-17	2400	3.09	43	6-21	0015	3.01	33	6-25	1445	3.20	47
				6-21	1230	2.90	25	6-25	1830	3.10	39
				6-21	2400	2.82	20	6-25	2400	3.02	33
6-18	0015	3.08	42								

(19) 01302000 BRONX RIVER AT BRONXVILLE, N.Y.

LOCATION.--Lat 40°56'09", long 73°50'10", Westchester County, on right bank in Bronxville, just upstream from Penn Central Transportation Company bridge, 800 ft downstream from Grassy Sprain Brook.

DRAINAGE AREA.--26.5 sq mi (not including 18.1 sq mi, the entire flow from which is diverted for municipal water supply and drainage purposes).

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 73.74 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 2,500 cfs 1400 hours June 19 (gage height, 9.63 ft).
1944 to May 1972: Discharge, 1,580 cfs June 15, 1969 (gage height, 7.31 ft).

REMARKS.--Entire flow except for rare periods of spill diverted at Kensico Reservoir, White Plains Reservoirs 1 and 2, and Grassy Sprain Reservoir (combined drainage area, 18.0 sq mi) for water supply. Subsequent to Oct. 1, 1954 flow from 0.1 sq mi below Grassy Sprain Reservoir diverted for flood-control purposes.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	125	176	11...	34	48	21...	228	59
2....	59	101	12...	31	45	22...	523	43
3....	54	102	13...	30	369	23...	361	36
4....	105	86	14...	29	104	24...	248	33
5....	76	77	15...	29	64	25...	371	31
6....	46	70	16...	176	89	26...	228	29
7....	49	63	17...	244	102	27...	161	28
8....	39	61	18...	74	52	28...	127	27
9....	36	59	19...	1,610	45	29...	96	25
10...	52	52	20...	472	47	30...	239	24
						31...		36
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							198	71
RUNOFF, IN INCHES							8.35	3.07

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0030	0.73	30	6-18	2130	1.19	86	6-22	0815	2.65	383
6-15	0100	0.73	30	6-18	2300	1.25	95	6-22	1100	2.47	340
6-15	2400	0.71	28	6-18	2400	1.50	135	6-22	1730	4.37	808
								6-22	2000	4.67	882
								6-22	2245	4.30	790
6-16	1530	0.71	28	6-19	0045	1.59	151	6-22	2400	3.92	695
6-16	1545	1.32	105	6-19	0100	1.80	192				
6-16	1615	3.20	515	6-19	0145	3.37	558				
6-16	1715	3.70	640	6-19	0330	4.12	745	6-23	0015	3.84	675
6-16	1800	4.33	798	6-19	0945	8.58	2,030	6-23	0545	2.71	397
6-16	1815	4.31	793	6-19	1400	9.63	2,500	6-23	1230	2.31	303
6-16	2230	2.02	239	6-19	1600	9.44	2,410	6-23	2145	2.29	299
6-16	2400	1.65	163	6-19	2330	5.62	1,120	6-23	2400	2.48	342
				6-19	2400	5.42	1,070				
6-17	0115	1.47	130					6-24	0115	2.52	352
6-17	0230	2.14	266	6-20	0015	5.33	1,050	6-24	2030	1.81	194
6-17	0315	2.80	419	6-20	0730	3.16	505	6-24	2400	1.75	182
6-17	0430	2.74	405	6-20	2300	2.10	257				
6-17	0515	3.47	583	6-20	2400	2.06	248				
6-17	0900	2.74	405					6-25	0415	1.78	188
6-17	1415	1.71	174					6-25	0600	1.98	231
6-17	2000	1.27	98	6-21	1215	1.88	209	6-25	0930	2.34	310
6-17	2400	1.15	80	6-21	1845	2.17	272	6-25	1030	2.60	371
				6-21	1930	2.09	255	6-25	1230	3.33	548
				6-21	2400	2.03	242	6-25	1415	3.66	630
6-18	1500	0.99	59					6-25	1615	3.48	585
6-18	1630	1.13	77					6-25	2330	2.44	333
6-18	1730	1.29	101	6-22	0315	2.38	319	6-25	2400	2.39	322

HUDSON RIVER BASIN

(20) 01376430 RUM BROOK AT ELMSFORD, N.Y.
(Miscellaneous site)

LOCATION.--Lat 41°02'49", long 73°49'23", Westchester County, at bridge on Saw Mill River Road (State Highway 9A) 0.1 mile south of Elmsford village line, and 0.2 mile upstream from mouth.

DRAINAGE AREA.--0.93 sq mi.

MAXIMUM.--June-July 1972: Discharge, 331 cfs June 19, from computation of flow through culvert and flow over road.

(21) 01376500 SAW MILL RIVER AT YONKERS, N.Y.

LOCATION.--Lat 40°56'11", long 73°53'12", Westchester County, on left bank in Yonkers, just upstream from Old Croton aqueduct, near intersection of Nepperhan Avenue and Center Street, 1.2 miles upstream from mouth.

DRAINAGE AREA.--25.6 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 90.99 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 636 cfs 0230 hours June 20 (gage height, 5.55 ft). 1945 to May 1972: Discharge, 890 cfs Oct. 16, 1955 (gage height, 5.34 ft).

REMARKS.--Flow affected by diversions by city of Yonkers, village of Tarrytown, and several industries for water supply and industrial purposes. Diurnal fluctuations caused by water supply and industrial operations.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.52	86	6-22	1200	5.45	1,630				
6-21	1400	2.61	105	6-22	1600	7.64	3,800	6-25	0200	5.20	1,430
6-21	1700	2.72	131	6-22	2400	6.41	2,530	6-25	2400	4.76	1,100
6-21	1830	3.03	216								
6-21	2100	4.25	766								
6-21	2130	4.33	815	6-23	0030	6.37	2,490	6-26	0100	4.77	1,100
6-21	2200	4.85	1,160	6-23	1700	5.57	1,730	6-26	2400	4.63	1,010
6-21	2230	4.89	1,190	6-23	2400	5.48	1,650				
6-21	2400	4.76	1,100								
								6-27	0100	4.62	1,000
				6-24	0100	5.48	1,650	6-27	2400	4.45	890
6-22	0400	4.95	1,230	6-24	2400	5.18	1,410				
6-22	0830	5.35	1,550								

(23) 01470500 SCHUYLKILL RIVER AT BERNE, PA.

LOCATION.--Lat 40°31'21", long 75°59'55", Berks County, on right bank 50 ft upstream from highway bridge at Berne, 0.5 mile upstream from Mill Creek, and 6.5 miles downstream from Little Schuylkill River.

DRAINAGE AREA.--355 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 2100 hours June 22 to 1900 hours June 24, for which graph was constructed on basis of floodmarks and recession hydrographs for nearby stations. Datum of gage is 310.65 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 17,000 cfs and extended above by logarithmic plotting.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 22, about 2400 hours	42,800	19.0	-	-
June 22	-	-	558	39,700
1948 to May 1972:				
Aug. 19, 1955	29,400	15.73	-	-

REMARKS.--Minor regulation by Still Creek Reservoir about 25 miles upstream (capacity at spillway elevation, 8,290 acre-ft.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	188	243	11...	32	48	21...	177	44
2....	82	103	12...	26	47	22...	282	41
3....	64	78	13...	28	140	23...	397	35
4....	62	75	14...	26	183	24...	279	32
5....	68	67	15...	25	60	25...	253	32
6....	41	65	16...	70	48	26...	259	31
7....	39	61	17...	198	99	27...	145	30
8....	37	56	18...	75	59	28...	107	29
9....	32	52	19...	393	46	29...	87	28
10...	44	48	20...	496	41	30...	138	27
						31...		28
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							138	64
RUNOFF, IN INCHES							6.03	2.87

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0030	1.43	26	6-18	1630	1.71	59				
6-15	0515	1.43	26	6-18	2045	1.77	67				
6-15	2400	1.42	25	6-18	2330	1.83	75	6-22	0200	2.81	194
				6-18	2400	1.85	78	6-22	1330	3.50	298
								6-22	1930	3.93	412
6-16	1515	1.42	25					6-22	2400	3.91	409
6-16	1600	2.00	97	6-19	0415	2.58	193				
6-16	1830	2.52	174	6-19	1200	4.10	430				
6-16	1930	2.54	177	6-19	2000	5.23	590	6-23	0445	3.96	418
6-16	2400	2.31	142	6-19	2400	5.48	623	6-23	1415	4.01	428
								6-23	1830	3.72	372
								6-23	2400	3.48	325
6-17	0230	2.38	154	6-20	0230	5.55	636				
6-17	1115	2.88	239	6-20	0600	5.47	621				
6-17	1315	2.88	239	6-20	1445	4.64	464	6-24	1200	3.26	282
6-17	2100	2.48	170	6-20	2400	3.54	271	6-24	2400	2.95	235
6-17	2400	2.24	133								
				6-21	0600	3.04	196	6-25	0415	2.88	211
6-18	0400	1.99	96	6-21	1215	2.70	148	6-25	1115	3.23	264
6-18	0945	1.76	66	6-21	2400	2.75	155	6-25	2400	3.41	291

DELAWARE RIVER BASIN

(22) 01469500 LITTLE SCHUYLKILL RIVER AT TAMAQUA, PA.

LOCATION.--Lat 40°48'25", long 75°58'20", Schuylkill County, on left bank at pumping plant of Panther Valley Water Co., 0.6 mile upstream from Tamaqua, and 0.8 mile upstream from Panther Creek.

DRAINAGE AREA.--42.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except July 18-31. Datum of gage is 817.48 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,200 cfs and by contracted-opening measurement at 7,790 cfs. Record for July 18-31 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 3,800 cfs 1600 hours June 22 (gage height, 7.64 ft).
1920 to May 1972: Discharge, 7,790 cfs Aug. 18, 1955 (gage height, 11.10 ft).

REMARKS.--Flow regulated since 1933 by Still Creek Reservoir 6.5 miles upstream (capacity at spillway elevation, 8,290 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	403	195	11...	78	67	21...	264	26
2....	245	162	12...	71	57	22...	2,180	24
3....	198	146	13...	65	53	23...	1,910	22
4....	167	136	14...	61	47	24...	1,530	20
5....	144	129	15...	58	42	25...	1,270	19
6....	124	124	16...	65	39	26...	1,060	22
7....	112	105	17...	69	36	27...	942	19
8....	95	93	18...	69	33	28...	595	18
9....	86	88	19...	124	31	29...	390	17
10...	99	76	20...	108	29	30...	313	16
						31...		15
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							430	61
RUNOFF, IN INCHES							11.18	1.65

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
	Mean discharge (cfs)	Suspended sediment: Mean concentration (mg/l)	Suspended sediment: Tons per day	Mean discharge (cfs)	Suspended sediment: Mean concentration (mg/l)	Suspended sediment: Tons per day
1	2,150	28	163	2,180	10	59
2	1,500	10	41	1,810	7	34
3	1,390	3	11	1,590	8	34
4	1,100	3	8.9	1,530	7	29
5	963	3	7.8	1,430	3	12
6	819	4	8.8	1,340	2	7.2
7	766	5	10	1,150	2	6.2
8	666	4	7.2	1,170	13	41
9	605	3	4.9	1,330	19	68
10	655	4	7.1	1,080	6	17
11	566	3	4.6	960	4	10
12	518	3	4.2	856	3	6.9
13	502	3	4.1	868	9	21
14	487	3	3.9	757	4	8.2
15	465	3	3.8	746	5	10
16	496	6	8.0	714	6	12
17	586	4	6.3	736	4	7.9
18	643	9	16	653	4	7.1
19	896	11	27	613	4	6.6
20	813	10	22	537	4	5.8
21	1,130	34	205	511	4	5.5
22	22,000	558	39,700	476	4	5.1
23	26,000	405	33,100	451	3	3.7
24	11,000	104	3,260	426	3	3.4
25	7,280	65	1,280	411	3	3.3
26	5,320	43	618	485	6	7.9
27	4,100	32	354	387	9	9.4
28	3,270	24	212	364	3	2.9
29	2,790	17	128	350	3	2.8
30	2,830	18	138	336	3	2.7
31	-	-		343	3	2.8
Total	-	-	79,364.6	-	-	452.4
Mean	3,410	-	-	858	-	-
Inches	10.72	-	-	2.79	-	-
Ac-ft	202,900	-	52.06	52,700	-	0.30

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second
June 21					June 24				
0100	5.33	681	9	0.0002	0800	10.4	11,900	96	0.04
1600	5.42	766	11	.0003	2000	9.61	9,500	84	.02
1700	5.57	920	20	.0006	2400	9.35	8,720	77	.02
1800	6.15	1,630	68	.003					
2030	6.24	1,750	48	.003	June 25				
2400	7.63	4,100	180	.02	0030	9.32	8,610	77	.02
					2400	8.39	5,980	54	.01
June 22									
1230	12.80	19,500	585	.36	June 26				
2030	17.96	37,800	850	1.0	0030	8.37	5,930	54	.01
2400	19.00	42,800	800	1.1	2400	7.83	4,550	34	.005
June 23					June 27				
0100	18.9	42,300	760	1.0	0030	7.83	4,550	34	.005
1200	14.1	23,800	365	.27	2400	7.42	3,650	29	.003
2000	12.0	17,000	185	.10					
2400	11.4	15,000	140	.07	June 28				
					0030	7.42	3,650	29	.003
					2400	7.06	2,940	17	.002

(24) 01470720 MAIDEN CREEK TRIBUTARY AT LENHARTSVILLE, PA.

LOCATION.--Lat 40°34'23", long 75°52'34", Berks County, on left bank 60 ft downstream from culvert on Interstate Highway 78, 0.5 mile upstream from mouth, and 0.5 mile east of Lenhartsville.

DRAINAGE AREA.--7.46 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 20 to July 13. Datum of gage is 368.78 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 280 cfs and by computation of peak flow through culvert at 1,530 cfs. Record for June 20 to July 13 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 1,530 cfs June 22 (gage height, 6.46 ft, from peak-stage indicator).
1962 to May 1972: Discharge, 800 cfs (revised) Feb. 13, 1971 (gage height, 5.09 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	58	42	11...	6.0	18	21...	220	8.8
2....	45	34	12...	5.5	17	22...	740	7.7
3....	31	30	13...	5.5	16	23...	560	6.6
4....	23	28	14...	5.2	15	24...	220	5.9
5....	17	25	15...	4.7	14	25...	150	7.2
6....	14	24	16...	8.9	16	26...	110	5.9
7....	12	21	17...	24	14	27...	84	5.1
8....	9.3	22	18...	74	15	28...	64	4.6
9....	8.2	25	19...	157	12	29...	50	4.1
10...	7.4	21	20...	130	9.8	30...	54	3.9
						31...		4.1
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							97	16
RUNOFF,IN INCHES.....							14.45	2.41

(25) 01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.

LOCATION.--Lat 40°22'00", long 76°01'16", Berks County, on right bank 1 mile upstream from Rebers Bridge and Plum Creek, 1 mile east of Blue Marsh, 3 miles north of Sinking Spring and 5.5 miles northwest of Reading.

DRAINAGE AREA.--175 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2000 hours June 22 to 1100 hours June 29 and July 17-25. Altitude of gage is 240 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,000 cfs and extended above by logarithmic plotting. Record for June 23-29, July 17-25 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 16,100 cfs about 2400 hours June 22 (gage height,18.7 ft, from floodmarks).
1966 to May 1972: Discharge, 9,400 cfs (revised) Feb. 13, 1971 (gage height, 11.68 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	561	798	11...	174	382	21...	474	360
2....	324	669	12...	166	350	22...	6,800	330
3....	307	615	13...	177	588	23...	11,000	310
4....	260	582	14...	184	415	24...	5,200	290
5....	243	538	15...	170	359	25...	3,000	280
6....	223	498	16...	178	516	26...	1,800	297
7....	215	440	17...	334	740	27...	1,100	262
8....	196	502	18...	234	510	28...	800	249
9....	188	554	19...	382	460	29...	900	231
10...	181	414	20...	493	400	30...	1,070	223
						31...		220
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,240	432
RUNOFF,IN INCHES.....							7.93	2.84

(27) 01471800 PINE CREEK NEAR MANATAWNY, PA.

(Crest-stage station)

LOCATION.--Lat 40°24'43", long 75°44'02", Berks County, at steel bridge on macadam road, 0.5 mile above mouth, 0.5 mile below West Branch Pine Creek, and 2 miles north of Manatawny.

DRAINAGE AREA.--15.6 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 370 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 165 cfs and by slope-area measurement at 623 cfs.

MAXIMUMS.--June-July 1972: Discharge, 812 cfs June 22 (gage height, 9.25 ft).
1961 to May 1972: Discharge, 809 cfs July 28, 1969 (gage height, 9.21 ft).

(28) 01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA.

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

DRAINAGE AREA.--1,147 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 12 to July 14 for which graph was reconstructed on basis of several wire-weight and/or tape-gage readings for most days. Datum of gage is 117.86 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 50,000 cfs and extended above on basis of peak unit runoff for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 95,900 cfs about 1300 hours June 23 (gage height, 29.97 ft, from high-water mark in gage house).
1902 to May 1972: Discharge, 53,900 cfs Feb. 28, 1902 (gage height, 21.0 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6,090	6,000	11...	1,620	2,800	21...	4,140	1,990
2....	4,150	5,000	12...	1,500	2,600	22...	29,000	1,810
3....	3,520	4,500	13...	1,400	3,500	23...	71,200	1,650
4....	2,930	4,500	14...	1,350	3,800	24...	29,200	1,550
5....	2,600	4,000	15...	1,300	2,270	25...	11,700	1,460
6....	2,290	3,600	16...	1,400	2,180	26...	8,600	1,520
7....	2,110	3,300	17...	2,000	3,420	27...	7,700	1,380
8....	1,910	3,100	18...	1,800	2,570	28...	7,000	1,290
9....	1,750	3,000	19...	1,700	2,840	29...	6,000	1,200
10...	1,670	3,000	20...	3,900	2,240	30...	7,500	1,150
						31...		1,120
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							7,634	2,721
RUNOFF,IN INCHES.....							7.43	2.73

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0015	4.30	3,850	6-22	2000	21.50	53,400	6-24	2400	10.25	15,200
6-21	1200	4.00	3,400	6-22	2400	20.88	50,600				
6-21	1600	4.20	3,700								
6-21	2000	5.25	5,340					6-25	0400	9.7	13,900
6-21	2400	6.20	6,940	6-23	0400	20.05	47,300	6-25	2400	7.75	9,800
				6-23	1200	29.80	95,000				
				6-23	1300	29.97	95,900				
6-22	0400	9.35	13,100	6-23	2000	26.2	75,600	6-26	0400	7.5	9,330
6-22	0800	11.00	17,100	6-23	2400	22.7	58,800	6-26	2400	6.50	7,480
6-22	1200	13.30	23,500								
6-22	1600	19.29	44,300								
				6-24	0400	19.1	43,500	6-27	0400	6.40	7,350
				6-24	2000	11.1	17,400	6-27	2400	5.6	5,920

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0015	2.34	373	6-22	0600	6.15	3,400	6-23	2400	-	6,500
6-21	0900	2.30	355	6-22	0800	6.80	4,000				
6-21	1600	2.37	387	6-22	1200	7.93	5,130				
6-21	2030	2.59	495	6-22	1500	8.62	5,820	6-24	2400	-	3,800
6-21	2130	2.94	701	6-22	1700	10.33	7,530				
6-21	2200	3.27	919	6-22	1945	14.41	11,600				
6-21	2300	3.80	1,310	6-22	2230	17.9	15,200	6-25	2400	-	2,300
6-21	2400	4.06	1,530	6-22	2400	18.7	16,100				
								6-26	2400	-	1,400
6-22	0200	4.34	1,770	6-23	0200	-	14,600				
6-22	0400	5.09	2,440	6-23	0800	-	11,000				
				6-23	1600	-	8,000	6-27	2400	-	900

(26) 01471000 TULPEHOCKEN CREEK NEAR READING, PA.

LOCATION.--Lat 40°22'08", long 75°58'46", Berks County, on right bank 15 ft upstream from covered bridge, 1 mile downstream from Cacoosing Creek, 2.5 miles upstream from mouth, and 3.5 miles northwest of square at Reading.

DRAINAGE AREA.--211 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 2230 hours June 22 to 1500 hours June 28. Datum of gage is 216.60 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,500 cfs and by contracted-opening measurement at 17,000 cfs. Record for June 23-28 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 17,000 cfs about 0130 hours June 23 (gage height, 15.65 ft from high-water mark in gage well).
1951 to May 1972: Discharge, 10,000 cfs (revised) Feb. 13, 1971 (gage height, unknown).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	689	871	11...	224	434	21...	626	428
2....	403	736	12...	216	403	22...	7,700	392
3....	377	676	13...	228	785	23...	12,000	362
4....	328	644	14...	236	504	24...	6,200	343
5....	314	607	15...	220	434	25...	3,600	343
6....	290	566	16...	241	572	26...	2,000	348
7....	281	504	17...	423	816	27...	1,200	309
8....	254	537	18...	314	566	28...	1,000	295
9....	241	607	19...	493	520	29...	989	276
10...	236	471	20...	548	460	30...	1,160	267
						31...		263
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,430	495
RUNOFF, IN INCHES.....							7.58	2.70

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.13	439	6-22	1100	7.04	5,450	6-24	2400	-	4,700
6-21	0730	2.11	428	6-22	1400	8.65	7,440				
6-21	1500	2.20	476	6-22	1800	11.79	11,600				
6-21	1800	2.42	601	6-22	2200	14.82	15,800	6-25	2400	-	2,600
6-21	2000	2.78	845	6-22	2400	15.5	16,800				
6-21	2200	3.57	1,530								
6-21	2400	4.02	1,980					6-26	2400	-	1,500
				6-23	0130	15.65	17,000				
				6-23	0600	-	14,800				
6-22	0400	5.25	3,300	6-23	1200	-	11,500	6-27	1200	3.1	1,100
6-22	0800	6.03	4,240	6-23	2400	-	8,200	6-27	2400	-	940

(29) 01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA.

LOCATION.--Lat 40°09'05", long 75°36'06", Chester County, on right bank 70 ft downstream from two-span county bridge on French Creek Road, 4.5 miles northwest of Phoenixville, and 7.3 miles upstream from mouth.

DRAINAGE AREA.--59.1 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 160 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,500 and by slope-area measurement at 11,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 11,200 cfs 1615 hours June 22 (gage height, 13.66 ft).
1969 to May 1972: Discharge, 3,330 cfs Sept. 13, 1971 (gage height, 9.66 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	326	195	11...	68	98	21...	201	77
2....	140	159	12...	68	93	22...	4,530	71
3....	117	145	13...	71	255	23...	1,630	67
4....	104	132	14...	86	162	24...	400	64
5....	132	147	15...	72	102	25...	442	84
6....	93	142	16...	93	97	26...	312	89
7....	88	122	17...	122	120	27...	246	68
8....	77	137	18...	80	95	28...	207	67
9....	74	124	19...	106	91	29...	255	63
10...	72	109	20...	89	81	30...	277	62
						31...		53
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							353	109
RUNOFF, IN INCHES.....							6.66	2.12

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.75	77	6-22	1330	11.59	6,160	6-24	2015	5.90	393
6-21	1230	4.81	86	6-22	1615	13.66	11,200	6-24	2400	5.90	393
6-21	1530	4.98	120	6-22	1630	13.57	10,900				
6-21	1645	5.26	198	6-22	2400	10.75	4,710				
6-21	1830	6.07	478					6-25	1130	6.18	502
6-21	2315	6.07	478					6-25	1445	6.11	474
6-21	2400	6.60	740	6-23	0015	10.62	4,510	6-25	2400	5.83	368
				6-23	0530	8.57	2,220				
				6-23	1130	7.30	1,190				
6-22	0130	7.79	1,550	6-23	2400	6.49	675	6-26	0015	5.83	368
6-22	0915	6.93	938					6-26	2400	5.53	264
6-22	1015	7.59	1,390								
6-22	1215	9.66	3,330	6-24	0015	6.48	645				

(30) 01472174 PICKERING CREEK NEAR CHESTER SPRINGS, PA.

LOCATION.--Lat 40°05'22", long 75°37'50", Chester County, on left bank 30 ft downstream from bridge on Horseshoe Trail Road, 0.45 mile downstream from unnamed tributary, and 0.75 mile southwest of Chester Springs.

DRAINAGE AREA.--5.98 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 280 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 700 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 2,410 cfs 1300 hours June 22 (gage height, 5.21 ft).
1967 to May 1972: Discharge, 1,640 cfs Sept. 13, 1971 (gage height, 4.99 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9.6	11	11...	6.5	9.0	21...	26	8.4
2....	8.6	10	12...	6.5	8.8	22...	450	8.0
3....	8.4	15	13...	7.4	31	23...	62	7.6
4....	7.8	11	14...	8.0	11	24...	24	7.4
5....	7.6	12	15...	7.2	9.6	25...	34	7.6
6....	7.4	11	16...	10	9.2	26...	17	7.4
7....	7.2	10	17...	16	9.2	27...	13	7.0
8....	6.9	10	18...	8.6	10	28...	12	7.0
9....	6.9	10	19...	10	9.2	29...	19	6.9
10...	6.7	9.4	20...	8.4	8.6	30...	14	6.9
						31...		7.2
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							28	9.9
RUNOFF, IN INCHES							5.20	1.91

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.36	7.7	6-22	0300	3.09	81	6-23	1115	2.78	59
6-21	0845	1.41	8.7	6-22	0445	2.43	40	6-23	1415	2.99	73
6-21	1230	1.45	9.5	6-22	0645	2.07	24	6-23	1800	2.49	43
6-21	1445	1.44	9.3	6-22	0815	1.99	22	6-23	2400	2.31	34
6-21	1515	1.61	13	6-22	0830	2.11	25				
6-21	1530	1.89	20	6-22	0845	2.47	42				
6-21	1615	2.88	68	6-22	1015	4.02	248	6-24	1615	1.93	20
6-21	1700	3.28	103	6-22	1130	4.47	604	6-24	2300	1.92	20
6-21	1800	3.29	105	6-22	1200	4.97	1,590	6-24	2345	2.22	30
6-21	1945	2.40	40	6-22	1300	5.21	2,410	6-24	2400	2.34	35
6-21	2045	2.02	24	6-22	1445	4.82	1,200				
6-21	2200	1.81	18	6-22	1500	4.89	1,370				
6-21	2230	2.07	25	6-22	1745	4.45	580	6-25	0100	2.72	55
6-21	2245	2.98	76	6-22	1945	4.09	276	6-25	0145	3.06	79
6-21	2330	3.48	130	6-22	2130	3.62	147	6-25	0445	2.45	41
6-21	2400	3.64	158	6-22	2400	3.31	102	6-25	0730	2.37	37
								6-25	1030	2.49	43
								6-25	1515	2.07	24
6-22	0130	3.73	169	6-23	0015	3.29	100	6-25	2400	1.88	19

(31) 01472200 GREEN LANE RESERVOIR AT GREEN LANE, PA.

LOCATION.--Lat 40°20'30", long 75°28'45", Montgomery County, at dam on Perkiomen Creek, 0.4 mile west of Green Lane, and 2.1 miles upstream from Unami Creek.

DRAINAGE AREA.--70.9 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (levels by Philadelphia Suburban Water Company).

CONTENTS RECORD.--Contents computed from capacity curve furnished by Philadelphia Suburban Water Company, Bryn Mawr, Pa.

MAXIMUMS.--June-July 1972: Contents, 17,030 acre-ft 0930 hours June 23 (elevation, 290.05 ft). 1956 to May 1972: Contents, 15,430 acre-ft Nov. 27, 1961 (elevation, 288.25 ft).

REMARKS.--Reservoir formed by concrete, gravity-type dam, with ungated spillway at elevation, 286.00 ft. Storage began Dec. 21, 1956. Capacity at spillway elevation is 13,430 acre-ft. Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is controlled by valved pipe through dam.

COOPERATION.--Records furnished by Philadelphia Suburban Water Co.

Elevation, in feet, and contents, in acre-feet, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	286.23	13,640	286.17	13,590	16	286.11	13,530	286.00	13,430
2	286.17	13,590	286.12	13,540	17	286.03	13,460	285.98	13,420
3	286.11	13,530	286.09	13,510	18	286.05	13,480	286.00	13,430
4	286.08	13,500	286.09	13,510	19	286.22	13,630	285.97	13,410
5	286.05	13,480	286.06	13,490	20	286.10	13,520	285.98	13,420
6	286.05	13,480	286.07	13,490	21	286.80	14,140	285.98	13,420
7	286.00	13,430	286.04	13,470	22	286.80	14,140	285.95	13,390
8	285.99	13,420	286.04	13,470	23	287.22	14,510	285.93	13,370
9	286.02	13,450	286.01	13,440	24	286.57	13,940	285.90	13,340
10	285.97	13,410	286.00	13,430	25	286.43	13,810	285.96	13,400
11	285.95	13,390	285.99	13,420	26	286.33	13,720	285.92	13,360
12	285.95	13,390	286.01	13,440	27	286.25	13,650	285.91	13,350
13	285.98	13,420	286.09	13,510	28	286.18	13,590	285.90	13,340
14	285.97	13,410	286.01	13,440	29	286.30	13,700	285.90	13,340
15	285.96	13,400	286.00	13,430	30	286.30	13,700	285.89	13,340
					31			285.90	13,340
Change in contents							+140		-360

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second
June 21					June 23				
0100	2.10	430	36	0.0003	0900	6.61	5,720	95	0.02
1530	2.00	370	18	.0002	2400	4.75	3,220	38	.004
1930	2.31	578	27	.0005					
2130	2.63	873	33	.0009	June 24				
2400	3.03	1,310	46	.002	0030	4.73	3,200	38	.004
					2400	3.34	1,650	32	.002
June 22									
0300	3.29	1,600	120	.006	June 25				
0700	5.22	3,810	430	.05	0900	3.81	2,170	38	.003
0800	5.29	3,900	395	.05	1500	4.26	2,670	44	.004
1230	5.55	4,240	160	.02	1630	4.19	2,590	42	.003
1330	6.40	5,410	180	.03	2400	3.38	1,700	30	.002
1630	12.28	17,800	1,420	.79					
1900	15.98	30,900	1,080	1.04	June 26				
2000	16.71	34,100	880	.94	0030	3.36	1,680	30	.002
2215	17.08	35,800	560	.63	1000	3.01	1,290	41	.002
2400	15.90	30,600	425	.41	2400	2.71	961	18	.0005
June 23					June 27				
0100	15.00	27,000	375	.32	0030	2.70	950	18	.0005
0230	13.45	21,400	310	.21	2400	2.38	634	30	.0006
0600	8.79	9,280	190	.06					

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Percent in size class indicated, in millimeters: Sand (greater than .062)	Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 22	0800	20	3,900	175	394	0.05	7	93
June 22	1230	24	4,240	178	160	.02	6	94
June 22	1500	24	12,700	170	305	.12	3	97
June 22	2130	24	35,800	112	635	.71	2	98
June 23	0830	20	5,850	131	110	.02	3	97

(33) 01473100 ZACHARIAS CREEK NEAR SKIPPACK, PA.

(Crest-stage station)

LOCATION.--Lat 40°12'26", long 75°21'57", Montgomery County, at concrete weir, 1.2 miles above mouth, and 2.2 miles southeast of Skippack.

DRAINAGE AREA.--7.27 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 180 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 165 cfs and by slope-area measurements at 2,280 cfs and 10,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,860 cfs June 22 (gage height, 9.76 ft). 1960 to May 1972: Discharge, 10,000 cfs Sept. 13, 1971 (gage height, 10.8 ft).

(32) 01473000 PERKIOMEN CREEK AT GRATERFORD, PA.

(Formerly published as Perkiomen Creek at Graters Ford)

LOCATION.--Lat 40°13'46", long 78°27'07", Montgomery County, on left bank 1,650 ft upstream from highway bridge at Graterford, 0.5 mile upstream from Landis Brook and 2.5 miles north of Collegeville.

DRAINAGE AREA.--279 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 112.66 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,000 cfs and by slope-area measurement at 31,700 cfs.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, and more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 22, 2215 hours	35,800	17.08	-	-
June 22	-	-	485	28,000
1915 to May 1972:				
July 9, 1935	39,900	18.26	-	-

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
		Suspended sediment			Suspended sediment	
	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day
1	3,320	265	3,880	540	16	23
2	810	29	63	376	14	14
3	602	22	36	343	10	9.3
4	406	14	15	463	25	31
5	327	10	8.8	302	7	5.7
6	273	8	5.9	311	5	4.2
7	273	13	9.6	259	3	2.1
8	217	12	7.0	238	4	2.6
9	194	10	5.2	242	7	4.6
10	190	10	5.1	209	10	5.6
11	162	8	3.5	183	9	4.4
12	145	6	2.3	169	7	3.2
13	151	6	2.4	722	119	522
14	165	3	1.3	533	43	92
15	162	2	.9	273	10	7.4
16	176	4	1.9	209	8	4.5
17	406	38	46	251	18	12
18	264	13	9.3	213	29	17
19	540	30	44	259	33	23
20	686	60	111	186	34	17
21	489	25	39	190	27	14
22	13,300	485	28,000	190	18	9.2
23	7,960	119	5,210	148	15	6.0
24	2,370	40	256	126	12	4.1
25	2,220	37	222	112	6	1.8
26	1,250	31	105	136	4	1.5
27	780	23	48	123	4	1.3
28	540	24	35	109	7	2.1
29	563	22	33	101	5	1.4
30	950	17	44	93	6	1.5
31	-	-	-	91	16	3.9
Total	-	-	38,250.2	-	-	851.4
Mean	1,330	-	-	248	-	-
Inches	5.32	-	-	1.03	-	-
Ac-ft	79,120	-	25.09	15,270	-	0.56

(34) 01473120 SKIPPACK CREEK NEAR COLLEGEVILLE, PA.

LOCATION.--Lat 40°09'52", long 75°26'01", Montgomery County, on right bank 60 ft downstream from two-span highway bridge, 1.5 miles upstream from mouth, and 2 miles southeast of Collegeville.

DRAINAGE AREA.--53.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 99.03 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 8,400 cfs and by slope-area measurement at 40,400 cfs.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 22, 1930 hours	5,240	10.48	-	-
June 22	-	-	636	4,260
April 1966 to May 1972:				
Sept. 13, 1971	40,400	a 22.5	-	

a From floodmark

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
		Suspended sediment			Suspended sediment	
	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day
1	375	324	563	84	14	3.2
2	108	45	13	67	8	1.4
3	122	59	19	107	42	12
4	74	38	7.6	93	73	18
5	76	115	24	67	34	6.2
6	50	46	6.2	62	10	1.7
7	55	35	5.2	50	11	1.5
8	33	24	2.1	43	14	1.6
9	26	20	1.4	37	12	1.2
10	20	16	.86	30	11	.89
11	13	11	.39	24	10	.65
12	9.9	14	.37	20	9	.49
13	9.9	16	.43	403	242	496
14	18	14	.68	131	22	7.8
15	11	8	.24	82	9	2.0
16	46	120	15	62	8	1.3
17	185	532	455	62	12	2.0
18	55	66	9.8	46	9	1.1
19	57	60	9.2	50	8	1.1
20	67	47	8.5	33	7	.62
21	57	38	5.8	30	6	.49
22	1,550	636	4,260	48	12	1.6
23	405	61	79	22	7	.42
24	201	19	10	13	6	.21
25	375	91	108	12	6	.19
26	170	28	13	22	7	.42
27	117	20	6.3	9.9	7	.19
28	90	16	3.9	11	8	.24
29	113	51	16	11	7	.21
30	117	23	7.3	9.9	7	.19
31	-	-		9.9	6	.16
Total	-	-	5,651.27	-	-	565.07
Mean	154	-	-	56.5	-	-
Inches	3.19	-	-	1.21	-	-
Ac-ft	9,135	-	3.71	3,474	-	0.37

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second
June 21					June 23				
0030	1.38	53	36	0.00006	0015	4.73	796	170	0.004
1600	1.35	48	35	.00005	0430	3.62	455	86	.001
2015	1.52	77	40	.0001	0930	3.27	369	46	.0005
2400	1.56	84	55	.0001	1600	3.36	390	37	.0005
					2400	2.71	257	26	.0002
June 22					June 24				
0115	1.74	111	105	.0004	0015	2.70	255	26	.0002
0300	2.31	197	300	.002	2345	2.11	167	19	.0001
0500	2.19	179	540	.003	2400	2.16	174	20	.0001
0515	2.36	204	560	.004					
0615	3.86	518	545	.009					
0800	3.57	443	465	.006	June 25				
0915	3.24	363	405	.005	0315	2.97	309	130	.001
1230	4.21	623	330	.006	0445	3.74	485	170	.003
1315	5.19	966	505	.02	0830	3.43	408	88	.001
1500	8.12	2,760	1,400	.12	1145	4.34	662	127	.003
1600	8.96	3,540	1,900	.21	1215	4.30	650	117	.002
1930	10.48	5,240	800	.13	1700	3.05	325	64	.0006
2115	9.00	3,580	405	.05	2330	2.44	216	42	.0003
2215	6.53	1,620	265	.01	2400	2.42	213	40	.0003
2315	5.24	986	205	.006					
2400	4.79	817	172	.004	June 26				
					0015	2.41	212	40	.0003
					2400	1.89	134	21	.00009

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Percent in size class indicated, in millimeters: Sand (greater than .062)	Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 22	0625	21	495	348	545	0.008	2	98
June 22	0945	20	385	227	379	.005	1	99
June 22	1530	19	3,370	160	1,630	.17	4	96

(35) 01473880 PINE RUN TRIBUTARY AT FORT WASHINGTON, PA.

(Crest-stage station)

LOCATION.--Lat 40°08'13", long 75°11'21", Montgomery County, at corrugated half-round culvert on Delaware Road in Fort Washington Industrial Park at Fort Washington, and 300 ft above mouth.

DRAINAGE AREA.--2.01 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 160 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 128 cfs June 22 (gage height, 6.40 ft).
1962 to May 1972: Discharge, 300 cfs Mar. 7, 1967 (gage height, 7.34 ft).

(36) 01473900 WISSAHICKON CREEK AT FORT WASHINGTON, PA.

(Crest-stage station)

LOCATION.--Lat 40°07'26", long 75°13'13", Montgomery County, on concrete bridge on State Highway 73, 0.5 mile downstream from Sandy Run, and 1 mile south of Fort Washington.

DRAINAGE AREA.--40.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 140.70 ft above main sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 2,670 cfs June 22 (gage height, 10.50 ft).
1961 to May 1972: Discharge, 4,250 cfs Sept. 13, 1971 (gage height, 13.32).

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June Mean discharge (cfs)	June Suspended sediment Mean concentration (mg/l)	June Suspended sediment Tons per day	July Mean discharge (cfs)	July Suspended sediment Mean concentration (mg/l)	July Suspended sediment Tons per day
1	12,500	780	26,300	8,130	57	1,250
2	6,790	400	7,330	6,380	27	465
3	5,050	77	1,050	5,620	16	243
4	4,120	46	512	5,740	31	480
5	3,510	25	237	5,020	17	230
6	3,000	42	340	4,840	15	196
7	2,650	37	265	4,360	12	141
8	2,400	32	207	3,850	11	114
9	2,090	22	124	4,020	14	152
10	1,870	26	131	4,020	12	130
11	1,870	25	126	3,420	12	111
12	1,670	21	95	3,060	42	347
13	1,630	16	70	5,860	70	1,110
14	1,790	18	87	6,590	46	818
15	1,670	26	117	3,690	19	189
16	1,630	31	136	3,110	13	109
17	3,050	41	338	3,690	23	229
18	3,000	48	389	3,850	12	125
19	2,900	39	305	3,630	21	206
20	6,190	77	1,290	3,110	15	126
21	4,780	70	903	2, 60	13	100
22	26,200	953	93,900	2,570	14	97
23	93,400	1,780	452,000	2,240	14	85
24	73,500	928	202,000	1,980	13	69
25	26,600	189	14,600	2,240	24	145
26	16,000	98	4,320	2,240	24	145
27	12,100	65	2,120	1,980	20	107
28	9,460	67	1,710	1,770	15	72
29	8,200	42	930	1,650	18	80
30	9,670	55	1,440	1,540	16	67
31	-	-	-	1,500	13	53
Total	-	-	813,372	-	-	7,791
Mean	11,640	-	-	3,695	-	-
Inches	6.86	-	-	2.25	-	-
Ac-ft	692,800	-	534	227,200	-	5.11

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second
June 21					June 24				
0030	7.00	5,650	80	0.01	0115	14.06	92,400	1,630	4.7
0045	7.00	5,650	80	.01	1700	12.23	62,500	585	1.1
2145	6.78	4,390	65	.009	2400	10.64	40,300	420	.53
2400	6.85	4,780	100	.01					
					June 25				
June 22					0015	10.59	39,700	400	.50
0345	7.30	7,500	300	.07	1315	9.17	24,100	159	.12
1145	8.80	18,700	960	.56	2400	8.73	19,900	126	.08
2130	12.21	55,700	1,640	2.9					
2400	13.14	68,400	1,820	3.9	June 26				
					0030	8.71	19,700	125	.08
June 23					2400	8.00	13,500	75	.03
0200	13.75	87,100	1,940	5.3					
0600	14.48	99,800	2,060	6.4	June 27				
0800	14.65	103,000	2,040	6.5	0045	8.00	13,500	74	.03
1230	14.36	97,700	1,800	5.5	2400	7.62	10,500	60	.02
2000	13.87	82,200	1,440	3.7					
2400	14.04	92,100	1,600	4.6	June 28				
					0030	7.62	10,500	62	.02
					2400	7.35	8,550	51	.01

(37) 01473980 WISSAHICKON CREEK AT LIVEZEY LANE, PHILADELPHIA, PA.

(Crest-stage station)

LOCATION.--Lat 40°02'59", long 75°12'52", Philadelphia County, on left bank 300 ft upstream from Green Valley Boat Club, 500 ft downstream from Chreshiem Creek in Philadelphia.

DRAINAGE AREA.--59.2 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 78.55 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defines by current-meter measurements below 360 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 2,390 cfs June 22 (gage height, 4.39 ft).
1965 to May 1972: Discharge, 5,390 cfs Sept. 13, 1971 (gage height, 6.27 ft).

(38) 01474000 WISSAHICKON CREEK AT MOUTH, PHILADELPHIA, PA.

(Gaging station, discontinued 1970)

LOCATION.--Lat 40°00'54", long 75°12'24", Philadelphia County, on left bank 100 ft upstream from dam at Ridge Avenue, 750 ft upstream from mouth, 1,000 ft northwest of Gustine Lake in Philadelphia.

DRAINAGE AREA.--64.0 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is 26.41 ft above mean sea level.

DISCHARGE RECORD.--Peak discharge from stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 2,380 cfs 2400 hours June 22; maximum gage height, 6.02 ft 0800 hours June 23 (backwater from Schuylkill River).
1965 to May 1972: Discharge, 4,310 cfs Mar. 7, 1967 (gage height, 6.45 ft).

(39) 01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA.

LOCATION.--Lat 39°58'00", long 75°11'20", Philadelphia County, on right bank 150 ft upstream from Fairmount Dam, 1,500 ft upstream from Spring Garden Street Bridge, in Philadelphia, and 8.7 miles upstream from mouth.

DRAINAGE AREA.--1,893 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 5.74 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 46,000 cfs and extended above by logarithmic plotting.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during period of high flow, at Green Lane Avenue Bridge at Manayunk, 5 miles upstream from gaging station.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 23, 0800 hours	103,000	14.65	-	-
June 23	-	-	1,780	452,000
1869 to May 1972:				
Oct. 4, 1869	135,000	a 17.0	-	-

a From floodmark.

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Suspended sediment: Percent in size class indicated, in millimeters: Sand (greater than .062)	Suspended sediment: Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 20	1315	23.5	6,850	350	87	0.02	4	96
June 21	1540	22.0	4,390	286	65	.009	3	97
June 22	1110	22.0	17,300	227	905	.49	8	92
June 22	1810	21.5	42,000	199	1,510	2.0	14	86
June 23	1625	21.0	89,700	151	1,570	4.4	33	67
June 24	1210	18.0	77,800	167	728	1.8	25	75
June 24	1915	17.0	55,200	187	538	.93	36	64
June 25	1410	15.5	23,600	225	152	.11	14	86
June 26	1415	17.0	15,000	224	88	.04	9	91
June 27	1500	18.0	11,600	261	60	.02	6	94

(40) 01475300 DARBY CREEK AT WATERLOO MILLS NEAR DEVON, PA.

LOCATION.--Lat 40°01'21", long 75°25'20", Chester County, on left bank 125 ft upstream from bridge on Waterloo Road, 2 miles south of Devon, and 2.5 miles northwest of Newton Square.

DRAINAGE AREA.--5.15 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals since May 1972. Altitude of gage is 310 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 760 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 985 cfs 1430 hours June 22 (gage height, 5.49 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9.6	11	11...	5.7	7.7	21...	16	7.9
2....	9.3	9.9	12...	5.9	7.6	22...	268	7.1
3....	9.0	11	13...	7.6	40	23...	22	6.8
4....	7.6	9.6	14...	7.6	11	24...	15	6.6
5....	7.3	12	15...	6.4	9.0	25...	21	12
6....	7.3	10	16...	7.3	9.5	26...	13	8.0
7....	7.0	9.3	17...	12	9.2	27...	12	6.8
8....	6.7	9.0	18...	11	8.3	28...	11	6.5
9....	6.4	8.6	19...	12	7.7	29...	15	6.3
10...	6.7	7.9	20...	9.3	7.9	30...	13	6.3
						31...		6.9
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							19	9.6
RUNOFF, IN INCHES.....							4.10	2.15

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.74	11	6-22	0845	2.36	44				
6-21	1445	1.74	11	6-22	0930	3.20	155				
6-21	1645	1.95	19	6-22	1015	3.93	329	6-24	0015	1.99	20
6-21	1715	2.09	25	6-22	1130	4.46	514	6-24	2400	1.91	17
6-21	2145	1.88	16	6-22	1215	4.36	475				
6-21	2215	1.93	18	6-22	1430	5.49	985				
6-21	2245	2.22	33	6-22	1745	4.11	385	6-25	0115	1.99	20
6-21	2300	2.79	92	6-22	1845	3.40	194	6-25	0145	2.06	24
6-21	2400	3.54	226	6-22	1945	2.97	118	6-25	0445	1.99	20
				6-22	2215	2.46	53	6-25	0615	2.10	26
				6-22	2400	2.26	36	6-25	0745	2.31	40
6-22	0045	3.88	314					6-25	0900	2.46	53
6-22	0145	3.20	155					6-25	0915	2.45	52
6-22	0315	2.79	92	6-23	0015	2.25	36	6-25	1230	2.16	30
6-22	0545	2.27	37	6-23	0330	2.19	31	6-25	1730	1.96	19
6-22	0730	2.08	25	6-23	1245	2.12	27	6-25	2400	1.92	17
6-22	0815	2.11	27	6-23	2400	1.99	20				

(41) 01475510 DARBY CREEK NEAR DARBY, PA.

LOCATION.--Lat 39°55'44", long 75°16'22", Delaware County, on right bank 30 ft upstream from Providence Road Bridge, Upper Darby, 2.3 miles upstream from Cobbs Creek, and 8.4 miles above mouth.

DRAINAGE AREA.--37.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 19.41 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 920 cfs and extended above on basis of step-backwater analysis.

MAXIMUMS.--June-July 1972: Discharge, 2,690 cfs 1400 hours June 22 (gage height, 7.04 ft). 1964 to May 1972: Discharge, 4,610 cfs June 12, 1968 (gage height, 9.12 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	86	77	11...	56	54	21...	119	51
2....	77	68	12...	56	51	22...	1,180	47
3....	92	66	13...	68	333	23...	231	45
4....	66	68	14...	71	79	24...	124	44
5....	64	88	15...	59	62	25...	182	114
6....	62	68	16...	56	57	26...	99	86
7....	59	61	17...	88	62	27...	81	45
8....	57	66	18...	132	54	28...	73	42
9....	57	64	19...	99	51	29...	96	41
10...	57	57	20...	94	50	30...	189	41
						31...		45
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							128	69
RUNOFF, IN INCHES.....							3.81	2.13

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.64	68	6-22	1345	6.79	2,500	6-24	0230	2.04	161
6-21	1045	1.56	54	6-22	1400	7.04	2,690	6-24	1015	1.89	119
6-21	1600	1.66	71	6-22	1600	6.25	2,130	6-24	2400	1.82	101
6-21	2045	1.76	92	6-22	2030	5.05	1,450				
6-21	2200	2.00	155	6-22	2330	3.11	555				
6-21	2215	2.50	322	6-22	2400	2.94	486	6-25	0400	1.88	116
6-21	2245	3.47	726					6-25	0515	2.16	198
6-21	2330	3.77	861					6-25	0700	2.34	259
6-21	2400	3.83	888	6-23	0015	2.88	462	6-25	0915	2.23	221
				6-23	0315	2.37	270	6-25	1215	2.45	298
				6-23	1200	2.19	208	6-25	1300	2.41	284
6-22	0100	3.28	631	6-23	2130	2.04	161	6-25	1815	2.02	155
6-22	0245	3.63	789	6-23	2200	2.46	301	6-25	2400	1.87	114
6-22	0730	2.75	410	6-23	2330	2.35	263				
6-22	0845	2.96	494	6-23	2400	2.24	225				
6-22	0930	3.93	924					6-26	0030	1.87	114
6-22	1200	4.00	955					6-26	1145	1.81	99
6-22	1215	4.19	1,040	6-24	0015	2.19	208	6-26	2400	1.76	88

(42) 01475530 COBBS CREEK AT U. S. HIGHWAY NO. 1 NEAR PHILADELPHIA, PA.

LOCATION.--Lat 39°59'29", long 75°16'49", Philadelphia County, on left bank 30 ft downstream from bridge on U. S. Highway No. 1 and 50 ft upstream from unnamed tributary at west city limits of Philadelphia.

DRAINAGE AREA.--4.78 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 121.76 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 160 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 306 cfs 1900 hours June 22 (gage height, 5.12 ft). 1965 to May 1972: Discharge, 1,040 cfs Sept. 11, 1971 (gage height, 6.97 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.36	9.1	6-22	0845	5.07	274	6-23	2130	2.75	22
6-21	1215	2.40	10	6-22	0900	5.41	342	6-23	2145	3.36	57
6-21	1545	2.43	11	6-22	0930	4.92	244	6-23	2200	3.46	65
6-21	1645	2.61	17	6-22	1000	4.69	204	6-23	2230	3.23	47
6-21	1700	2.63	18	6-22	1030	4.65	198	6-23	2245	3.58	74
6-21	1730	2.83	26	6-22	1130	3.84	98	6-23	2400	3.22	46
6-21	1800	2.82	26	6-22	1215	3.58	74				
6-21	1830	2.87	28	6-22	1230	3.82	96				
6-21	2115	2.54	14	6-22	1245	4.83	226	6-24	0015	3.15	42
6-21	2230	2.50	13	6-22	1300	6.55	640	6-24	0130	2.86	26
6-21	2245	2.57	15	6-22	1345	7.97	1,200	6-24	0430	2.63	17
6-21	2300	2.91	30	6-22	1400	8.18	1,300	6-24	2400	2.49	12
6-21	2315	3.53	72	6-22	1430	7.84	1,140				
6-21	2345	3.54	73	6-22	1515	6.42	601				
6-21	2400	3.81	97	6-22	1630	4.82	224	6-25	0115	2.51	13
				6-22	1715	4.05	119	6-25	0200	2.63	17
				6-22	1830	3.45	64	6-25	0400	2.63	17
6-22	0015	3.68	83	6-22	2030	3.07	37	6-25	0430	2.83	25
6-22	0100	3.86	99	6-22	2400	2.80	24	6-25	0500	2.87	27
6-22	0145	3.52	70					6-25	0630	3.51	69
6-22	0230	3.40	60					6-25	0915	3.15	42
6-22	0330	3.05	36	6-23	0330	2.72	20	6-25	1100	3.07	37
6-22	0530	2.70	20	6-23	0715	2.97	32	6-25	1330	2.74	21
6-22	0715	2.61	16	6-23	1145	2.74	21	6-25	1815	2.56	14
6-22	0730	3.06	37	6-23	1330	2.79	23	6-25	2400	2.51	13
6-22	0745	3.23	47	6-23	1915	2.59	15				
6-22	0830	4.23	140	6-23	2115	2.57	15				

(44) 01475550 COBBS CREEK AT DARBY, PA.

LOCATION.--39°55'02", long 75°14'22", Delaware County, on right bank at Darby, 60 ft upstream from dam, 200 ft upstream from bridge on Woodland Avenue, and 1.1 miles upstream from mouth.

DRAINAGE AREA.--22.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 11.93 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 850 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 2,010 cfs 1545 hours June 22 (gage height, 5.16 ft). 1964 to May 1972: Discharge, 4,390 cfs Sept. 11, 1971 (gage height, 7.21 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	21	27	11...	14	16	21...	29	15
2....	64	19	12...	15	16	22...	565	14
3....	41	18	13...	44	286	23...	73	13
4....	20	17	14...	29	17	24...	46	13
5....	19	39	15...	15	15	25...	88	135
6....	17	17	16...	17	14	26...	23	21
7....	17	20	17...	46	15	27...	18	15
8....	17	21	18...	156	14	28...	17	15
9....	16	17	19...	27	15	29...	18	14
10...	16	16	20...	19	15	30...	153	14
						31...		15
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							55	30
RUNOFF, IN INCHES.....							2.81	1.55

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6.2	4.7	11...	4.4	3.2	21...	6.6	4.2
2....	16	4.2	12...	6.2	3.2	22...	109	3.7
3....	7.6	4.2	13...	10	31	23...	17	3.7
4....	5.0	4.2	14...	10	5.9	24...	13	3.4
5....	5.0	8.3	15...	6.2	5.0	25...	16	15
6....	4.4	4.7	16...	6.2	4.4	26...	6.2	6.2
7....	4.4	3.9	17...	17	4.2	27...	5.3	4.4
8....	3.9	5.0	18...	20	3.9	28...	4.7	4.2
9....	4.2	3.7	19...	7.6	3.9	29...	5.0	3.9
10...	4.2	3.4	20...	5.9	3.9	30...	12	3.9
						31...		4.7
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							12	5.6
RUNOFF, IN INCHES							2.72	1.34

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.32	4.3	6-22	1200	2.50	10				
6-21	0315	2.32	4.3	6-22	1215	2.72	21	6-24	0230	2.48	8.6
6-21	0430	2.34	5.0	6-22	1230	2.74	22	6-24	0315	2.72	19
6-21	0530	2.32	4.3	6-22	1245	3.00	38	6-24	0330	2.86	27
6-21	0930	2.32	4.3	6-22	1300	3.50	80	6-24	0400	3.32	61
6-21	1100	2.34	5.0	6-22	1315	4.30	175	6-24	0515	2.90	29
6-21	1200	2.32	4.3	6-22	1530	4.16	157	6-24	0630	2.70	18
6-21	1315	2.36	5.5	6-22	1615	3.56	86	6-24	0915	2.54	11
6-21	1530	2.32	4.3	6-22	1700	3.40	71	6-24	1345	2.48	8.6
6-21	1845	2.34	5.0	6-22	1715	3.64	94	6-24	2400	2.42	6.5
6-21	2015	2.38	6.1	6-22	1730	4.02	139				
6-21	2100	2.50	10	6-22	1800	5.04	291				
6-21	2115	2.48	9.6	6-22	1900	5.12	306	6-25	0200	2.40	5.8
6-21	2200	2.80	25	6-22	2030	4.96	277	6-25	0500	2.40	5.8
6-21	2245	2.66	17	6-22	2230	3.68	99	6-25	0545	2.44	7.2
6-21	2315	2.68	18	6-22	2345	3.16	50	6-25	0630	2.54	11
6-21	2400	2.58	14	6-22	2400	3.10	45	6-25	0745	2.48	8.6
								6-25	0915	2.48	8.6
								6-25	1030	2.72	19
6-22	0215	2.42	7.5	6-23	0015	3.10	43	6-25	1100	2.86	27
6-22	0315	2.40	6.8	6-23	0215	2.84	26	6-25	1130	3.10	43
6-22	0330	2.76	23	6-23	0445	2.68	17	6-25	1215	3.16	47
6-22	0345	2.78	24	6-23	0815	2.58	12	6-25	1245	3.10	43
6-22	0400	2.92	32	6-23	1015	2.68	17	6-25	1415	2.94	32
6-22	0430	3.64	94	6-23	1245	2.78	22	6-25	1545	2.98	35
6-22	0445	3.56	86	6-23	1600	2.60	13	6-25	1715	2.74	20
6-22	0500	3.76	108	6-23	1715	2.64	15	6-25	1915	2.58	12
6-22	0615	3.36	67	6-23	1915	2.66	16	6-25	2315	2.46	8.0
6-22	0800	2.88	30	6-23	2245	2.52	10	6-25	2400	2.46	8.0
6-22	0930	2.64	16	6-23	2400	2.50	9.3				
6-22	1145	2.50	10								

(43) 01475540 COBBS CREEK BELOW INDIAN CREEK NEAR UPPER DARBY, PA.

LOCATION.--Lat 39°58'09", long 75°15'31", Philadelphia County, on left bank 1,000 ft downstream from Indian Creek and 1,200 ft upstream from Naylor Creek, Philadelphia.

DRAINAGE AREA.--9.65 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 73.69 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200 cfs and by slope-area measurements at 974 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,300 cfs 1400 hours June 22 (gage height, 8.18 ft). 1965 to May 1972: Discharge, 2,920 cfs Sept. 11, 1971 (gage height, 11.12 ft, from floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	12	14	11...	8.5	9.5	21...	22	10
2....	38	12	12...	8.5	9.5	22...	172	9.2
3....	14	11	13...	16	79	23...	29	9.0
4....	12	10	14...	11	12	24...	18	8.5
5....	11	18	15...	8.7	10	25...	31	
6....	9.5	11	16...	22	9.5	26...	12	1
7....	9.5	10	17...	34	9.2	27...	10	9.5
8....	8.7	14	18...	50	9.5	28...	9.5	9..
9....	8.7	11	19...	13	10	29...	10	8.7
10...	9.0	10	20...	10	11	30...	62	8.7
						31...		9.5
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							23	15
RUNOFF, IN INCHES							2.66	1.75

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.67	17	6-22	1600	5.09	1,950	6-24	1000	1.78	29
6-21	1615	1.68	17	6-22	1715	3.66	856	6-24	1645	1.77	27
6-21	1700	1.72	21	6-22	1845	2.76	382	6-24	2300	1.75	23
6-21	1745	1.76	29	6-22	2015	2.33	203	6-24	2400	1.76	25
6-21	1845	1.77	31	6-22	2230	2.07	111				
6-21	2030	1.80	39	6-22	2400	1.99	85				
6-21	2200	1.85	51					6-25	0230	1.76	25
6-21	2230	1.88	58					6-25	0330	1.77	27
6-21	2300	2.15	146	6-23	0315	1.90	58	6-25	0430	1.88	53
6-21	2345	2.25	181	6-23	0415	1.95	73	6-25	0445	1.95	73
6-21	2400	2.37	226	6-23	0500	1.99	85	6-25	0600	2.45	250
				6-23	0630	2.02	95	6-25	0630	2.49	266
				6-23	0830	2.04	101	6-25	0845	2.30	192
6-22	0015	3.01	505	6-23	1215	1.95	73	6-25	1130	2.12	128
6-22	0345	2.24	170	6-23	1530	1.92	64	6-25	1545	1.89	56
6-22	0600	1.97	79	6-23	2115	1.80	34	6-25	1900	1.80	34
6-22	0700	1.90	58	6-23	2245	1.80	34	6-25	2400	1.76	25
6-22	0730	1.93	67	6-23	2300	2.06	108				
6-22	0745	2.12	128	6-23	2315	2.33	203				
6-22	0915	3.46	736	6-23	2330	2.39	226	6-26	0930	1.73	20
6-22	1000	3.79	934	6-23	2400	2.34	207	6-26	1615	1.76	25
6-22	1200	3.11	555					6-26	1730	1.80	34
6-22	1230	3.26	630					6-26	1915	1.74	21
6-22	1300	3.73	898	6-24	0015	2.29	188	6-26	2400	1.73	20
6-22	1330	4.45	1,400	6-24	0330	1.95	73				
6-22	1545	5.16	2,010	6-24	0600	1.83	41				

(45) 01476030 LITTLE CRUM CREEK AT SWARTHMORE, PA.

LOCATION.--Lat 39°53'42", long 75°20'19", Delaware County, on left bridge abutment at Michigan Avenue, Ridely Township, Swarthmore.

DRAINAGE AREA.--1.15 sq mi.

GAGE-HEIGHT RECORD.--Digital recorder tape punched at 5-minute intervals except July 16-31. Altitude of gage is 40 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 48 cfs and extended above by logarithmic plotting. Record for July 16-31 estimated on basis of weather records and records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 115 cfs 1230 hours June 22 (gage height, 4.34 ft). May 1971 to May 1972: Discharge, 605 cfs Sept. 13, 1971 (gage height, 9.77 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	.81	1.1	11...	.66	.45	21...	3.7	.64
2....	1.6	.93	12...	.66	.36	22...	28	.58
3....	1.0	.93	13...	1.3	8.6	23...	3.5	.54
4....	.93	.76	14...	1.5	1.4	24...	1.7	.50
5....	.87	1.1	15...	1.1	1.2	25...	2.6	.80
6....	.81	.76	16...	1.1	.90	26...	1.3	.56
7....	.76	.71	17...	1.2	.84	27...	1.1	.47
8....	.76	.81	18...	5.8	.78	28...	1.1	.44
9....	.81	.71	19...	1.1	.70	29...	1.9	.42
10...	.76	.62	20...	.93	.64	30...	3.7	.45
						31...		.47
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							2.4	.97
RUNOFF, IN INCHES							2.36	0.98

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0010	2.49	0.9	6-22	0845	3.03	19	6-23	2050	2.57	2.0
6-21	1330	2.50	1.0	6-22	0855	3.10	23	6-23	2125	2.59	2.1
6-21	1500	2.53	1.1	6-22	0910	3.41	42	6-23	2140	2.63	2.7
6-21	1555	2.58	1.6	6-22	0930	3.92	80	6-23	2145	3.08	20
6-21	1710	2.65	2.5	6-22	1005	3.49	47	6-23	2150	3.08	20
6-21	1905	2.54	1.2	6-22	1030	3.16	25	6-23	2225	2.91	11
6-21	2035	2.50	1.0	6-22	1100	3.06	21	6-23	2320	2.74	5.2
6-21	2135	2.51	1.0	6-22	1145	3.03	19	6-23	2355	2.68	3.6
6-21	2140	2.52	1.0	6-22	1200	3.35	37	6-23	2400	2.68	3.6
6-21	2145	2.69	3.0	6-22	1205	3.54	49				
6-21	2150	2.82	6.3	6-22	1215	4.13	90				
6-21	2155	2.87	8.1	6-22	1230	4.34	105	6-24	0010	2.67	3.0
6-21	2200	3.17	22	6-22	1235	4.29	101	6-24	0125	2.62	2.2
6-21	2205	3.52	44	6-22	1535	3.52	48	6-24	0615	2.57	1.7
6-21	2215	3.74	59	6-22	1650	3.09	22	6-24	2055	2.53	1.3
6-21	2250	3.14	21	6-22	1800	2.90	13	6-24	2400	2.53	1.3
6-21	2310	2.99	13	6-22	1925	2.76	7.0				
6-21	2355	2.80	5.7	6-22	2205	2.67	4.3				
6-21	2400	2.79	5.5	6-22	2400	2.63	3.5	6-25	0345	2.55	1.5
								6-25	0435	2.62	2.2
								6-25	0510	2.75	5.0
6-22	0005	2.77	7.3	6-23	0005	2.63	2.7	6-25	0555	2.87	9.0
6-22	0105	2.68	4.6	6-23	0310	2.62	2.5	6-25	0625	2.87	9.0
6-22	0255	2.60	2.8	6-23	0430	2.70	4.0	6-25	0710	2.82	7.0
6-22	0655	2.55	2.1	6-23	0615	2.70	4.0	6-25	0825	2.71	3.8
6-22	0725	2.57	2.5	6-23	0720	2.70	4.0	6-25	1100	2.66	2.8
6-22	0745	2.63	3.5	6-23	0920	2.63	2.7	6-25	1235	2.62	2.2
6-22	0750	2.84	10	6-23	1135	2.62	2.5	6-25	1445	2.58	1.8
6-22	0805	3.10	23	6-23	1300	2.68	3.6	6-25	2135	2.54	1.5
6-22	0815	3.25	31	6-23	1510	2.61	2.5	6-25	2400	2.53	1.3

(46) 01477000 CHESTER CREEK NEAR CHESTER, PA.

LOCATION.--Lat 39°52'08", long 75°24'31", Delaware County, on right bank 30 ft downstream from Dutton Mill Bridge and 3 miles northwest of Chester.

DRAINAGE AREA.--61.1 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 13-14. Datum of gage is 23.41 ft above mean sea level (Penn Central Railroad bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,400 cfs, by contracted-opening measurement at 9,380 cfs, and by slope-area measurement at 21,300 cfs. Record for June 13-14 estimated on basis of correlations with records for nearby stations and one discharge measurement.

MAXIMUMS.--June-July 1972: Discharge, 6,180 cfs 1500 hours June 22 (gage height, 13.28 ft). 1932 to May 1972: Discharge, 21,300 cfs (revised) Sept. 13, 1971 (gage height, 24.59 ft, from floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	109	104	11...	46	87	21...	143	54
2....	79	81	12...	42	79	22...	2,150	51
3....	81	75	13...	90	308	23...	377	46
4....	70	71	14...	117	106	24...	125	62
5....	66	75	15...	98	76	25...	137	73
6....	63	75	16...	89	73	26...	108	84
7....	61	75	17...	100	68	27...	106	71
8....	56	89	18...	119	62	28...	99	71
9....	54	94	19...	119	59	29...	112	68
10...	49	89	20...	106	55	30...	175	67
						31...		70
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							172	81
RUNOFF, IN INCHES							3.13	1.53

(48) 01478000 CHRISTINA RIVER AT COOCHS BRIDGE, DEL.

LOCATION.--Lat 39°38'16", long 75°43'46", New Castle County, on left bank 82 ft downstream from highway bridge, 0.3 mile south of Coochs Bridge, 3.3 miles upstream from Muddy Run, 3.5 miles south of Newark, and 23.0 miles upstream from mouth.

DRAINAGE AREA.--20.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except July 4-7. Datum of gage is 25.6 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,100 cfs. Discharge July 4-7 estimated on basis of records for Shellpot Creek at Wilmington, Little Mill Creek at Elsmere, and Red Clay Creek at Wooddale.

MAXIMUMS.--June-July 1972: Discharge, 3,320 cfs 1630 hours June 22 (gage height, 11.35 ft). 1944 to May 1972: Discharge, 4,330 cfs May 1, 1947 (gage height, 12.41 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	15	47	11...	11	17	21...	74	14
2....	13	24	12...	11	17	22...	1,300	12
3....	13	69	13...	16	96	23...	203	12
4....	12	50	14...	23	30	24...	75	12
5....	14	30	15...	25	18	25...	89	11
6....	12	25	16...	25	16	26...	44	12
7....	13	22	17...	25	21	27...	29	10
8....	11	20	18...	28	16	28...	23	11
9....	12	20	19...	32	15	29...	37	11
10...	11	19	20...	32	14	30...	66	10
						31...		13
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							76	23
RUNOFF, IN INCHES							4.16	1.30

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	3.15	34					6-22	2200	9.38	854
				6-22	0200	4.94	182	6-22	2400	7.25	396
				6-22	0600	3.66	78				
6-21	1200	3.15	34	6-22	0800	3.53	67				
6-21	1500	3.15	34	6-22	0900	4.23	125	6-23	0400	5.85	229
6-21	1600	3.91	98	6-22	1000	8.91	703	6-23	0800	5.57	206
6-21	1800	4.09	113	6-22	1200	10.40	1,880	6-23	1200	4.78	147
6-21	2000	4.09	113	6-22	1400	10.87	2,670	6-23	2400	4.32	112
6-21	2100	4.09	113	6-22	1600	11.32	3,280				
6-21	2200	5.20	201	6-22	1630	11.35	3,320				
6-21	2400	5.07	191	6-22	1800	11.19	3,130	6-24	1200	3.80	73
				6-22	2000	10.59	2,220	6-24	2400	3.56	55

(49) 01478200 MIDDLE BRANCH WHITE CLAY CREEK NEAR LANDENBERG, PA.

(Crest-stage station)

LOCATION.--Lat 39°46'54", long 75°48'03", Chester County, at bridge on L.R. 15017, 1.4 miles above mouth, and 1.8 miles west of Landenberg.

DRAINAGE AREA.--12.7 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 290 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,480 cfs and by slope-area measurement at 3,860 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,860 cfs June 22 (gage height, 12.29 ft). 1960 to May 1972: Discharge, 1,900 cfs Sept. 12, 1960 (gage height, 9.41 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.07	98	6-22	1315	11.55	4,550	6-24	2400	3.48	103
6-21	1430	3.12	108	6-22	1500	13.28	6,180				
6-21	1900	3.72	240	6-22	1530	13.17	6,070				
6-21	2300	3.73	242	6-22	2015	10.84	3,970	6-25	0600	3.52	110
6-21	2345	3.80	260	6-22	2330	7.90	1,880	6-25	1345	3.93	196
6-21	2400	3.79	257	6-22	2400	7.55	1,670	6-25	1400	3.92	194
								6-25	2315	3.54	114
								6-25	2400	3.53	112
6-22	0030	3.77	244	6-23	0015	7.38	1,570				
6-22	0230	3.96	268	6-23	0300	5.99	916				
6-22	0545	3.84	237	6-23	0615	4.60	380	6-26	1145	3.42	92
6-22	0815	3.69	201	6-23	1000	4.12	243	6-26	1215	3.57	119
6-22	0915	4.02	283	6-23	2400	3.78	162	6-26	1530	3.57	119
6-22	1100	5.53	746					6-26	2400	3.53	112
6-22	1145	7.25	1,500								
6-22	1215	8.66	2,370	6-24	0030	3.78	162				

(47) 01477800 SHELLPOT CREEK AT WILMINGTON, DEL.

LOCATION.--Lat 39°45'39", long 75°31'10", New Castle County, on right bank 100 ft east of intersection of Forty-fourth and Pine Streets in Clifton Park, 700 ft downstream from highway bridge on North Market Street in Wilmington, 0.2 mile downstream from Matson Run, and 2.3 miles upstream from mouth.

DRAINAGE AREA.--7.46 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 5-minute intervals. Datum of gage is 15.16 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 170 cfs, and by computation of flow over dam at 2,110 cfs, Type V culvert measurement at 4,650 cfs, and contracted-opening measurements at 2,190 cfs, 4,110 cfs, and 6,850 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,240 cfs 1130 hours June 22 (gage height, 6.66 ft). 1940 to May 1972: Discharge, 6,850 cfs Sept. 13, 1971 (gage height, 11.91 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.9	15	11...	1.0	2.2	21...	12	2.2
2....	1.4	4.6	12...	1.1	2.1	22...	501	2.2
3....	1.3	3.8	13...	5.3	168	23...	35	2.0
4....	1.4	3.1	14...	7.1	9.9	24...	9.8	2.0
5....	1.7	7.6	15...	1.6	4.5	25...	32	5.1
6....	1.2	4.3	16...	1.4	3.5	26...	6.9	4.0
7....	1.2	2.6	17...	2.0	3.2	27...	4.2	1.5
8....	1.1	12	18...	22	2.9	28...	3.4	1.5
9....	1.1	4.1	19...	5.6	2.4	29...	9.3	1.4
10...	1.2	2.5	20...	2.2	2.3	30...	78	1.3
						31...		2.1
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							25	9.2
RUNOFF,IN INCHES.....							3.77	1.43

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0010	1.69	1.7	6-21	2215	2.32	58	6-22	1700	3.13	355
6-21	0535	1.70	2.0	6-21	2235	2.21	39	6-22	1830	2.70	163
6-21	0605	1.75	2.7	6-21	2325	2.35	64	6-22	2010	2.46	90
6-21	0740	1.70	2.0	6-21	2400	2.40	74	6-22	2240	2.28	53
6-21	1315	1.70	2.0					6-22	2400	2.22	42
6-21	1350	1.75	2.7								
6-21	1410	1.81	4.2	6-22	0235	2.14	31				
6-21	1435	1.94	10	6-22	0300	2.18	36	6-23	0225	2.16	33
6-21	1510	1.95	11	6-22	0315	2.22	42	6-23	0510	2.17	35
6-21	1525	1.90	7.7	6-22	0350	2.10	25	6-23	0630	2.23	44
6-21	1600	1.85	5.8	6-22	0635	1.98	14	6-23	1005	2.19	38
6-21	1610	1.86	6.2	6-22	0720	2.01	16	6-23	1050	2.20	39
6-21	1630	1.95	11	6-22	0735	2.11	26	6-23	1135	2.22	42
6-21	1720	1.85	5.8	6-22	0745	2.23	44	6-23	1300	2.24	46
6-21	1745	1.85	5.8	6-22	0820	2.18	36	6-23	1405	2.29	54
6-21	1820	1.94	10	6-22	0845	2.37	70	6-23	1415	2.29	54
6-21	1825	1.94	10	6-22	0855	2.35	66	6-23	1705	2.15	32
6-21	1830	1.98	13	6-22	0905	2.51	103	6-23	2205	2.04	19
6-21	1840	2.09	23	6-22	0910	2.69	160	6-23	2400	2.01	16
6-21	2055	2.02	16	6-22	0920	3.21	395				
6-21	2100	2.07	21	6-22	0945	3.53	568				
6-21	2120	2.35	64	6-22	1055	6.39	2,070	6-24	0025	2.01	16
6-21	2140	2.20	38	6-22	1130	6.66	2,240	6-24	1310	1.91	8.8
6-21	2150	2.23	42	6-22	1240	6.10	1,920	6-24	2240	1.86	6.5
6-21	2200	2.40	74	6-22	1510	4.63	1,190	6-24	2400	1.86	6.5
6-21	2205	2.41	76	6-22	1620	3.50	550				

(50) 01478500 WHITE CLAY CREEK ABOVE NEWARK, DEL.

LOCATION.--Lat 39°42'52", long 75°45'34", New Castle County, on right bank at downstream wingwall of abandoned bridge, 0.9 mile downstream from small tributary, 1.7 miles southeast of Delaware-Maryland-Pennsylvania State corner, 2.1 miles downstream from Pennsylvania-Delaware State line, 2.2 miles north of Newark, and 12.8 miles upstream from mouth.

DRAINAGE AREA.--66.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 24 to July 11.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,800 cfs and by contracted-opening measurements at 4,540 cfs and 10,200 cfs. Discharge June 24 to July 11 estimated on basis of record for White Clay Creek near Newark.

MAXIMUMS--June-July 1972: Discharge, 10,200 cfs 1745 hours June 22 (gage height, 13.77 ft). 1953-1959, 1963 to May 1972: Discharge, 4,540 cfs Aug. 10, 1967 (gage height, 9.97 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	96	180	11...	65	96	21...	126	91
2....	85	130	12...	63	91	22...	3,560	88
3....	78	170	13...	68	538	23...	624	83
4....	77	150	14...	89	192	24...	255	82
5....	81	130	15...	75	134	25...	280	80
6....	75	140	16...	69	113	26...	180	78
7....	78	115	17...	97	115	27...	145	76
8....	70	110	18...	80	104	28...	130	78
9....	68	120	19...	124	100	29...	170	77
10...	67	105	20...	77	94	30...	240	76
						31...		78
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							243	123
RUNOFF,IN INCHES.....							4.07	2.13

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.47	70	6-22	0900	2.28	293				
6-21	1330	1.55	83	6-22	1000	2.93	521				
6-21	1745	1.78	132	6-22	1015	3.46	706	6-23	0015	6.65	2,270
6-21	2000	2.17	246	6-22	1115	7.20	2,600	6-23	0215	4.13	972
6-21	2400	2.50	360	6-22	1345	10.26	4,780	6-23	0415	3.33	661
				6-22	1730	13.68	9,970	6-23	1215	2.68	434
				6-22	1745	13.77	10,200	6-23	1645	3.08	573
6-22	0215	2.78	468	6-22	2400	7.04	2,500	6-23	2400	2.39	347

(51) 01478950 PIKE CREEK NEAR NEWARK, DEL.

(Flood-hydrograph station)

LOCATION.--Lat 39°42'11", long 75°41'41", New Castle County, on right upstream wingwall of bridge on State Highway 2, 2.6 miles northeast of Newark, and 0.4 mile upstream from mouth.

DRAINAGE AREA.--6.04 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 40 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 240 cfs, by slope-area measurement at 305 cfs and by contracted-opening measurement at 2,550 cfs.

MAXIMUMS.--June-July 1972: Discharge, 942 cfs 1300 hours June 22 (gage height, 6.78 ft). 1969 to May 1972: Discharge, 2,550 cfs July 28, 1969 (gage height, 9.15 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.03	4.8					6-22	1630	4.05	237
6-21	0715	2.05	5.5					6-22	1745	3.30	133
6-21	0815	2.07	6.0	6-22	0100	2.29	18	6-22	2045	2.68	58
6-21	1200	2.07	6.0	6-22	0245	2.20	12	6-22	2230	2.55	44
6-21	1245	2.10	7.0	6-22	0315	2.21	13	6-22	2400	2.53	41
6-21	1315	2.25	16	6-22	0330	2.25	16				
6-21	1345	2.27	17	6-22	0345	2.37	25				
6-21	1415	2.23	14	6-22	0415	2.34	23	6-23	0215	2.56	45
6-21	1445	2.41	29	6-22	0500	2.23	14	6-23	0415	2.62	51
6-21	1530	2.41	29	6-22	0815	2.18	11	6-23	1030	2.47	35
6-21	1645	2.32	21	6-22	0830	2.28	18	6-23	1115	2.51	39
6-21	1845	2.20	12	6-22	0845	2.40	28	6-23	1200	2.66	56
6-21	2030	2.15	9.5	6-22	0900	2.62	51	6-23	1515	2.54	42
6-21	2100	2.18	11	6-22	0945	5.12	427	6-23	2045	2.40	28
6-21	2115	2.26	16	6-22	1030	5.45	508	6-23	2400	2.36	24
6-21	2130	2.56	45	6-22	1300	6.78	942				
6-21	2145	2.67	57	6-22	1315	6.65	890				
6-21	2245	2.37	25	6-22	1445	6.29	757	6-24	0145	2.36	24
6-21	2330	2.48	36	6-22	1515	5.77	601	6-24	2400	2.27	17
6-21	2400	2.42	30	6-22	1530	5.03	407				

(52) 01479000 WHITE CLAY CREEK NEAR NEWARK, DEL.

LOCATION.--Lat 39°42'01", long 75°41'00", New Castle County, on left bank 300 ft upstream from Baltimore & Ohio Railroad bridge, 0.4 mile downstream from Pike Creek, 3.5 miles east of Newark, and 5.5 miles upstream from mouth.

DRAINAGE AREA.--87.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0600 to 1400 June 23, for which record was completed on basis of normal recession and comparison with record for White Clay Creek above Newark. Datum of gage is 11.6 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,000 cfs and by contracted-opening and flow-over-road measurement at 9,080 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,080 cfs 2015 hours June 22 (gage height, 17.74 ft). 1932-36, 1944-57, 1960 to May 1972: Discharge, 6,640 cfs Aug. 10, 1967 (gage height, 16.41 ft).

Maximum stage known, 23 ft in July 1937 (probably affected by backwater from railroad bridge which has since been raised and widened), from information by Baltimore & Ohio Railroad.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	119	222	11...	78	114	21...	159	100
2...	102	156	12...	76	110	22...	3,980	97
3...	98	192	13...	102	640	23...	1,470	92
4...	94	165	14...	126	218	24...	353	87
5...	109	167	15...	98	137	25...	321	85
6...	94	166	16...	85	126	26...	216	81
7...	97	139	17...	130	132	27...	175	79
8...	85	133	18...	112	117	28...	154	81
9...	83	137	19...	165	113	29...	199	78
10...	81	124	20...	106	105	30...	277	80
						31...		88
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							311	141
RUNOFF, IN INCHES							3.96	1.85

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	4.72	93	6-22	0500	6.93	482	6-23	0600	9.01	1,200
6-21	0800	4.74	96	6-22	0800	6.54	385	6-23	0800	8.60	1,030
6-21	1200	4.76	98	6-22	0930	7.24	560	6-23	1200	8.02	798
6-21	1400	4.88	117	6-22	1000	8.64	1,050	6-23	1400	7.98	782
6-21	1500	5.05	142	6-22	1200	12.74	3,420	6-23	1600	8.03	802
6-21	1600	5.38	206	6-22	1400	15.33	5,960	6-23	1800	8.04	806
6-21	1800	5.29	188	6-22	1600	15.97	6,670	6-23	2200	7.39	598
6-21	2000	5.22	174	6-22	2015	17.74	9,080	6-23	2400	7.11	528
6-21	2100	5.42	214	6-22	2400	15.92	6,610				
6-21	2200	6.32	394								
6-21	2400	6.78	486					6-24	0200	6.91	478
				6-23	0100	15.44	6,080	6-24	0800	6.50	375
				6-23	0300	12.02	2,900	6-24	1400	6.25	323
6-22	0200	6.56	390	6-23	0500	9.41	1,400	6-24	2400	5.94	261
6-22	0400	6.90	475								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.66	55	6-22	0830	3.20	235				
6-21	1330	2.71	64	6-22	0915	3.31	291	6-23	0015	4.04	694
6-21	1700	2.84	98	6-22	1015	3.92	626	6-23	0130	3.82	571
6-21	1815	2.95	133	6-22	1045	4.61	1,040	6-23	0615	3.51	401
6-21	1930	3.14	208	6-22	1130	5.78	1,850	6-23	1345	3.35	313
6-21	1945	3.13	204	6-22	1615	8.82	4,020	6-23	1700	3.44	362
6-21	2330	3.04	166	6-22	1730	8.96	4,120	6-23	2400	3.16	217
6-21	2400	3.05	170	6-22	2030	7.93	3,400				
				6-22	2300	5.14	1,400				
				6-22	2345	4.29	844	6-24	0030	3.15	213
6-22	0315	3.31	291	6-22	2400	4.19	784	6-24	1830	2.96	136
6-22	0530	3.26	265					6-24	2400	2.94	130

(56) 01480100 LITTLE MILL CREEK AT ELSMERE, DEL.

LOCATION.--Lat 39°44'05", long 75°35'14", New Castle County, on left bank at downstream side of highway bridge on North du Pont Road at Elsmere, 0.5 mile downstream from unnamed tributary, and 2.2 miles upstream from mouth.

DRAINAGE AREA.--6.70 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 48.62 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,130 cfs 1200 hours June 22 (gage height, 5.85 ft). 1964 to May 1972: Discharge, 3,960 cfs Aug. 10, 1967 (gage height, 8.58 ft), from stage-discharge relation defined by current-meter measurements below 380 cfs and contracted-opening measurement at 3,960 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	8.0	8.7	11...	2.8	3.1	21...	23	4.7
2...	5.0	5.0	12...	2.6	3.1	22...	298	4.7
3...	4.4	9.5	13...	7.7	95	23...	36	5.5
4...	4.1	5.8	14...	7.2	12	24...	9.3	4.1
5...	5.5	8.3	15...	3.8	8.0	25...	27	3.8
6...	4.1	5.2	16...	3.0	7.2	26...	7.6	3.3
7...	3.8	4.1	17...	3.8	6.8	27...	5.5	3.3
8...	3.3	6.6	18...	13	5.5	28...	4.7	3.3
9...	3.3	4.1	19...	17	5.8	29...	14	3.3
10...	3.1	3.3	20...	4.4	4.7	30...	21	3.8
						31...		4.7
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							19	8.3
RUNOFF, IN INCHES							3.09	1.42

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.86	3.5	6-21	2300	2.64	65	6-22	1700	3.58	269
				6-21	2400	2.54	52	6-22	2000	2.87	97
								6-22	2400	2.67	64
6-21	0600	1.88	4.1								
6-21	0900	2.02	8.9	6-22	0300	2.32	25				
6-21	1100	1.92	5.2	6-22	0500	2.36	28	6-23	0400	2.64	60
6-21	1300	1.98	7.2	6-22	0800	2.25	20	6-23	0800	2.54	47
6-21	1400	2.50	47	6-22	0900	2.80	84	6-23	1000	2.36	28
6-21	1500	2.63	64	6-22	1000	5.24	886	6-23	1200	2.45	37
6-21	1600	2.42	38	6-22	1100	5.70	1,070	6-23	1500	2.39	31
6-21	1700	2.28	25	6-22	1200	5.85	1,130	6-23	1900	2.24	19
6-21	2000	2.13	14	6-22	1300	5.78	1,100	6-23	2400	2.15	13
6-21	2100	2.37	33	6-22	1500	4.60	630				

(53) 01479200 MILL CREEK AT HOCKESSIN, DEL.

(Crest-stage station)

LOCATION.--Lat 39°46'31", long 75°41'26", New Castle County, 20 ft above bridge on Brackenville Road, and 0.9 mile southeast of Hockessin.

DRAINAGE AREA.--4.19 sq mi (0.15 sq mi is probably noncontributing).

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 215 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 570 cfs and by contracted-opening measurements at 730 and 2,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 687 cfs June 22 (gage height, 7.98 ft).
1966 to May 1972: Discharge, 2,100 cfs July 28, 1969 (gage height, 11.29 ft).

(54) 01479950 RED CLAY CREEK TRIBUTARY NEAR YORKLYN, DEL.

(Crest-stage station)

LOCATION.--Lat 39°47'50", long 75°39'33", New Castle County, 8 ft above culvert and 1.1 miles southeast of Yorklyn.

DRAINAGE AREA.--0.38 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 150 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 10 cfs and by computation of flow through culvert and flow over the road.

MAXIMUMS.--June-July 1972: Discharge, 56 cfs June 22 (gage height, 5.29 ft)
1966 to May 1972: Discharge, 200 cfs July 28, 1969 (gage height, 6.53 ft).

(55) 01480000 RED CLAY CREEK AT WOODDALE, DEL.

LOCATION.--Lat 39°45'52", long 75°38'08", New Castle County, on right bank 12 ft upstream from bridge on State Highway 48, 0.3 mile south of Wooddale, 2.3 miles north of Marshallton, and 4.9 miles upstream from mouth.

DRAINAGE AREA.--47.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 28 to July 31 for which record was computed from water-stage recorder graph maintained for water-temperature record. Datum of gage is 81.46 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,000 cfs and by contracted-opening measurement at 4,780 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,120 cfs 1730 hours June 22 (gage height, 8.96 ft).
1944 to May 1972: Discharge, 4,780 cfs Sept. 12, 1960 (gage height, 9.93 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	78	133	11...	45	67	21...	92	62
2....	61	95	12...	45	64	22...	1,800	60
3....	58	86	13...	59	481	23...	368	57
4....	57	84	14...	78	130	24...	159	55
5....	64	96	15...	57	89	25...	172	55
6....	57	92	16...	51	76	26...	118	53
7....	57	81	17...	66	81	27...	100	53
8....	52	76	18...	64	72	28...	89	53
9....	50	79	19...	80	67	29...	111	51
10...	48	72	20...	60	64	30...	207	53
						31...		55
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							147	87
RUNOFF,IN INCHES.....							3.48	2.13

(57) 01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA.

LOCATION.--Lat 40°04'22", long 75°51'40", Chester County, at right upstream end of bridge on Legislative Route 15185, at Birdell, 0.4 mile downstream from Two Log Run, and 3.0 miles southeast of Honey Brook.

DRAINAGE AREA.--18.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 591.20 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,900 cfs and by slope-area measurement at 8,160 cfs.

MAXIMUMS.--June-July 1972: Discharge, 8,160 cfs 1430 hours June 22 (gage height, 11.41 ft).
1961 to May 1972: Discharge, 1,870 cfs Sept. 12, 1960 (gage height, 8.60 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	173	37	11...	18	27	21...	41	20
2....	30	32	12...	18	26	22...	2,520	19
3....	32	31	13...	21	111	23...	374	17
4....	41	30	14...	25	26	24...	73	17
5....	63	36	15...	21	21	25...	99	16
6....	25	33	16...	33	22	26...	49	17
7....	23	30	17...	27	43	27...	38	16
8....	20	30	18...	21	41	28...	36	16
9....	20	30	19...	24	30	29...	54	15
10...	19	28	20...	21	22	30...	59	15
						31...		15
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							134	23
RUNOFF,IN INCHES.....							7.99	1.73

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.48	19	6-22	1330	10.97	6,810	6-24	2345	2.11	59
6-21	0800	1.53	22	6-22	1430	11.41	8,160	6-24	2400	2.13	60
6-21	1330	1.72	31	6-22	1515	11.33	7,890				
6-21	1630	1.86	39	6-22	2145	8.40	2,100				
6-21	2045	2.61	87	6-22	2400	7.35	1,270	6-25	0515	2.86	113
6-21	2245	2.76	98					6-25	0900	2.96	122
6-21	2400	3.35	149					6-25	1145	3.34	157
				6-23	0015	7.25	1,260	6-25	1230	3.29	152
				6-23	0500	5.67	540	6-25	1830	2.37	76
6-22	0330	4.99	368	6-23	1030	4.23	259	6-25	2400	2.09	58
6-22	0615	5.62	505	6-23	1830	3.47	170				
6-22	0945	5.01	372	6-23	2400	2.82	110				
6-22	1130	6.09	637								
6-22	1200	6.84	970					6-26	0015	2.09	58
6-22	1215	7.56	1,410	6-24	0015	2.81	109	6-26	2400	1.81	41
6-22	1230	8.56	2,260	6-24	1600	2.18	63				

(58) 01480500 WEST BRANCH BRANDYWINE CREEK AT COATESVILLE, PA.

LOCATION.--Lat 39°59'08", long 75°49'40", Chester County, on right bank at city limits of Coatesville, 1,200 ft upstream from bridge on Old Lincoln Highway, and 0.6 mile downstream from Rock Run.

DRAINAGE AREA.--45.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 305 ft (from topographic map). Prior to Jan. 1, 1952, at site 1,100 ft downstream at different datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 390 cfs and by slope-area measurements at 7,770 and 8,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 7,770 cfs 1815 hours June 22 (gage height, 9.92 ft).
1942 to May 1972: Discharge, 8,600 cfs Aug. 9, 1942 (gage height, 12.3 ft, from floodmark, former site and datum.

REMARKS.--Flow regulated by Rock Run Reservoir 2.6 miles upstream (capacity, 970 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	286	107	11...	47	62	21...	110	59
2....	84	89	12...	46	61	22...	3,400	54
3....	84	84	13...	52	234	23...	854	52
4....	81	78	14...	70	107	24...	194	47
5....	152	92	15...	57	70	25...	242	49
6....	67	92	16...	59	64	26...	152	50
7....	61	78	17...	84	110	27...	119	47
8....	54	78	18...	56	86	28...	101	47
9....	52	78	19...	92	104	29...	155	47
10...	49	70	20...	61	62	30...	169	46
						31...		47
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							236	76
RUNOFF,IN INCHES.....							5.76	1.91

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.04	54	6-22	1145	8.77	5,400	6-24	1300	4.42	162
6-21	0815	4.08	61	6-22	1500	8.76	5,380	6-24	1315	4.54	206
6-21	1130	4.16	81	6-22	1630	8.88	5,620	6-24	2315	4.49	187
6-21	1600	4.27	113	6-22	1800	9.82	7,550	6-24	2400	4.52	198
6-21	1930	4.47	180	6-22	1815	9.92	7,770				
6-21	2145	4.47	180	6-22	2400	7.49	3,110				
6-21	2230	4.63	242					6-25	0430	4.62	238
6-21	2400	5.13	465					6-25	0845	4.71	274
				6-23	0015	7.41	2,990	6-25	1045	4.75	290
				6-23	0415	6.27	1,350	6-25	2100	4.56	214
6-22	0115	5.55	725	6-23	0900	5.49	683	6-25	2400	4.49	187
6-22	0430	4.98	391	6-23	1745	4.87	342				
6-22	0815	5.01	405	6-23	2400	4.67	258				
6-22	0900	5.27	542					6-26	0045	4.48	183
6-22	0930	5.88	974					6-26	2015	4.33	132
6-22	1015	6.99	2,330	6-24	0015	4.67	258	6-26	2400	4.31	125

(59) 01480610 SUCKER RUN NEAR COATESVILLE, PA.

(Crest-stage station)

LOCATION.--Lat 39°58'20",long 75°51'06", Chester County, at concrete bridge on Sough Park Avenue at State Highway 372, 1.6 miles above mouth, and 2 miles west of Coatesville.

DRAINAGE AREA.--2.57 sq mi.

GAGE HEIGHT RECORD.--Crest stages only. Altitide of gage is 360 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 110 cfs, by contracted-opening measurement at 300 cfs, and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 926 cfs June 22 (gage height, 6.96 ft).
1964 to May 1972: Discharge, 590 cfs June 5, 1970 (gage height, 5.78 ft).

(60) 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.

LOCATION.--Lat 39°57'42", long 75°48'06", Chester County, on left bank at bridge on Legislative Route 15068 at Modena and 300 ft upstream from Dennis Run.

DRAINAGE AREA.--55.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 265 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 920 cfs and by slope-area measurement at 7,850 cfs.

MAXIMUMS.--June-July 1972: Discharge, 7,950 cfs 1900 hours June 22 (gage height, 11.48 ft, from floodmarks).
January 1970 to May 1972: Discharge, 2,530 cfs Feb. 13, 1971 (gage height, 8.17 ft).

REMARKS.--Flow regulated by Rock Run Reservoir 5.6 miles upstream (capacity, 970 acre-ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.74	11	6-22	0545	2.14	65	6-23	2400	2.30	100
6-21	0815	1.74	11	6-22	0915	2.20	77				
6-21	1330	1.77	12	6-22	1000	2.35	113				
6-21	1445	1.78	13	6-22	1645	4.45	843	6-24	0045	2.29	100
6-21	1530	1.81	15	6-22	1800	4.68	946	6-24	2230	2.06	52
6-21	1700	1.95	32	6-22	2115	4.38	811	6-24	2400	2.06	52
6-21	2115	1.93	29	6-22	2400	3.90	610				
6-21	2200	1.93	29								
6-21	2300	2.02	43					6-25	1215	2.06	52
6-21	2400	2.10	57	6-23	0015	3.87	598	6-25	2400	2.04	48
				6-23	0830	2.84	247				
				6-23	1730	2.42	130				

(62) 01480680 MARSH CREEK NEAR LYNDELL, PA.

(Crest-stage station, discontinued 1971)

LOCATION.--Lat 40°03 58", long 75°43'38", Chester County, at bridge on L. R. 15018 at Milford Mills, 1 mile northeast of Lyndell, 1.8 miles upstream from mouth, and 4.2 miles north of Downingtown.

DRAINAGE AREA.--17.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 310 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, unknown; maximum gage height, 7.80 ft June 22, from outside floodmark, backwater from Marsh Creek Dam.
1960 to May 1972: Discharge, 1,150 cfs Sept. 12, 1960 (gage height, 6.32 ft).

(63) 01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA.

LOCATION.--Lat 40°02'05", long 75°42'32", Chester County, on right bank 20 ft downstream from bridge on Dowlin Forge Road, 200 ft east of State Highway 282, 0.4 mile downstream from Shamona Creek, 1.5 miles downstream from Marsh Creek, 2.0 miles upstream from Beaver Creek, and 2.2 miles north of Downingtown.

DRAINAGE AREA.--60.6 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except 1400-2015 hours June 22, for which graph was reconstructed on basis of high-water mark and adjoining reocrd. Altitude of gage is 270 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 8,070 cfs 1730 hours June 22 (gage height, 12.06 ft, from high-water mark in gage well).
1966 to May 1972: Discharge, 4,440 cfs Feb. 13, 1971 (gage height, 8.49 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	274	236	11...	57	104	21...	103	91
2....	131	168	12...	56	101	22...	3,220	83
3....	105	160	13...	62	325	23...	1,390	76
4....	85	152	14...	80	212	24...	660	71
5....	99	164	15...	68	132	25...	515	66
6....	81	160	16...	80	132	26...	338	81
7....	78	140	17...	126	148	27...	260	71
8....	68	128	18...	83	178	28...	256	69
9....	63	140	19...	110	164	29...	276	62
10...	60	120	20...	89	107	30...	320	60
						31...		64
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							306	128
RUNOFF,IN INCHES.....							5.05	2.11

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	333	148	11...	60	86	21...	157	78
2....	113	120	12...	66	78	22...	4,010	71
3....	105	113	13...	79	298	23...	1,230	69
4....	113	108	14...	97	140	24...	326	62
5....	187	123	15...	68	92	25...	342	69
6....	92	120	16...	81	86	26...	211	62
7....	79	105	17...	110	133	27...	168	62
8....	70	103	18...	76	110	28...	145	62
9....	68	103	19...	115	128	29...	208	60
10...	64	96	20...	81	84	30...	220	59
						31...		62
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							302	100
RUNOFF, IN INCHES							6.14	2.09

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.01	95	6-22	0215	5.01	835				
6-21	0615	2.96	83	6-22	0530	4.08	452				
6-21	0645	2.90	70	6-22	0830	4.05	440	6-24	0015	4.31	474
6-21	0800	2.98	88	6-22	0845	4.18	492	6-24	1045	3.91	314
6-21	0845	2.80	51	6-22	1000	6.44	1,520	6-24	2245	3.74	249
6-21	1045	2.90	70	6-22	1045	8.52	2,760	6-24	2400	4.06	374
6-21	1130	3.00	92	6-22	1100	9.12	4,540				
6-21	1315	3.11	120	6-22	1145	10.39	6,260				
6-21	1400	3.21	148	6-22	1200	10.74	6,790	6-25	0400	4.02	358
6-21	1430	3.13	126	6-22	1600	10.74	6,790	6-25	1000	4.03	362
6-21	1545	3.36	194	6-22	1800	11.17	7,440	6-25	1145	4.09	386
6-21	1815	3.35	191	6-22	1900	11.48	7,950	6-25	2015	3.91	314
6-21	1945	3.50	239	6-22	2045	10.75	6,810	6-25	2400	3.77	260
6-21	2100	3.43	216	6-22	2400	9.28	4,740				
6-21	2145	3.51	243								
6-21	2200	3.63	284					6-26	0100	3.82	278
6-21	2215	3.98	406	6-23	0015	9.12	4,540	6-26	0830	3.64	217
6-21	2300	4.29	528	6-23	0500	6.63	2,000	6-26	1100	3.62	211
6-21	2400	4.35	552	6-23	0930	5.36	1,030	6-26	2315	3.45	163
				6-23	1900	4.35	490	6-26	2400	3.51	178
				6-23	2400	4.31	474				

(61) 01480675 MARSH CREEK NEAR GLENMOORE, PA.

LOCATION.--Lat 40°05'52", long 75°44'31", Chester County, on left bank 1.2 miles downstream from Lyons Run, 1.8 miles upstream from Black Horse Creek, and 3 miles northeast of Glenmoore.

DRAINAGE AREA.--8.57 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 450 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 946 cfs 1800 hours June 22 (gage height, 4.68 ft).
1967 to May 1972: Discharge, 884 cfs Feb. 13, 1971 (gage height, 3.73 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	65	26	11...	5.7	13	21...	18	11
2....	19	19	12...	5.7	11	22...	444	9.5
3....	12	17	13...	6.9	29	23...	259	8.4
4....	9.9	15	14...	9.9	33	24...	71	7.4
5....	11	18	15...	8.7	15	25...	50	8.4
6....	9.5	20	16...	11	12	26...	41	12
7....	8.7	16	17...	19	15	27...	29	9.9
8....	7.4	16	18...	12	20	28...	23	8.4
9....	6.6	19	19...	14	18	29...	29	7.1
10...	6.1	15	20...	14	13	30...	41	6.9
						31...		7.1
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							42	15
RUNOFF, IN INCHES							5.50	1.98

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.45	74	6-22	1400	7.85	3,650				
6-21	0800	2.44	73	6-22	1600	10.00	5,800	6-24	0500	4.36	796
6-21	1600	2.55	93	6-22	1730	12.06	8,070	6-24	2400	3.84	520
6-21	1800	2.72	131	6-22	1815	11.88	7,870				
6-21	2215	3.26	294	6-22	2015	9.88	5,680				
6-21	2400	3.36	334	6-22	2400	7.58	3,380	6-25	0400	3.92	560
								6-25	1200	3.97	585
								6-25	2000	3.65	433
6-22	0200	3.60	430	6-23	0100	6.95	2,800	6-25	2400	3.55	388
6-22	0430	4.15	710	6-23	0400	5.76	1,770				
6-22	0630	4.18	728	6-23	0830	5.22	1,350				
6-22	1100	3.77	515	6-23	1400	5.03	1,220	6-26	2400	3.30	280
6-22	1200	4.03	645	6-23	2400	4.47	862				
6-22	1300	5.85	1,840								

(64) 01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.

LOCATION.--Lat 39°52'11", long 75°35'37", Delaware County, on left bank 27 ft upstream from Penn Central Railroad bridge at Chadds Ford, 150 ft upstream from Harvey Run and 1,200 ft downstream from highway bridge on U. S. Highway 1.

DRAINAGE AREA.--287 sq mi, including that of Harvey Run.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 150.45 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,000 cfs and extended above on basis of area-velocity study.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 22, 2300 hours	23,800	16.56	-	-
June 22	-	-	825	13,100
1912 to May 1972:				
Mar. 5, 1920	17,200	a 15.0	-	-

a From floodmark.

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (mg/l)	Tons per day		Mean concentration (mg/l)	Tons per day
1	1,150	218	677	775	30	63
2	602	70	114	645	23	40
3	571	40	62	593	21	34
4	517	31	43	580	20	31
5	625	52	88	607	26	43
6	544	45	66	616	21	35
7	481	41	53	539	14	20
8	440	34	40	535	16	23
9	409	31	34	548	15	22
10	391	29	31	503	16	22
11	373	27	27	458	16	20
12	355	29	28	431	15	17
13	359	31	30	1,410	177	959
14	440	40	48	850	105	241
15	354	31	30	535	30	43
16	310	30	25	476	23	30
17	517	60	84	535	40	58
18	368	45	45	481	38	49
19	580	77	121	640	63	109
20	400	50	54	440	42	50
21	445	76	91	427	30	35
22	6,740	825	13,100	395	28	30
23	9,260	203	6,550	359	25	24
24	1,730	73	363	350	21	20
25	1,630	123	573	346	25	23
26	1,110	38	114	391	30	32
27	880	30	71	346	27	25
28	760	25	51	341	21	19
29	880	48	114	328	20	18
30	1,110	60	180	323	22	19
31	-	-	-	337	23	21
Total	-	-	22,907	-	-	2,175
Mean	1,144	-	-	521	-	-
Inches	4.45	-	-	2.09	-	-
Ac-ft	68,100	-	15.02	32,010	-	1.43

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment		Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment	
			Concentration (mg/l)	Tons per second				Concentration (mg/l)	Tons per second
June 21					June 24				
0030	1.90	350	37	0.0004	0015	5.79	2,420	120	0.009
1000	1.91	355	40	.0004	2300	4.03	1,420	39	.002
1745	2.10	440	73	.001	2400	4.00	1,400	37	.002
2130	2.74	740	170	.004					
2400	3.55	1,150	275	.01	June 25				
					0400	4.51	1,680	115	.006
June 22					0630	4.88	1,890	200	.01
0915	5.73	2,390	1,340	.10	1200	4.62	1,740	157	.009
1045	6.80	3,180	1,100	.11	2400	3.88	1,340	54	.002
1330	9.24	5,690	850	.15					
1815	11.12	8,590	735	.20	June 26				
2145	16.28	22,600	615	.43	0015	3.86	1,330	53	.002
2300	16.56	23,800	525	.39	2400	3.12	955	32	.001
2400	16.48	23,300	425	.31					
					June 27				
June 23					0030	3.11	950	31	.0009
0015	16.43	23,100	420	.30	2400	2.83	810	28	.0007
1030	11.20	8,730	190	.05					
2200	6.40	2,860	128	.01					
2400	5.84	2,450	121	.009					

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (mg/l)	Tons per day		Mean concentration (mg/l)	Tons per day
1	1,320	188	670	921	26	65
2	667	87	157	826	17	38
3	572	31	48	755	13	27
4	513	40	55	739	14	28
5	678	67	130	752	18	37
6	522	40	56	810	5	11
7	483	32	42	707	11	21
8	444	28	34	691	10	19
9	424	25	29	710	8	15
10	413	19	21	661	7	12
11	390	18	19	621	7	12
12	380	17	17	593	7	11
13	421	19	22	1,820	178	875
14	552	32	48	1,220	208	685
15	474	22	28	746	88	177
16	415	15	17	647	75	131
17	607	38	62	686	58	107
18	508	27	37	638	25	43
19	648	55	96	782	48	101
20	547	76	112	561	60	91
21	510	53	73	536	70	101
22	5,530	780	14,300	501	22	30
23	14,300	354	19,400	453	15	18
24	1,990	82	441	444	13	16
25	1,670	75	338	429	13	15
26	1,030	50	139	482	20	26
27	914	48	118	431	15	17
28	926	27	68	417	13	15
29	1,000	65	176	399	14	15
30	1,440	75	292	391	14	15
31	-	-	-	407	15	16
Total	-	-	37,045	-	-	2,790
Mean	1,343	-	-	670	-	-
Inches	4.77	-	-	2.46	-	-
Ac-ft	79,910	-	24.30	41,200	-	1.83

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment		Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment	
			Concentration (mg/l)	Tons per second				Concentration (mg/l)	Tons per second
June 21					June 24				
0030	3.44	458	38	0.0005	0015	6.19	3,140	129	0.01
1700	3.52	514	53	.0009	0730	5.22	2,170	102	.007
2215	3.71	648	87	.002	2400	4.54	1,430	37	.002
2400	3.97	863	104	.003					
					June 25				
June 22					0530	4.60	1,500	43	.002
0700	5.06	2,010	810	.05	0845	5.11	2,060	67	.004
0930	6.10	3,050	890	.08	0930	5.09	2,040	77	.005
1145	8.54	6,310	1,080	.21	2400	4.51	1,400	44	.002
1300	8.85	6,780	1,270	.27					
2045	9.24	7,480	915	.21	June 26				
2200	10.75	10,900	895	.30	0015	4.51	1,400	44	.002
2400	14.39	23,600	855	.63	1330	4.08	962	78	.002
					2400	4.02	908	38	.001
June 23									
0330	15.49	29,000	680	.62	June 27				
0415	15.37	28,400	640	.57	0430	4.07	953	34	.001
1245	10.48	10,200	240	.08	2400	4.01	899	35	.001
1815	8.15	5,730	145	.03					
2400	6.26	3,210	131	.01	June 28				
					1400	4.08	962	17	.0005
					2400	4.01	899	30	.0008

(65) 01481200 BRANDYWINE CREEK TRIBUTARY NEAR CENTERVILLE, DEL.

(Crest-stage station)

LOCATION.--Lat 39°50'08", long 75°35'57", New Castle County, 30 ft above bridge on State Highway 100, and 1.4 miles northeast of Centerville.

DRAINAGE AREA.--0.97 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 155 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 25 cfs and by culvert-flow relationship to 405 cfs.

MAXIMUMS.--June-July 1972: Discharge, 170 cfs June 22 (gage height, 5.92 ft).
1966 to May 1972: Discharge, 405 cfs Sept. 13, 1971 (gage height, 9.35 ft).

(66) 01481450 WILLOW RUN AT ROCKLAND, DEL.

(Crest-stage station)

LOCATION.--Lat 39°47'32", long 75°33'16", New Castle County, 15 ft above culvert on Country Club Drive, and 1.0 mile east of Rockland.

DRAINAGE AREA.--0.37 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 310 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 20 cfs and by computation of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 263 cfs June 30 (gage height, 8.26 ft); 178 cfs June 22 (gage height, 6.77 ft).
1966 to May 1972: Discharge, 620 cfs Sept. 13, 1971 (gage height, 12.70 ft).

(67) 01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.

LOCATION.--Lat 39°46'09", long 75°34'25", New Castle County, on right bank in Rockford Park, 0.2 mile downstream from Henry Clay Bridge, in Wilmington, and 4.2 miles upstream from mouth.

DRAINAGE AREA.--314 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 68.23 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 18,000 cfs.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, and more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 23, 0330 hours	29,000	15.49	-	-
June 22	-	-	780	-
June 23	-	-	-	19,400
1947 to May 1972				
Sept. 13, 1971	21,300	13.83	-	-

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Suspended sediment: Percent in size class indicated, in millimeters: Sand (greater than .062)	Suspended sediment: Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 22	0800	18	2,240	162	860	0.06	10	90
June 22	1230	18	6,700	129	1,250	.26	14	86
June 22	1530	18	6,780	92	1,080	.23	14	86
June 22	1900	18	6,680	102	930	.19	13	87
June 23	0730	15	21,200	90	444	.29	3	97
June 23	1200	15	11,100	97	235	.08	9	91
June 23	1500	15	7,800	105	186	.05	18	82
June 24	0800	14	2,140	134	100	.007	18	82
June 24	1400	16	1,800	154	73	.004	13	87
June 25	0845	16	2,020	165	64	.004	15	85
June 25	1700	17	1,700	172	105	.006	7	93
June 26	1600	17	926	170	68	.002	6	94
June 27	1600	20	944	173	67	.002	5	95
June 30	0900	17	1,490	178	68	.003	7	93

(68) 01482310 DOLL RUN AT RED LION, DEL.

(Crest-stage station)

LOCATION.--Lat 39°35'53", long 75°39'43", New Castle County, 10 ft above culvert on secondary road, 0.7 mile south of Red Lion.

DRAINAGE AREA.--1.2 sq mi (approximately).

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 15 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 30 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 215 cfs June 22 (gage height, 5.59 ft).
1966 to May 1972: Discharge, 140 cfs Aug. 27, 1971 (gage height, 4.71 ft).

(69) 01483200 BLACKBIRD CREEK AT BLACKBIRD, DEL.

LOCATION.--Lat 39°21'58", long 75°40'10", New Castle County, on right bank 15 ft downstream from highway bridge, 0.5 mile upstream from Barlow Branch, 0.6 mile southwest of Blackbird, 5.6 miles northwest of Smyrna, and 13.8 miles upstream from mouth.

DRAINAGE AREA.--3.85 sq mi.

GAGE-HEIGHT RECORD.--Digital recorder tape punched at 15-minute intervals. Datum of gage is 19.38 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200 cfs and by Type III culvert measurement at 712 cfs.

MAXIMUMS.--June-July 1972: Discharge, 712 cfs 1630 hours June 22 (gage height, 5.04 ft).
1952 to May 1972: Discharge, 510 cfs Sept. 12, 1960 (gage height, 4.10 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4.1	14	11...	1.9	4.9	21...	6.1	4.4
2....	2.9	8.2	12...	2.0	4.7	22...	338	3.9
3....	2.7	12	13...	1.9	14	23...	100	3.4
4....	2.5	24	14...	3.5	17	24...	29	3.1
5....	3.9	9.6	15...	2.5	5.7	25...	32	2.9
6....	3.6	9.4	16...	1.9	4.9	26...	17	2.6
7....	5.3	6.9	17...	3.1	9.5	27...	11	2.7
8....	2.7	6.3	18...	51	8.5	28...	9.0	2.9
9....	2.4	6.6	19...	33	8.1	29...	11	2.8
10...	2.2	5.6	20...	6.6	5.1	30...	39	2.9
						31...		3.1
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							24	7.1
RUNOFF,IN INCHES.....							7.07	2.12

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.41	5.0	6-22	0615	2.13	50				
6-21	1330	1.44	5.7	6-22	0730	2.17	53				
6-21	1915	1.47	6.5	6-22	0745	2.52	93	6-23	0015	3.42	255
6-21	2015	1.55	8.8	6-22	0800	3.18	203	6-23	0345	2.87	145
6-21	2400	1.54	8.5	6-22	0830	3.56	286	6-23	1045	2.48	88
				6-22	1000	3.72	325	6-23	2400	2.10	47
				6-22	1115	4.21	463				
6-22	0230	1.58	9.7	6-22	1445	4.54	562				
6-22	0315	1.70	15	6-22	1630	5.04	712	6-24	0030	2.10	47
6-22	0345	2.00	38	6-22	1700	4.97	691	6-24	1345	1.85	25
6-22	0415	2.32	68	6-22	2400	3.47	266	6-24	2400	1.75	18

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.11	7.6	6-22	0630	1.49	20				
6-21	1845	1.15	8.6	6-22	0645	1.60	25	6-23	0015	4.22	291
6-21	2215	1.26	12	6-22	0715	2.17	61	6-23	0700	3.24	156
6-21	2300	1.25	11	6-22	0800	2.93	122	6-23	2400	2.33	72
6-21	2400	1.23	11	6-22	0930	3.75	220				
				6-22	1115	4.69	416				
				6-22	1400	5.53	785	6-24	0015	2.32	72
6-22	0315	1.25	11	6-22	2400	4.26	298	6-24	1715	1.81	38
6-22	0530	1.40	16					6-24	2400	1.71	32

ST. JONES RIVER BASIN

(73) 01483700 ST. JONES RIVER AT DOVER, DEL.

LOCATION.--Lat 39°09'49", long 75°31'10", Kent County, on left bank 150 ft upstream from Division Street Bridge in Dover, 1,950 ft downstream from Silver Lake, and 12.5 miles upstream from mouth.

DRAINAGE AREA.--31.9 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 0.50 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 996 cfs 0600 hours June 23 (gage height, 7.52 ft).
1959 to May 1972: Discharge, 1,900 cfs Sept. 13, 1960 (gage height, 9.45 ft, from floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	27	100	11...	9.0	26	21...	66	28
2....	23	79	12...	9.0	23	22...	364	24
3....	18	50	13...	9.5	68	23...	876	20
4....	16	40	14...	12	178	24...	501	18
5....	17	52	15...	12	146	25...	261	16
6....	17	60	16...	14	72	26...	162	15
7....	18	60	17...	39	58	27...	110	13
8....	15	42	18...	150	86	28...	72	15
9....	13	32	19...	242	56	29...	58	15
10...	13	29	20...	144	34	30...	87	15
						31...		16
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							112	48
RUNOFF,IN INCHES.....							3.93	1.73

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	2400	3.15	50	6-22	1300	5.03	436	6-23	1800	6.83	792
				6-22	1700	5.13	456	6-23	2400	6.34	678
				6-22	2000	5.83	578				
6-22	0600	3.21	58	6-22	2400	7.02	846				
6-22	0700	3.28	69								
6-22	0800	4.13	252					6-24	0800	5.69	558
6-22	1000	4.71	372	6-23	0600	7.52	996	6-24	1600	5.06	442
6-22	1100	5.16	462	6-23	1200	7.26	918	6-24	2400	4.06	235

CHESTER RIVER BASIN

(74) 01493000 UNICORN BRANCH NEAR MILLINGTON, MD.

LOCATION.--Lat 39°14'59", long 75°51'40", Kent County, on right bank 20 ft upstream from bridge on State Highway 313, 1.4 miles southwest of Millington, and 0.9 mile upstream from mouth.

DRAINAGE AREA.--22.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 3.57 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 640 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,020 cfs 1930 hours June 22 (gage height, 7.03 ft).
1949 to May 1972: Discharge, 1,060 cfs Sept. 12, 1960 (gage height, 7.17 ft).

SMYRNA RIVER BASIN

(70) 01483290 PAW PAW BRANCH TRIBUTARY NEAR CLAYTON, DEL.

(Flood-hydrograph station)

LOCATION.--Lat 39°18'41", long 75°40'08", New Castle County, 6 ft above culverts on secondary road, and 2.4 miles northwest of Clayton.

DRAINAGE AREA.--1.3 sq mi (approximately).

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 46 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 70 cfs and by computation of flow through culverts and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 760 cfs 1030 hours June 22 (gage height, 8.43 ft).
1966 to May 1972: Discharge, 350 cfs July 28, 1969 (gage height, 8.13 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.51	0.6	6-22	0230	2.77	3.7	6-22	1045	8.41	718
6-21	0800	2.51	0.6	6-22	0245	3.57	14	6-22	1515	7.91	234
6-21	0815	2.50	0.5	6-22	0300	3.55	14	6-22	1915	5.65	103
6-21	0900	2.51	0.6	6-22	0315	3.88	20	6-22	2345	4.51	38
6-21	0930	2.50	0.5	6-22	0330	3.92	20	6-22	2400	4.48	36
6-21	0945	2.51	0.6	6-22	0345	4.18	26				
6-21	1015	2.50	0.5	6-22	0400	4.52	38				
6-21	1245	2.50	0.5	6-22	0445	4.23	28	6-23	0015	4.45	35
6-21	1345	2.51	0.6	6-22	0500	4.34	31	6-23	0400	4.13	25
6-21	1845	2.51	0.6	6-22	0515	6.24	131	6-23	0500	4.28	29
6-21	1915	2.52	0.7	6-22	0530	6.16	127	6-23	1430	3.62	15
6-21	1945	2.54	0.8	6-22	0545	5.49	97	6-23	2400	3.22	9.1
6-21	2300	2.55	0.9	6-22	0645	4.99	76				
6-21	2345	2.59	1.1	6-22	0700	5.08	81				
6-21	2400	2.57	1.0	6-22	0730	6.97	161	6-24	0015	3.21	9.0
				6-22	0745	7.90	230	6-24	2130	2.80	4.1
				6-22	0800	8.26	477	6-24	2400	2.78	3.8
6-22	0200	2.55	0.9	6-22	0845	8.34	593				
6-22	0215	2.56	1.0	6-22	1030	8.43	760				

(71) 01483400 SAWMILL BRANCH TRIBUTARY NEAR BLACKBIRD, DEL.

(Crest-stage station)

LOCATION.--Lat 39°20'57", long 75°38'31", New Castle County, 10 ft above culvert on U.S. Highway 13, and 1.8 miles southeast of Blackbird.

DRAINAGE AREA.--0.6 sq mi (approximately).

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 35 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge,37 cfs June 22 (gage height, 4.82 ft).
1966 to May 1972: Discharge, 39 cfs July 28, 1969 (gage height, 4.88 ft).

LEPSIC RIVER BASIN

(72) 01483500 LEIPSIC RIVER NEAR CHESWOLD, DEL.

(Flood-hydrograph station)

LOCATION.--Lat 39°13'58", long 75°37'57", Kent County, 75 ft below highway bridge, 1.9 miles east of Kenton, and 2.6 miles northwest of Cheswold.

DRAINAGE AREA.--9.35 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 18 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 670 cfs.

MAXIMUMS.--June-July 1972: Discharge, 785 cfs 1400 hours June 22 (gage height, 5.53 ft).
1944 to May 1972: Discharge, 1,340 cfs Sept. 12, 1960 (gage height, 6.45 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	20	109	11...	15	38	21...	25	30
2....	18	64	12...	15	34	22...	555	28
3....	17	56	13...	14	86	23...	616	27
4....	17	71	14...	16	258	24...	251	25
5....	19	53	15...	15	105	25...	147	24
6....	19	61	16...	14	55	26...	109	22
7....	19	53	17...	16	57	27...	72	22
8....	17	44	18...	45	44	28...	56	22
9....	16	55	19...	46	39	29...	56	22
10...	15	48	20...	25	32	30...	135	22
						31...		23
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							81	53
RUNOFF,IN INCHES.....							4.04	2.72

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.13	22	6-22	2400	6.75	935	6-25	2400	3.60	150
6-21	1230	2.16	25								
6-21	1830	2.16	25								
6-21	2200	2.20	27	6-23	0030	6.70	920	6-26	0030	3.57	146
6-21	2330	2.21	28	6-23	1930	4.95	455	6-26	2130	3.09	87
6-21	2400	2.20	27	6-23	2400	4.73	398	6-26	2400	3.05	84
6-22	0230	2.21	27	6-24	0030	4.70	390	6-27	0030	3.05	84
6-22	0300	2.34	36	6-24	1930	3.72	168	6-27	2400	2.73	62
6-22	0530	2.39	39	6-24	2400	3.57	146				
6-22	0600	2.59	52								
6-22	1030	5.04	482					6-28	0030	2.73	62
6-22	1830	7.01	1,010	6-25	1530	3.59	149	6-28	2400	2.57	51
6-22	1930	7.03	1,020	6-25	2000	3.69	164				

(75) 01493500 MORGAN CREEK NEAR KENNEDYVILLE, MD.

LOCATION.--Lat 39°16'48", long 76°00'54", Kent County, on right bank 200 ft upstream from highway bridge, 2 miles southwest of Kennedyville, and 4.5 miles upstream from mouth.

DRAINAGE AREA.--10.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 15 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 590 cfs and flow-through-culvert and flow-over-road measurement at 7,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 7,500 cfs 1100 hours June 22 (gage height, 13.07 ft).
1952 to May 1972: Discharge, 1,530 cfs Sept. 12, 1960 (gage height, 8.88 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	7.5	14	11...	5.3	8.9	21...	10	8.0
2....	6.5	10	12...	5.5	8.6	22...	2,810	7.5
3....	6.2	45	13...	5.7	222	23...	211	7.0
4....	6.8	90	14...	9.8	97	24...	47	7.0
5....	10	21	15...	7.1	25	25...	51	7.0
6....	7.5	14	16...	6.1	13	26...	21	6.5
7....	7.9	12	17...	7.3	17	27...	12	6.5
8....	6.1	11	18...	20	9.7	28...	11	8.0
9....	5.9	17	19...	33	8.5	29...	12	7.9
10...	5.6	11	20...	8.8	8.5	30...	24	8.0
						31...		8.4
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							113	24
RUNOFF,IN INCHES.....							12.00	2.64

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.43	7.1	6-22	0445	2.73	88				
6-21	1315	1.45	8.3	6-22	0515	3.74	164	6-23	0015	5.68	476
6-21	1815	1.47	9.6	6-22	0530	4.37	236	6-23	0400	4.71	287
6-21	1945	1.58	19	6-22	0545	5.21	382	6-23	2400	2.56	79
6-21	2345	1.60	21	6-22	0630	7.82	1,310				
6-21	2400	1.60	18	6-22	0800	11.76	5,280				
				6-22	1100	13.07	7,500	6-24	0015	2.53	78
				6-22	1900	8.34	1,620	6-24	1300	1.87	42
6-22	0230	1.66	23	6-22	2145	6.71	804	6-24	2045	1.69	26
6-22	0315	1.80	36	6-22	2400	5.77	501	6-24	2330	1.68	25
6-22	0430	2.40	72					6-24	2400	1.78	34

(76) 01494020 BROWNS BRANCH TRIBUTARY NEAR CHURCH HILL, MD.

(Crest-stage station)

LOCATION.--Lat 39°10'05", long 75°58'41", at upstream side of culvert at John Powell Road, 0.6 mile above mouth, and 1.8 miles north of Church Hill, Queen Annes County.

DRAINAGE AREA.--1.7 sq mi, approximately.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 20 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 450 cfs June 22 (gage height, 10.95 ft, from floodmarks).
1971 to May 1972: Discharge, 890 cfs Sept. 11, 1971 (gage height, 12.3 ft, from floodmarks).

ELK RIVER BASIN

(77) 01495000 BIG ELK CREEK AT ELK MILLS, MD.

LOCATION.--Lat 39°39'26", long 75°49'20", Cecil County, on right bank 100 ft downstream from highway bridge at Elk Mills, 3.5 miles north of Elkton, and 7 miles upstream from confluence with Little Elk Creek.

DRAINAGE AREA.--52.6 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 68.5 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 500 cfs and by slope-area measurement at 8,720 cfs.

MAXIMUMS.--June-July 1972: Discharge, 8,720 cfs 1715 hours June 22 (gage height, 13.46 ft).
1932 to May 1972: Discharge, 10,600 cfs July 5, 1937 (gage height, 14.5 ft, from floodmarks), from stage-discharge relation defined by current-meter measurements below 1,700 cfs and velocity-area and conveyance studies.
Maximum stage known, about 19 ft in June 1884, from information by local residents.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	75	184	11...	53	125	21...	151	68
2....	64	147	12...	52	123	22...	3,070	64
3....	62	158	13...	69	430	23...	511	62
4....	60	144	14...	85	123	24...	258	61
5....	84	164	15...	65	86	25...	226	59
6....	64	155	16...	61	79	26...	184	57
7....	64	139	17...	91	81	27...	164	57
8....	57	139	18...	74	75	28...	153	57
9....	55	144	19...	99	86	29...	172	55
10...	54	131	20...	70	70	30...	223	57
						31...		62
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							216	111
RUNOFF, IN INCHES							4.57	2.43

(79) 01496080 NORTHEAST RIVER TRIBUTARY NEAR CHARLESTOWN, MD.

(Crest-stage station)

LOCATION.--Lat 39°35'53", long 75°58'37", at upstream side of culvert at U.S. Highway 40, 1.6 miles north of Charlestown, Cecil County, and 1.8 miles west of North East.

DRAINAGE AREA.--1.7 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 50 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 90 cfs and by slope-area measurement of maximum flow.

MAXIMUMS.--June-July 1972: Discharge, 615 cfs June 22 (gage height, 6.4 ft, from floodmarks).
1967 to May 1972: Discharge, 380 cfs April 2, 1970 (gage height, 5.08 ft).

PRINCIPIO CREEK BASIN

(80) 01496200 PRINCIPIO CREEK NEAR PRINCIPIO FURNACE, MD.

LOCATION.--Lat 39°37'34", long 76°02'27", Cecil County, on left bank, 55 ft downstream from highway bridge on Belvedere Road, 3.5 miles north of Principio Furnace, and 4.9 miles upstream from mouth.

DRAINAGE AREA.--9.03 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 215 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 440 cfs and by slope-area measurements at 4,260 cfs and 7,060 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,020 cfs 0815 hours June 22 (gage height, 8.49 ft).
1968 to May 1972: Discharge, 7,060 cfs Aug. 4, 1969 (gage height, 9.26 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	8.8	19	11...	5.9	11	21...	35	9.5
2....	7.7	13	12...	5.9	11	22...	933	8.9
3....	7.4	32	13...	7.1	14	23...	101	8.6
4....	11	16	14...	7.9	11	24...	30	8.3
5....	9.6	23	15...	6.7	10	25...	24	8.0
6....	7.9	15	16...	17	10	26...	17	7.7
7....	7.7	13	17...	18	18	27...	14	7.7
8....	6.7	21	18...	26	11	28...	13	7.7
9....	6.4	15	19...	17	10	29...	21	7.4
10...	6.1	12	20...	11	9.8	30...	37	7.4
						31...		8.3
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							48	12
RUNOFF, IN INCHES							5.88	1.58

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.08	8.7	6-22	0115	3.03	78				
6-21	0545	2.13	11	6-22	0400	2.77	53				
6-21	1115	2.24	16	6-22	0445	2.98	73	6-23	0015	3.60	195
6-21	1400	2.31	19	6-22	0600	3.87	179	6-23	0300	3.20	126
6-21	1645	2.38	23	6-22	0615	4.41	253	6-23	0715	2.94	88
6-21	1900	2.43	26	6-22	0630	5.86	528	6-23	0915	3.08	108
6-21	2000	2.43	26	6-22	0715	8.06	2,260	6-23	1130	3.44	166
6-21	2015	2.47	29	6-22	0815	8.49	3,020	6-23	1600	2.87	79
6-21	2100	2.77	53	6-22	1045	7.58	1,740	6-23	2115	2.61	48
6-21	2130	3.26	105	6-22	1345	7.97	2,140	6-23	2400	2.55	42
6-21	2200	3.96	191	6-22	1600	6.01	914				
6-21	2245	4.01	197	6-22	1745	4.35	368				
6-21	2315	3.92	186	6-22	1945	3.59	193	6-24	0015	2.55	42
6-21	2400	3.44	127	6-22	2115	3.38	155	6-24	1730	2.33	24
				6-22	2300	3.83	241	6-24	2400	2.31	23
				6-22	2400	3.66	207				

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.79	58	6-22	0215	3.86	331	6-22	2345	5.25	1,000
6-21	1300	2.85	67	6-22	0300	4.37	547	6-22	2400	5.15	940
6-21	1500	3.05	101	6-22	0730	3.70	275				
6-21	1715	3.36	170	6-22	0800	3.78	303				
6-21	1900	3.48	204	6-22	0830	4.32	524	6-23	0015	5.06	890
6-21	1915	3.66	258	6-22	0915	5.44	1,110	6-23	0415	4.46	590
6-21	1930	4.02	388	6-22	1015	6.09	1,540	6-23	1115	4.13	439
6-21	2015	4.18	456	6-22	1315	9.99	4,890	6-23	1400	4.32	524
6-21	2045	4.13	434	6-22	1545	11.81	6,890	6-23	2400	3.84	324
6-21	2400	3.99	381	6-22	1715	13.46	8,720				
				6-22	1745	13.21	8,430				
				6-22	2200	7.74	2,790	6-24	0030	3.83	321
6-22	0200	3.76	296	6-22	2245	6.02	1,490	6-24	2400	3.52	212

NORTHEAST RIVER BASIN

(78) 01496000 NORTHEAST CREEK AT LESLIE, MD.

LOCATION.--Lat 39°37'38", long 75°56'40", Cecil County, on left bank at downstream side of highway bridge, 0.7 mile northeast of Leslie, 1.5 miles southeast of Bay View, and 1.7 miles upstream from confluence with Little Northeast Creek.

DRAINAGE AREA.--24.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 115.0 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,300 cfs and by contracted-opening measurement at 4,060 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,800 cfs 1700 hours June 22 (gage height, 8.41 ft).
1949 to May 1972: Discharge, 4,060 cfs Aug. 10, 1967 (gage height, 7.74 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	22	55	11...	13	21	21...	52	17
2....	18	29	12...	13	20	22...	2,220	17
3....	17	35	13...	17	81	23...	728	15
4....	17	29	14...	28	40	24...	103	15
5....	31	40	15...	20	23	25...	67	14
6....	19	36	16...	26	20	26...	43	13
7....	19	26	17...	69	25	27...	32	13
8....	16	25	18...	58	24	28...	27	14
9....	15	30	19...	53	28	29...	37	13
10...	14	24	20...	33	19	30...	149	14
						31...		15
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							133	25
RUNOFF,IN INCHES.....							6.09	1.21

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.92	25	6-22	0745	4.94	1,480	6-23	0900	3.75	720
6-21	1030	1.97	29	6-22	0845	4.39	1,100	6-23	1700	3.10	390
6-21	1915	2.14	50	6-22	1115	5.73	2,090	6-23	2215	2.87	282
6-21	2015	2.22	63	6-22	1430	7.29	3,590	6-23	2400	2.68	203
6-21	2230	2.61	168	6-22	1700	8.41	4,800				
6-21	2400	2.82	246	6-22	1715	8.40	4,790				
				6-22	2400	5.78	2,130	6-24	0015	2.66	196
								6-24	0515	2.44	125
6-22	0630	3.13	405					6-24	2100	2.21	67
6-22	0645	3.22	450	6-23	0015	5.67	2,040	6-24	2400	2.18	62
6-22	0700	3.55	615	6-23	0415	4.45	1,140				

SUSQUEHANNA RIVER BASIN

(81) 01496370 MINK CREEK AT RICHFIELD SPRINGS, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°50'55", long 75°00'11", Otsego County, at bridge on State Highway 28, 0.4 mile south of Richfield Springs, and 1.0 mile upstream from mouth.

DRAINAGE AREA.--10.4 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,290 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 120 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 100 cfs June 22 (gage height, 2.36 ft).
1969 to May 1972: Discharge, 380 cfs Apr. 9, 1970 (gage height, 4.13 ft).

(82) 01496450 CANADARAGO LAKE AT SCHUYLER LAKE, N.Y.

LOCATION.--Lat 42°46'50", long 75°01'07", Otsego County, on right bank 10 ft upstream from Panther Mountain Dam, 300 ft downstream from bridge on County Highway 22, and 0.6 mile east of Schuyler Lake.

DRAINAGE AREA.--65.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,276.84 ft above mean sea level.

MAXIMUMS.--June-July 1972: Gage height, 3.11 ft 2100 hours June 25.
1969 to May 1972: Gage height, 5.66 ft Apr. 20, 21, 1972.

REMARKS.--Area of water surface, 2.96 sq mi. Outflow from lake regulated by artificial concrete control, equipped with movable steel lift gate at site of abandoned railroad bridge abutments; known locally as Panther Mountain Dam. The gate was installed in May 1964 and is manipulated by the Canadarago Lake Association.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.62	3.00	11...	2.23	2.20	21...	2.33	2.42
2....	2.62	2.94	12...	2.45	2.21	22...	2.65	2.41
3....	2.61	2.92	13...	2.46	2.39	23...	2.94	2.39
4....	2.55	2.90	14...	2.47	2.39	24...	3.03	2.38
5....	2.51	2.77	15...	2.47	2.39	25...	3.08	2.37
6....	2.44	2.66	16...	2.66	2.40	26...	3.09	2.37
7....	2.37	2.55	17...	2.75	2.46	27...	3.04	2.35
8....	2.27	2.44	18...	2.75	2.45	28...	2.96	2.33
9....	2.31	2.34	19...	2.52	2.44	29...	2.85	2.31
10...	2.29	2.25	20...	2.38	2.44	30...	2.90	2.29
						31...		2.27

(83) 01496500 OAKS CREEK AT INDEX, N.Y.

LOCATION.--Lat 42°39'56", long 74°57'36", Otsego County, on right bank 200 ft upstream from bridge on State Highway 28 at Index, 0.5 mile upstream from mouth, and 3 miles southwest of Cooperstown.

DRAINAGE AREA.--102 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,174.50 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 608 cfs 1130 hours June 23 (gage height, 4.35 ft).
1930-32, 1938 to May 1972: Discharge, 2,550 cfs Jan. 22, 1959 (gage height, 6.87 ft).

REMARKS.--Prior to June 1964, flow regulated by natural storage in Canadarago Lake; thereafter by dam at outlet.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	207	417	11...	214	199	21...	249	72
2....	155	337	12...	143	177	22...	445	70
3....	129	343	13...	101	99	23...	577	66
4....	291	427	14...	97	76	24...	485	65
5....	319	320	15...	91	85	25...	436	58
6....	272	292	16...	301	78	26...	413	59
7....	249	268	17...	228	116	27...	374	54
8....	223	246	18...	171	83	28...	342	50
9....	296	223	19...	206	75	29...	314	47
10...	248	212	20...	247	74	30...	384	44
						31...		40
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							274	154
RUNOFF,IN INCHES.....							2.99	1.74

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.54	228	6-23	1730	4.28	569				
6-21	1700	3.60	248	6-23	2400	4.21	531	6-26	0130	4.02	435
6-21	2400	3.83	342					6-26	2400	3.93	390
				6-24	0100	4.20	525				
6-22	1600	4.10	475	6-24	2400	4.04	445	6-27	0200	3.93	390
6-22	2300	4.14	495					6-27	2400	3.86	356
6-22	2400	4.20	525								
				6-25	0100	4.04	445				
				6-25	2400	4.02	435				
6-23	1130	4.35	608								

(84) 01497800 SCHENEVUS CREEK AT SCHENEVUS, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°32'45", long 74°50'00", Otsego County, at bridge on Tannery Street, Schenevus.

DRAINAGE AREA.--57.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,230 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,400 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, about 200 cfs June 23.
1963 to May 1972: Discharge, 2,200 cfs Mar. 5, 1964 (gage height, 8.14 ft).

(85) 01498500 CHARLOTTE CREEK AT WEST DAVENPORT, N.Y.

LOCATION.--Lat 42°26'42", long 74°57'50", Delaware County, on right bank at downstream side of bridge on County Highway 11 at West Davenport, 700 ft upstream from small tributary, and 1.7 miles downstream from Pumpkin Hollow.

DRAINAGE AREA.--167 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,170.69 ft above mean sea level. Prior to Oct. 1, 1956, at site 1.7 miles upstream at different datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,820 cfs 0930 hours June 23 (gage height, 4.93 ft).
1938 to May 1972: Discharge, 14,000 cfs Sept. 22, 1938 (gage height, 9.65 ft, site and datum then in use, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	640	851	11...	350	245	21...	378	110
2....	424	541	12...	298	202	22...	928	115
3....	310	705	13...	269	178	23...	1,420	85
4....	451	700	14...	245	181	24...	1,030	76
5....	410	505	15...	211	149	25...	812	66
6....	326	455	16...	700	125	26...	750	72
7....	500	386	17...	514	123	27...	595	66
8....	342	338	18...	350	107	28...	491	64
9....	527	362	19...	394	103	29...	402	52
10...	455	269	20...	346	115	30...	765	46
						31...		44
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							521	240
RUNOFF,IN INCHES.....							3.48	1.66

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.21	294	6-23	0930	4.93	1,820				
6-21	1600	2.25	310	6-23	1830	3.94	1,150	6-26	0430	3.38	834
6-21	1830	2.55	433	6-23	2400	4.05	1,220	6-26	2400	3.05	665
6-21	2400	3.45	873								
				6-24	0030	4.08	1,240	6-27	0100	3.04	660
6-22	0630	3.87	1,110	6-24	2400	3.40	845	6-27	2400	2.76	527
6-22	0800	3.82	1,080								
6-22	1900	3.20	740								
6-22	2400	3.83	1,090	6-25	1600	3.39	840				
				6-25	2400	3.33	807				

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.56	139								
6-21	2100	1.58	146								
6-21	2115	2.17	374	6-26	0930	3.16	871				
6-21	2300	2.16	370	6-26	1000	3.56	1,090				
6-21	2330	2.41	490	6-26	1115	3.56	1,090				
6-21	2345	2.40	485	6-26	1615	3.48	1,050				
6-21	2400	2.40	485	6-26	1630	3.06	816				
				6-26	2100	2.92	745				
				6-26	2130	2.72	645				
6-22	0345	2.45	510	6-26	2400	2.72	645				
6-22	0945	2.42	495								
6-22	1000	2.29	430								
6-22	1015	1.31	71	6-27	0015	2.75	660				
6-22	1030	1.08	32	6-27	0800	2.69	630				
6-22	1045	0.99	22	6-27	0815	2.34	455				
6-22	1145	0.94	17	6-27	0845	2.15	365				
6-22	2400	0.95	18	6-27	1030	2.15	365				
				6-27	1100	1.58	146				
				6-27	2400	1.58	146				
6-23	1915	0.96	19								
6-23	2400	0.95	18								
				6-28	0800	1.58	146				
				6-28	0815	1.64	167				
6-24	1545	0.95	18	6-28	0830	2.03	312				
6-24	1600	1.96	284	6-28	1030	2.03	312				
6-24	1645	2.03	312	6-28	1045	2.19	383				
6-24	1700	2.52	545	6-28	1645	2.19	383				
6-24	1830	2.51	540	6-28	2230	2.15	365				
6-24	1900	3.15	865	6-28	2245	1.92	268				
6-24	2315	3.18	882	6-28	2400	1.89	256				
6-24	2400	3.16	871								
				6-29	1400	1.90	260				
6-25	1700	3.18	882	6-29	1415	1.87	248				
6-25	2400	3.08	827	6-29	1500	1.75	205				

								6-29	2400	1.74	202
								6-30	1030	1.75	198
								6-30	1045	2.24	397
								6-30	1115	2.44	495
								6-30	1330	2.42	485
								6-30	1345	3.01	780
								6-30	1400	3.01	780
								6-30	1415	3.60	1,100
								6-30	1745	3.72	1,170
								6-30	2400	3.68	1,150
								7-01	0645	3.71	1,150
								7-01	0745	3.67	1,120
								7-01	0800	2.97	745
								7-01	0815	1.64	150
								7-01	0900	1.57	127
								7-01	1200	1.58	130
								7-01	1215	1.74	184
								7-01	1230	2.42	470
								7-01	2400	2.39	455
								7-02	0100	2.45	485
								7-02	1615	2.40	460
								7-02	1630	1.92	248
								7-02	2400	1.90	240

(88) 01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, on right bank 25 ft downstream from bridge on Bridge Street at Unadilla, 1.0 mile upstream from Carrs Creek, and 1.6 miles downstream from Ouleout Creek.

DRAINAGE AREA.--982 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 996.08 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 6,140 cfs 1800 hours June 23 (gage height, 7.87 ft).
1938 to May 1972: Discharge, 21,500 cfs Dec. 30, 1942 (gage height, 13.94 ft); gage height, 14.25 ft Apr. 4, 1960.

REMARKS.--Slight regulation by upstream lakes (see stations 01496450 and 01499500).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,950	4,890	11...	2,500	1,570	21...	2,040	782
2....	2,670	3,360	12...	2,090	1,420	22...	4,180	797
3....	1,840	2,890	13...	1,850	1,260	23...	5,490	709
4....	2,160	3,690	14...	1,690	1,130	24...	5,830	656
5....	3,130	2,850	15...	1,540	1,030	25...	5,670	613
6....	2,630	2,470	16...	3,090	953	26...	5,080	595
7....	2,800	2,220	17...	4,130	1,130	27...	3,890	593
8....	2,420	2,020	18...	2,480	1,060	28...	3,250	549
9....	2,590	1,870	19...	2,220	895	29...	2,800	501
10...	3,200	1,640	20...	2,250	807	30...	3,500	468
						31...		442
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,070	1,480
RUNOFF,IN INCHES.....							3.48	1.74

(86) 01499500 EAST SIDNEY LAKE AT EAST SIDNEY, N.Y.

LOCATION.--Lat 42°19'40", long 75°13'42", Delaware County, at East Sidney Dam on Ouleout Creek, 0.3 mile upstream from bridge on County Highway 44 at East Sidney, 4.4 miles upstream from mouth, and 4.5 miles east of Unadilla.

DRAINAGE AREA.--103 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity table dated Nov. 19, 1954, based on field survey by Corps of Engineers in 1938.

MAXIMUMS.--June-July 1972: Contents, 5,480 acre-ft 1700 hours June 24 (elevation, 1,158.63 ft). 1953 to May 1972: Contents, 25,100 acre-ft Apr. 6, 1960 (elevation, 1,194.4 ft).

REMARKS.--Lake is formed by concrete dam and rockfill dike, completed by Corps of Engineers in June 1950 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 33,550 acre-ft between elevations 1,115.0 ft (sill of conduits) and 1,203.0 ft (crest of spillway). Dead storage, 56 acre-ft. Discharge is controlled by the operation of five gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

DAILY ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, 1972

	JUNE		JULY			JUNE		JULY	
DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS	DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS
1....	1150.86	3,460	1150.16	3,310	16...	1150.59	3,410	1150.32	3,350
2....	1150.23	3,330	1150.21	3,330	17...	1150.28	3,340	1150.27	3,340
3....	1150.22	3,330	1150.51	3,390	18...	1150.42	3,370	1150.12	3,310
4....	1150.45	3,380	1150.76	3,440	19...	1150.86	3,460	1150.22	3,330
5....	1150.77	3,440	1150.02	3,290	20...	1150.39	3,360	1150.28	3,340
6....	1150.14	3,310	1150.26	3,340	21...	1150.34	3,350	1150.31	3,350
7....	1150.27	3,340	1150.20	3,320	22...	1151.22	3,540	1150.33	3,350
8....	1150.30	3,340	1150.17	3,320	23...	1155.02	4,460	1150.31	3,350
9....	1150.25	3,330	1150.15	3,310	24...	1157.94	5,270	1150.28	3,340
10...	1150.30	3,340	1150.39	3,360	25...	1156.41	4,830	1150.25	3,330
11...	1150.13	3,310	1150.52	3,390	26...	1152.89	3,920	1150.42	3,370
12...	1150.01	3,280	1150.54	3,390	27...	1150.05	3,290	1150.49	3,380
13...	1150.10	3,300	1150.39	3,360	28...	1150.67	3,420	1150.50	3,390
14...	1150.18	3,320	1150.39	3,360	29...	1150.30	3,340	1150.48	3,380
15...	1150.20	3,320	1150.40	3,370	30...	1150.54	3,390	1150.44	3,370
					31...			1150.37	3,360
CHANGE IN CONTENTS.....							+90		-30

(87) 01500000 OULEOUT CREEK AT EAST SIDNEY, N.Y.

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, on right bank 0.2 mile downstream from bridge on County Highway 44, 0.4 mile downstream from East Sidney Dam, at East Sidney, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--103 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,086.31 ft above mean sea level (levels by Corps of Engineers). Prior to June 13, 1947, at site 0.5 mile upstream at datum 27.30 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,170 cfs 1745 hours June 30 (gage height, 3.72 ft). 1941 to May 1972: Discharge, 7,250 cfs Dec. 30, 1942 (gage height, 7.62 ft, site and datum then in use).
Maximum discharge known, 16,700 cfs in July 1935, by computation of flow over dam and flood marks.

REMARKS.--Since November 1949, flow regulated by East Sidney Lake (see station 01499500).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	401	620	11...	133	98	21...	174	35
2....	237	392	12...	90	98	22...	216	35
3....	143	365	13...	76	88	23...	18	35
4....	143	430	14...	76	67	24...	248	35
5....	219	300	15...	76	67	25...	849	29
6....	177	233	16...	450	67	26...	871	26
7....	139	212	17...	212	67	27...	334	26
8....	139	181	18...	37	44	28...	280	26
9....	139	121	19...	205	35	29...	233	26
10...	139	98	20...	163	35	30...	640	26
						31...		26
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							242	127
RUNOFF,IN INCHES.....							2.62	1.42

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	4.81	2,100	6-23	2400	7.75	5,950				
6-21	2100	4.84	2,130					6-26	0030	7.40	5,390
6-21	2400	5.21	2,510					6-26	2400	6.77	4,460
				6-24	2200	7.86	6,130				
				6-24	2400	7.82	6,060				
6-22	1100	6.91	4,660					6-27	0030	6.76	4,440
6-22	2400	6.97	4,750					6-27	2400	5.99	3,410
				6-25	0030	7.81	6,050				
				6-25	2400	7.41	5,410				
6-23	1800	7.87	6,140								

(89) 01502000 BUTTERNUT CREEK AT MORRIS, N.Y.

LOCATION.--Lat 42°32'43", long 75°14'22", Otsego County, on right bank 15 ft upstream from bridge on State Highway 23 at Morris, and 0.2 mile upstream from Calhoun Creek.

DRAINAGE AREA.--59.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,096.51 ft above mean sea level (Corps of Engineers benchmark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,480 cfs 0800 hours June 22 (gage height, 6.05 ft). 1938 to May 1972: Discharge, 4,250 cfs Mar. 5, 1964 (gage height, 8.47 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	215	334	11...	119	88	21...	143	58
2....	122	202	12...	101	74	22...	895	55
3....	90	249	13...	93	66	23...	797	47
4....	249	278	14...	86	61	24...	411	49
5....	170	177	15...	78	61	25...	312	40
6....	139	154	16...	471	112	26...	260	40
7....	162	133	17...	237	161	27...	206	34
8....	119	116	18...	162	74	28...	169	31
9....	211	101	19...	154	62	29...	139	28
10...	151	93	20...	134	56	30...	423	27
						31...		25
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							234	100
RUNOFF,IN INCHES.....							4.37	1.92

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.65	119								
6-21	1500	2.69	125								
6-21	2400	3.55	270	6-23	0430	5.77	1,240	6-26	0030	3.69	298
				6-23	1630	4.51	524	6-26	2400	3.32	228
				6-23	2400	4.52	528				
6-22	0200	4.02	370								
6-22	0430	5.08	770								
6-22	0800	6.05	1,480					6-27	0030	3.32	228
6-22	0830	6.05	1,480	6-24	0030	4.51	524	6-27	2400	3.07	183
6-22	1630	5.41	967	6-24	2400	3.83	326				
6-22	1930	4.65	580								
6-22	2230	4.63	572	6-25	0030	3.82	324				
6-22	2400	4.92	694	6-25	2400	3.70	300				

(90) 01502500 UNADILLA RIVER AT ROCKDALE, N.Y.

LOCATION.--Lat 42°22'40", long 75°24'25", Chenango County, on right bank 400 ft downstream from Chenango-Otsego County highway bridge at Rockdale, and 0.7 mile downstream from Kent Brook.

DRAINAGE AREA.--520 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 992.11 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 6,640 cfs 0900 hours June 23 (gage height, 8.73 ft). 1930-33, 1938 to May 1972: Discharge, 17,400 cfs Dec. 31, 1942 (gage height, 12.98 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,500	3,140	11...	871	715	21...	780	340
2....	1,070	1,960	12...	688	616	22...	4,180	334
3....	751	1,530	13...	607	508	23...	6,360	305
4....	1,250	1,940	14...	564	458	24...	4,870	290
5....	1,870	1,370	15...	508	430	25...	2,980	280
6....	1,230	1,140	16...	2,160	444	26...	2,530	270
7....	1,200	981	17...	2,380	893	27...	1,960	270
8....	860	926	18...	1,300	540	28...	1,570	252
9....	992	810	19...	1,010	418	29...	1,270	228
10...	1,270	724	20...	893	370	30...	1,840	216
						31...		204
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,710	739
RUNOFF, IN INCHES							3.67	1.64

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	4.95	810	6-23	1900	8.52	6,220				
6-21	2000	4.94	800	6-23	2400	8.41	6,000				
6-21	2400	5.08	948					6-26	0100	6.58	2,850
								6-26	2400	6.11	2,200
				6-24	0100	8.36	5,900				
6-22	0200	5.35	1,250	6-24	2400	7.01	3,490				
6-22	1000	7.71	4,690					6-27	0200	6.09	2,180
6-22	2400	8.31	5,810					6-27	2400	5.77	1,760
				6-25	0100	6.94	3,380				
				6-25	2000	6.61	2,890				
6-23	0900	8.73	6,640	6-25	2400	6.57	2,840				

(91) 01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, on left bank at abutment of former highway bridge, 500 ft upstream from bridge on County Highway 304 at Conklin, 0.7 mile downstream from Little Snake Creek, and 3.5 miles downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 840.95 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 26,500 cfs 2100 hours June 23 (gage height, 12.89 ft). 1913 to May 1972: Discharge, 61,600 cfs Mar. 18, 1936 (gage height, 20.14 ft); gage height, 20.83 ft Mar. 22, 1948.

REMARKS.--Minor regulation by upstream lakes (see stations 01496450 and 01499500).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6,840	10,300	11...	5,100	3,030	21...	3,980	1,530
2....	7,800	9,640	12...	3,980	2,840	22...	19,300	1,380
3....	6,150	6,680	13...	3,350	2,560	23...	25,700	1,310
4....	4,790	6,520	14...	3,000	2,280	24...	22,500	1,210
5....	5,830	6,740	15...	2,740	2,080	25...	16,100	1,110
6....	6,240	5,290	16...	3,600	1,890	26...	13,300	1,060
7....	5,040	4,520	17...	8,260	1,900	27...	10,600	998
8....	4,900	4,090	18...	7,100	2,360	28...	7,860	975
9....	4,110	3,810	19...	4,580	2,050	29...	6,310	919
10...	4,610	3,380	20...	4,000	1,790	30...	6,120	834
						31...		766
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							7,790	3,090
RUNOFF, IN INCHES							0.04	0.02

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
								6-25	2400	6.49	2,090
6-21	0100	3.16	384								
6-21	2100	3.20	400	6-23	0430	9.57	7,500				
6-21	2300	3.41	495	6-23	0600	9.57	7,500	6-26	0030	6.46	2,070
6-21	2330	3.60	580	6-23	1600	8.69	4,030	6-26	2400	5.38	1,520
6-21	2400	4.15	855	6-23	2400	8.58	3,850				
								6-27	0030	5.37	1,520
6-22	0500	8.93	4,560	6-24	0030	8.58	3,850	6-27	2400	4.67	1,170
6-22	0930	9.57	7,500	6-24	2400	7.19	2,530				
6-22	1030	9.55	7,380								
6-22	1830	8.84	4,340								
6-22	2400	8.96	4,630	6-25	0030	7.16	2,510				

(94) 01505500 CANASAWACTA CREEK NEAR SOUTH PLYMOUTH, N.Y.

LOCATION.--Lat 42°33'49", long 75°33'09", Chenango County, on right bank 1.4 miles southeast of South Plymouth, 2 miles northwest of Norwich, 2.8 miles downstream from East Branch, and 4.2 miles upstream from mouth.

DRAINAGE AREA.--57.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30 minute intervals. Datum of gage is 1,077.80 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 5,000 cfs 0130 hours June 22 (gage height, 5.40 ft). 1945 to May 1972: Discharge, 6,980 cfs Feb. 25, 1961 (gage height, 5.94 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	311	271	11...	71	62	21...	268	21
2....	147	172	12...	59	44	22...	2,750	19
3....	99	154	13...	55	37	23...	1,800	17
4....	378	147	14...	50	36	24...	691	17
5....	217	108	15...	45	37	25...	450	16
6....	145	92	16...	354	42	26...	315	15
7....	122	80	17...	164	59	27...	223	14
8....	92	73	18...	116	33	28...	166	13
9....	126	56	19...	96	26	29...	131	11
10...	94	69	20...	80	24	30...	423	11
						31...		9.8
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							335	58
RUNOFF, IN INCHES							6.45	1.15

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.06	68	6-22	2400	4.91	3,530	6-25	1130	3.06	472
6-21	1530	2.10	76					6-25	1230	3.12	516
6-21	1930	2.20	99					6-25	2300	2.94	394
6-21	2030	2.31	128	6-23	0030	4.96	3,680	6-25	2400	2.92	382
6-21	2100	2.42	162	6-23	0330	4.74	3,020				
6-21	2130	2.79	316	6-23	1000	3.99	1,440				
6-21	2300	4.33	2,060	6-23	1630	3.66	1,010	6-26	0100	2.91	376
6-21	2400	5.00	3,800	6-23	2200	3.77	1,140	6-26	2400	2.66	257
				6-23	2400	3.68	1,030				
6-22	0130	5.40	5,000					6-27	0130	2.65	253
6-22	0600	5.29	4,670	6-24	0030	3.66	1,010	6-27	2400	2.49	187
6-22	1300	4.33	2,060	6-24	1730	3.16	548				
6-22	1730	3.93	1,350	6-24	2400	3.04	458				
6-22	2030	4.03	1,500								
6-22	2300	4.72	2,960								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	5.13	3,970								
6-21	2100	5.07	3,870	6-23	2100	12.89	26,500				
6-21	2300	5.73	5,170	6-23	2400	12.81	26,200	6-26	0100	9.26	14,500
6-21	2400	6.75	7,500					6-26	2400	8.42	12,000
				6-24	0100	12.74	26,000				
6-22	0300	10.42	18,000	6-24	2400	10.61	18,500	6-27	0100	8.38	11,900
6-22	1400	11.19	20,600					6-27	2400	7.36	9,060
6-22	2200	11.08	20,200								
6-22	2400	11.92	23,100	6-25	0100	10.52	18,300				
				6-25	2400	9.30	14,600				

(92) 01503980 CHENANGO RIVER AT EATON, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°51'02", long 75°36'21", Madison County, at bridge on London Road, at Eaton, 0.1 mile upstream from Eaton Brook, and 0.1 mile downstream from State Highway 26.

DRAINAGE AREA.--24.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,178.38 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 540 cfs and by contracted-opening measurement at 2,570 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,100 cfs June 22 (gage height, 7.92 ft).
1964-65, 1967 to May 1972: Discharge, 2,570 cfs Mar. 6, 1964 (gage height, 8.12 ft).

(93) 01505000 CHENANGO RIVER AT SHERBURNE, N.Y.

LOCATION.--Lat 42°40'43", long 75°30'39", Chenango County, on right bank 20 ft downstream from bridge on State Highway 80, 0.5 mile west of Sherburne, and 0.5 mile downstream from Handsome Brook.

DRAINAGE AREA.--263 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 1630 hours July 21 to 1530 hours July 24. Stage record reconstructed on the basis of daily observations at 0700 hours. Datum of gage is 1,037.16 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 7,500 cfs 0930 hours June 22 and 0430 hours June 23 (gage height, 9.57 ft).
1938 to May 1972: Discharge, 9,200 cfs Mar. 5, 1964 (gage height, 9.80 ft); gage height, 9.99 ft Dec. 30, 1942 (ice jam).
Flood of Mar. 18, 1936, reached a stage of 10.6 ft, from records of National Weather Service.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	590	1,360	11...	459	526	21...	400	230
2....	427	990	12...	384	423	22...	4,940	220
3....	336	865	13...	348	364	23...	5,180	210
4....	1,750	860	14...	320	340	24...	3,120	200
5....	1,370	705	15...	299	459	25...	2,230	180
6....	895	630	16...	1,300	418	26...	1,790	226
7....	720	562	17...	825	388	27...	1,340	182
8....	562	531	18...	605	299	28...	1,060	148
9....	730	517	19...	499	271	29...	875	135
10...	567	526	20...	427	240	30...	1,350	126
						31...		118
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,190	427
RUNOFF,IN INCHES.....							5.05	1.87

(95) 01507000 CHENANGO RIVER AT GREENE, N.Y.
(Crest-stage station; gaging station discontinued 1970)

LOCATION.--Lat 42°19'28", long 75°46'18", Chenango County, on left bank 1,700 ft downstream from bridge on State Highway 206 at Greene, and 0.6 mile downstream from Birdsall Creek.

DRAINAGE AREA.--593 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 892.58 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 12,000 cfs June 23 (gage height, 14.50 ft).
1937 to May 1972: Discharge, 18,900 cfs Dec. 31, 1942 (gage height, 18.33 ft).

(96) 01508500 ALBRIGHT CREEK AT EAST HOMER, N.Y.
(Crest-stage station gaging station discontinued 1968)

LOCATION.--Lat 42°40'09", long 76°06'13", Cortland County, on left bank 0.2 mile upstream from highway bridge in East Homer, and 0.5 mile upstream from mouth.

DRAINAGE AREA.--6.81 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,154.49 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 570 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,200 cfs June 23 (gage height, 4.40 ft).
1939-68, 1970 to May 1972: Discharge, 787 cfs June 3, 1947 (gage height, 3.71 ft); gage height, 3.85 ft June 13, 1961.

(97) 01509000 TIOUGHNIOGA RIVER AT CORTLAND, N.Y.

LOCATION.--Lat 42°36'10", long 76°09'35", Cortland County, on right bank at east end of Elm Street at Cortland, 0.4 mile downstream from confluence of East and West Branches.

DRAINAGE AREA.--292 sq mi (including 14.0 sq mi, the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin).

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,084.92 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 7,730 cfs 1645 hours June 23 (gage height, 10.47 ft).
1939 to May 1972: Discharge, 13,000 cfs Mar. 5, 1964 (gage height, 12.49 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	876	1,250	11...	697	607	21...	814	300
2....	769	982	12...	593	504	22...	3,890	279
3....	545	837	13...	547	448	23...	7,420	263
4....	2,040	912	14...	504	424	24...	5,270	248
5....	2,940	756	15...	500	487	25...	3,430	236
6....	1,760	658	16...	1,770	460	26...	2,400	239
7....	1,140	595	17...	1,750	428	27...	1,710	223
8....	887	562	18...	1,090	361	28...	1,320	212
9....	950	516	19...	822	333	29...	1,070	203
10...	886	568	20...	704	315	30...	1,120	196
						31...		192
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,670	471
RUNOFF,IN INCHES.....							6.40	1.86

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.94	649	6-23	1130	10.28	7,360				
6-21	1715	3.99	679	6-23	1645	10.47	7,730				
6-21	2045	4.71	1,180	6-23	2400	9.95	6,770	6-26	0015	6.55	2,800
6-21	2400	5.88	2,160					6-26	2400	5.68	1,980
				6-24	0015	9.92	6,710				
6-22	1345	7.61	3,860	6-24	2400	7.89	4,150	6-27	0015	5.68	1,980
6-22	2115	8.96	5,350					6-27	2400	5.09	1,480
6-22	2400	9.82	6,550								
				6-25	0015	7.88	4,140				
				6-25	2400	6.55	2,800				

(98) 01510000 OTSELIC RIVER AT CINCINNATUS, N.Y.

LOCATION.--Lat 42°32'28", long 75°53'58", Cortland County, on right bank 150 ft upstream from Mead Brook and 300 ft downstream from bridge on County Highway 159 at Cincinnatus.

DRAINAGE AREA.--147 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,031.26 ft above mean sea level (Corps of Engineers benchmark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 5,530 cfs 0445 hours June 23 (gage height, 9.39 ft).
1938 to May 1972: Discharge, 8,390 cfs Dec. 30, 1942 (gage height, 10.67 ft); gage height, 10.68 ft Apr. 4, 1950.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	265	637	11...	242	200	21...	470	84
2....	197	413	12...	210	158	22...	4,530	79
3....	155	373	13...	200	136	23...	4,530	73
4....	1,260	393	14...	182	129	24...	2,010	69
5....	888	295	15...	166	175	25...	1,160	64
6....	455	262	16...	765	135	26...	821	62
7....	370	232	17...	458	135	27...	578	57
8....	295	206	18...	323	111	28...	449	53
9....	388	184	19...	272	99	29...	370	50
10...	308	204	20...	236	90	30...	627	47
						31...		45
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							773	169
RUNOFF,IN INCHES.....							5.86	1.33

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.96	216								
6-21	1400	2.05	234	6-23	0445	9.39	5,530				
6-21	1645	2.61	368	6-23	1445	8.48	4,330	6-26	0015	4.38	996
6-21	1945	3.84	761	6-23	2400	7.17	2,880	6-26	2400	3.58	658
6-21	2330	6.18	2,050								
6-21	2400	6.50	2,290								
				6-24	0015	7.13	2,840	6-27	0015	3.58	658
				6-24	2400	5.11	1,380	6-27	2400	3.10	500
6-22	0600	8.75	4,680								
6-22	2230	8.96	4,950								
6-22	2400	9.23	5,300	6-25	0015	5.09	1,360				
				6-25	2400	4.39	1,000				

(99) 01511000 WHITNEY POINT LAKE AT WHITNEY POINT, N.Y.

LOCATION.--Lat 42°20'34", long 75°57'57", Broome County, on left bank at control-gate structure for Whitney Point Dam on Otselic River, 0.3 mile upstream from spillway, 0.9 mile upstream from mouth, and 1.0 mile north of Whitney Point.

DRAINAGE AREA.--257 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity table dated Feb. 9, 1944, furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Contents, 51,720 acre-ft 1500 hours June 25 (elevation, 996.52 ft).
1943 to May 1972: Contents, 71,440 acre-ft Mar. 23, 1948 (elevation, 1,005.0 ft).

REMARKS.--Lake is formed by earth-fill dam with concrete spillway, completed by Corps of Engineers in 1942 for flood control; first used for flood regulation on Mar. 9, 1942. Usable capacity, 86,440 acre-ft between elevations 950.0 ft (sill of gates and 1,010.0 ft (crest of spillway). Dead storage, 28 acre-ft. Discharge is controlled by operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	4.28	2,310	6-23	2000	11.19	26,200				
6-21	1800	4.33	2,390	6-23	2400	11.10	25,700	6-26	0100	8.19	12,700
6-21	2100	4.88	3,380					6-26	2400	7.72	11,100
6-21	2200	5.33	4,330								
6-21	2400	7.20	9,400	6-24	0100	11.05	25,500				
				6-24	2400	9.16	16,600	6-27	0100	7.70	11,000
								6-27	2400	7.23	9,490
6-22	0400	9.44	17,900								
6-22	2400	10.10	20,900	6-25	0100	9.09	16,300				
				6-25	2400	8.19	12,700				

(102) 01513500 SUSQUEHANNA RIVER AT VESTAL, N.Y.
(Crest-stage station; gaging station discontinued 1967)

LOCATION.--Lat 42°05'30", long 76°03'25", Broome County, on left bank 400 ft downstream from highway bridge at Vestal, and 800 ft upstream from Choconut Creek.

DRAINAGE AREA.--3,960 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 799.19 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 58,000 cfs June 23 (gage height, 22.35 ft)
1936 to May 1972: Discharge, 107,000 cfs Mar. 18, 1936 (gage height, 30.5).

(103) 01513790 NANTICOKE CREEK AT UNION CENTER, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°08'56", long 76°04'00", Broome County, at bridge on County Highway 43 at Union Center, 0.2 mile upstream from Bradley Creek.

DRAINAGE AREA.--89.7 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 858.41 ft above mean sea level. Prior to Apr. 24, 1964 the datum was 856.91 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and by contracted-opening measurements at 9,900 cfs and 8,590 cfs.

MAXIMUMS.--June-July 1972: Discharge, 13,500 cfs June 23 (gage height, 15.33 ft).
1956, 1963-64, 1966-68, 1970 to May 1972: Discharge, 9,900 cfs Oct. 15, 1955 (gage height, unknown); gage height, 14.55 ft Oct. 12, 1962.

(104) 01513840 PUMPELLY CREEK AT OWEGO, N.Y.
(Gaging station, discontinued 1968)

LOCATION.--Lat 42°05'21", long 76°16'02", Tioga County, 0.2 mile upstream from bridge on State Highway 283, 0.4 mile upstream from mouth, and 0.9 mile south of Owego.

DRAINAGE AREA.--8.59 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 1,660 cfs June 23 (gage height, 7.17 ft), from slope-area measurement.
1967 to May 1968: Discharge, 1,100 cfs Nov. 2, 1967 (gage height, 5.15 ft).

(105) 01514000 OWEGO CREEK NEAR OWEGO, N.Y.

LOCATION.--Lat 42°07'40", long 76°16'17", Tioga County, on right bank 300 ft upstream from bridge on State Highway 96, 0.5 mile upstream from Catatonk Creek and 1.5 miles north of Owego.

DRAINAGE AREA.--185 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 1830 hours June 4 to 2000 hours June 22. Stage record reconstructed on the basis of one discharge measurement, hydrographer's inspections, and comparison by stage and discharge hydrographs with records for stations on nearby streams. Datum of gage is 819.82 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 10,600 cfs 0230 hours June 23 (gage height, 10.15 ft).
1930 to May 1972: Discharge, 23,500 cfs July 8, 1935 (gage height, 11.50 ft, from flood-marks).

DAILY ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, 1972

	JUNE		JULY			JUNE		JULY	
DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS	DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS
1....	973.27	13,030	979.47	21,470	16...	973.48	13,290	973.07	12,770
2....	973.41	13,210	976.02	16,670	17...	974.00	13,960	973.13	12,850
3....	973.29	13,050	973.20	12,940	18...	973.22	12,960	973.14	12,860
4....	973.46	13,270	973.11	12,820	19...	972.91	12,580	973.11	12,820
5....	974.21	14,240	973.03	12,720	20...	972.86	12,520	973.04	12,740
6....	973.30	13,070	972.85	12,510	21...	972.94	12,610	973.00	12,680
7....	973.34	13,120	973.06	12,760	22...	976.60	17,460	972.96	12,640
8....	973.14	12,860	973.23	12,980	23...	985.90	31,720	972.94	12,610
9....	973.03	12,720	973.25	13,000	24...	993.66	45,930	972.95	12,620
10...	973.16	12,890	973.17	12,900	25...	996.35	51,370	972.95	12,620
11...	972.89	12,550	973.15	12,880	26...	995.82	50,270	972.98	12,660
12...	972.72	12,350	973.10	12,810	27...	993.39	45,400	973.01	12,700
13...	972.83	12,480	972.97	12,650	28...	990.04	39,050	973.04	12,740
14...	973.03	12,720	972.98	12,660	29...	986.37	32,530	973.06	12,760
15...	973.13	12,850	973.00	12,680	30...	982.68	26,400	973.07	12,770
					31...			973.09	12,800
CHANGE IN CONTENTS.....							+13470		-13600

(100) 01511500 TIOUGHNIOGA RIVER AT ITASKA, N.Y.
(Crest-stage station; gaging station discontinued 1967)

LOCATION.--Lat 42°17'55", long 75°54'30", Broome County, on right bank at Itaska, 3.8 miles downstream from Otselic River and village of Whitney Point and 6 miles upstream from mouth.

DRAINAGE AREA.--730 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 917.97 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by discharge measurements below 14,000 cfs and by computation of flow by slope area and by comparison with other stations.

MAXIMUMS.--June-July 1972: Discharge, 11,500 cfs June 23 (gage height, 8.38 ft).
1930-67, 1969 to May 1972: Discharge, 61,100 cfs July 8, 1935 (gage height, 16.61 ft, from floodmarks).

(101) 01512500 CHENANGO RIVER NEAR CHENANGO FORKS, N.Y.

LOCATION.--Lat 42°13'05", long 75°50'55", Broome County, on left bank in Chenango Valley State Park, 1.2 miles downstream from Tioughnioga River and village of Chenango Forks.

DRAINAGE AREA.--1,483 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 871.73 ft above mean sea level (levels by Corps of Engineers). Prior to Aug. 2, 1936, at site 300 ft upstream at same datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 26,200 cfs 2000 hours June 23 (gage height, 11.19 ft).
1913 to May 1972: Discharge 96,000 cfs July 8, 1935 (gage height, 20.3 ft from floodmarks).

REMARKS.--Since March 1942, flood flows partly regulated by Whitney Point Lake (see station 01511000).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,480	8,780	11...	2,670	2,170	21...	2,730	993
2....	3,570	7,090	12...	2,110	1,950	22...	19,000	934
3....	2,470	4,680	13...	1,700	1,660	23...	24,400	873
4....	3,870	4,280	14...	1,660	1,530	24...	21,200	806
5....	8,150	3,410	15...	1,570	1,430	25...	14,200	754
6....	5,960	2,830	16...	4,970	1,530	26...	11,700	710
7....	3,900	2,340	17...	6,880	1,650	27...	10,200	700
8....	3,240	2,490	18...	4,360	1,470	28...	8,720	661
9....	2,820	2,330	19...	3,060	1,200	29...	7,530	624
10...	3,280	2,060	20...	2,530	1,090	30...	7,500	595
						31...		576
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							6,650	2,070
RUNOFF,IN INCHES.....							5.00	1.61

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	299	705	11...	200	170	21...	1,500	91
2....	238	451	12...	170	148	22...	6,000	83
3....	181	403	13...	150	142	23...	8,700	80
4....	600	464	14...	140	178	24...	4,050	83
5....	540	323	15...	120	146	25...	2,020	82
6....	450	281	16...	250	153	26...	1,320	79
7....	250	248	17...	580	140	27...	806	72
8....	200	233	18...	400	118	28...	595	70
9....	220	215	19...	300	109	29...	460	65
10...	250	185	20...	220	100	30...	928	62
						31...		59
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,070	185
RUNOFF,IN INCHES.....							6.46	1.15

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.75	192	6-22	0600	7.85	5,700	6-24	2200	5.10	2,640
6-21	0500	1.75	192	6-22	1000	6.80	4,480	6-24	2400	4.93	2,470
6-21	0900	1.86	234	6-22	1200	6.60	4,260				
6-21	1100	1.96	274	6-22	1500	6.90	4,590				
6-21	1300	2.10	330	6-22	1800	8.30	6,320	6-25	0030	4.90	2,440
6-21	1400	2.50	515	6-22	1900	9.19	7,880	6-25	1930	4.30	1,840
6-21	1500	3.00	795	6-22	2400	9.84	9,570	6-25	2400	4.20	1,740
6-21	1700	4.40	1,860								
6-21	1900	5.70	3,070								
6-21	2100	6.60	4,100	6-23	0230	10.15	10,600	6-26	0030	4.17	1,710
6-21	2300	7.80	5,620	6-23	0800	9.84	9,570	6-26	2400	3.26	946
6-21	2400	8.10	6,040	6-23	2400	8.08	6,010				
								6-27	0030	3.25	940
6-22	0300	8.25	6,250	6-24	0030	8.02	5,930	6-27	2400	2.78	680

(106) 01514100 CATATONK CREEK AT SPENCER, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°12'49", long 76°29'31", Tioga County, at old iron bridge on Owego Street at Spencer, and 0.9 mile upstream from Seelytown Creek.

DRAINAGE AREA.--26.5 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 1,500 cfs June 23, from contracted-opening measurement and computation of flow over road.
Flood of Oct. 15, 1955 reached a peak of 1,680 cfs.

(107) 01515000 SUSQUEHANNA RIVER NEAR WAVERLY, N.Y.

LOCATION.--Lat 41°59'05", long 76°30'05", Bradford County, Pa., on left bank 0.2 mile upstream from Cayuta Creek, 0.4 mile upstream from bridge on East Lockhart Street at Sayre, Pa., 1 mile downstream from New York-Pennsylvania State line, and 2 miles southeast of Waverly.

DRAINAGE AREA.--4,773 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 743.96 ft above mean sea level (levels by Corps of Engineers). Prior to November 1939, at datum 1.00 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 121,000 cfs 2400 hours June 23 (gage height, 21.24 ft).
1936 to May 1972: Discharge, 128,000 cfs March 1936 (gage height, 21.4 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	8,440	20,800	11...	9,480	6,840	21...	8,840	4,730
2....	14,600	22,100	12...	8,320	6,430	22...	70,400	3,690
3....	13,000	17,100	13...	6,900	5,930	23...	117,000	3,310
4....	10,100	13,400	14...	6,030	5,610	24...	94,200	3,100
5....	13,300	13,000	15...	5,600	5,080	25...	51,100	2,850
6....	15,900	11,300	16...	7,950	4,780	26...	37,100	2,720
7....	12,100	9,450	17...	14,800	4,840	27...	28,900	2,550
8....	10,000	8,390	18...	16,300	4,800	28...	22,900	2,430
9....	9,040	8,620	19...	11,000	5,110	29...	18,500	2,320
10...	8,750	7,470	20...	8,610	5,610	30...	17,200	2,190
						31...		2,050
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							22,500	7,050
RUNOFF,IN INCHES.....							5.27	1.70

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	3.94	8,000	6-23	2400	21.24	121,000				
6-21	1800	4.04	8,340					6-26	0100	10.82	41,900
6-21	2300	5.71	14,700					6-26	2400	9.18	32,200
6-21	2400	6.31	17,400	6-24	0100	21.23	121,000				
				6-24	2400	14.67	66,700				
								6-27	0100	9.12	31,900
6-22	0500	9.57	34,500					6-27	2400	8.00	25,700
6-22	1500	18.60	97,800	6-25	0100	14.43	65,000				
6-22	2400	20.44	114,000	6-25	2300	10.93	42,600				
				6-25	2400	10.88	42,300				

(108) 01516500 COREY CREEK NEAR MAINESBURG, PA.

LOCATION.--Lat 41°47'27", long 77°00'54", Tioga County, on right bank 30 ft upstream from township bridge, 500 ft upstream from small tributary, 1.1 miles west of Mainesburg, 3.5 miles east of Mansfield, and 4.2 miles upstream from mouth.

DRAINAGE AREA.--12.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,337.50 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 500 cfs and by slope-area measurements at 2,210 and 5,580 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,580 cfs 0015 hours June 23 (gage height, 10.44 ft). 1955 to May 1972: Discharge, 2,210 cfs Oct. 14, 1955 (gage height, 7.88 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	11	56	11...	5.4	13	21...	65	4.1
2....	5.6	30	12...	4.8	9.8	22...	1,910	3.4
3....	19	50	13...	5.4	8.6	23...	675	2.9
4....	54	35	14...	4.6	7.8	24...	131	3.2
5....	17	33	15...	6.4	8.1	25...	98	2.4
6....	11	39	16...	39	13	26...	68	2.1
7....	8.4	25	17...	22	9.1	27...	49	1.9
8....	6.4	20	18...	11	6.3	28...	35	1.9
9....	6.4	16	19...	9.6	5.2	29...	32	1.7
10...	7.6	18	20...	8.2	5.0	30...	92	1.6
						31...		1.5
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							114	14
RUNOFF,IN INCHES.....							10.42	1.32

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.01	23	6-22	1215	6.00	1,100	6-23	0730	5.07	497
6-21	1545	2.06	25	6-22	1330	6.08	1,140	6-23	1800	4.06	221
6-21	1630	2.39	47	6-22	1430	7.29	1,800	6-23	2400	3.76	179
6-21	1900	3.25	166	6-22	1630	9.38	3,640				
6-21	2215	3.35	185	6-22	1800	9.96	4,530				
6-21	2330	3.26	167	6-22	1930	9.66	4,030	6-24	0015	3.75	177
6-21	2400	3.20	156	6-22	2045	9.10	3,300	6-24	1700	3.20	85
				6-22	2315	8.67	2,850	6-24	2400	3.31	101
				6-22	2345	9.52	3,830				
6-22	0300	2.92	108	6-22	2400	10.20	5,020				
6-22	0430	3.10	138					6-25	0730	3.34	113
6-22	0530	3.62	240					6-25	0845	3.28	104
6-22	0615	4.32	417	6-23	0015	10.44	5,580	6-25	1900	2.95	62
6-22	0845	7.32	1,820	6-23	0115	8.52	2,720	6-25	2400	2.92	59
6-22	1000	7.82	2,160	6-23	0345	6.40	1,060				

(109) COREY CREEK AT MANSFIELD, PA.

(Miscellaneous site)

LOCATION.--Lat 41°48'40", long 77°04'15", Tioga County, at bridge on New Town Hill Road at Mansfield and 0.8 mile upstream from mouth.

DRAINAGE AREA.--22.1 sq mi.

DISCHARGE RECORD.--Peak discharge by contracted-opening measurement.

MAXIMUM.--June-July 1972: Discharge, 10,600 cfs June 22.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	0.68	4.3	6-22	0700	3.28	813	6-23	2400	3.09	165
6-21	1200	.71	5.1	6-22	0900	4.70	1,940				
6-21	1400	.75	6.4	6-22	0930	4.78	2,020				
6-21	1600	.87	12	6-22	1330	4.13	1,420	6-24	0100	3.07	159
6-21	1700	1.26	48	6-22	1700	5.17	2,440	6-24	1700	2.75	90
6-21	1800	2.20	299	6-22	1900	6.00	3,940	6-24	2100	2.80	99
6-21	1900	2.52	429	6-22	2100	5.18	2,460	6-24	2400	2.79	96
6-21	2000	2.64	483	6-22	2330	5.02	2,270				
6-21	2400	2.21	303								
								6-25	0100	2.78	96
				6-23	0045	5.95	3,820	6-25	2400	2.51	59
6-22	0300	1.69	128	6-23	0230	4.62	1,160				
6-22	0530	1.93	205	6-23	0900	3.72	412				
6-22	0630	2.70	510	6-23	2200	3.08	162	6-26	0400	2.54	63
								6-26	2400	2.33	42

(113) 01518000 TIOGA RIVER AT TIOGA, PA.

LOCATION.--Lat 41°54'30", long 77°07'47", Tioga County, on left bank 130 ft upstream from highway bridge at Tioga, 0.8 mile upstream from Crooked Creek.

DRAINAGE AREA.--282 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2030 to 2400 hours June 22 and 0145 to 0415 hours June 23 for which water-stage-recorder graph was available. Datum of gage is 1,021.0 ft above mean sea level. Prior to Sept. 9, 1953, at site 20 ft upstream at datum 2.11 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 8,000 cfs, by contracted-opening measurement at 39,000 cfs, and by slope-area measurements at 39,000 and 59,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 59,000 cfs 2130 hours June 22 (gage height, 19.70 ft). 1939 to May 1972: Discharge, 39,000 cfs May 27, 1946 (gage height, 15.47 ft, present datum).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	388	1,480	11...	161	386	21...	336	262
2....	251	795	12...	128	284	22...	23,800	194
3....	193	1,400	13...	121	220	23...	26,900	169
4....	683	1,210	14...	117	318	24...	4,730	162
5....	798	685	15...	107	426	25...	3,130	132
6....	367	1,040	16...	756	966	26...	2,160	115
7....	261	743	17...	376	426	27...	1,460	98
8....	193	535	18...	220	275	28...	1,030	86
9....	161	420	19...	193	443	29...	795	73
10...	209	460	20...	161	678	30...	1,730	62
						31...		53
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,400	471
RUNOFF,IN INCHES.....							9.48	1.92

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.09	146	6-22	2400	19.00	56,000	6-25	0900	4.32	3,460
6-21	1500	2.12	152					6-25	1700	3.91	2,870
6-21	1815	2.37	215					6-25	2400	3.57	2,420
6-21	2000	2.77	351	6-23	0400	19.30	57,500				
6-21	2115	3.34	633	6-23	0600	17.91	50,600				
6-21	2215	4.11	1,230	6-23	1015	11.40	22,200	6-26	0545	3.56	2,410
6-21	2400	5.27	2,910	6-23	1530	8.30	12,000	6-26	2400	3.02	1,750
				6-23	2400	6.27	6,970				
6-22	0245	6.10	4,560					6-27	0015	3.02	1,750
6-22	0630	6.38	5,170	6-24	0015	6.23	6,890	6-27	2400	2.47	1,180
6-22	0830	7.87	9,210	6-24	2115	4.37	3,540				
6-22	1415	12.57	26,900	6-24	2400	4.29	3,420				
6-22	1815	14.54	34,800					6-28	0045	2.46	1,170
6-22	2130	19.70	59,000					6-28	2400	2.09	863

(110) TIOGA RIVER AT MANSFIELD, PA.

(Miscellaneous site)

LOCATION.--Lat 41°48'23", long 77°04'57", Tioga County, at bridge on U.S. Highway 6 at Mansfield and 1,800 ft upstream from Corey Creek.

DRAINAGE AREA.--156 sq mi.

DISHCARGE RECORD.--Peak discharge by contracted-opening measurement.

MAXIMUM.--June-July 1972: Discharge 24,200 cfs June 22.

(111) 01516800 MANNS CREEK NEAR MANSFIELD, PA.

(Crest-stage station)

LOCATION.--Lat 41°49'19", long 77°05'50", Tioga County, at bridge on gravel road, 0.5 mile above mouth, and 1.8 miles northwest of Mansfield.

DRAINAGE AREA.--3.01 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,160 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 380 cfs and by slope-area measurement at 714 cfs.

MAXIMUMS.--June-July 1972: Discharge, 714 cfs June 22 (gage height, 7.00 ft).
1960 to May 1972: Discharge, 566 cfs June 2, 1965 (gage height, 5.79 ft).

(112) 01517000 ELK RUN NEAR MAINESBURG, PA.

LOCATION.--Lat 41°48'54", long 76°57'55", Tioga County, on left bank 250 ft downstream from highway bridge, 0.5 mile upstream from small tributary, 2.8 miles northeast of Mainesburg, 5.5 miles upstream from mouth, and 5.8 miles east of Mansfield.

DRAINAGE AREA.--10.2 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,385.05 ft above mean sea level. Prior to Aug. 29, 1956, nonrecording gage 250 ft upstream at same datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurement below 300 cfs and by contracted-opening measurement at 3,940 cfs. Prior to 1972 stage-discharge relation extended above 300 cfs by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 3,940 cfs 1900 hours June 22 (gage height, 6.00 ft, from recorder graph; 6.75 ft, from outside floodmark); discharge, 3,820 cfs 0045 hours June 22 (gage height, 5.95 ft).
1954 to May 1972: Discharge, 1,240 cfs Oct. 14, 1955 (gage height, 6.77 ft, site then in use).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9.0	27	11...	3.6	9.6	21...	113	1.8
2....	4.6	18	12...	3.0	6.4	22...	1,580	1.2
3....	3.4	30	13...	3.2	5.8	23...	570	1.0
4....	63	23	14...	2.7	4.3	24...	115	1.8
5....	18	18	15...	3.9	4.3	25...	81	1.0
6....	9.1	27	16...	39	7.4	26...	54	.88
7....	6.7	18	17...	9.1	4.3	27...	37	.88
8....	4.8	13	18...	6.7	2.7	28...	27	.88
9....	4.3	11	19...	6.1	2.4	29...	20	.76
10...	6.1	15	20...	4.8	2.0	30...	44	.76
						31...		.70
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							95.1	8.41
RUNOFF, IN INCHES.....							10.40	.95

(114) 01518500 CROOKED CREEK AT TIOGA, PA.

LOCATION.--Lat 41°54'08", long 77°08'55", Tioga County, on right bank 30 ft upstream from Penn Central Railroad bridge, 1 mile southwest of Tioga, 1 mile upstream from Elkhorn Creek, and 3 miles upstream from mouth.

DRAINAGE AREA.--122 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 1 to July 9; gage-height record June 22, 23 partly reconstructed from three staff-gage readings June 22 and many readings of staff gage (at unknown datum), 2.0 miles downstream, furnished by National Weather Service, and floodmark in gage house. Datum of gage is 1,051.28 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,300 cfs and by slope-area measurement at 10,900 cfs, extended above by areal-runoff computation of maximum flow. Discharge for June 1 to July 9 estimated on basis of correlation with records for Tioga River at Tioga and partial gage-height record.

MAXIMUMS.--June-July 1972: Discharge, 21,000 cfs about 0100 hours June 23 (gage height, 18.29 ft, from floodmark in gage house).
1954 to May 1972: Discharge, 10,900 cfs Oct. 14, 1955 (gage height, 12.73 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	110	320	11...	50	116	21...	120	98
2....	70	200	12...	41	97	22...	7,100	75
3....	35	300	13...	39	86	23...	7,800	63
4....	140	250	14...	36	94	24...	1,200	60
5....	170	170	15...	34	139	25...	800	55
6....	110	220	16...	140	209	26...	570	50
7....	80	180	17...	56	125	27...	350	44
8....	55	135	18...	50	100	28...	250	41
9....	47	110	19...	43	94	29...	200	38
10...	60	137	20...	40	154	30...	350	37
						31...		36
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							672	124
RUNOFF,IN INCHES.....							6.14	1.17

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0300	-	170	6-22	1500	11.0	3,900	6-23	0100	18.29	21,000
6-22	0700	-	380	6-22	1600	13.1	12,600	6-23	0600	-	17,000
6-22	1000	-	1,000	6-22	1900	15.2	17,200	6-23	1200	-	3,000
6-22	1300	-	1,300	6-22	2400	17.9	20,400	6-23	2400	-	1,600

(115) 01518970 TROUPS CREEK NEAR TROUPSBURG, N.Y.

(Miscellaneous site)

LOCATION.--Lat 42°01'37", long 77°32'08", Steuben County, at bridge in Squab Hollow, 100 ft west of State Highway 36, and 1.1 miles southeast of Troupsburg.

DRAINAGE AREA.--30.2 sq mi.

MAXIMUM.--June-July 1972: Discharge, 4,500 cfs June 23, from contracted-opening measurement.

(116) 01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA.

LOCATION.--Lat 41°59'04", long 77°09'06", Tioga County, on left bank 0.8 mile downstream from Cook Creek, 1.8 miles southwest of Lawrenceville, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--298 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0200-0500 hours June 22 for which a graph was constructed on basis of floodmark in gage house. Datum of gage is 998.03 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,000 cfs, extended above by areal-runoff computation of maximum flow.

MAXIMUMS.--June-July 1972: Discharge, 40,500 cfs about 0300 hours June 23 (gage height, 17.26 ft, from floodmark in gage house).
1952 to May 1972: Discharge, 25,400 cfs Mar. 5, 1964 (gage height, 11.89 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	183	992	11...	47	156	21...	51	109
2....	120	646	12...	37	118	22...	8,700	88
3....	84	507	13...	33	97	23...	21,500	82
4....	157	564	14...	33	97	24...	2,910	78
5....	139	325	15...	30	95	25...	1,570	75
6....	79	356	16...	100	88	26...	1,020	74
7....	63	273	17...	108	82	27...	639	69
8....	51	203	18...	60	77	28...	435	65
9....	44	163	19...	45	80	29...	310	62
10...	47	163	20...	37	128	30...	2,350	61
						31...		57
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,370	195
RUNOFF,IN INCHES.....							5.11	0.75

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.05	32	6-22	1545	8.85	7,710	6-24	0015	7.47	4,650
6-21	1200	3.06	33	6-22	2400	14.80	31,000	6-24	1315	6.11	2,540
6-21	1630	3.11	42					6-24	2400	5.68	2,030
6-21	2130	3.30	81								
6-21	2315	3.56	161	6-23	0300	17.26	40,500				
6-21	2400	3.86	293	6-23	0500	16.1	38,600	6-25	0015	5.67	2,020
				6-23	1100	13.75	25,500	6-25	2400	4.85	1,180
				6-23	1415	10.44	12,400				
6-22	0145	4.25	538	6-23	1845	8.59	7,170				
6-22	0430	4.63	857	6-23	2400	7.50	4,700	6-26	0015	4.85	1,180
6-22	0915	6.60	3,130					6-26	2300	4.41	813
6-22	1245	8.46	6,740					6-26	2400	4.38	790

(117) 01520500 TIOGA RIVER AT LINDLEY, N.Y.

LOCATION.--Lat 42°01'44", long 77°07'57", Steuben County, on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 miles upstream from Canisteo River.

DRAINAGE AREA.--771 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 2230 hours June 22 to 1230 hours June 25, and 2230 hours July 12 to 1200 hours July 15. Datum of gage is 964.50 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 31,000 cfs and by slope-area measurements at 42,000 cfs, 77,000 cfs, and 128,000 cfs. Discharge for period of no gage-height record estimated on basis of one discharge measurement, hydrographer's inspections, floodmarks, time of peak and comparison with records for upstream stations.

MAXIMUMS.--June-July 1972: Discharge, 128,000 cfs 0400 hours June 23 (gage height, 26.27 ft, from floodmarks).
1930 to May 1972: Discharge, 75,000 cfs May 28, 1946 (gage height, 22.87 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	626	3,160	11...	304	777	21...	282	626
2....	480	1,860	12...	254	630	22...	26,000	415
3....	371	1,640	13...	238	600	23...	63,000	340
4....	777	2,290	14...	230	640	24...	10,000	295
5....	1,450	1,300	15...	218	700	25...	5,700	258
6....	638	1,580	16...	764	1,140	26...	3,990	234
7....	470	1,310	17...	608	728	27...	2,690	210
8....	367	991	18...	371	535	28...	1,930	196
9....	304	822	19...	317	480	29...	1,480	182
10...	335	809	20...	278	887	30...	4,640	169
						31...		160
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4,300	838
RUNOFF,IN INCHES.....							6.23	1.25

(122) 01521000 ARKPORT RESERVOIR NEAR ARKPORT, N.Y.

LOCATION.--Lat 42°23'45", long 77°43'00", Steuben County, on right bank 1,000 ft upstream from Arkport Dam on Canisteo River, 1.3 miles west of Arkport, and 2.3 miles upstream from small tributary.

DRAINAGE AREA.--30.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute punch intervals. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity table No. 1-R, based on reservoir capacities, furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Contents, 7,940 acre-ft 0700 hours June 23 (elevation, 1,304.04 ft).
1952 to May 1972: Contents, 2,730 acre-ft Mar. 8, 1956 (elevation, 1,268.4 ft).

REMARKS.--Reservoir is formed by earth-fill dam with concrete spillway, completed by Corps of Engineers in 1940 for flood control; first used for flood regulation on Mar. 31, 1940. Usable capacity, 7,936 acre-ft between elevations 1,218.0 ft (sill of conduit) and 1,304.0 ft (crest of spillway). No dead storage. The flood-control works consists of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually.

DAILY ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, 1972

	JUNE		JULY			JUNE		JULY	
DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS	DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS
1....	1227.11	2	1227.78	6	16...	1226.90	1	1227.46	4
2....	1226.97	1	1227.60	5	17...	1226.82	1	1227.51	5
3....	1226.89	1	1228.76	41	18...	1226.79	1	1227.41	4
4....	1226.97	1	1227.99	8	19...	1226.76	1	1227.43	4
5....	1226.89	1	1227.72	6	20...	1226.75	1	1227.84	7
6....	1226.84	1	1227.79	7	21...	1258.10	1690	1227.69	6
7....	1226.81	1	1227.67	6	22...	1285.73	4930	1227.52	5
8....	1226.78	1	1227.61	5	23...	1301.99	7550	1227.43	4
9....	1226.77	1	1227.56	5	24...	1296.06	6510	1227.38	4
10...	1226.77	1	1227.60	5	25...	1286.22	5000	1227.35	3
11...	1226.76	1	1227.56	5	26...	1274.54	3450	1227.35	3
12...	1226.75	1	1227.51	5	27...	1260.60	1920	1227.33	3
13...	1226.75	1	1227.46	4	28...	1238.86	412	1227.31	3
14...	1226.75	1	1227.44	4	29...	1226.99	1	1227.31	3
15...	1226.77	1	1227.42	4	30...	1227.90	7	1227.31	3
					31...			1227.31	3
CHANGE IN CONTENTS.....							+6		-4

(123) 01521500 CANISTEO RIVER AT ARKPORT, N.Y.

LOCATION.--Lat 42°23'45", long 77°42'42", Steuben County, on left bank 0.2 mile downstream from Arkport Dam and 0.9 mile west of Arkport.

DRAINAGE AREA.--30.6 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,202.10 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,080 cfs 0800 hours June 23 (gage height, 3.60 ft).
1937 to May 1972: Discharge, 2,000 cfs Mar. 5, 1938 (gage height, 3.91 ft), Feb. 20, 1939; gage height, 5.63 ft Feb. 19, 1939 (ice jam).
Flood of July 8, 1935, reached a discharge of 4,820 cfs, by slope-area measurement.

REMARKS.--Since November 1939, flows above 500 cfs controlled by detention in Arkport Reservoir (see station 01521000).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	35	78	11...	7.2	26	21...	726	48
2....	22	42	12...	6.8	20	22...	974	23
3....	17	225	13...	6.7	17	23...	879	17
4....	22	117	14...	6.3	14	24...	910	13
5....	17	55	15...	7.3	13	25...	934	11
6....	13	67	16...	20	19	26...	926	9.4
7....	11	43	17...	12	22	27...	898	8.8
8....	9.0	32	18...	8.7	15	28...	594	8.3
9....	8.3	25	19...	7.4	19	29...	36	7.8
10...	7.9	32	20...	6.4	98	30...	210	7.3
						31...		6.8
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							245	37
RUNOFF,IN INCHES.....							8.92	1.38

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.74	258	6-23	2400	13.80	15,000	6-29	2130	5.65	1,460
6-21	1900	3.83	295					6-29	2400	5.70	1,500
6-21	2300	4.13	435								
6-21	2400	4.36	557	6-24	0400	12.80	13,000				
				6-24	0900	11.80	11,000	6-30	0530	6.11	1,860
				6-24	1200	11.30	9,500	6-30	0600	6.35	2,080
6-22	0200	6.21	1,950	6-24	1600	10.80	8,500	6-30	0830	10.73	8,370
6-22	0600	8.46	4,550	6-24	2400	10.00	7,000	6-30	0930	11.28	9,460
6-22	0800	9.51	6,130					6-30	1030	11.07	9,040
6-22	1000	11.43	9,770					6-30	1630	8.89	5,150
6-22	1200	13.86	15,500	6-25	1230	9.32	5,810	6-30	2400	7.89	3,810
6-22	1400	14.52	17,500	6-25	2400	8.40	4,470				
6-22	1600	16.07	23,400								
6-22	1800	18.50	37,500					7-01	0300	8.00	3,950
6-22	2100	21.38	60,900	6-26	0030	8.37	4,430	7-01	2400	6.57	2,300
6-22	2400	23.80	86,000	6-26	2400	7.46	3,290				
								7-02	0030	6.53	2,260
6-23	0200	25.20	109,000	6-27	0030	7.42	3,240	7-02	2400	5.77	1,560
6-23	0400	26.27	128,000	6-27	2400	6.52	2,250				
6-23	0500	26.20	127,000								
6-23	0700	24.80	102,000					7-03	1630	5.63	1,440
6-23	0900	23.30	80,000	6-28	0030	6.51	2,240	7-03	2030	6.04	1,800
6-23	1300	20.60	54,000	6-28	2400	5.91	1,680	7-03	2300	7.52	3,360
6-23	1500	19.20	43,000					7-03	2400	7.73	3,620
6-23	1900	16.20	24,000								
6-23	2100	15.00	19,000	6-29	0030	5.89	1,660				

(118) 01520507 TANNERY CREEK NEAR LINDLEY, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°02'35", long 76°06'40", Steuben County, along Tannery Creek Road, 0.6 mile west of East Lindley, 1.3 miles upstream from mouth, and 1.5 miles northeast of Lindley.

DRAINAGE AREA.--9.13 sq mi.

MAXIMUM.--June-July 1972: Discharge, 2,730 cfs June 23, from slope-area measurement.

(119) 01520970 CANISTEO RIVER TRIBUTARY NEAR ALMOND, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°20'40", long 77°51'22", Allegany County, at bridge on Dobson Road, 0.3 mile northwest of Dunham Road, 2.0 miles upstream from mouth, and 6.1 miles northwest of Almond.

DRAINAGE AREA.--0.17 sq mi.

MAXIMUM.--June-July 1972: Discharge, 56 cfs June 23, from computation of flow through culvert and flow over road.

(120) 01520973 CANISTEO RIVER TRIBUTARY NO. 2 NEAR ALMOND, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°20'58", long 77°51'36", Allegany County, at bridge on Dobson Road, 200 ft south of Davison Road, 0.4 mile upstream from mouth, and 6.5 miles northwest of Almond.

DRAINAGE AREA.--0.31 sq mi.

MAXIMUM.--June-July 1972: Discharge, 43 cfs June 23, from computation of flow through culvert.

(121) 01520991 CANISTEO RIVER AT BISHOPVILLE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°22'14", long 77°45'09", Allegany County, at bridge on Bailey Hill Road in Bishopville.

DRAINAGE AREA.--22.4 sq mi.

MAXIMUM.--June-July 1972: Discharge, 3,400 cfs June 23, from contracted-opening measurement.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	.79	6.8	6-22	0800	3.55	1,040	6-25	2400	3.37	934
6-20	1200	.79	6.8	6-22	1600	3.44	966				
6-20	2400	.77	5.9	6-22	2400	3.38	934				
								6-26	2400	3.34	918
6-21	0200	.84	9.4	6-23	0600	3.47	991				
6-21	0300	.97	18	6-23	0800	3.60	1,080	6-27	2400	3.28	879
6-21	0400	1.27	51	6-23	0900	3.13	768				
6-21	0500	2.55	422	6-23	1000	3.02	692				
6-21	0600	2.95	646	6-23	1400	3.13	768	6-28	0800	3.18	804
6-21	0700	3.06	719	6-23	1800	3.24	848	6-28	1400	3.07	726
6-21	0800	3.11	753	6-23	2200	3.35	926	6-28	1700	2.97	659
6-21	0900	3.21	826					6-28	1800	1.95	188
6-21	1000	3.28	879					6-28	1900	1.45	78
6-21	1100	3.36	942	6-24	2400	3.36	926	6-28	2000	1.32	58
6-21	2400	3.46	982					6-28	2100	1.26	50
								6-28	2400	1.21	43

(124) 01521610 BIG CREEK NEAR NORTH HORNELL, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°22'05", long 77°38'38", Steuben County, at bridge on State Highway 70, 1.5 miles northeast of North Hornell, and 2.5 miles southeast of Arkport.

DRAINAGE AREA.--16.8 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 6,680 cfs June 23, from slope-area measurement. Flood of July 9, 1935 reached a peak of 11,900 cfs at upstream site with drainage area 16.5 sq mi.

(125) 01522075 CANACADEA CREEK AT ALFRED, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°15'13", long 77°47'24", Allegany County, at culvert on road at Alfred University at Alfred.

DRAINAGE AREA.--1.28 sq mi.

MAXIMUM.--June-July 1972: Discharge, 656 cfs June 23, from computation of flow through culvert.

(126) 01522076 CANACADEA CREEK TRIBUTARY NO. 2 AT ALFRED, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°14'51", long 77°48'38", Allegany County, at bridge on Water Wells Road, 0.4 mile southwest of Alfred.

DRAINAGE AREA.--0.52 sq mi.

MAXIMUM.--June-July 1972: Discharge, 358 cfs June 23, from computation of flow through culvert and flow over road.

(127) 01522078 CANACADEA CREEK TRIBUTARY AT ALFRED, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°15'41", long 77°47'08", Allegany County, 200 ft upstream from mouth, 200 ft downstream from Elm Valley Road in Alfred.

DRAINAGE AREA.--1.02 sq mi.

MAXIMUM.--June-July 1972: Discharge, 570 cfs June 21, from computation of flow through culvert.

(128) 01522083 EAST BRANCH CANACADEA CREEK AT ALFRED STATION, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°15'21", long 77°45'51", Allegany County, between railroad and State Highway 21, 0.9 mile upstream from mouth, and 0.9 mile southwest of Alfred Station.

DRAINAGE AREA.--6.54 sq mi.

MAXIMUM.--June-July 1972: Discharge, 2,660 cfs June 23, from slope-area measurement.

(129) 01522085 CANACADEA CREEK AT ALFRED STATION, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°16'28", long 77°45'12", Allegany County, along State Highway 21 and 0.3 mile northeast of Alfred Station.

DRAINAGE AREA.--14.8 sq mi.

MAXIMUM.--June-July 1972: Discharge, 6,080 cfs June 21, from slope-area measurement.

(130) 01522430 McHENRY VALLEY CREEK TRIBUTARY NO. 2 NEAR ALFRED, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°16'29", long 77°49'40", Allegany County, at bridge on McHenry Valley Road, 0.2 mile upstream from mouth, 1.7 miles north of Five Corners, and 2.1 miles northwest of Alfred.

DRAINAGE AREA.--1.73 sq mi.

MAXIMUM.--June-July 1972: Discharge, 1,100 cfs June 21, from computation of flow through culvert.

(131) 01522435 McHENRY VALLEY CREEK TRIBUTARY NEAR ALFRED, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°17'12", long 77°49'15", Allegany County, at bridge on McHenry Valley Road, 0.1 mile northeast of Tuttle Road, 0.1 mile upstream from mouth, and 2.1 miles northwest of Alfred.

DRAINAGE AREA.--0.96 sq mi.

MAXIMUM.--June-July 1972: Discharge, 450 cfs June 21, from computation of flow through culvert.

(132) 01522500 KARR VALLEY CREEK AT ALMOND, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 42°18'40", long 77°45'05", Allegany County, on right bank 500 ft downstream from McHenry Valley Creek, 0.8 mile upstream from mouth, and 1 mile southwest of Almond.

DRAINAGE AREA.--27.6 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,353.68 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 400 cfs and slope-area measurements at 2,050 cfs and 10,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 10,900 cfs June 23 (gage height, 12.2 ft).
1937-68, 1971 to May 1972: Discharge, 6,250 cfs Sept. 28, 1967 (gage height, 9.11 ft).

(133) 01523000 ALMOND LAKE NEAR ALMOND, N.Y.

LOCATION.--Lat 42°20'50", long 77°42'20", Steuben County, at Almond Dam on Canacadea Creek, 2 miles northeast of Almond, and 3 miles upstream from mouth.

DRAINAGE AREA.--55.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity table dated Feb. 7, 1955, based on capacity curve furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Contents, 14,100 acre-ft 0400 hours June 23 (elevation, 1,298.58 ft).
1950 to May 1972: Contents, 8,700 acre-ft Mar. 8, 1956 (elevation, 1,286.0 ft).

REMARKS.--Lake is formed by earth-fill dam with concrete spillway completed by Corps of Engineers in June 1949 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 14,800 acre-ft between elevations 1,229.0 ft (sill of gates) and 1,300.0 ft (crest of spillway). No dead storage. Figures given herein represent usable contents. Discharge is controlled by the operation of three gates.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.01	17	6-21	1900	3.28	1,310	6-24	2400	4.66	3,200
6-20	2330	1.02	18	6-21	2100	3.41	1,450				
6-20	2400	1.03	19	6-21	2200	3.77	1,900				
				6-21	2330	3.77	1,900	6-25	1030	4.67	3,210
				6-21	2400	4.45	2,870	6-25	1600	4.53	2,990
6-21	0130	1.06	21					6-25	1700	3.46	1,510
6-21	0200	1.10	25					6-25	2400	3.35	1,390
6-21	0230	1.34	58	6-22	1700	4.86	3,520				
6-21	0300	1.68	143	6-22	2230	5.11	3,950				
6-21	0330	2.00	285	6-22	2400	5.09	3,910	6-26	0130	3.34	1,320
6-21	0400	2.48	581					6-26	1200	3.19	1,160
6-21	0430	2.63	694					6-26	1230	2.40	493
6-21	0500	3.00	1,020	6-23	0200	5.07	3,880	6-26	1300	2.36	467
6-21	0530	2.47	574	6-23	0230	5.34	4,360	6-26	1330	2.12	324
6-21	0600	2.15	370	6-23	0300	4.96	3,690	6-26	1630	2.09	307
6-21	0630	2.07	324	6-23	0330	5.80	5,220	6-26	1730	1.98	250
6-21	0700	2.22	412	6-23	0530	5.52	4,690	6-26	2400	1.98	250
6-21	0800	2.81	844	6-23	0630	6.14	5,880				
6-21	0900	2.79	827	6-23	0730	6.14	5,880				
6-21	0930	2.46	567	6-23	0800	6.12	5,840	6-27	0730	1.97	222
6-21	1030	2.19	394	6-23	0900	4.61	3,120	6-27	0900	2.09	280
6-21	1230	1.85	213	6-23	1100	5.00	3,760	6-27	1600	2.09	280
6-21	1600	1.70	150	6-23	2400	4.71	3,280	6-27	2400	2.03	250
6-21	1630	1.99	280								
6-21	1700	2.33	480								
6-21	1730	2.46	567	6-24	1330	4.52	2,970				
6-21	1800	2.91	935	6-24	1600	4.79	3,400				
6-21	1830	2.90	925	6-24	1700	4.84	3,490				

(135) 01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, N.Y.

LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, on right bank 235 ft upstream from Erie-Lackawanna Railroad bridge in Hornell, 0.3 mile upstream from Crosby Creek, and 1.5 miles downstream from Canacadea Creek.

DRAINAGE AREA.--158 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0015 hours June 21 to 1000 hours June 23. Stage record reconstructed on the basis of hourly telemark readings furnished by Corps of Engineers personnel at Almond Dam. Datum of gage is 1,131.10 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,600 cfs and by critical-depth measurement at 9,340 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,560 cfs 0330 hours June 23 (gage height, 13.45 ft, from floodmarks).
1943 to May 1972: Discharge, 9,340 cfs May 26, 1943 (gage height, 13.30 ft).

REMARKS.--Since November 1939, flood flows regulated by Arkport Reservoir (see station 01521000), and, since October 1948, by Almond Lake (see station 01523000).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	214	545	11...	59	319	21...	5,060	231
2....	121	419	12...	54	431	22...	6,870	163
3....	94	805	13...	52	211	23...	7,440	113
4....	316	668	14...	50	120	24...	5,200	106
5....	207	433	15...	56	150	25...	3,840	94
6....	96	414	16...	127	170	26...	2,240	88
7....	72	348	17...	81	175	27...	1,500	83
8....	65	280	18...	57	154	28...	1,180	80
9....	63	236	19...	49	144	29...	553	73
10...	63	292	20...	46	226	30...	952	71
						31...		71
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,230	249
RUNOFF,IN INCHES.....							8.66	1.82

DAILY ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, 1972

	JUNE		JULY			JUNE		JULY	
DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS	DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS
1....	1255.50	1140	1255.53	1140	16...	1255.52	1140	1247.41	369
2....	1255.28	1110	1255.28	1110	17...	1255.20	1100	1247.43	370
3....	1255.35	1120	1255.33	1120	18...	1255.12	1090	1247.39	367
4....	1255.62	1150	1255.22	1110	19...	1255.19	1100	1247.02	341
5....	1255.26	1110	1255.24	1110	20...	1255.22	1110	1247.37	366
6....	1255.14	1100	1255.38	1130	21...	1280.40	6700	1247.82	397
7....	1255.31	1120	1255.28	1110	22...	1292.45	11300	1246.15	289
8....	1255.38	1130	1255.01	1080	23...	1295.47	12540	1245.91	276
9....	1255.43	1130	1254.98	1080	24...	1285.16	8380	1245.98	279
10...	1255.37	1120	1255.39	1130	25...	1268.92	3500	1245.64	262
11...	1255.29	1110	1255.11	1090	26...	1256.76	1300	1245.75	268
12...	1255.28	1110	1251.27	687	27...	1255.50	1140	1245.42	251
13...	1255.32	1120	1244.90	226	28...	1255.34	1120	1245.40	250
14...	1255.37	1120	1246.65	319	29...	1255.43	1130	1245.60	260
15...	1255.41	1130	1247.40	368	30...	1255.26	1110	1245.74	267
					31...			1245.88	274
CHANGE IN CONTENTS.....							-01		-836

(134) 01523500 CANACADEA CREEK NEAR HORNELL, N.Y.

LOCATION.--Lat 42°20'05", long 77°41'00", Steuben County, on right bank 35 ft downstream from bridge on State Highway 21, 1.2 miles west of Hornell, 1.5 miles downstream from Almond Dam, and 2 miles upstream from mouth.

DRAINAGE AREA.--57.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,185.68 ft above mean sea level. Oct. 23, 1940, to Dec. 31, 1942, at site 185 ft upstream at different datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,200 cfs and by computation of peak flow over dam at 6,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,880 cfs 0630 hours June 23 (gage height, 6.14 ft). 1927-28, 1935, 1939 to May 1972: Discharge, 21,000 cfs July 8, 1935 (gage height, 16.61 ft).

REMARKS.--Since October 1948, flood flows regulated by detention in Almond Lake (see station 01523000).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	97	240	11...	24	202	21...	670	86
2....	43	212	12...	17	343	22...	3,320	54
3....	37	467	13...	16	98	23...	3,970	28
4....	152	285	14...	16	37	24...	3,210	37
5....	64	213	15...	25	52	25...	2,560	30
6....	37	186	16...	71	56	26...	776	28
7....	23	166	17...	47	56	27...	250	30
8....	22	96	18...	25	56	28...	186	24
9....	23	77	19...	18	51	29...	174	22
10...	28	108	20...	17	61	30...	486	22
						31...		25
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							547	111
RUNOFF, IN INCHES.....							21.87	4.60

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	.90	58								
6-21	0200	1.10	75								
6-21	0300	2.40	207	6-23	0330	13.45	9,560	6-26	0015	7.60	2,860
6-21	0400	5.60	1,060	6-23	0700	13.00	9,250	6-26	1300	7.18	2,380
6-21	0600	9.00	5,000	6-23	1015	10.20	6,940	6-26	1500	6.55	1,770
6-21	0800	11.25	7,990	6-23	1045	10.28	7,050	6-26	2400	6.35	1,600
6-21	1200	11.80	8,410	6-23	1530	9.64	6,080				
6-21	1400	10.30	7,080	6-23	1700	9.36	5,610				
6-21	1600	9.00	5,000	6-23	1930	9.72	6,210	6-27	0030	6.35	1,600
6-21	1800	8.70	4,500	6-23	2400	9.37	5,630	6-27	2400	6.05	1,370
6-21	2200	9.20	5,340								
6-21	2400	9.60	6,020								
				6-24	0015	9.35	5,600	6-28	0030	6.04	1,360
				6-24	1445	9.04	5,070	6-28	2200	5.44	964
6-22	0100	10.00	6,650	6-24	2400	8.99	4,980	6-28	2400	5.08	766
6-22	0800	9.50	5,850								
6-22	1100	9.80	6,340								
6-22	1500	10.30	7,080	6-25	0015	8.98	4,970				
6-22	1700	10.00	6,650	6-25	0700	8.34	3,920				
6-22	1900	10.40	7,210	6-25	0900	8.69	4,480				
6-22	2100	11.40	8,110	6-25	1430	8.18	3,670				
6-22	2400	12.50	8,900	6-25	2400	7.61	2,870				

(136) 01524610 BENNETTS CREEK TRIBUTARY AT GREENWOOD, N. Y.
(Miscellaneous site)

LOCATION.--Lat 42°08'11", long 77°39'10", Steuben County, at culvert on highway in Greenwood, 0.25 mile northwest of intersection with State Highway 248, and 0.3 mile upstream from mouth.

DRAINAGE AREA.--3.14 sq mi.

MAXIMUM.--June-July 1972: Discharge, 680 cfs June 21, from computation of flow through culvert.

(137) 01524990 PURDY CREEK NEAR CANISTEO, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°15'27", long 77°38'13", Steuben County, at bridge south of Shovel Hollow Road, 1.7 miles west of State Highway 248, 2.0 miles upstream from mouth, and 2.1 miles southwest of Canisteo.

DRAINAGE AREA.--21.2 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 6,940 cfs June 22, from slope-area measurement. Water-surface elevation, 1,160.12 ft above mean sea level.
Flood of July 9, 1935 reached a peak of 8,990 cfs.

(138) 01525000 BENNETTS CREEK AT CANISTEO, N.Y.
(Gaging station, discontinued 1947)

LOCATION.--Lat 42°15'56", long 77°35'39", Steuben County, at bridge on State Highway 36, 0.25 mile southeast of Canisteo.

DRAINAGE AREA.--95.3 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 19,500 cfs June 22, from slope-area measurement. Water-surface elevation, 1,134.42 ft above mean sea level.
1939-47: Discharge, 10,000 cfs May 27, 1946 (elevation, 1,130.50 ft).

(139) 01525050 COLONEL BILL'S CREEK AT SOUTH CANISTEO, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°11'24", long 77°33'09", Steuben County, 0.1 mile downstream from Milwaukee Creek, and 0.3 mile southwest of South Canisteo.

DRAINAGE AREA.--10.1 sq mi.

MAXIMUM.--June-July 1972: Discharge, 2,820 cfs June 22, from slope-area measurement.

(140) 01525500 CANISTEO RIVER AT WEST CAMERON, N.Y.
(Crest-stage station; gaging station discontinued 1970)

LOCATION.--Lat 42°13'20", long 77°25'05", Steuben County, on right bank 250 ft downstream from bridge on County Highway 119, 0.3 mile southeast of West Cameron, and 1.7 miles north of Cameron.

DRAINAGE AREA.--340 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,037.71 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,500 cfs and by slope-area measurements at 35,000 cfs and 43,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 43,000 cfs June 23 (gage height, 23.48 ft).
1931, 1937 to May 1972: Discharge, 17,600 cfs May 28, 1946 (gage height, 18.09 ft).
Flood of July 8, 1935 reached a discharge of 35,000 cfs (gage height, 20.8 ft; not published previously).

(141) 01525750 TUSCARORA CREEK TRIBUTARY NEAR WOODHULL, N.Y.
(Gaging station, discontinued 1968)

LOCATION.--Lat 42°06'12", long 77°26'31", Steuben County, 0.4 mile north of State Highway 17, 0.7 mile upstream from mouth, and 2.5 miles northwest of Woodhull.

DRAINAGE AREA.--9.43 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 1,440 cfs June 23 (gage height, 6.53 ft), from slope-area measurement.
1967-68: Discharge, 2,360 cfs May 30, 1968 (gage height, 4.67 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.60	350	6-23	1300	24.8	113,000	6-28	0600	6.0	6,200
6-21	1100	1.6	350	6-23	1400	24.5	106,000	6-28	1400	5.7	5,600
6-21	1200	4.9	4,000	6-23	1500	23.7	96,000	6-28	2200	5.4	5,100
6-21	1300	7.3	9,000	6-23	1600	22.8	89,000				
6-21	1400	9.2	14,000	6-23	1700	21.9	82,000				
6-21	1500	10.5	18,000	6-23	1800	21.0	74,000	6-29	0200	5.2	4,700
6-21	1600	11.1	20,000	6-23	1900	20.2	68,000	6-29	0600	5.0	4,400
6-21	1700	11.7	22,000	6-23	2000	19.3	61,000	6-29	1400	4.8	4,000
6-21	1800	12.6	25,000	6-23	2100	18.6	56,000	6-29	2000	5.0	4,400
6-21	1900	13.1	27,000	6-23	2200	18.0	52,000	6-29	2400	5.2	4,700
6-21	2000	13.6	29,000	6-23	2300	17.3	47,000				
6-21	2200	14.3	32,000	6-23	2400	16.8	44,000				
6-21	2300	14.7	34,000					6-30	0400	5.5	5,200
								6-30	0600	5.7	5,600
				6-24	0200	15.7	39,000	6-30	0800	5.9	6,000
6-22	0100	14.3	32,000	6-24	0400	15.0	36,000	6-30	1000	7.2	9,000
6-22	0700	13.7	30,000	6-24	0600	14.0	31,000	6-30	1200	8.7	13,000
6-22	1300	14.6	34,000	6-24	0800	13.4	28,000	6-30	1600	8.0	11,000
6-22	1500	15.5	38,000	6-24	1100	12.6	25,000	6-30	1800	7.6	10,000
6-22	1600	16.5	43,000	6-24	1400	12.0	23,000	6-30	2000	7.2	9,000
6-22	1700	17.3	47,000	6-24	1800	11.4	21,000	6-30	2200	6.9	8,200
6-22	1800	18.1	53,000								
6-22	1900	18.8	58,000								
6-22	2000	19.8	65,000	6-25	0800	10.7	19,000	7-01	0200	6.6	7,500
6-22	2100	21.0	75,000	6-25	1400	10.0	17,000	7-01	0800	6.3	6,800
6-22	2200	22.4	86,000	6-25	2400	9.4	15,000	7-01	1200	6.0	6,200
6-22	2300	24.0	99,000					7-01	1800	5.7	5,600
6-22	2400	24.6	108,000					7-01	2200	5.4	5,100
				6-26	0600	9.1	14,000				
				6-26	1200	8.6	13,000				
6-23	0100	25.0	118,000	6-26	1600	8.2	12,000	7-02	0400	5.1	4,500
6-23	0200	25.2	124,000	6-26	2000	7.8	11,000	7-02	1400	4.7	3,900
6-23	0300	25.4	130,000	6-26	2400	7.5	9,800	7-02	2000	4.5	3,500
6-23	0400	25.7	140,000					7-02	2400	4.4	3,400
6-23	0500	26.0	151,000								
6-23	0600	26.3	165,000	6-27	0400	7.2	9,000				
6-23	0700	26.6	181,000	6-27	0800	6.9	8,200				
6-23	0800	26.74	190,000	6-27	1400	6.6	7,500				
6-23	0900	26.4	170,000	6-27	2400	6.3	6,800				
6-23	1000	25.9	147,000								
6-23	1100	25.5	134,000								
6-23	1200	25.1	121,000								

(146) 01526976 KIRKWOOD CREEK NEAR KIRKWOOD, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°32'11", long 77°26'31", Steuben County, at bridge on county road 1.2 miles east of Kirkwood, 2.0 miles southeast of Atlanta, and 2.2 miles upstream from mouth.

DRAINAGE AREA.--3.70 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 810 cfs June 23, from contracted-opening measurement.
1967 to 1968: Discharge, 76 cfs Mar. 22, 1968 at downstream site with drainage area 4.64 sq mi.

(147) 01527000 COHOCTON RIVER AT COHOCTON, N.Y.

LOCATION.--Lat 42°30'00", long 77°30'02", Steuben County, on left bank 450 ft downstream from bridge on U.S. Highway 15 at Cohocton, 800 ft downstream from small tributary, and 1.4 miles upstream from Reynolds Creek.

DRAINAGE AREA.--52.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,275.49 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 2,260 cfs 1600 hours June 23 (gage height, 9.82 ft).
1951 to May 1972: Discharge, 883 cfs Apr. 1, 1960 (gage height, 6.23 ft).

(142) 01526000 TUSCARORA CREEK NEAR SOUTH ADDISON, N.Y.
(Crest-stage station; gaging station discontinued 1970)

LOCATION.--Lat 42°04'00", long 77°17'02", Steuben County, on left bank 0.9 mile downstream from Elk Creek, 1.3 miles southwest of South Addison, and 3.4 miles southwest of Addison.

DRAINAGE AREA.--114 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,059.18 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,300 cfs and by slope-area measurement at 18,700 cfs.

MAXIMUM.--June-July 1972: Discharge, 18,700 cfs June 22 (gage height, 10.4 ft).
1937 to May 1972: Discharge, 14,000 cfs May 27, 1946, Mar. 30, 1951; gage height, 8.79 ft Mar. 30, 1951.

(143) 01526070 CANISTEO RIVER AT ERWINS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°06'21", long 77°09'19", Steuben County, at bridge on new U.S. Highway 15, 0.4 mile southwest of Erwins, and 1.0 mile upstream from mouth.

DRAINAGE AREA.--551 sq mi.

MAXIMUM.--June-July 1972: Discharge, 65,000 cfs June 23, from average of slope-area measurement and contracted-opening measurement including computation of flow over road. Water-surface elevation, 967.4 ft above mean sea level.

(144) 01526495 MULHOLLAND CREEK NEAR ERWINS, N.Y.
(Gaging station, discontinued 1968)

LOCATION.--Lat 42°07'00", long 77°07'21", Steuben County, on Mulholland Road, 0.5 mile upstream from mouth, and 1.2 miles east of Erwins.

DRAINAGE AREA.--5.06 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 590 cfs June 23, from slope-area measurement.
1967-68: Discharge, 96 cfs Nov. 28, 1966 (gage height, 3.20 ft).

(145) 01526500 TIOGA RIVER NEAR ERWINS, N.Y.

LOCATION.--Lat 42°07'15", long 77°07'45", Steuben County, on right bank 20 ft downstream from bridge on Mulholland Road, 1.1 miles northeast of Erwins, and 1.1 miles downstream from Canisteo River.

DRAINAGE AREA.--1,377 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 0900 hours June 14 to 2000 hours July 11 (gage destroyed by flood). Datum of gage is 931.24 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 44,000 cfs, by slope-area measurements of peak flow at 59,000 cfs and 90,000 cfs and by composite computation of peak flow measurements at two sites, on the Tioga and Canisteo Rivers, immediately upstream, at 190,000 cfs. Discharges for no gage-height record estimated reconstructing the stage record on the basis of observer's and hydrographer's readings, floodmarks, peak time, and comparison by stage and discharge hydrographs with records from upstream and downstream stations.

MAXIMUMS.--June-July 1972: Discharge, 190,000 cfs 0800 hours June 23 (gage height, 26.74 ft, from floodmarks).
1919 to May 1972: Discharge, 94,000 cfs May 28, 1946 (gage height, 23.54 ft, from floodmarks).

REMARKS.--High flows slightly regulated by upstream lakes and reservoirs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,110	6,200	11...	530	1,600	21...	13,000	1,410
2....	992	3,900	12...	458	1,510	22...	46,000	992
3....	768	3,400	13...	410	1,430	23...	110,000	756
4....	1,230	6,000	14...	390	1,330	24...	26,000	613
5....	2,290	3,200	15...	380	1,410	25...	18,000	543
6....	1,080	3,100	16...	980	1,860	26...	12,000	480
7....	790	2,700	17...	1,000	1,620	27...	7,800	444
8....	621	2,100	18...	580	1,190	28...	5,800	414
9....	543	1,700	19...	490	930	29...	4,300	384
10...	569	1,600	20...	450	1,580	30...	8,600	345
						31...		325
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							8,910	1,780
RUNOFF,IN INCHES							7.22	1.49

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	87	208	11...	35	98	21...	246	79
2....	88	188	12...	33	89	22...	741	76
3....	70	171	13...	30	80	23...	2,120	66
4....	60	165	14...	30	79	24...	1,720	58
5....	52	166	15...	31	82	25...	975	55
6....	47	150	16...	41	88	26...	608	62
7....	44	137	17...	56	92	27...	453	64
8....	40	124	18...	44	85	28...	340	55
9....	39	110	19...	36	73	29...	265	48
10...	37	105	20...	32	72	30...	233	44
						31...		40
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							288	97
RUNOFF,IN INCHES							6.15	2.14

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.27	32								
6-21	0200	2.42	41	6-23	0700	9.60	2,130				
6-21	0500	3.40	132	6-23	1600	9.82	2,260	6-26	0100	6.20	710
6-21	0800	4.04	213	6-23	2400	9.61	2,140	6-26	2400	5.47	503
6-21	1100	4.46	275								
6-21	2400	5.46	457								
				6-24	0100	9.55	2,120	6-27	0200	5.46	500
				6-24	2400	7.64	1,250	6-27	2400	5.01	390
6-22	0900	5.99	573								
6-22	1900	7.40	950								
6-22	2400	8.88	1,700	6-25	0100	7.56	1,210				
				6-25	2400	6.24	722				

(148) 01527428 NEILS CREEK NEAR BLOOMERVILLE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°25'56", long 77°30'30", Steuben County, at "The Rocks" along Neils Creek Road, 0.4 mile northeast of Greenville, and 2.6 miles west of Bloomerville.

DRAINAGE AREA.--18.0 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 3,750 cfs June 23, from slope-area measurement.
Flood of July 8, 1935 reached a peak of 5,040 cfs.

(149) 01527485 TENMILE CREEK AT AVOCA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°25'43", long 77°25'52", Steuben County, at bridge on road along east side of Cohocton River, 0.4 mile upstream from mouth, and 0.6 mile northwest of Avoca.

DRAINAGE AREA.--17.9 sq mi.

MAXIMUM.--June-July 1972: Discharge, 2,240 cfs June 23, from contracted-opening measurement.

(150) 01527500 COHOCTON RIVER AT AVOCA, N.Y.
(Gaging station, discontinued 1945)

LOCATION.--Lat 42°23'52", long 77°25'09", Steuben County, at bridge on road off U.S. Highway 15, 0.8 mile south of Avoca, and 0.8 mile upstream from Salmon and Goff Creeks.

DRAINAGE AREA.--157 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 13,300 cfs June 23, from contracted-opening measurement.
1939 to 1945: Discharge, 3,880 cfs Mar. 17, 1942 (elevation, 1,188.88 ft above mean sea level).

(151) 01527580 GOFF CREEK TRIBUTARY NEAR HOWARD, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°21'24", long 77°29'27", Steuben County, at bridge on road off State Highway 70, at mouth of Rice Glen, 0.2 mile upstream from mouth, and 1.1 miles southeast of Howard.

DRAINAGE AREA.--4.86 sq mi.

MAXIMUM.--June-July 1972: Discharge, 660 cfs June 21, from contracted-opening measurement and computation of flow over road.

(152) 01527620 GOFF CREEK NEAR AVOCA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°22'57", long 77°24'49", Steuben County, 0.4 mile upstream from bridge on State Highway 70, 0.9 mile upstream from mouth, and 1.2 miles south of Avoca.

DRAINAGE AREA.--23.8 sq mi.

MAXIMUM.--June-July 1972: Discharge, 3,550 cfs June 22, from slope-area measurement.

(153) 01528000 FIVEMILE CREEK NEAR KANONA, N.Y.

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, on left bank just downstream from town of Wheeler highway bridge, 1.3 miles upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,171.30 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,700 cfs and by slope-area measurement at 5,110 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,110 cfs 0200 hours June 23 (gage height, 5.95 ft).
1937 to May 1972: Discharge, 2,680 cfs Mar. 7, 1956 (gage height, 4.59 ft); gage height, 6.10 ft Mar. 31, 1940 (ice jam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	92	389	11...	15	80	21...	1,980	309
2....	50	183	12...	14	59	22...	3,770	86
3....	34	299	13...	13	58	23...	4,180	53
4....	47	369	14...	13	69	24...	2,620	39
5....	38	170	15...	13	71	25...	1,210	31
6....	25	147	16...	21	78	26...	595	34
7....	22	111	17...	16	68	27...	377	28
8....	18	102	18...	12	65	28...	203	24
9....	16	81	19...	11	45	29...	118	22
10...	16	97	20...	10	122	30...	576	19
						31...		18
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							538	107
RUNOFF,IN INCHES.....							8.98	1.85

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	0.62	10					6-25	2130	3.15	820
6-21	0430	0.71	15					6-25	2400	3.05	760
6-21	0530	0.87	25	6-23	0200	5.95	5,110				
6-21	0600	1.31	75	6-23	0500	5.86	4,890				
6-21	0830	3.73	460	6-23	1430	5.47	4,010	6-26	0030	3.03	748
6-21	1100	4.50	2,250	6-23	2400	5.22	3,510	6-26	2400	2.42	454
6-21	1430	5.63	4,360								
6-21	2000	5.01	3,110								
6-21	2400	5.05	3,180	6-24	0030	5.20	3,470	6-27	0030	2.43	459
				6-24	2400	4.14	1,760	6-27	2400	1.96	283
6-22	1700	5.41	3,890								
6-22	2400	5.69	4,490	6-25	0100	4.11	1,720				

(154) 01528200 CAMPBELL CREEK NEAR KANONA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°20'48", long 77°23'54", Steuben County, at bridge on county road, 2.4 miles southwest of Kanona.

DRAINAGE AREA.--32.7 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 7,340 cfs June 23, from slope-area measurement.
Flood of July 8, 1935 reached a peak of 14,000 cfs.

(158) 01529500 COHOCTON RIVER NEAR CAMPBELL, N.Y.

LOCATION.--Lat 42°15'10", long 77°13'00", Steuben County, on left bank just downstream from bridge on town road at junction with County Highway 125, 1.9 miles upstream from Michigan Creek and 2 miles north of Campbell.

DRAINAGE AREA.--470 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,016.34 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 25,000 cfs and by velocity-area and slope-area measurements at 41,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 32,000 cfs 0300 hours June 23 (gage height, 11.16 ft).
1919 to May 1972: Discharge, 41,100 cfs July 8, 1935 (gage height, 11.6 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	696	2,060	11...	258	908	21...	9,560	1,080
2....	530	1,360	12...	238	689	22...	19,300	601
3....	456	1,560	13...	230	689	23...	24,200	462
4....	569	2,190	14...	230	964	24...	12,400	390
5....	504	1,620	15...	230	812	25...	7,090	337
6....	375	1,410	16...	385	892	26...	4,590	332
7....	332	1,300	17...	310	956	27...	3,440	314
8....	296	1,230	18...	258	621	28...	2,640	292
9....	279	988	19...	230	462	29...	2,050	266
10...	275	1,020	20...	215	517	30...	2,840	242
						31...		222
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,170	864
RUNOFF,IN INCHES.....							7.52	2.12

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	0.96	208	6-22	2400	10.78	26,500	6-25	0030	7.41	8,830
6-21	0700	1.04	238					6-25	2400	5.92	5,520
6-21	0900	1.21	310								
6-21	0930	1.94	738	6-23	0200	10.83	27,100				
6-21	1000	3.36	2,130	6-23	0300	11.16	32,000	6-26	0030	5.90	5,480
6-21	1230	6.11	5,860	6-23	1000	10.83	27,100	6-26	2400	4.82	3,880
6-21	1630	9.94	19,900	6-23	2400	9.42	17,000				
6-21	1830	10.86	27,400								
6-21	2400	9.59	17,900					6-27	0030	4.81	3,870
				6-24	0030	9.37	16,800	6-27	2400	4.09	3,010
				6-24	2400	7.46	8,980				
6-22	0930	9.46	17,200								
6-22	2100	10.34	22,800								

(159) 01529530 SOUTH BRANCH MICHIGAN CREEK AT RISINGVILLE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°13'06", long 77°19'00", Steuben County, at culvert on State Highway 333, at Risingville, and 0.15 mile upstream from mouth.

DRAINAGE AREA.--0.96 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 168 cfs June 22, from computation of flow through culvert.
Flood of July 22, 1953 reached a peak of 819 cfs.

(160) 01530200 POST CREEK AT CORNING, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°10'10", long 77°02'50", Steuben County, at foot bridge at Penn Central Transportation Co. warehouse, 0.6 mile northeast of Corning.

DRAINAGE AREA.--31.6 sq mi.

MAXIMUM.--June-July 1972: Discharge, 3,000 cfs June 23, from slope-area measurement.

(155) 01528375 STOCKING CREEK TRIBUTARY AT NORTH CAMERON, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°15'02", long 77°21'28", Steuben County, at bridge on road 0.4 mile southeast of North Cameron, and 1.2 miles upstream from mouth.

DRAINAGE AREA.--2.64 sq mi.

MAXIMUM.--June-July 1972: Discharge 452 cfs June 23, from slope-area measurement.

(156) 01528950 MUD CREEK TRIBUTARY NEAR BRADFORD, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°20'31", long 77°09'10", Steuben County, at bridge on State Highway 226, 0.3 mile upstream from mouth, 1.0 mile northwest of Sonora, and 2.9 miles southwest of Bradford.

DRAINAGE AREA.--2.34 sq mi.

MAXIMUM.--June-July 1972: Discharge, 757 cfs June 23, from computation of flow through culvert.

(157) 01529000 MUD CREEK NEAR SAVONA, N.Y.

LOCATION.--Lat 42°18'30", long 77°11'50", Steuben County, on left bank just upstream from small tributary entering from east, 2 miles upstream from Savona and mouth.

DRAINAGE AREA.--76.6 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1615 hours July 13 to 1200 hours July 14. Stage record reconstructed on the basis of hydrographer's readings, adjacent record, range-in-stage on supplemental graphic recorder, and comparison by stage and discharge hydrographs with records for stations on nearby streams. Datum of gage is 1,049.63 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,400 cfs and by slope-area measurement at 6,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,100 cfs 0615 hours June 23 (gage height, 8.66 ft).
1919, 1937 to May 1972: Discharge, 1,860 cfs Mar. 7, 1956 (gage height, 6.89 ft).

REMARKS.--Flow regulated by Lake Lamaka-Waneta System. During each year since 1929, a large part of flow from 45.5 sq mi of drainage is diverted into Keuka Lake (Oswego River basin), for power development.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	59	200	11...	14	135	21...	329	36
2....	37	129	12...	13	91	22...	2,250	29
3....	26	133	13...	13	84	23...	5,110	24
4....	41	460	14...	13	150	24...	2,510	20
5....	36	443	15...	16	205	25...	1,560	18
6....	24	353	16...	40	231	26...	1,210	16
7....	21	370	17...	26	200	27...	984	16
8....	17	283	18...	15	75	28...	794	14
9....	15	229	19...	13	33	29...	687	13
10...	17	215	20...	11	31	30...	388	12
						31...		11
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							543	137
RUNOFF, IN INCHES							7.91	2.07

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	0.95	12	6-22	2400	8.32	4,980	6-25	2330	6.04	1,370
6-21	0615	0.96	13					6-25	2400	6.03	1,370
6-21	0800	1.05	18								
6-21	0915	1.17	27	6-23	0545	8.65	6,070				
6-21	1015	1.33	40	6-23	0615	8.66	6,100	6-26	0015	6.03	1,370
6-21	1100	1.58	65	6-23	1300	8.47	5,460	6-26	2400	5.50	1,080
6-21	1200	2.14	139	6-23	2400	7.77	3,560				
6-21	1345	3.27	339								
6-21	2230	5.24	966					6-27	0030	5.50	1,080
6-21	2400	5.63	1,150	6-24	0015	7.75	3,520	6-27	2400	5.07	898
				6-24	1430	7.04	2,320				
				6-24	2400	6.69	1,890				
6-22	0830	6.57	1,770								
6-22	1400	7.24	2,600								
6-22	1745	7.52	3,080	6-25	0030	6.67	1,870				

(161) 01530285 SINGSING CREEK NEAR BIG FLATS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°10'43", long 76°53'15", Chemung County, at powerline 0.1 mile upstream from bridge on Singsing Road, 0.8 mile north of county airport, and 3.3 miles northeast of Big Flats.

DRAINAGE AREA.--14.7 sq mi.

MAXIMUM.--June-July 1972: Discharge, 3,000 cfs June 22, from slope-area measurement.

(162) 01530303 CHEMUNG RIVER NEAR BIG FLATS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°05'42", long 76°55'05", Chemung County, at Harris Hill Manor, 0.2 mile downstream from Singsing Creek, and 2.9 miles southeast of Big Flats.

DRAINAGE AREA.--2,150 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 235,000 cfs June 23, from slope-area measurement. Water-surface elevation, 898.7 ft above mean sea level.
Flood of March 1936 reached a peak of 87,200 cfs.

(163) 01530440 NEWTOWN CREEK AT HORSEHEADS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°10'03", long 76°49'09", Chemung County, at bridge on East Franklin Street in Horseheads.

DRAINAGE AREA.--56.4 sq mi.

MAXIMUM.--June-July 1972: Discharge, 5,200 cfs June 22, from contracted-opening measurement and computation of flow over road.

(164) 01530500 NEWTOWN CREEK AT ELMIRA, N.Y.

LOCATION.--Lat 42°06'11", long 76°47'54", Chemung County, on left bank 200 ft downstream from Linden Place Bridge in Elmira, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--77.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2400 hours June 22 to 1500 hours June 27. Datum of gage is 834.53 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,000 cfs. Discharge June 23-27 estimated on basis of one discharge measurement, hydrographer's inspection, water surface elevations observed at sewage treatment plant 1.2 miles upstream, weather records, and comparison with records for stations on nearby streams. Backwater from Chemung River June 22-23.

MAXIMUMS.--June-July 1972: Discharge, about 4,000 cfs about 0500 hours June 23, backwater from Chemung River; gage height, 19.28 ft, from floodmarks, about 1500 hours June 23, backwater from Chemung River.
1937 to May 1972: Discharge, 3,460 cfs Dec. 30, 1942 (gage height, 15.23 ft); gage height, 17.06 ft Oct. 16, 1955.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	78	294	11...	36	64	21...	314	63
2....	69	147	12...	33	53	22...	2,300	50
3....	64	142	13...	35	55	23...	2,700	43
4....	55	176	14...	34	95	24...	800	39
5....	58	113	15...	34	70	25...	500	36
6....	46	102	16...	64	68	26...	400	35
7....	44	87	17...	51	110	27...	360	33
8....	39	83	18...	38	60	28...	234	31
9....	43	71	19...	37	66	29...	151	29
10...	49	68	20...	36	75	30...	216	27
						31...		27
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							297	78
RUNOFF, IN INCHES							4.28	1.16

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.86	36	6-23	1800		2,?00	6-27	1530	6.80	376
6-21	1415	4.89	39	6-23	2400		1,200	6-27	2400	6.27	237
6-21	1615	5.03	55								
6-21	1745	5.79	174								
6-21	1800	6.12	239	6-24	0600		F00	6-28	1030	6.17	213
6-21	1845	7.88	706	6-24	1800		650	6-28	1500	6.37	261
6-21	2400	10.73	1,600	6-24	2400		600	6-28	1900	6.43	276
								6-28	2115	6.30	244
								6-28	2400	6.14	207
6-22	0700	11.34	1,740	6-25	0800		500				
6-22	0900	12.04	1,910	6-25	2400		440				
6-22	1200	12.69	2,070					6-29	0015	6.14	207
6-22	1400	14.82	2,570					6-29	0315	6.02	182
6-22	1600	15.66	2,760	6-26	0800		410	6-29	0445	5.90	158
6-22	2200	16.62	2,980	6-26	1600	6.90	440	6-29	0930	5.90	158
6-22	2400	17.40	3,200	6-26	2400		440	6-29	1030	5.80	140
								6-29	1615	5.79	138
								6-29	1630	5.70	124
6-23	0500		4,000	6-27	1400		410	6-29	2045	5.76	134
6-23	1200		2,900	6-27	1445	6.77	368	6-29	2400	5.77	135

(165) 01530770 SEELEY CREEK NEAR ELMIRA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°02'59", long 76°49'56", Chemung County, along State Highway 328, 0.6 mile upstream from bridge on State Highway 14, in Southport, and 1.9 miles southwest of Elmira.

DRAINAGE AREA.--95.6 sq mi.

MAXIMUM.--June-July 1972: Discharge, 18,900 cfs June 23, from slope-area measurement. Water-surface elevation, 909.48 ft above mean sea level.

(166) 01530910 RORICK HOLLOW CREEK NEAR BREESPORT, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°09'10", long 76°42'44", Chemung County, at bridge on Rorick Hollow Road, 0.5 mile upstream from mouth, and 1.8 miles southeast of Breesport.

DRAINAGE AREA.--1.65 sq mi.

MAXIMUM.--June-July 1972: Discharge, 333 cfs June 23, from computation of flow through culvert and flow over road.

(167) 01531000 CHEMUNG RIVER AT CHEMUNG, N.Y.

LOCATION.--Lat 42°00'08", long 76°38'06", Chemung County, on right bank 100 ft upstream from bridge on State Highway 427, 0.7 mile southwest of Chemung, and 10 miles upstream from mouth.

DRAINAGE AREA.--2,506 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 2100 hours June 22 to 1200 hours June 25 and 1100 hours July 9 to 1200 hours July 10. Stage record reconstructed on the basis of three discharge measurements, hydrographer's readings, flood-marks, photographs, peak time, and comparison by stage and discharge hydrographs with records for upstream stations. Datum of gage is 778.63 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 73,000 cfs and by slope-area and velocity-area studies at 92,000 cfs, slope-area and contracted-opening measurements at 125,000 cfs, and contracted-opening measurement at 189,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 189,000 cfs 2030 hours June 23 (gage height, 31.62 ft, from floodmarks).
1904 to May 1972: Discharge, 132,000 cfs May 28, 1946 (gage height, 23.97 ft).

REMARKS.--High flows slightly regulated by upstream lakes and reservoirs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	8,560	37,400	11...	10,600	10,400	21...	10,300	7,750
2....	16,800	32,900	12...	9,750	9,680	22...	123,000	6,700
3....	16,100	25,200	13...	8,100	8,800	23...	283,000	5,530
4....	12,700	24,000	14...	7,020	8,480	24...	252,000	4,940
5....	17,000	21,400	15...	6,470	8,240	25...	111,000	4,470
6....	19,600	18,400	16...	8,330	7,710	26...	67,100	4,150
7....	15,200	16,100	17...	16,400	8,280	27...	48,600	3,910
8....	11,900	13,800	18...	18,800	7,640	28...	36,700	3,690
9....	10,600	13,100	19...	13,400	7,150	29...	29,200	3,540
10...	10,000	11,100	20...	10,100	7,920	30...	26,300	3,340
						31...		3,120
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							41,200	11,300
RUNOFF,IN INCHES.....							5.89	1.66

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.10	9,150	6-23	0100	31.18	276,000	6-26	0100	13.86	76,400
6-21	1600	2.99	8,760	6-23	1300	31.42	279,500	6-26	2400	11.13	55,600
6-21	1900	3.21	9,540	6-23	2400	32.75	304,000				
6-21	2400	5.90	21,800								
								6-27	0100	11.03	54,900
				6-24	0300	33.43	320,000	6-27	2400	9.04	41,000
6-22	0100	6.56	25,500	6-24	1300	29.74	253,000				
6-22	0600	10.60	51,900	6-24	2400	22.36	160,000				
6-22	1300	18.74	122,000					6-28	0100	8.92	40,100
6-22	2200	29.65	251,000					6-28	2400	7.47	31,000
6-22	2400	30.7	268,000	6-25	0100	21.82	155,000				
				6-25	1300	16.70	101,000				
				6-25	2400	13.90	76,700				

(170) 01532000 TOWANDA CREEK NEAR MONROETON, PA.

LOCATION.--Lat 41°42'27", long 76°28'20", Bradford County, on left bank 10 ft upstream from Lehigh Valley Railroad Bridge, 1,000 ft upstream from South Branch Towanda Creek, and 0.5 mile south of Monroeton.

DRAINAGE AREA.--215 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 1100 to 2200 hours June 22 for which a graph was constructed on basis of high-water mark in gage well. Datum of gage is 753.70 ft above mean sea level.

DISCHARGE RECORDS.--Stage-discharge relation defined by current-meter measurements below 9,500 cfs and by contracted-opening measurement at 20,000 cfs and slope-area measurement at 47,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 47,000 cfs 1700 hours June 22 (gage height, 15.30 ft, from high-water mark in gage well).
1914 to May 1972: Discharge, 31,300 cfs May 28, 1946 (gage height, 12.53 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	851	463	11...	130	165	21...	1,710	145
2....	490	328	12...	00	123	22...	28,700	118
3....	338	256	13...	92	113	23...	14,400	94
4....	290	256	14...	88	128	24...	3,060	79
5....	338	197	15...	80	139	25...	1,790	76
6....	237	224	16...	293	851	26...	1,150	61
7....	198	231	17...	227	360	27...	747	56
8....	165	178	18...	168	242	28...	529	52
9....	130	178	19...	130	181	29...	402	46
10...	180	197	20...	120	165	30...	519	40
						31...		37
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,920	186
RUNOFF,IN INCHES.....							9.97	1.00

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,190	14,000	11...	1,480	3,460	21...	3,140	2,900
2....	2,810	7,520	12...	1,300	2,940	22...	59,400	2,440
3....	2,420	5,660	13...	1,170	2,640	23...	159,000	1,900
4....	2,170	9,280	14...	1,090	2,900	24...	108,000	1,570
5....	4,990	6,410	15...	1,030	2,820	25...	36,000	1,370
6....	3,320	5,230	16...	1,760	2,860	26...	22,400	1,230
7....	2,330	5,080	17...	2,890	3,300	27...	14,900	1,160
8....	1,820	4,490	18...	1,860	2,600	28...	10,200	1,070
9....	1,550	3,700	19...	1,430	2,100	29...	7,550	1,020
10...	1,650	3,300	20...	1,230	2,350	30...	10,600	932
						31...		868
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							15,700	3,520
RUNOFF,IN INCHES.....							7.00	1.62

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
								6-26	0100	12.45	26,800
6-21	1200	4.08	1,070	6-23	0500	25.00	136,000	6-26	2400	10.29	18,200
6-21	1900	4.75	1,980	6-23	1200	27.80	164,000				
6-21	2100	6.69	5,940	6-23	2030	31.62	189,000				
6-21	2300	8.72	12,700					6-27	0100	10.22	17,900
6-21	2400	9.92	16,900					6-27	2400	8.74	12,000
				6-24	0200	28.80	172,000				
				6-24	0600	26.00	147,000				
6-22	0200	11.79	24,200	6-24	1000	23.60	119,000	6-28	0100	8.70	11,800
6-22	0400	13.03	29,100	6-24	1300	20.90	87,000	6-28	2400	7.90	8,750
6-22	0600	14.11	34,400	6-24	2400	17.00	52,000				
6-22	0800	15.40	41,400								
6-22	1200	18.03	59,700					6-29	0100	7.87	8,650
6-22	1600	19.42	71,800	6-23	0200	16.40	48,000	6-29	2400	7.20	6,500
6-22	2000	21.07	88,800	6-25	1300	13.90	33,300				
6-22	2400	23.10	112,000	6-25	2400	12.55	27,200				

(168) 01531250 NORTH BRANCH SUGAR CREEK TRIBUTARY NEAR COLUMBIA CROSS ROADS, PA.

(Crest-stage station)

LOCATION.--Lat 41°50'25", long 76°49'38", Bradford County, at bridge on secondary road, 14 miles upstream from mouth and 1.5 miles west of Columbia Cross Roads.

DRAINAGE AREA.--8.83 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,137.56 ft above mean sea level, datum of 1929.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 50 cfs and extended above on basis of contracted-opening measurement at 1,040 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,410 cfs June 22 (gage height, 6.24 ft).
1963 to May 1972: Discharge, 1,150 cfs Nov. 2, 1967 (gage height, 5.14 ft).

(169) 01531500 SUSQUEHANNA RIVER AT TOWANDA, PA.

LOCATION.--Lat 41°45'55", long 76°26'28", Bradford County, on right bank under Bridge Street Bridge at Towanda, 1.8 miles upstream from Towanda Creek.

DRAINAGE AREA.--7,797 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 1930 hours June 22 to 2000 hours June 24, for which a graph was constructed on basis of hourly observer's readings of wire-weight gage. Fragmentary digital record 2015 hours June 24 to July 12 reconstructed from observer's readings. Datum of gage is 694.38 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 320,000 cfs 0300 hours June 24 (gage height, 33.43 ft).
1865 to May 1972: Discharge, 191,000 cfs May 29, 1946 (gage height, 25.08 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	0.70	151	6-22	0900	9.49	16,100	6-24	0030	5.64	4,380
6-21	1630	.74	162	6-22	1030	12.49	30,300	6-24	2400	4.26	2,200
6-21	1730	1.12	289	6-22	1400	14.9	44,200				
6-21	1800	1.37	396	6-22	1700	15.30	47,000				
6-21	1830	2.46	1,080	6-22	2400	13.89	37,900	6-25	0030	4.25	2,190
6-21	1900	4.08	2,800					6-25	2130	3.75	1,620
6-21	2100	7.00	7,950					6-25	2400	3.64	1,510
6-21	2230	7.31	8,730	6-23	0030	13.56	36,100				
6-21	2400	7.22	8,490	6-23	1130	7.99	10,600				
				6-23	1700	6.51	6,320	6-26	0030	3.62	1,490
				6-23	2400	5.68	4,460	6-26	2400	3.05	1,010
6-22	0600	5.98	5,810								
6-22	0730	7.34	8,810								

(171) 01532200 SOUTH BRANCH TOWANDA CREEK AT NEW ALBANY, PA.

(Crest-stage station)

LOCATION.--Lat 41°35'25", long 76°26'00", Bradford County, at bridge on gravel road, 0.1 mile below French Creek, 0.7 mile above Beaver Run and 0.8 mile south of New Albany.

DRAINAGE AREA.--13.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Elevation of gage is 1,250 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 960 cfs, by slope-area measurement at 1,530 cfs, and by contracted-opening measurement at 2,850 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,850 cfs June 22 (gage height, 9.86 ft).
1963 to May 1972: Discharge, 1,530 cfs Mar. 10, 1964 (gage height, 7.4 ft).

(172) 01532850 MIDDLE BRANCH WYALUSING CREEK TRIBUTARY NEAR BIRCHARDVILLE, PA.

LOCATION.--Lat 41°51'45", long 76°00'26", Susquehanna County, on left bank 60 ft upstream from bridge on State Highway 267, 1,000 ft upstream from mouth, and 1.2 miles north of Birchardville.

DRAINAGE AREA.--5.67 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,077.51 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 270 cfs and by contracted-opening measurement at 500 cfs, extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,120 cfs 0430 hours June 22 (gage height, 6.85 ft).
1960 to May 1972: Discharge, 640 cfs Nov. 2, 1967 (gage height, 6.20 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	31	10	11...	4.9	4.0	21...	75	1.6
2....	35	7.1	12...	4.0	3.0	22...	647	1.3
3....	30	15	13...	3.6	2.8	23...	249	1.1
4....	30	11	14...	3.1	3.0	24...	98	.90
5....	21	7.9	15...	2.8	2.8	25...	57	.79
6....	14	7.1	16...	20	3.8	26...	43	.79
7....	11	5.7	17...	7.3	3.3	27...	27	.70
8....	8.3	5.1	18...	4.9	2.2	28...	18	.63
9....	7.6	4.5	19...	4.9	1.9	29...	14	.58
10...	7.0	5.1	20...	3.8	1.7	30...	14	.54
						31...		.58
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							50	3.9
RUNOFF,IN INCHES.....							9.81	0.76

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.11	3.2					6-23	0700	5.34	212
6-21	1215	4.13	3.5	6-22	0015	6.43	768	6-23	1330	5.51	270
6-21	1445	4.22	5.5	6-22	0200	6.54	852	6-23	2400	5.10	144
6-21	1800	4.28	7.2	6-22	0345	6.75	1,030				
6-21	1900	4.38	11	6-22	0430	6.85	1,120				
6-21	1930	4.41	12	6-22	0700	6.44	775	6-24	0015	5.10	144
6-21	2000	4.58	23	6-22	0900	6.40	745	6-24	2115	4.72	66
6-21	2015	4.74	36	6-22	1130	5.96	475	6-24	2400	4.69	62
6-21	2045	5.18	99	6-22	1415	5.83	410				
6-21	2200	5.89	326	6-22	1945	6.00	495				
6-21	2230	6.18	483	6-22	2215	6.34	703	6-25	0630	4.71	65
6-21	2245	6.55	755	6-22	2400	6.16	586	6-25	0845	4.77	74
6-21	2315	6.39	623					6-25	0945	4.74	69
6-21	2330	6.49	702					6-25	1830	4.62	52
6-21	2400	6.32	574	6-23	0015	6.12	562	6-25	2400	4.58	47
				6-23	0145	5.70	348				

(173) 01533250 TUSCARORA CREEK NEAR SILVARA, PA.

(Crest-stage station)

LOCATION.--Lat 41°42'25", long 76°07'10", Bradford County, at culvert on gravel road, 1 mile northeast of Silvara, 1.1 miles above Mill Creek, and 4.6 miles above mouth.

DRAINAGE AREA.--11.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 900 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200 cfs, by contracted-opening measurement at 620 cfs, and by slope-area measurements at 1,350 and 1,610 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,610 cfs June 22 (gage height, 13.07 ft).
1963 to May 1972: Discharge, 1,350 cfs Mar. 10, 1964 (gage height, 12.92 ft).

(174) 01533800 BUTLER CREEK AT GIBSON, PA.

(Crest-stage station)

LOCATION.--Lat 41°48'10", long 75°38'45", Susquehanna County, at concrete bridge on State Highway 547, at Gibson, and 6 miles above mouth.

DRAINAGE AREA.--7.38 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,189.29 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 420 cfs, by slope-area measurement at 702 cfs, and by contracted-opening measurement at 2,460 cfs.

MAXIMUMS.--June-July 1972: Discharge, 870 cfs June 22 (gage height, 7.8 ft).
1963 to May 1972: Discharge, 2,460 cfs Aug. 27, 1967 (gage height, 17.2 ft).

(175) 01533950 SOUTH BRANCH TUNKHANNOCK CREEK NEAR MONTDALE, PA.

LOCATION.--Lat 41°34'29", long 75°38'32", Lackawanna County, on right bank 70 ft upstream from highway bridge, 0.6 miles downstream from Scott, 1.0 mile upstream from East Benton, 3.5 miles northwest of Montdale, 7.5 miles west of Carbondale, and 16 miles upstream from mouth.

DRAINAGE AREA.--12.6 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except July 17-31. Altitude of gage is 1,090 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200 cfs and by slope-area measurement at 1,160 cfs. Discharge for July 17-31 estimated on basis of correlation with records for Tunkhannock Creek near Tunkhannock.

MAXIMUMS.--June-July 1972: Discharge, 1,160 cfs 2215 hours June 22 (gage height, 5.43 ft).
1961 to May 1972: Discharge, 1,440 cfs (revised) Apr. 2, 1970 (gage height, 5.73 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.26	303					6-25	2400	5.40	2,880
6-21	1600	2.30	320	6-23	0200	11.26	15,100				
6-21	1900	2.41	370	6-23	0800	10.19	12,000				
6-21	2000	2.57	450	6-23	1400	9.45	10,100	6-26	0100	5.36	2,830
6-21	2100	3.04	714	6-23	2200	9.52	10,300	6-26	2400	4.63	2,030
6-21	2200	3.64	1,130	6-23	2400	9.15	9,360				
6-21	2400	5.96	3,600								
								6-27	0100	4.63	2,030
				6-24	0100	8.95	8,880	6-27	2400	3.98	1,410
6-22	0400	8.71	8,400	6-24	1800	6.77	4,770				
6-22	0600	10.20	12,100	6-24	2400	6.16	3,880				
6-22	1500	9.22	9,540					6-28	0100	3.97	1,400
6-22	2400	11.17	14,800					6-28	2400	3.58	1,080
				6-25	0100	6.08	3,770				

(177) SUSQUEHANNA RIVER AT WEST PITTSTON, PA.

(Miscellaneous site)

LOCATION.--Lat 41°21'25", long 75°48'47", Luzerne County, at bridge on Lehigh Valley Railroad at Coxton Yards and 1 mile northwest of West Pittston.

DRAINAGE AREA.--9,533 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 339,000 cfs about 1700 hours June 24.

(178) 01534180 STILLWATER LAKE NEAR FOREST CITY, PA.

LOCATION.--Lat 41°41'46", long 75°29'10", Susquehanna County, at Stillwater Dam on Lackawanna River, 0.3 mile downstream from confluence of East and West Branches, 1.4 miles south of Uniondale, and 3.5 miles north of Forest City.

DRAINAGE AREA.--37.1 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity curve furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 1,410 cfs 1300 hours June 23; contents, 5,460 acre-ft 1200 hours June 25 (elevation, 1,602.00 ft).
1960 to May 1972: Contents, 5,860 acre-ft Apr. 5, 1960 (elevation, 1,603.2 ft).

REMARKS.--Reservoir formed by an earthfill dam, rock faced, with ungated concrete spillway at elevation, 1,621.00 ft. Storage began in December 1959. Capacity at elevation, 1,621.00 ft is 12,000 acre-ft. Reservoir is used for flood control and municipal water supply. Figures given herein represent total contents. Flood storage is regulated by power-operated slide gate.

COOPERATION.--Records furnished by Corps of Engineers, Baltimore.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,578.35	1,040	1,577.35	935	16	1,574.00	600	1,573.99	599
2	1,577.50	950	1,576.17	817	17	1,573.92	592	1,573.79	579
3	1,576.69	869	1,574.97	697	18	1,573.70	570	1,573.60	560
4	1,575.92	792	1,574.33	633	19	1,573.80	580	1,573.40	540
5	1,575.48	748	1,574.07	607	20	1,573.70	570	1,573.36	536
6	1,574.61	661	1,573.90	590	21	1,574.37	637	1,573.29	529
7	1,574.14	614	1,573.73	573	22	1,580.92	1,360	1,573.19	519
8	1,573.88	588	1,573.56	556	23	1,595.21	3,840	1,573.10	510
9	1,573.79	579	1,573.47	547	24	1,600.65	5,160	1,573.00	500
10	1,573.90	590	1,573.53	553	25	1,600.16	5,040	1,573.06	506
11	1,573.71	571	1,573.44	544	26	1,594.75	3,750	1,573.07	507
12	1,573.62	562	1,573.33	533	27	1,588.65	2,660	1,572.97	497
13	1,573.55	555	1,573.58	558	28	1,582.50	1,590	1,572.90	490
14	1,573.62	562	1,574.03	603	29	1,577.54	954	1,572.84	484
15	1,573.53	553	1,574.30	630	30	1,577.35	935	1,572.79	479
					31			1,572.81	481
Change in contents.....							-165		-454

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	173	40	11...	29	13	21...	12	7.2
2....	58	31	12...	22	10	22...	331	6.4
3....	37	24	13...	19	9.0	23...	421	5.6
4....	54	23	14...	17	9.0	24...	182	5.2
5....	45	19	15...	14	14	25...	109	4.7
6....	29	18	16...	17	10	26...	86	6.0
7....	23	16	17...	16	22	27...	63	4.8
8....	18	13	18...	12	15	28...	45	4.0
9....	23	13	19...	13	11	29...	38	3.4
10...	74	16	20...	11	9.0	30...	35	2.8
						31...		2.7
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							68	13
RUNOFF,IN INCHES.....							5.98	1.14

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.40	9.0	6-22	0915	3.78	252	6-23	2400	3.80	257
6-21	1430	1.44	10	6-22	1200	3.26	157				
6-21	2200	1.60	17	6-22	1430	3.30	163				
6-21	2300	1.77	25	6-22	1545	3.73	241	6-24	0015	3.80	257
6-21	2400	2.23	52	6-22	1945	4.95	770	6-24	2400	3.01	123
				6-22	2215	5.43	1,160				
				6-22	2400	5.28	1,020				
6-22	0300	3.20	148					6-25	0030	3.00	122
6-22	0515	3.92	289					6-25	2400	2.78	99
6-22	0745	4.33	430	6-23	0015	5.28	1,020				
6-22	0830	4.19	376	6-23	0730	4.28	409				

(176) 01534000 TUNKHANNOCK CREEK NEAR TUNKHANNOCK, PA.

(Formerly published as Tunkhannock Creek at Dixon)

LOCATION.--Lat 41°33'29", long 75°53'42", Wyoming County, on left bank 300 ft upstream from bridge on U. S. Highway 6 at Dixon, 3 miles northeast of Tunkhannock, and 4 miles upstream from mouth.

DRAINAGE AREA.--383 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals except July 19-31, for which water-stage-recorder graph was available. Datum of gage is 610.50 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,000 cfs and extended above by logarithmic plotting. Prior to 1972 stage-discharge relation extended above 4,700 cfs on basis of slope-area measurement at 33,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 15,100 cfs 0200 hours June 23 (gage height, 11.26 ft). 1914 to May 1972: Discharge, 33,600 cfs Mar. 10, 1964 (gage height, 14.26 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,480	1,780	11...	630	400	21...	537	274
2....	1,730	1,080	12...	476	329	22...	10,400	243
3....	1,270	810	13...	420	291	23...	11,900	214
4....	1,430	744	14...	385	570	24...	6,110	186
5....	1,910	619	15...	338	564	25...	3,420	173
6....	1,120	592	16...	493	559	26...	2,410	190
7....	894	509	17...	504	708	27...	1,710	164
8....	678	430	18...	375	435	28...	1,250	149
9....	581	385	19...	375	352	29...	1,030	135
10...	971	430	20...	334	307	30...	999	124
						31...		122
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,940	447
RUNOFF,IN INCHES.....							5.65	1.35

(179) 01534300 LACKAWANNA RIVER NEAR FOREST CITY, PA.

LOCATION.--Lat 41°40'47", long 75°28'20", Susquehanna County, on left bank 400 ft downstream from bridge on State Highway 171, 1.3 miles downstream from new Stillwater Dam, 1.7 miles below confluence of East and West Branches, and 2.2 miles north of Forest City.

DRAINAGE AREA.--38.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals. Datum of gage is 1,551.28 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 600 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,010 cfs 0300 hours June 26 (gage height, 4.84 ft). 1942 to May 1972: Discharge, 2,530 cfs May 22, 1942 (gage height, unknown), from computation of flow over dam.

REMARKS.--Flow regulated by Stillwater Lake 1.3 miles upstream since December 1959 (see station 01534180).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	207	242	11...	60	53	21...	52	42
2....	236	228	12...	56	49	22...	130	37
3....	217	192	13...	52	45	23...	81	33
4....	197	150	14...	47	65	24...	44	28
5....	177	112	15...	45	99	25...	283	24
6....	141	95	16...	89	102	26...	985	26
7....	104	81	17...	75	84	27...	895	25
8....	77	66	18...	57	68	28...	745	22
9....	65	57	19...	52	54	29...	517	20
10...	63	53	20...	52	45	30...	309	17
						31...		17
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							204	72
RUNOFF,IN INCHES.....							5.85	2.14

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.05	51	6-23	1600	2.21	74	6-25	2400	4.79	985
6-21	2100	2.08	54	6-23	2400	2.11	59				
6-21	2400	2.22	75								
								6-26	0300	4.84	1,010
				6-24	0100	2.10	57	6-26	2400	4.71	945
6-22	1500	2.67	167	6-24	2400	1.91	34				
6-22	1700	2.75	187								
6-22	1900	2.68	169					6-27	0100	4.71	945
6-22	2400	2.48	124	6-25	1000	1.88	31	6-27	2400	4.48	830
				6-25	1100	1.94	37				
				6-25	1200	2.15	65				
6-23	0100	2.43	114	6-25	1600	2.98	247	6-28	0200	4.47	825
6-23	0600	2.24	79	6-25	2000	4.42	800	6-28	2400	4.05	633

(180) 01534500 LACKAWANNA RIVER AT ARCHBALD, PA.

LOCATION.--Lat 41°30'16", long 75°32'33", Lackawanna County, on right bank in Archbald, 0.5 mile upstream from White Oak Run and Gilmartin Street Bridge.

DRAINAGE AREA.--108 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 889.33 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,200 cfs and by slope-area measurement at 9,510 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,000 cfs 2330 hours June 22 (gage height, 6.09 ft). 1940 to May 1972: Discharge, 9,510 cfs May 22, 1942 (gage height, 10.58 ft).

REMARKS.--Flow regulated by Stillwater Lake about 17 miles upstream since December 1959 (see station 01534180).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	785	778	11...	265	198	21...	187	115
2....	578	542	12...	234	182	22...	1,170	107
3....	501	475	13...	217	161	23...	2,240	98
4....	484	423	14...	201	169	24...	1,320	92
5....	470	339	15...	184	192	25...	978	90
6....	370	294	16...	223	198	26...	1,620	88
7....	321	255	17...	220	182	27...	1,410	84
8....	255	240	18...	187	161	28...	1,170	81
9....	262	217	19...	177	141	29...	865	75
10...	355	217	20...	166	127	30...	723	70
						31...		71
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							605	208
RUNOFF,IN INCHES.....							6.25	2.23

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.29	159					6-25	2400	4.73	1,480
6-21	1200	2.35	174								
6-21	2200	2.56	231	6-23	0030	6.03	2,920				
6-21	2230	2.83	318	6-23	0700	5.19	1,920	6-26	0830	4.97	1,700
6-21	2400	2.93	355	6-23	1400	5.71	2,510	6-26	1700	4.87	1,600
				6-23	2400	5.06	1,790	6-26	2400	4.79	1,530
6-22	0030	3.01	386								
6-22	0130	3.46	582	6-24	0030	5.04	1,770	6-27	0100	4.78	1,520
6-22	0500	3.71	711	6-24	2400	4.06	942	6-27	2400	4.51	1,290
6-22	1400	3.67	689								
6-22	1630	4.24	1,080								
6-22	2230	6.04	2,930	6-25	1800	4.05	935	6-28	0030	4.51	1,290
6-22	2330	6.09	3,000	6-25	2300	4.61	1,370	6-28	2400	4.15	1,010
6-22	2400	6.09	3,000								

(181) 01536000 LACKAWANNA RIVER AT OLD FORGE, PA.

LOCATION.--Lat 41°21'33", long 75°44'41", Lackawanna County, on right bank 150 ft upstream from Delaware, Lackawanna, and Western Railroad Bridge in Old Forge, and 0.5 mile upstream from St. Johns Creek.

DRAINAGE AREA.--332 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except June 30 to July 6. Datum of gage is 595.26 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,000 cfs and by slope-area measurements at 20,900 and 31,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,340 cfs 0130 hours June 23 (gage height, 8.78 ft).
1939 to May 1972: Discharge, 31,000 cfs Aug. 19, 1955 (gage height, 20.05 ft, from floodmark).

REMARKS.--Flow regulated by Stillwater Lake about 33 miles upatream since December 1959 (see station 01534180).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,140	900	11...	887	401	21...	534	211
2....	1,890	800	12...	703	356	22...	3,530	196
3....	1,410	720	13...	590	313	23...	6,530	176
4....	1,250	660	14...	520	329	24...	3,600	162
5....	1,360	620	15...	455	361	25...	2,380	142
6....	977	560	16...	527	340	26...	2,480	145
7....	809	520	17...	527	455	27...	2,160	136
8....	634	443	18...	443	345	28...	1,840	128
9....	649	418	19...	576	293	29...	1,300	119
10...	1,470	507	20...	461	255	30...	1,000	113
						31...		133
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,490	363
RUNOFF,IN INCHES.....							5.00	1.26

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	4.62	13,100	6-23	1500	38.45	304,000	6-26	0100	28.39	184,000
6-21	1900	4.32	12,400	6-23	2000	37.42	288,000	6-26	1200	21.58	120,000
6-21	2400	5.04	15,300	6-23	2400	38.10	298,000	6-26	2400	17.68	88,900
6-22	0400	6.50	21,100	6-24	0800	39.7	324,000	6-27	0100	17.45	87,100
6-22	0900	10.03	38,200	6-24	1900	40.91	345,000	6-27	2400	13.82	61,200
6-22	1600	16.78	82,000	6-24	2400	40.25	333,000				
6-22	2400	27.78	178,000					6-28	0100	13.70	60,400
				6-25	1200	35.07	284,000	6-28	2400	11.47	46,800
6-23	1000	37.50	290,000	6-25	2400	29.20	192,000				
								6-29	0100	11.38	46,300
								6-29	2400	9.73	36,700

(184) 01537000 TOBY CREEK AT LUZERNE, PA.

LOCATION.--Lat 41°16'57", long 75°53'46", Luzerne County, on right bank at Luzerne, 150 ft upstream from bridge on U.S. Highway 309, 0.5 mile upstream from inlet works of flood basin, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--32.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 574.60 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by slope-area measurement at 3,390 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,390 cfs 2215 hours June 22 (gage height, 6.07 ft, from digital tape; 7.59 ft,from floodmarks).
1942 to May 1972: Discharge, 3,010 cfs Dec. 30, 1942 (gage height, 4.8 ft).

REMARKS.--Some regulation by Huntsville Reservoir 5.9 miles upstream (usable capacity, 5,900 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	538	70	11...	45	38	21...	282	27
2....	242	53	12...	35	25	22...	1,680	20
3....	152	54	13...	31	22	23...	1,430	18
4....	109	49	14...	28	21	24...	465	14
5....	82	55	15...	25	19	25...	276	13
6....	65	51	16...	46	19	26...	218	12
7....	54	43	17...	37	19	27...	152	13
8....	40	40	18...	59	21	28...	100	12
9....	57	38	19...	100	26	29...	85	13
10...	77	68	20...	59	22	30...	83	13
						31...		15
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							222	30
RUNOFF,IN INCHES.....							7.64	1.06

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.02	53	6-22	0630	2.86	899	6-24	0015	2.52	620
6-21	0830	1.01	51	6-22	0845	2.93	964	6-24	0200	2.56	650
6-21	0915	1.00	50	6-22	1000	2.83	872	6-24	0445	2.46	577
6-21	1130	1.28	92	6-22	1215	2.95	983	6-24	0715	2.39	529
6-21	1515	1.37	111	6-22	1400	3.46	1,440	6-24	0930	2.32	483
6-21	1745	1.40	117	6-22	1545	4.01	1,890	6-24	1830	2.11	362
6-21	1900	1.62	174	6-22	1645	3.55	1,520	6-24	2400	2.01	315
6-21	1915	1.71	201	6-22	1730	4.39	2,190				
6-21	2000	2.23	428	6-22	1745	3.92	1,820				
6-21	2015	2.45	570	6-22	1800	4.04	1,910	6-25	0700	2.02	319
6-21	2030	2.68	744	6-22	1815	4.89	2,560	6-25	2015	1.82	238
6-21	2130	3.39	1,380	6-22	2215	6.07	3,390	6-25	2400	1.77	221
6-21	2300	3.64	1,590	6-22	2300	5.83	3,220				
6-21	2315	3.55	1,520	6-22	2400	5.49	2,980				
6-21	2400	3.23	1,240					6-26	1830	1.72	205
								6-26	2130	1.84	246
				6-23	0015	5.39	2,910	6-26	2200	1.83	242
6-22	0030	3.09	1,110	6-23	0745	3.76	1,690	6-26	2400	1.80	231
6-22	0115	3.23	1,240	6-23	1630	2.88	917				
6-22	0230	3.44	1,430	6-23	2400	2.54	635				
6-22	0500	3.06	1,080					6-27	0045	1.80	231
6-22	0615	3.05	1,080					6-27	0745	1.64	180
								6-27	0845	1.47	134
								6-27	1730	1.39	115
								6-27	2400	1.37	111

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.69	412	6-22	2400	8.65	9,110				
6-21	1130	2.70	418								
6-21	1930	2.82	493					6-26	1000	4.81	2,570
6-21	2100	3.04	649	6-23	0130	8.78	9,340	6-26	1830	4.74	2,480
6-21	2230	3.78	1,320	6-23	1200	6.92	6,090	6-26	2400	4.63	2,330
6-21	2330	3.96	1,520	6-23	2400	6.27	4,870				
6-21	2400	3.91	1,460								
								6-27	0030	4.63	2,330
				6-24	0030	6.21	4,770	6-27	2400	4.34	1,960
6-22	0130	4.24	1,840	6-24	2400	4.91	2,710				
6-22	0230	4.43	2,070								
6-22	0930	4.55	2,230					6-28	0100	4.36	1,980
6-22	1430	4.80	2,560	6-25	0030	4.89	2,690	6-28	2230	4.23	1,830
6-22	1830	6.08	4,550	6-25	2400	4.54	2,210	6-28	2400	4.21	1,800

(182) ABRAHAMS CREEK AT WEST WYOMING, PA.

(Miscellaneous site)

LOCATION.--Lat 41°19'10", long 75°50'44", Luzerne County, at downstream side of bridge on West Eighth Street at West Wyoming.

DRAINAGE AREA.--10.5 sq mi.

DISHCARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 1,040 cfs about 2200 hours June 22.

(183) 01536500 SUSQUEHANNA RIVER AT WILKES-BARRE, PA.

LOCATION.--Lat 41°15'03", long 75°52'52", Luzerne County, on left bank at foot of West Union Street, Wilkes-Barre, 800 ft downstream from North Street Bridge, and 1.6 miles upstream from Toby Creek.

DRAINAGE AREA.--9,960 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals except 1000 hours June 23 to 1000 hours June 25 and July 19-30, for which a graph was constructed on basis of floodmark in gage house and one or more daily observer's readings of nonrecording gages. Datum of gage is 512.07 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 190,000 cfs and by slope-area measurement at 345,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 345,000 cfs 1900 hours June 24 (gage height, 40.91 ft). 1784 to May 1972: Discharge, 232,000 cfs Mar. 18, 1865, and Mar. 20, 1936 (gage heights, 33.1 ft, from floodmark, and 33.07 ft; respectively).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	19,500	38,200	11...	14,100	14,700	21...	13,000	10,800
2...	20,200	41,800	12...	13,700	13,300	22...	68,700	8,990
3...	23,900	35,200	13...	12,500	12,000	23...	272,000	8,190
4...	21,500	28,200	14...	10,400	10,900	24...	329,000	6,860
5...	21,300	27,400	15...	9,060	10,900	25...	275,000	5,970
6...	23,800	24,100	16...	8,820	10,600	26...	128,000	5,420
7...	23,800	21,100	17...	11,800	11,800	27...	73,500	4,950
8...	18,700	18,800	18...	19,700	11,200	28...	53,300	4,650
9...	15,500	17,000	19...	21,400	10,200	29...	41,400	4,360
10...	16,200	16,500	20...	15,900	9,720	30...	34,100	4,120
						31...		3,880
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							54,300	14,600
RUNOFF,IN INCHES							6.09	1.69

(185) 01537500 SOLOMON CREEK AT WILKES-BARRE, PA.

LOCATION.--Lat 41°13'39", long 75°54'17", Luzerne County, on right bank at southwest city limits of Wilkes-Barre, 20 ft downstream from bridge on Centrail Railroad of Pennsylvania, 0.4 mile downstream from Spring Run, and 3.4 miles upstream from mouth.

DRAINAGE AREA.--15.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 548.31 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 380 cfs and by contracted-opening measurement at 2,450 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,220 cfs 1945 hours June 22 (gage height, 6.92 ft). 1940 to May 1972: Discharge, 2,450 cfs Aug. 18, 1955 (gage height, 9.83 ft). Flood of Sept. 16, 1933, reached a stage of 11.4 ft, from floodmark.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	109	13	11...	8.1	3.3	21...	27	1.3
2....	63	10	12...	5.7	2.9	22...	351	2.0
3....	45	7.4	13...	4.9	2.9	23...	278	2.0
4....	32	5.3	14...	4.1	2.4	24...	135	1.4
5....	22	6.2	15...	3.5	3.1	25...	87	1.3
6....	17	4.0	16...	4.3	5.1	26...	60	1.5
7....	13	3.2	17...	4.8	3.9	27...	40	1.3
8....	10	3.1	18...	9.3	2.0	28...	26	1.4
9....	8.4	3.3	19...	5.7	1.8	29...	19	1.6
10...	12	6.9	20...	3.2	1.4	30...	16	1.7
						31...		1.4
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							47	3.5
RUNOFF,IN INCHES							3.37	0.26

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.38	4.8	6-21	2400	2.70	111				
6-21	0715	1.38	4.8					6-24	0630	3.16	183
6-21	0815	1.23	3.0					6-24	2045	4.25	407
6-21	0915	1.17	2.5	6-22	0100	2.73	121	6-24	2100	4.25	407
6-21	1045	1.22	2.8	6-22	0400	2.43	83	6-24	2400	4.13	378
6-21	1145	1.42	5.6	6-22	0515	2.51	92				
6-21	1230	1.45	6.1	6-22	0815	2.26	63				
6-21	1300	1.56	8.8	6-22	1045	2.28	65	6-25	0015	4.12	371
6-21	1345	1.49	7.1	6-22	1130	2.52	94	6-25	0830	2.65	105
6-21	1445	1.46	6.3	6-22	1500	3.63	273	6-25	2115	2.38	72
6-21	1645	1.34	4.2	6-22	1630	4.30	424	6-25	2400	2.36	69
6-21	1715	1.39	5.0	6-22	1815	5.66	799				
6-21	1800	1.56	8.8	6-22	1945	6.92	1,220				
6-21	1830	1.99	30	6-22	2400	5.08	630	6-26	0615	2.38	69
6-21	1845	1.99	30					6-26	2400	2.21	51
6-21	1900	2.08	38								
6-21	1915	2.27	58	6-23	0015	4.95	594				
6-21	1945	3.02	156	6-23	0530	3.81	311	6-27	0045	2.21	48
6-21	2100	2.72	113	6-23	2400	3.08	173	6-27	2400	2.04	32
6-21	2130	2.87	134								

(186) 01538000 WAPWALLOPEN CREEK NEAR WAPWALLOPEN, PA.

LOCATION.--Lat 41°03'33", long 76°05'38", Luzerne County, on left bank 100 ft upstream from Harts Bridge, 2.2 miles southeast of Wapwallopen, and 3.7 miles upstream from mouth.

DRAINAGE AREA.--43.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 752.41 ft above mean sea level (Penn Central Railroad bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,300 cfs and by contracted-opening measurement at 5,410 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,410 cfs 2030 hours June 22 (gage height, 11.04 ft). 1920 to May 1972: Discharge, 3,140 cfs Aug. 18, 1955 (gage height, 9.23 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	288	90	11...	51	68	21...	126	53
2....	167	76	12...	45	55	22...	2,070	49
3....	163	68	13...	45	49	23...	1,770	42
4....	113	63	14...	42	46	24...	638	39
5....	98	69	15...	39	42	25...	370	36
6....	84	68	16...	40	80	26...	256	38
7....	76	58	17...	42	108	27...	184	34
8....	64	61	18...	41	68	28...	139	31
9....	57	66	19...	84	62	29...	119	29
10...	61	117	20...	47	53	30...	110	28
						31...		29
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							248	57
RUNOFF,IN INCHES.....							6.31	1.51

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.32	41	6-22	2100	11.04	5,410				
6-21	1230	1.32	41	6-22	2400	10.13	4,230	6-25	0030	4.10	438
6-21	1730	1.53	59					6-25	2400	3.50	291
6-21	1900	1.92	103								
6-21	2000	2.47	188	6-23	0030	9.94	4,000				
6-21	2400	4.81	805	6-23	0730	7.39	1,890	6-26	0030	3.49	289
				6-23	1600	6.12	1,190	6-26	2400	3.13	215
				6-23	2400	5.48	912				
6-22	0230	5.34	989								
6-22	1130	4.28	632					6-27	0100	3.11	211
6-22	1300	4.86	822	6-24	0030	5.46	904	6-27	2400	2.77	154
6-22	1630	8.20	2,470	6-24	2400	4.10	438				
6-22	2030	11.04	5,410								

(187) 01538800 HUNTINGTON CREEK NEAR PIKES CREEK, PA.

(Crest-stage station)

LOCATION.--Lat 41°18'40", long 76°08'50", Luzerne County, at bridge on State Highway 118, 1.5 miles above Mitchler Run, and 2.8 miles west of Pikes Creek.

DRAINAGE AREA.--4.94 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,120 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 210 cfs and by slope-area measurements at 552 and 948 cfs.

MAXIMUMS.--June-July 1972: Discharge, 948 cfs June 22 (gage height, 9.34 ft).
1960 to May 1972: Discharge, 740 cfs June 16, 1969 (gage height, 8.87 ft).

(188) 01539000 FISHING CREEK NEAR BLOOMSBURG, PA.

LOCATION.--Lat 41°04'41", long 76°25'53", Columbia County, on left bank 25 ft downstream from highway bridge, 0.8 mile downstream from Green Creek, 0.9 mile west of Orangeville, and 5.5 miles north of Bloomsburg.

DRAINAGE AREA.--274 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 2100 hours June 22 to 0130 hours June 23, for which a graph was constructed on basis of floodmark in gage house. Datum of gage is 540.68 ft above mean sea level (Reading Company bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,500 cfs and by contracted-opening measurement at 18,100 cfs, extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 30,900 cfs 2300 hours June 22 (gage height, 15.18 ft, from floodmark in gage house).
1939 to May 1972: Discharge, 18,100 cfs Mar. 31, 1940 (gage height, 12.08 ft, from floodmark in gage well).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0010	1.43	0.5	6-22	0200	2.68	52	6-22	2400	3.20	101
6-21	0845	1.46	0.7	6-22	0400	3.06	86				
6-21	1305	1.50	0.9	6-22	0430	4.09	230				
6-21	1555	1.54	1.2	6-22	0440	4.64	342	6-23	0200	3.07	87
6-21	1615	1.65	3.2	6-22	0500	4.95	425	6-23	1200	2.80	61
6-21	1655	1.74	4.7	6-22	0520	4.68	351	6-23	1950	2.68	52
6-21	1755	1.97	9.9	6-22	0545	4.18	246	6-23	2400	2.65	50
6-21	1905	2.30	25	6-22	0700	3.17	98				
6-21	1940	2.52	37	6-22	1015	2.95	75				
6-21	2015	2.82	63	6-22	1220	3.18	99	6-24	0400	2.58	45
6-21	2115	2.49	38	6-22	1300	3.62	154	6-24	0935	2.48	39
6-21	2235	2.29	27	6-22	1345	4.51	312	6-24	2400	2.27	27
6-21	2400	2.21	23	6-22	1415	5.01	443				
				6-22	1445	5.15	487				
				6-22	1600	5.01	443	6-25	0510	2.32	29
6-22	0050	2.23	24	6-22	1730	4.59	331	6-25	0605	2.32	30
6-22	0140	2.48	38	6-22	1915	3.72	169	6-25	2335	2.10	19
6-22	0145	2.53	41	6-22	2145	3.47	133	6-25	2400	2.11	19

(190) 01540500 SUSQUEHANNA RIVER AT DANVILLE, PA.

LOCATION.--Lat 40°57'29", long 76°37'10", Montour County, on right bank 200 ft upstream from Mill Street Bridge at Danville, and 0.8 mile upstream from Mahoning Creek.

DRAINAGE AREA.--11,220 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals except 1000 hours June 25 to 1700 hours June 27 for which graph was constructed on basis of 7 tape-gage readings. Datum of gage is 431.29 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 230,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 363,000 cfs 0500 hours June 25 (gage height, 32.16 ft); maximum gage height, 32.32 ft 2000 hours June 24, backwater from West Branch Susquehanna River.
1899 to May 1972: Discharge, 250,000 cfs Mar. 20, 1936 (gage height, 27.4 ft); maximum gage height, 30.7 ft Mar. 9, 1904.
Flood of Mar. 18, 1865 reached a stage of 28 ft, from floodmark.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	23,300	38,600	11...	16,400	17,600	21...	16,200	11,400
2....	26,000	47,400	12...	14,800	15,500	22...	91,200	11,900
3....	26,600	42,600	13...	14,500	14,400	23...	262,000	10,900
4....	26,700	34,300	14...	12,800	13,100	24...	328,000	9,480
5....	23,600	30,000	15...	11,200	12,300	25...	335,000	8,240
6....	23,800	29,100	16...	10,600	12,800	26...	188,000	7,440
7....	26,300	24,800	17...	11,000	14,000	27...	96,300	6,720
8....	23,200	21,900	18...	15,700	14,200	28...	71,300	6,220
9....	18,000	19,500	19...	23,300	13,000	29...	54,100	5,830
10...	17,000	18,700	20...	20,600	11,600	30...	43,600	5,520
						31...		5,270
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							62,400	17,200
RUNOFF,IN INCHES.....							6.20	1.77

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	6.29	17,200	6-23	0400	28.09	230,000	6-26	0600	26.80	236,000
6-21	1400	5.89	15,200	6-23	2400	31.35	307,000	6-26	2400	18.72	119,000
6-21	2400	6.57	18,700								
				6-24	0400	31.35	305,000	6-27	0600	17.10	103,000
6-22	0400	8.53	31,000	6-24	2400	32.26	359,000	6-27	2400	14.56	82,300
6-22	0800	13.50	73,000								
6-22	1200	16.46	92,100								
6-22	1400	17.01	91,300	6-25	0500	32.16	363,000	6-28	0200	14.32	79,800
6-22	2000	22.50	146,000	6-25	1600	31.04	333,000	6-28	2400	12.22	61,000
6-22	2400	26.16	199,000	6-25	2400	28.70	269,000				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,420	902	11...	333	414	21...	958	557
2....	1,120	715	12...	292	337	22...	18,000	452
3....	998	584	13...	271	305	23...	18,500	367
4....	806	505	14...	258	292	24...	5,670	314
5....	693	499	15...	242	333	25...	3,670	275
6....	551	538	16...	538	564	26...	2,750	254
7....	493	430	17...	531	1,160	27...	1,980	227
8....	408	372	18...	424	738	28...	1,520	208
9....	347	347	19...	760	531	29...	1,310	186
10...	387	452	20...	598	564	30...	1,080	172
						31...		166
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,230	444
RUNOFF,IN INCHES.....							9.08	1.87

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.12	518								
6-21	1530	3.16	544	6-23	0200	14.95	29,800				
6-21	1800	3.59	862	6-23	2130	9.22	9,150	6-26	0030	5.72	3,030
6-21	2130	5.00	2,210	6-23	2400	8.77	8,060	6-26	2400	5.11	2,330
6-21	2400	6.30	3,770								
				6-24	0030	8.70	7,900	6-27	0030	5.10	2,320
6-22	0530	8.59	7,660	6-24	2030	6.87	4,600	6-27	2400	4.48	1,670
6-22	0700	9.20	9,100	6-24	2400	6.68	4,310				
6-22	0900	11.55	16,300								
6-22	2300	15.18	30,900					6-28	2030	4.15	1,350
6-22	2400	15.15	30,800	6-25	0030	6.65	4,270	6-28	2200	4.64	1,830
				6-25	2400	5.72	3,030	6-28	2400	4.32	1,510

(189) 01540200 TREXLER RUN NEAR RINGTOWN, PA.

LOCATION.--Lat 40°51'10", long 76°16'48", Schuylkill County, at bridge on Legislative Route 53064, 1.9 miles upstream from mouth, and 2.5 miles west of Ringtown.

DRAINAGE AREA.--1.77 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 5-minute intervals. Altitude of gage is 1,110 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 40 cfs and by computation of flow through culvert and over road at 487 cfs.

MAXIMUMS.--June-July 1972: Discharge, 487 cfs 1445 hours June 22 (gage height, 5.15 ft).
1959 to May 1972: Discharge, 178 cfs Feb. 25, 1961 (gage height, 3.11 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4.2	5.4	11...	.85	2.4	21...	9.1	2.2
2....	3.4	4.5	12...	.79	2.1	22...	192	2.1
3....	3.3	3.9	13...	.79	2.1	23...	66	2.0
4....	2.5	3.4	14...	.67	2.0	24...	37	1.9
5....	2.0	4.2	15...	.61	2.0	25...	24	1.8
6....	1.8	3.4	16...	.73	3.1	26...	18	1.8
7....	1.6	3.0	17...	.67	3.9	27...	12	1.7
8....	1.2	3.0	18...	.79	2.7	28...	8.8	1.6
9....	1.1	2.8	19...	.79	2.4	29...	7.3	1.4
10...	1.3	3.0	20...	.56	2.4	30...	7.3	1.3
						31...		1.2
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							14	2.6
RUNOFF,IN INCHES.....							8.64	1.70

(191) SCHLER RUN AT DANVILLE, PA.

(Miscellaneous site)

LOCATION.--Lat 40°57'34", long 76°36'18", Montour County, at culvert at U.S. Highway 11 at Danville.

DRAINAGE AREA.--5.42 sq mi.

DISCHARGE RECORD.--Peak discharge by computation of flow through culvert.

MAXIMUM.--June-July 1972: Discharge, 2,310 cfs June 22.

(192) BLIZZARD RUN AT DANVILLE, PA.

(Miscellaneous site)

LOCATION.--Lat 40°57'45", long 76°36'40", Montour County, at culvert at U.S. Highway 11 at Danville.

DRAINAGE AREA.--1.95 sq mi.

DISCHARGE RECORD.--Peak discharge by computation of flows through culvert and over road.

MAXIMUM.--June-July 1972: Discharge, 460 cfs June 22.

(193) 01540650 WEST BRANCH SUSQUEHANNA RIVER AT CHERRY TREE, PA.

(Miscellaneous site)

LOCATION.--Lat 40°43'34", long 78°48'20", Indiana County, at bridge on State Highway 580 at Cherry Tree.

DRAINAGE AREA.--58.8 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 6,790 cfs June 23.

(194) 01541000 WEST BRANCH SUSQUEHANNA RIVER AT BOWER, PA.

LOCATION.--Lat 40°53'49", long 78°40'38", Clearfield County, on right bank at downstream side of highway bridge at Bower, 4.6 miles downstream from Chest Creek and Mahaffey.

DRAINAGE AREA.--315 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals, except 0230 hours June 23 to 0700 hours June 24, and water-stage-recorder graph. Datum of gage is 1,207.14 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,200 cfs and by slope-area measurement at 31,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 27,500 cfs 1630 hours June 23 (gage height, 18.64 ft).
1914 to May 1972: discharge, 31,500 cfs Mar. 18, 1936 (gage height, 19.74 ft, from flood-mark in gage shelter).
Flood of May 13, 1889, reached a stage of about 18.5 ft (discharge, about 27,000 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	181	1,030	11...	186	615	21...	817	226
2....	160	796	12...	159	497	22...	5,490	216
3....	189	957	13...	720	431	23...	23,200	193
4....	216	1,120	14...	709	381	24...	15,100	252
5....	822	889	15...	443	335	25...	9,070	241
6....	409	1,510	16...	382	441	26...	5,430	192
7....	286	1,540	17...	464	455	27...	2,840	176
8....	220	1,130	18...	329	350	28...	1,770	177
9....	190	884	19...	286	284	29...	1,410	159
10...	243	717	20...	296	255	30...	1,350	143
						31...		138
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,450	540
RUNOFF,IN INCHES.....							8.66	1.98

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	5.22	306								
6-21	1130	5.35	354								
6-21	1430	6.05	663	6-23	1630	18.64	27,500				
6-21	1530	6.46	900	6-23	1900	18.48	26,900	6-26	0030	11.51	7,050
6-21	1700	7.31	1,510	6-23	2400	15.22	16,100	6-26	2400	9.40	3,750
6-21	2400	7.77	1,910								
				6-24	0730	15.22	16,100	6-27	0030	9.36	3,700
6-22	0700	7.97	2,100	6-24	1200	14.35	13,600	6-27	2400	8.03	2,160
6-22	1000	9.11	3,370	6-24	2400	13.31	10,900				
6-22	1800	11.89	7,780								
6-22	2400	14.85	15,100					6-28	0030	8.01	2,140
				6-25	0030	13.28	10,900	6-28	2400	7.23	1,440
				6-25	2400	11.54	7,110				
6-23	0300	15.68	17,500								
6-23	1200	18.13	25,600								

(195) 01541180 CURWENSVILLE LAKE AT CURWENSVILLE, PA.

LOCATION.--Lat 40°57'13", long 78°31'40", Clearfield County, at Curwensville Dam on West Branch Susquehanna River, 0.7 mile upstream from State Highway 453, 1.2 miles south of Curwensville, and 2.5 miles upstream from Anderson Creek.

DRAINAGE AREA.--365 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity table furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 24,200 cfs 1700 hours June 23; contents, 87,650 acre-ft 0700 hours June 25 (elevation, 1,214.11 ft).
1966 to May 1972: Contents, 54,500 acre-ft Apr. 7, 1968 (elevation, 1,197.06 ft).

REMARKS.--Reservoir formed by earthfill dam with excavated chute spillway with concrete control sill at elevation, 1,228.00 ft. Storage began in November 1965. Capacity at elevation, 1,228.00 ft is 124,200 acre-ft. Conservation pool elevation, 1,155.00 ft (capacity, 4,870 acre-ft). Reservoir is used for flood control, recreation, and study of water quality. Figures given herein represent total contents. Flow regulated by three gates and low-flow bypass system.

COOPERATION.--Records furnished by Corps of Engineers, Baltimore.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,162.06	9,590	1,172.30	19,430	16	1,162.12	9,640	1,162.30	9,790
2	1,162.10	9,620	1,163.72	10,970	17	1,162.30	9,790	1,162.24	9,740
3	1,162.10	9,620	1,162.55	10,000	18	1,162.00	9,540	1,161.97	9,520
4	1,162.15	9,660	1,162.05	9,580	19	1,162.00	9,540	1,162.01	9,550
5	1,162.60	10,040	1,162.14	9,660	20	1,162.30	9,790	1,162.11	9,630
6	1,162.05	9,580	1,163.04	10,400	21	1,163.14	10,490	1,162.12	9,640
7	1,162.02	9,560	1,162.11	9,630	22	1,174.10	21,430	1,162.09	9,610
8	1,161.98	9,520	1,161.97	9,520	23	1,201.90	63,020	1,162.04	9,570
9	1,162.00	9,540	1,162.10	9,620	24	1,213.86	87,090	1,162.15	9,660
10	1,162.25	9,750	1,162.00	9,540	25	1,213.46	86,210	1,162.12	9,640
11	1,162.18	9,690	1,162.03	9,560	26	1,210.52	79,790	1,161.92	9,480
12	1,162.03	9,560	1,162.00	9,540	27	1,204.80	68,420	1,162.00	9,540
13	1,162.82	10,220	1,162.10	9,620	28	1,197.27	54,860	1,162.10	9,620
14	1,162.13	9,650	1,162.14	9,660	29	1,189.32	42,050	1,162.11	9,630
15	1,161.78	9,370	1,162.07	9,600	30	1,181.20	30,220	1,162.07	9,600
					31			1,162.05	9,580
Change in contents.....				+20,590					-20,640

(196) 01541200 WEST BRANCH SUSQUEHANNA RIVER NEAR CURWENSVILLE, PA.

LOCATION.--Lat 40°57'41", long 78°31'10", Clearfield County, on left bank 30 ft downstream from bridge on State Highway 453, 0.85 mile downstream from Curwensville Lake, 1.1 miles south of Curwensville and 1.8 miles upstream from Anderson Creek.

DRAINAGE AREA.--367 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, except July 15-31, and water-stage-recorder graph. Datum of gage is 1,124.52 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 8,590 cfs 0815 hours June 25 (gage height, 11.40 ft).
1956 to May 1972: Discharge, 15,700 cfs Mar. 10, 1964 (gage height, 14.19 ft).

REMARKS.--Flow regulated since 1966 by Curwensville Lake 0.85 mile upstream (see station 01541180).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0010	1.62	7.5	6-22	1335	2.33	169	6-23	0335	3.82	679
6-21	0720	1.63	8.0	6-22	1510	2.49	144	6-23	0550	3.67	612
6-21	0855	1.65	9.1	6-22	1730	2.81	250	6-23	0830	3.57	567
6-21	1030	1.66	9.7	6-22	1810	2.90	284	6-23	0840	3.43	504
6-21	1055	1.73	14	6-22	1840	2.82	254	6-23	0955	3.36	472
6-21	1100	1.77	18	6-22	1850	2.87	273	6-23	1025	3.12	371
6-21	1105	1.89	38	6-22	1955	2.94	300	6-23	1100	3.18	395
6-21	1110	2.13	106	6-22	2135	3.20	404	6-23	1320	2.99	319
6-21	1215	2.19	124	6-22	2140	3.36	472	6-23	1420	2.91	288
6-21	1300	2.23	136	6-22	2145	3.23	417	6-23	1855	2.68	203
6-21	1330	2.19	124	6-22	2210	3.35	468	6-23	2045	2.70	210
6-21	1930	1.97	58	6-22	2215	3.23	417	6-23	2300	2.61	180
6-21	2400	1.98	61	6-22	2240	3.51	540	6-23	2400	2.63	187
				6-22	2300	3.45	513				
				6-22	2335	3.52	544				
6-22	0005	1.97	61	6-22	2400	3.54	553	6-24	0020	2.56	165
6-22	0125	2.04	82					6-24	0330	2.49	144
6-22	0350	2.28	154					6-24	0600	2.57	168
6-22	0410	2.29	157	6-23	0055	3.54	553	6-24	0625	2.51	150
6-22	0525	2.68	278	6-23	0105	3.36	472	6-24	2000	2.34	107
6-22	0725	2.91	358	6-23	0115	3.45	513	6-24	2400	2.29	96
6-22	0910	2.83	330	6-23	0125	3.38	481				
6-22	1005	2.62	257	6-23	0145	3.27	433				
6-22	1130	2.39	187	6-23	0155	3.73	639	6-25	0010	2.30	98
6-22	1210	2.36	178	6-23	0255	3.69	621	6-25	2400	2.13	65

(198) 01541340 GLENDALE LAKE AT PRINCE GALLITZIN STATE PARK NEAR FLINTON, PA.

LOCATION.--Lat 40°41'50", long 78°32'15", Cambria County, at Glendale Dam on Beaverdam Run, 1 mile upstream from Dutch Run, 1.3 miles southwest of Flinton, 1.9 miles upstream from mouth, and 3.4 miles south of Coalport.

DRAINAGE AREA.--41.9 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except July 8-11. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed from capacity curve furnished by Pennsylvania Department of Environmental Resources.

MAXIMUMS.--June-July 1972: Contents, 33,390 acre-ft about 0100 hours June 24 (elevation, 1,431.63 ft).
1963 to May 1972: Contents, 29,180 acre-ft Mar. 7, 1967 (elevation, 1,429.40 ft).

REMARKS.--Reservoir formed by an earth and rockfill dam with ungated, concrete spillway at elevation, 1,435.50 ft. Storage began Dec. 1, 1960. Capacity at elevation, 1,435.50 ft is 41,200 acre-ft, of which 15,900 acre-ft is controlled storage above elevation, 1,427.00 ft (conservation pool). Dead storage is 25,300 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Regulation is controlled by 72-inch sluice gate and an 8-inch bypass valve.

COOPERATION.--Records furnished by Pennsylvania Department of Environmental Resources.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,427.20	25,620	1,428.48	27,670	16	1,427.48	26,070	1,427.54	26,160
2	1,427.21	25,640	1,428.27	27,330	17	1,427.47	26,050	1,427.54	26,160
3	1,427.22	25,650	1,428.16	27,160	18	1,427.46	26,040	1,427.52	26,130
4	1,427.26	25,720	1,428.01	26,920	19	1,427.44	26,000	1,427.48	26,070
5	1,427.29	25,760	1,428.01	26,920	20	1,427.43	25,990	1,427.46	26,040
6	1,427.27	25,730	1,428.02	26,930	21	1,427.62	26,290	1,427.42	25,970
7	1,427.24	25,680	1,427.99	26,880	22	1,429.45	29,260	1,427.41	25,960
8	1,427.22	25,650	-	-	23	1,431.62	33,370	1,427.35	25,860
9	1,427.20	25,620	-	-	24	1,431.33	32,810	1,427.33	25,830
10	1,427.19	25,600	-	-	25	1,430.83	31,830	1,427.31	25,800
11	1,427.18	25,590	-	-	26	1,430.25	30,680	1,427.25	25,700
12	1,427.18	25,590	1,427.65	26,340	27	1,429.72	29,720	1,427.25	25,700
13	1,427.41	25,960	1,427.59	26,240	28	1,429.27	28,960	1,427.23	25,670
14	1,427.44	26,000	1,427.54	26,160	29	1,429.02	28,530	1,427.22	25,650
15	1,427.47	26,050	1,427.52	26,130	30	1,428.73	28,070	1,427.21	25,640
					31			1,427.20	25,620
Change in contents.....							+2,400		-2,450

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	234	6,690	11...	250	866	21...	507	316
2....	191	5,640	12...	246	730	22...	1,730	316
3....	229	1,600	13...	398	556	23...	1,580	321
4....	295	1,490	14...	1,140	454	24...	2,130	268
5....	585	1,030	15...	647	487	25...	8,410	291
6....	671	1,340	16...	331	493	26...	8,420	310
7....	321	2,150	17...	410	600	27...	8,360	197
8....	259	1,450	18...	473	608	28...	8,240	184
9....	202	1,080	19...	286	382	29...	7,830	202
10...	225	1,030	20...	250	310	30...	7,360	206
						31...		195
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,070	1,030
RUNOFF,IN INCHES.....							6.30	3.22

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.78	268	6-23	1815	4.29	593	6-27	2400	11.21	8,420
6-21	0745	3.78	268	6-23	2200	3.71	250				
6-21	0845	3.96	358	6-23	2400	3.46	158				
6-21	1115	4.06	416					6-28	0015	11.21	8,420
6-21	1415	4.11	448					6-28	2400	10.80	8,030
6-21	1630	4.09	435	6-24	0415	3.26	107				
6-21	1715	4.35	615	6-24	1200	3.18	90				
6-21	2000	4.40	655	6-24	1230	4.10	473	6-29	0030	10.80	8,030
6-21	2030	4.66	885	6-24	1300	4.73	1,010	6-29	2400	10.39	7,620
6-21	2130	4.69	915	6-24	1345	5.00	1,300				
6-21	2230	4.95	1,190	6-24	1530	6.51	3,140				
6-21	2400	5.00	1,250	6-24	1745	7.00	3,730	6-30	0030	10.39	7,620
				6-24	2130	9.18	6,330	6-30	2400	9.83	7,040
				6-24	2400	9.95	7,180				
6-22	0945	5.44	1,790								
6-22	1545	5.41	1,760					7-01	0030	9.82	7,030
6-22	1845	5.84	2,300	6-25	0815	11.40	8,590	7-01	2400	9.17	6,320
6-22	2030	6.14	2,670	6-25	1730	11.33	8,530				
6-22	2045	6.10	2,630	6-25	2400	11.35	8,550				
6-22	2115	5.45	1,810					7-02	0015	9.16	6,310
6-22	2230	5.31	1,640					7-02	2245	8.06	5,000
6-22	2400	5.77	2,210	6-26	0200	11.33	8,530	7-02	2330	5.41	1,780
				6-26	2400	11.05	8,280	7-02	2345	4.91	1,200
								7-02	2400	4.63	905
6-23	0615	6.19	2,730								
6-23	0730	6.08	2,600	6-27	1730	11.33	8,530				

(197) 01541308 BRADLEY RUN NEAR ASHVILLE, PA.

LOCATION.--Lat 40°30'33", long 78°35'02", Cambria County, on right bank 200 ft downstream from bridge on State Highway 53 at Syberton, 0.2 mile upstream from mouth, and 4.5 miles southwest of Ashville.

DRAINAGE AREA.--6.77 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 5-minute intervals. Altitude of gage is 1,770 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 75 cfs and by slope-area measurement at 679 cfs.

MAXIMUMS.--June-July 1972: Discharge, 679 cfs 0335 hours June 23 (gage height, 3.82 ft). 1968 to May 1972: Discharge, 558 cfs Sept. 16, 1971 (gage height, 2.68 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	7.5	20	11...	7.0	12	21...	52	6.8
2....	8.6	17	12...	6.5	11	22...	278	6.3
3....	9.8	18	13...	10	10	23...	389	6.3
4....	8.1	15	14...	8.6	9.5	24...	129	16
5....	14	22	15...	7.0	9.5	25...	80	6.8
6....	9.8	18	16...	14	11	26...	55	6.3
7....	8.6	15	17...	9.2	9.5	27...	39	6.8
8....	8.1	15	18...	8.6	8.4	28...	29	6.3
9....	7.5	13	19...	7.5	7.9	29...	27	5.8
10...	8.1	13	20...	7.0	7.3	30...	25	5.4
						31...		5.4
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							43	11
RUNOFF,IN INCHES.....							7.02	1.87

(199) NORTH WHITMER RUN AT IRVONA, PA.

(Miscellaneous site)

LOCATION.--Lat 40°46'20", long 78°33'20". Clearfield County, at county road bridge at south side of Irvona and 300 feet upstream from confluence with South Whitmer Run.

DRAINAGE AREA.--20.7 sq mi.

DISCHARGE RECORD.--Peak discharge by contracted-opening measurement.

MAXIMUM.--June-July 1972: Discharge, 2,650 cfs June 23.

(200) CLEARFIELD CREEK AT IRVONA, PA.

(Miscellaneous site)

LOCATION.--Lat 40°46'19", long 78°32'57", Clearfield County, at downstream side of bridge on State Highway 53 at Irvona.

DRAINAGE AREA.--193 sq mi.

DISCHARGE RECORD.--Peak Discharge by field estimate.

MAXIMUM.--June-July 1972: Discharge, 24,800 cfs June 23.

(201) 01541500 CLEARFIELD CREEK AT DIMELING, PA.

LOCATION.--Lat 40°58'18", long 78°24'22", Clearfield County, on right bank at downstream side of highway bridge at Dimeling, 600 ft downstream from Little Clearfield Creek, and 4 miles southeast of Clearfield.

DRAINAGE AREA.--371 sq mi.

GAGE-HEIGHT RECORD.-- Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,146.08 ft above mean sea level. Between Oct. 17, 1928 and Oct. 25, 1967, at site 200 ft upstream at same datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 15,000 cfs and by slope-area measurement at 22,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 22,400 cfs 0745 hours June 23 (gage height, 17.56 ft). 1914 to May 1972: Discharge, 30,600 cfs Mar. 18, 1936 (gage height, 18.49 ft, from floodmark in gage shelter).

REMARKS.--Flow regulated by Glendale Lake about 25 miles upstream (see station 01541340).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	327	1,900	11...	245	878	21...	416	336
2....	280	1,430	12...	208	742	22...	7,550	301
3....	345	1,400	13...	451	659	23...	21,100	276
4....	397	1,460	14...	878	582	24...	14,100	359
5....	642	1,260	15...	540	508	25...	7,330	332
6....	513	1,890	16...	451	582	26...	5,510	272
7....	354	1,700	17...	598	582	27...	3,940	237
8....	293	1,460	18...	471	503	28...	2,820	226
9....	257	1,210	19...	401	416	29...	2,300	215
10...	293	998	20...	397	373	30...	2,260	191
						31...		185
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,520	757
RUNOFF,IN INCHES.....							7.59	2.35

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.80	363	6-23	0745	17.56	22,400				
6-21	1630	3.91	416	6-23	1415	17.28	21,800	6-26	0015	9.38	6,190
6-21	2300	4.33	637	6-23	2400	16.31	19,600	6-26	2400	8.29	4,680
6-21	2400	4.42	686								
				6-24	0015	16.28	19,500	6-27	0015	8.28	4,660
				6-24	2400	11.22	9,120	6-27	2400	7.18	3,290
6-22	0415	4.91	998								
6-22	0530	5.63	1,620								
6-22	2130	14.68	16,000								
6-22	2400	15.75	18,400	6-25	0015	11.19	9,070	6-28	0015	7.17	3,270
				6-25	2400	9.38	6,190	6-28	2400	6.42	2,410

(202) 01542000 MOSHANNON CREEK AT OSCEOLA MILLS, PA.

LOCATION.--Lat 40°50'58", long 78°16'05", Clearfield County, on left bank 10 ft upstream from Penn Central Railroad Bridge at Osceola Mills, and 0.1 mile downstream from Trout Run.

DRAINAGE AREA.--68.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,446.98 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,800 cfs and by contracted-opening measurements at 2,200, 2,750, and 5,060 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,120 cfs 0600 hours June 23 (gage height, 14.25 ft). 1941 to May 1972: Discharge, 2,930 cfs Mar. 10, 1964 (gage height, 9.34 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	86	359	11...	74	170	21...	128	88
2....	83	302	12...	69	151	22...	2,030	83
3....	103	284	13...	151	137	23...	4,490	80
4....	106	255	14...	134	126	24...	2,750	89
5....	126	263	15...	106	128	25...	1,910	74
6....	89	260	16...	119	137	26...	1,470	66
7....	83	220	17...	105	122	27...	969	62
8....	77	225	18...	100	108	28...	677	59
9....	78	198	19...	93	100	29...	566	56
10...	91	188	20...	88	94	30...	444	53
						31...		53
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							580	148
RUNOFF,IN INCHES.....							9.40	2.48

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.39	89	6-22	2400	12.60	4,380	6-25	0015	7.90	2,220
6-21	1145	2.49	106					6-25	2400	6.80	1,730
6-21	1945	2.85	177								
6-21	2400	2.96	202	6-23	0600	14.25	5,120				
				6-23	1015	13.81	4,920	6-26	0030	6.79	1,700
				6-23	2400	10.69	3,520	6-26	2400	5.66	1,190
6-22	0345	3.39	325								
6-22	0415	3.68	426								
6-22	0530	4.38	697	6-24	0015	10.65	3,480	6-27	0030	5.64	1,160
6-22	0715	4.95	938	6-24	2400	7.91	2,250	6-27	2400	4.83	797
6-22	1930	10.61	3,480								

(203) MOSHANNON CREEK AT PHILLIPSBURG, PA.

(Miscellaneous site)

LOCATION.--Lat 40°53'43", long 78°13'30", Clearfield County, downstream from bridge on Presque Isle Street at Phillipsburg.

DRAINAGE AREA.--81.1 sq mi.

DISCHARGE RECORD.--Peak discharge in improved channel by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 6,070 cfs June 23.

REMARKS.--Flow bypassing improved channel not measured.

(204) 01542500 WEST BRANCH SUSQUEHANNA RIVER AT KARTHAUS, PA.

LOCATION.--Lat 41°06'56", long 78°06'43", Clearfield County, on left bank 900 ft upstream from bridge on State Highway 879 at Karthaus, 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, includes that of Mosquito Creek.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 830.59 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 50,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 84,300 cfs 0630 hours June 23 (gage height, 18.57 ft). 1936 to May 1972: Discharge, about 135,000 cfs Mar. 18, 1936 (gage height, about 24.5 ft, from floodmarks at highway bridge).

REMARKS.--Flow regulated since 1966 by Curwensville Lake (see station 01541180), about 50 miles upstream, and since 1961 by Glendale Lake (see station 01541340).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.0	16	11...	1.2	7.5	21...	117	1.9
2....	2.4	12	12...	.90	7.5	22...	268	1.7
3....	2.0	11	13...	1.2	6.6	23...	275	1.7
4....	2.2	11	14...	1.0	4.9	24...	88	2.2
5....	1.7	12	15...	1.5	4.2	25...	39	1.5
6....	1.5	11	16...	7.0	3.9	26...	30	1.3
7....	1.3	12	17...	5.7	2.9	27...	23	1.2
8....	1.2	11	18...	4.2	2.4	28...	15	1.0
9....	1.3	8.5	19...	3.4	2.2	29...	12	.90
10...	1.7	8.5	20...	3.1	1.9	30...	15	.81
						31...		.81
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							31	5.6
RUNOFF,IN INCHES.....							6.59	1.22

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.70	13	6-22	1530	5.14	278	6-23	2400	4.52	144
6-21	0100	3.80	22	6-22	1845	5.52	370				
6-21	0115	3.94	40	6-22	2000	5.75	430				
6-21	0215	3.99	48	6-22	2015	5.62	395	6-24	0015	4.50	138
6-21	0500	4.06	59	6-22	2215	5.86	469	6-24	1415	4.16	75
6-21	1830	4.66	172	6-22	2330	5.81	449	6-24	2400	4.04	54
6-21	2215	4.68	176	6-22	2400	5.78	439				
6-21	2400	4.66	172								
								6-25	0015	4.04	54
				6-23	0030	5.80	445	6-25	1800	3.89	31
6-22	0900	4.77	195	6-23	2245	4.56	152	6-25	2400	3.89	31

(207) DRIFTWOOD BRANCH SINNEMAHONING CREEK AT EMPORIUM, PA.

(Miscellaneous site)

LOCATION.--Lat 41°30'42", long 78°14'55", Cameron County, upstream from bridge on U.S. Highway 120 at Emporium.

DRAINAGE AREA.--86.2 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 6,180 cfs June 22.

(208) 01542860 WEST CREEK NEAR EMPORIUM, PA.

(Miscellaneous site)

LOCATION.--Lat 41°29'47", long 78°16'15", Cameron County, 300 feet downstream from county bridge 0.1 mile northeast from village of West Creek and 2 miles southwest of Emporium.

DRAINAGE AREA.--59.1 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 7,510 cfs June 22.

(209) 01543000 DRIFTWOOD BRANCH SINNEMAHONING CREEK AT STERLING RUN, PA.

LOCATION.--Lat 41°24'48", long 78°11'50", Cameron County, on downstream side of first pier of highway bridge at village of Sterling Run and 300 ft upstream from Sterling Run.

DRAINAGE AREA.--272 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 2030 hours June 22 to 0400 hours June 23, for which graph constructed on basis of floodmarks and adjoining record. Water-stage-recorder graph except 0600 hours June 21 to 1400 hours June 25. Datum of gage is 894.84 ft above mean sea level. Oct. 1, 1932 to Sept. 30, 1942, at site 800 ft upstream at same datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs and by slope-area measurements at 28,400 and 47,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 32,000 cfs 2330 hours June 22 (gage height, 12.20 ft, from floodmarks).
1914 to May 1972: Discharge, 47,800 cfs July 18, 1942 (gage height, 14.70 ft, from floodmarks at highway bridge).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,640	13,800	11...	1,760	4,490	21...	1,690	1,540
2....	1,460	11,500	12...	1,460	3,600	22...	21,700	1,370
3....	1,320	7,800	13...	1,510	3,110	23...	79,200	1,260
4....	1,420	6,740	14...	2,860	2,810	24...	48,900	1,420
5....	1,700	5,390	15...	3,030	2,480	25...	32,500	1,420
6....	2,290	5,910	16...	2,350	2,570	26...	28,900	1,400
7....	1,860	6,890	17...	1,960	2,550	27...	23,100	1,270
8....	1,370	6,970	18...	2,090	2,320	28...	19,200	1,040
9....	1,240	6,110	19...	1,880	2,000	29...	16,700	922
10...	1,830	5,280	20...	1,560	1,840	30...	15,800	906
						31...		870
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							10,800	3,790
RUNOFF,IN INCHES							8.25	2.99

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.71	1,510	6-23	2400	16.33	66,300				
6-21	2130	3.09	1,990								
6-21	2400	3.22	2,170					6-27	0030	10.20	25,400
				6-24	0030	16.22	65,500	6-27	2400	9.25	20,700
				6-24	2400	11.81	34,800				
6-22	0400	3.81	3,120								
6-22	1100	6.20	8,760					6-28	0030	9.24	20,600
6-22	1500	8.63	17,700	6-25	0030	11.76	34,500	6-28	2400	8.51	17,200
6-22	2400	17.21	73,400	6-25	2400	11.03	30,100				
								6-29	0030	8.50	17,200
6-23	0630	18.57	84,300	6-26	0530	11.08	30,400	6-29	2400	8.28	16,300
6-23	1400	18.18	81,100	6-26	2400	10.25	25,700				

(205) 01542720 WILSON RUN AT PENFIELD, PA.

(Crest-stage station)

LOCATION.--Lat 41°12'58", long 78°35'00", Clearfield County, at wooden bridge, 200 ft north of State Highway 153, 0.8 mile northwest of Penfield, and 0.7 mile above mouth.

DRAINAGE AREA.--8.34 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,260 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 403 cfs June 22 (gage height, 4.68 ft).
1962 to May 1972: Discharge, 592 cfs Mar. 10, 1964 (gage height, 4.39 ft).

(206) 01542810 WALDY RUN NEAR EMPORIUM, PA.

LOCATION.--Lat 41°34'44", long 78°17'34", Cameron County, on left bank 15 ft downstream from highway bridge at North Creek Chapel, 0.1 mile upstream from mouth, and 5.5 miles northwest of Emporium.

DRAINAGE AREA.--5.24 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,263.62 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current meter measurements below 80 cfs and by slope-area measurements at 270, 447, and 822 cfs.

MAXIMUMS.--June-July 1972: Discharge, 469 cfs 2215 hours June 22 (gage height, 5.86 ft).
1963 to May 1972: Discharge, 828 cfs Sept. 28, 1967 (gage height, 6.32 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	202	925	11...	121	610	21...	2,480	221
2....	161	746	12...	101	463	22...	13,000	179
3....	202	877	13...	104	407	23...	18,600	154
4....	212	1,170	14...	109	413	24...	5,490	176
5....	221	955	15...	101	372	25...	2,880	147
6....	161	1,180	16...	393	402	26...	2,210	147
7....	144	1,260	17...	300	335	27...	1,740	112
8....	124	1,050	18...	229	263	28...	1,280	101
9....	112	805	19...	202	221	29...	1,100	87
10...	148	771	20...	198	246	30...	1,170	77
						31...		72
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,780	482
RUNOFF,IN INCHES							7.31	2.04

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	0.54	206	6-22	2000	10.55	23,600				
6-21	0400	0.71	277	6-22	2330	12.20	32,000	6-25	0030	3.60	3,490
6-21	0530	0.88	361	6-22	2400	12.13	31,600	6-25	2400	2.91	2,480
6-21	0600	1.06	469								
6-21	0730	2.28	1,670								
6-21	1000	3.00	2,610	6-23	0130	11.75	29,400	6-26	0300	2.91	2,480
6-21	1230	3.27	3,000	6-23	0600	10.49	23,300	6-26	2400	2.52	1,970
6-21	1400	3.36	3,130	6-23	2400	6.46	9,170				
6-21	2400	4.48	4,980								
								6-27	0100	2.51	1,950
				6-24	0030	6.35	8,920	6-27	2400	2.15	1,510
6-22	0830	5.74	7,540	6-24	1530	4.16	4,410				
6-22	1600	8.00	13,400	6-24	2400	3.66	3,590				

(210) 01543500 SINNEMAHONING CREEK AT SINNEMAHONING, PA.

LOCATION.--Lat 41°19'02", long 78°06'12", Cameron County, on left bank 0.2 mile upstream from Grove Run, and 0.7 mile upstream from Penn Central Railroad bridge at Sinnemahoning.

DRAINAGE AREA.--685 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 769.36 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 31,000 cfs and by slope-area measurement at 59,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 60,800 cfs 0300 hours June 23 (gage height, 21.78 ft).
1936 to May 1972: Discharge, 61,200 cfs Mar. 18, 1936 (gage height, 21.94 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	557	2,510	11...	405	1,750	21...	2,930	720
2....	461	2,030	12...	315	1,360	22...	20,100	560
3....	479	1,920	13...	334	1,150	23...	44,000	470
4....	510	2,310	14...	449	1,060	24...	14,800	560
5....	623	1,890	15...	366	1,040	25...	8,070	470
6....	448	2,510	16...	1,190	1,190	26...	6,980	450
7....	389	2,650	17...	1,070	1,030	27...	5,030	400
8....	333	2,270	18...	790	812	28...	3,410	350
9....	301	2,090	19...	686	665	29...	2,810	300
10...	454	2,330	20...	627	674	30...	3,050	270
						31...		250
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							4,070	1,230
RUNOFF,IN INCHES							6.62	2.07

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.84	663	6-23	0300	21.78	60,800				
6-21	0900	3.19	1,040	6-23	0800	20.00	53,400	6-26	0730	6.91	7,680
6-21	1000	4.24	2,550	6-23	2400	11.97	23,300	6-26	1400	6.67	7,030
6-21	1500	5.00	3,810					6-26	2400	6.28	6,020
6-21	2400	6.11	5,920								
				6-24	0030	11.79	22,700				
				6-24	1600	8.47	12,300	6-27	0030	6.27	6,000
6-22	0700	7.15	8,480	6-24	2400	7.78	10,200	6-27	2400	5.42	4,100
6-22	1430	10.38	18,000								
6-22	2030	16.96	41,200								
6-22	2400	20.70	56,200	6-25	0030	7.78	10,200	6-28	0030	5.40	4,060
				6-25	2400	6.60	6,840	6-28	2400	4.73	2,830

(211) 01543900 FIRST FORK SINNEMAHONING CREEK RESERVOIR NEAR SINNEMAHONING, PA.

LOCATION.--Lat 41°24'25", long 78°01'10", Cameron County, at control tower of George B. Stevenson Dam on First Fork Sinnemahoning Creek, 8 miles northeast of Sinnemahoning, and 8 miles upstream from mouth.

DRAINAGE AREA.--243 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (levels by Pennsylvania Department of Environmental Resources).

CONTENTS RECORD.--Contents computed from capacity curve furnished by Pennsylvania Department of Environmental Resources.

MAXIMUMS.--June-July 1972: Contents, 62,030 acre-ft 1130 hours June 26 (elevation, 1,015.87 ft). 1956 to May 1972: Contents, 39,250 acre-ft Mar. 11, 1964 (elevation, 994.50 ft).

REMARKS.--Reservoir is formed by an earthfill dam. Storage began Jan. 31, 1956. Capacity, 75,800 acre-ft between elevations, 890.00 ft (sill of outlet gates) and 1,026.00 ft (crest of spillway). No dead storage. Ordinary minimum (conservation) pool elevation, 920.00 ft (capacity, 2,000 acre-ft). Reservoir is used for flood control and recreation. Figures given herein represent total contents.

COOPERATION.--Records furnished by Pennsylvania Department of Environmental Resources

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	920.33	2,040	946.45	8,830	16	920.37	2,040	917.02	1,660
2	920.74	2,090	919.75	1,970	17	920.46	2,060	915.81	1,540
3	920.55	2,070	921.09	2,130	18	920.77	2,090	914.55	1,420
4	920.46	2,060	920.53	2,060	19	920.64	2,080	914.30	1,390
5	920.57	2,070	919.40	1,930	20	920.41	2,050	916.10	1,570
6	920.61	2,070	919.72	1,970	21	920.38	2,050	913.97	1,360
7	920.50	2,060	921.18	2,140	22	961.60	16,160	913.57	1,320
8	920.70	2,080	920.20	2,020	23	1,003.85	48,050	913.94	1,350
9	920.94	2,110	920.19	2,020	24	1,012.40	57,680	913.00	1,260
10	920.96	2,120	917.75	1,740	25	1,015.85	62,000	912.69	1,230
11	920.48	2,060	914.26	1,390	26	1,014.28	59,960	912.59	1,220
12	920.46	2,060	913.79	1,340	27	1,007.65	52,110	912.76	1,240
13	920.60	2,070	915.20	1,480	28	997.45	41,900	913.44	1,300
14	920.62	2,070	915.73	1,530	29	983.12	30,080	914.28	1,390
15	920.58	2,070	916.60	1,620	30	966.70	19,220	914.79	1,440
					31			915.66	1,530
Change in contents.....							+17,150		-17,690

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second
June 21					June 26				
0030	0.39	178	3	0.00002	1130	2.73	2,500	515	0.04
0800	.39	178	3	.00002	1430	3.01	2,920	120	.01
0815	.49	226	3	.00002	1630	3.15	3,130	115	.01
0830	.72	363	3	.00003	2045	3.28	3,360	200	.02
1245	.74	376	12	.0001	2200	3.53	3,860	240	.03
1345	.86	461	13	.0002	2330	3.53	3,860	160	.02
1530	.86	461	13	.0002	2400	3.52	3,840	155	.02
1545	.95	531	14	.0002					
1600	1.16	709	15	.0003	June 27				
1845	1.17	718	15	.0003	0915	3.66	4,150	170	.02
1930	1.03	596	16	.0003	0945	3.99	4,980	250	.04
2300	1.03	596	16	.0003	1200	4.18	5,450	560	.10
2400	1.17	718	18	.0004	1545	4.22	5,560	470	.08
June 22					1630	4.54	6,520	235	.05
0645	1.23	774	18	.0004	2400	4.48	6,340	150	.03
0715	1.98	1,550	18	.0009	June 28				
1300	2.17	1,760	230	.01	1000	4.25	5,650	98	.02
1330	.53	248	225	.002	1015	2.04	1,610	98	.005
1345	.34	157	220	.001	1030	1.42	960	98	.003
1500	.28	133	200	.0008	1045	1.39	930	98	.003
2000	.43	197	180	.001	1100	.81	424	98	.001
2400	.37	169	170	.0009	1115	2.56	2,260	98	.007
June 23					1130	2.63	2,360	98	.007
0045	.36	165	165	.0009	1145	3.15	3,130	98	.01
1245	.28	133	158	.0007	1230	3.39	3,580	100	.01
2400	.20	106	145	.0005	1300	4.26	5,680	105	.02
June 24					1345	4.75	7,150	108	.02
1900	.14	90	235	.0007	1415	4.74	7,120	115	.03
1915	.86	461	245	.004	2400	4.67	6,910	155	.03
1930	1.05	613	250	.005	June 29				
1945	.52	242	255	.002	0015	4.67	6,910	155	.03
2000	.34	157	265	.001	2400	4.47	6,310	29	.006
2100	.16	95	265	.0008	June 30				
2400	.13	87	255	.0007	0030	4.47	6,310	29	.006
June 25					2400	4.21	5,530	30	.005
1615	.11	82	195	.0005	July 1				
1700	1.46	1,000	200	.006	0100	4.21	5,530	30	.005
2130	1.47	1,010	230	.007	2400	3.84	4,600	35	.005
2145	1.92	1,480	230	.01					
2230	2.07	1,650	280	.01	July 2				
2300	2.39	2,040	400	.03	0030	3.83	4,580	35	.005
2400	2.39	2,040	340	.02	2145	2.93	2,800	34	.003
June 26					2215	1.33	870	34	.0009
0945	2.37	2,010	165	.01	2230	.79	410	34	.0004
1015	1.92	1,480	165	.008	2245	.73	369	34	.0004
1115	2.05	1,630	420	.02	2330	1.01	579	34	.0006
					2400	1.01	579	34	.0006

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Percent in size class indicated, in millimeters Sand (greater than .062)	Silt and clay (less than .062)
June 22	0730	-	1,590	66	18	0.0009	5	95
June 23	0900	-	144	62	162	.0007	0	100
June 24	0900	-	92	72	142	.0004	1	99
June 25	0900	-	84	54	218	.0006	0	100
June 26	0745	-	2,010	50	172	.01	0	100
June 26	1200	-	2,520	50	499	.04	47	53
June 26	1230	-	2,680	52	170	.01	1	99
June 26	1530	-	2,900	52	119	.01	1	99
June 27	0730	-	3,800	51	119	.01	2	98
June 27	1300	-	5,450	50	506	.09	15	85
June 28	0730	-	6,160	50	107	.02	2	98
June 29	1230	-	6,610	52	50	.01	3	97
June 29	1500	-	6,550	54	32	.007	2	98
June 30	0730	-	6,100	54	28	.005	0	100
June 30	1230	-	5,920	54	29	.005	5	95
June 30	1530	-	5,860	55	34	.006	8	92
July 4	0730	-	821	-	31	.0008	10	90

(212) 01544000 FIRST FORK SINNEMAHONING CREEK NEAR SINNEMAHONING, PA.

LOCATION.--Lat 41°24'06", long 78°01'28". Cameron County, on right bank 350 ft downstream from Woodrock Run, 1,500 ft upstream from Roaring Run, 0.75 mile downstream from George B. Stevenson Dam, and 7.5 miles northeast of Sinnemahoning.

DRAINAGE AREA.--245 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 878.71 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,000 cfs. Slope-area measurement at 80,000 cfs for 1942 flood.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Comcentration graph well defined.

MAXIMUMS.--Given in the following table:

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 22	-	-	126	208
June 27	-	-	262	3,860
June 28, 1345 hours	7,150	4.75	-	-
1954 to May 1972:				
Mar. 1, 1956	10,200	6.60	-	-
1942 to 1954:				
July 18, 1942	80,000	-	-	-

REMARKS.--Flow regulated since January 31, 1956, by First Fork Sinnemahoning Creek Reservoir 0.75 mile upstream (see station 01543900).

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
	Mean discharge (cfs)	Suspended sediment: Mean concentration (mg/l)	Suspended sediment: Tons per day	Mean discharge (cfs)	Suspended sediment: Mean concentration (mg/l)	Suspended sediment: Tons per day
1	211	3	1.7	5,100	29	399
2	174	2	.94	3,580	36	348
3	231	4	2.5	612	34	56
4	211	3	1.7	821	31	69
5	187	2	1.0	812	30	66
6	178	2	.96	736	24	48
7	174	2	.94	700	19	36
8	148	3	1.2	821	13	29
9	123	2	.66	727	10	20
10	202	3	1.6	900	51	124
11	192	3	1.6	764	32	66
12	127	4	1.4	523	28	40
13	120	3	.97	390	25	26
14	123	2	.66	461	21	26
15	126	2	.68	554	17	25
16	237	5	3.2	693	15	28
17	192	5	2.6	709	14	27
18	153	4	1.7	570	12	18
19	178	4	1.9	410	10	11
20	178	3	1.4	538	15	22
21	417	15	17	578	15	23
22	736	126	208	390	16	17
23	137	158	58	287	17	13
24	106	177	51	324	18	16
25	461	253	380	248	20	13
26	2,640	216	1,500	206	22	12
27	5,120	262	3,860	161	19	8.3
28	6,130	123	2,130	120	19	6.2
29	6,610	77	1,390	90	17	4.1
30	5,950	30	482	90	16	3.9
31	-	-	-	71	15	2.9
Total	-	-	10,105.31	-	-	1,603.4
Mean	1,059	-	-	741	-	-
Ac-ft	-	-	6.63	-	-	1.05
*Mean	1,347	-	-	*453	-	-
*Inches	6.13	-	-	*2.13	-	-
*Ac-ft	80,150	-	-	*27,850	-	-

* Adjusted for change in contents in First Fork Sinnemahoning Creek Reservoir.

(213) 01544450 GERMANIA BRANCH AT GERMANIA, PA.

(Crest-stage station)

LOCATION.--Lat 41°38'49", long 77°39'22", Potter County, at concrete bridge on private road, 50 ft below Baders Hollow, 0.3 mile east of Germania and 4.6 miles above mouth.

DRAINAGE AREA.--2.40 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,900 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 210 cfs June 23 (gage height, 4.55 ft).
1964 to May 1972: Discharge, 141 cfs Mar. 5, 1964 (gage height, 2.63 ft).

(214) 01544500 KETTLE CREEK AT CROSS FORK, PA.

LOCATION.--Lat 41°28'33", long 77°49'34", Potter County, on right bank just upstream from abutment of former highway bridge, 0.2 mile downstream from Potter-Clinton County line, and 0.7 mile southwest of Cross Fork.

DRAINAGE AREA.--136 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 2200 hours June 22 to 0800 hours June 23, for which graph was constructed on basis of high-water mark. Datum of gage is 1,027.12 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,200 cfs, by slope-area measurement at 10,900 cfs, and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 14,300 cfs about 0500 hours June 23 (gage height, 11.76 ft, from high-water mark in gage well).
1941 to May 1972: Discharge, 12,400 cfs Nov. 25, 1959 (gage height, 11.04 ft).
Flood of Mar. 18, 1936 reached a stage of about 14.0 ft, from information by local residents (discharge, about 20,000 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	160	438	11...	114	324	21...	155	263
2...	149	404	12...	105	292	22...	3,010	210
3...	156	385	13...	105	254	23...	10,500	174
4...	156	343	14...	97	244	24...	3,000	161
5...	143	292	15...	90	269	25...	1,450	139
6...	128	317	16...	147	726	26...	1,000	118
7...	117	337	17...	134	830	27...	752	102
8...	107	350	18...	128	614	28...	568	93
9...	115	327	19...	121	449	29...	461	83
10...	140	350	20...	110	337	30...	486	76
						31...		72
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							797	302
RUNOFF, IN INCHES							6.54	2.56

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	0.92	103	6-22	2400	11.1	12,700				
6-21	1130	1.09	134					6-25	0030	4.44	1,870
6-21	1600	1.18	154					6-25	2400	3.52	1,200
6-21	2400	1.58	260	6-23	0500	11.76	14,300				
				6-23	1100	10.74	11,800				
				6-23	1600	9.22	8,460	6-26	0030	3.50	1,190
6-22	0330	1.86	354	6-23	2400	7.27	5,140	6-26	2400	2.94	863
6-22	0900	2.63	691								
6-22	1330	3.90	1,460								
6-22	1530	4.64	2,050	6-24	0030	7.16	4,980	6-27	0030	2.94	863
6-22	1800	6.70	4,350	6-24	0830	5.84	3,280	6-27	2400	2.54	657
6-22	2000	9.15	8,320	6-24	2400	4.46	1,890				

(215) 01544800 KETTLE CREEK LAKE NEAR WESTPORT, PA.

LOCATION.--Lat 41°21'37", long 77°55'27", Clinton County, at control tower of dam on Kettle Creek, 1.1 miles downstream from Sugar Camp Run, and 8.5 miles upstream from mouth and Westport.

DRAINAGE AREA.--226 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity table furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 20,000 cfs 0900 hours June 23; contents, 51,700 acre-ft 0400 hours June 25 (elevation, 919.13 ft).
1962 to May 1972: Contents, 45,350 acre-ft Apr. 13, 1970 (elevation, 913.50 ft).

REMARKS.--Reservoir formed by an earthfill embankment, rock faced, with ungated concrete spillway at elevation, 937.0 ft. Storage began Feb. 7, 1962; water in reservoir first reached conservation pool elevation in March 1962. Total capacity at elevation, 937.0 ft is 75,000 acre-ft. No dead storage. Ordinary minimum (conservation) pool elevation, 840.0 ft (capacity, 1,590 acre-ft). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Storage is regulated by three gates and low-flow bypass system.

COOPERATION.--Records furnished by Corps of Engineers, Baltimore.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	841.16	1,770	844.60	2,390	16	841.44	1,810	841.80	1,870
2	841.30	1,790	840.94	1,730	17	841.33	1,790	841.44	1,810
3	841.37	1,800	841.29	1,790	18	841.24	1,780	840.90	1,720
4	841.50	1,820	841.21	1,770	19	841.13	1,760	840.77	1,710
5	841.40	1,800	840.80	1,710	20	841.04	1,750	840.98	1,740
6	841.10	1,760	840.84	1,720	21	841.31	1,790	841.01	1,740
7	841.01	1,740	840.90	1,720	22	869.55	10,900	841.00	1,740
8	840.89	1,720	840.92	1,730	23	911.25	43,050	841.20	1,770
9	841.00	1,740	840.96	1,730	24	919.08	52,460	841.20	1,770
10	841.09	1,750	841.40	1,800	25	915.55	47,600	841.01	1,740
11	840.95	1,730	841.12	1,760	26	909.15	40,950	840.93	1,730
12	840.88	1,720	840.80	1,710	27	901.20	33,480	840.78	1,710
13	840.88	1,720	840.70	1,700	28	890.35	24,680	840.87	1,720
14	840.75	1,700	840.71	1,700	29	878.00	15,850	840.84	1,720
15	841.11	1,760	841.00	1,740	30	864.05	8,270	840.94	1,730
					31			840.99	1,740
Change in contents							+6,500		-6,530

(216) 01545000 KETTLE CREEK NEAR WESTPORT, PA.

LOCATION.--Lat 41°19'12", long 77°52'27", Clinton County, on left bank 0.4 mile upstream from Short Bend Run, 3.5 miles upstream from mouth and Westport, and 5 miles downstream from Kettle Creek Lake.

DRAINAGE AREA.--233 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage-recorder graph. Datum of gage is 728.24 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 5,750 cfs 1045 hours June 28 (gage height, 8.69 ft).
1955 to May 1972: Discharge, 7,970 cfs Mar. 8, 1956 (gage height, 10.48 ft); maximum gage height, 13.31 ft Jan. 22, 1959 (ice jam).

REMARKS.--Flow regulated since February 1962 by Kettle Creek Lake 5 miles upstream. (see station 01544800).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	302	4,180	11...	220	694	21...	223	451
2...	268	1,360	12...	192	623	22...	1,100	369
3...	322	694	13...	189	521	23...	552	295
4...	347	694	14...	180	466	24...	872	287
5...	356	640	15...	139	495	25...	4,590	265
6...	331	628	16...	207	1,160	26...	5,220	223
7...	276	623	17...	223	1,330	27...	5,260	195
8...	240	628	18...	214	1,030	28...	5,510	158
9...	201	623	19...	201	730	29...	5,330	144
10...	244	689	20...	186	563	30...	4,860	125
						31...		118
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,280	677
RUNOFF,IN INCHES							6.12	3.35

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.01	2,940								
6-21	1600	2.21	3,290								
6-21	1700	2.40	3,660	6-25	0200	12.98	49,400	6-29	0100	10.37	33,800
6-21	2000	3.60	6,430	6-25	2400	12.28	44,700	6-29	2400	9.99	31,900
6-21	2400	4.18	7,940								
				6-26	1000	12.47	45,800	6-30	0300	10.00	31,900
6-22	1000	6.16	14,600	6-26	2400	11.93	42,600	6-30	2400	9.41	29,000
6-22	1500	9.31	28,500								
6-22	2400	21.50	122,000								
				6-27	0100	11.90	42,400	7-01	0100	9.39	28,900
				6-27	2400	11.17	38,000	7-01	2400	8.55	24,800
6-23	0400	25.09	163,000								
6-23	0800	26.56	181,000								
6-23	1400	24.85	160,000	6-28	0100	11.14	37,800	7-02	0100	8.49	24,500
6-23	1800	22.0	128,000	6-28	1900	10.33	33,600	7-02	2400	7.06	18,200
6-23	2400	20.20	110,000	6-28	2400	10.41	34,000				
6-24	1600	15.1	64,300								
6-24	2400	13.50	53,000								

(218) 01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA.
(Hydrologic bench-mark station)

LOCATION.--Lat 41°23'22", long 77°41'28", Clinton County, on left bank, 0.3 mile downstream from Laurelly Fork, 1.5 miles upstream from Left Branch Young Womans Creek, 3.7 miles upstream from mouth, and 5 miles northeast of Renovo.

DRAINAGE AREA.--46.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1815 hours June 22 to 1145 hours June 23 and water-stage-recorder graph except 2300 hours June 22 to 0330 hours June 23, for which graph reconstructed from adjoining record. Altitude of gage is 780 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs and by slope-area measurement at 5,370 cfs. Prior to 1972, stage-discharge relation extended above 420 cfs by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 5,370 cfs 0500 hours June 23 (gage height 7.98 ft).
1965 to May 1972: Discharge, 844 cfs Apr. 10, 1970 (gage height, 3.33 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	50	208	11...	40	199	21...	89	104
2...	54	182	12...	38	170	22...	1,360	84
3...	52	182	13...	38	154	23...	3,310	74
4...	46	158	14...	35	140	24...	1,090	67
5...	41	147	15...	40	147	25...	647	59
6...	40	151	16...	107	309	26...	468	50
7...	37	133	17...	92	268	27...	352	43
8...	34	144	18...	84	203	28...	268	40
9...	34	154	19...	77	158	29...	221	35
10...	50	212	20...	64	130	30...	244	34
						31...		31
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							303	135
RUNOFF,IN INCHES							7.33	3.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.12	67	6-23	0100	7.00	4,040	6-25	0015	3.54	801
6-21	1245	2.16	77	6-23	0400	7.80	5,120	6-25	2400	3.14	542
6-21	2400	2.39	147	6-23	0500	7.98	5,370				
				6-23	1000	6.87	3,870				
				6-23	1930	4.93	1,840	6-26	0045	3.14	542
6-22	0545	2.60	239	6-23	2400	4.58	1,550	6-26	2400	2.91	403
6-22	1100	3.09	511								
6-22	1500	3.84	1,010								
6-22	1615	4.49	1,480	6-24	0015	4.54	1,520	6-27	0015	2.91	403
6-22	1800	5.53	2,390	6-24	2045	3.62	854	6-27	2400	2.73	304
6-22	2000	6.80	3,790	6-24	2400	3.55	808				
6-22	2100	6.96	3,990								
6-22	2400	6.80	3,790								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.34	183	6-24	1600	2.98	428				
6-21	1700	2.45	217	6-24	1615	4.32	1,260	6-28	1045	8.69	5,750
6-21	1830	2.67	295	6-24	1815	4.58	1,470	6-28	2400	8.51	5,530
6-21	2400	2.75	327	6-24	1845	5.20	2,030				
				6-24	1930	5.47	2,250				
				6-24	2030	6.02	2,840	6-29	0015	8.51	5,530
6-22	0030	3.23	552	6-24	2115	6.02	2,840	6-29	2400	8.15	5,130
6-22	0845	3.59	754	6-24	2400	6.01	2,830				
6-22	0915	4.14	1,120								
6-22	0945	5.30	2,120					6-30	0015	8.15	5,130
6-22	1415	5.60	2,420	6-25	0200	6.06	2,880	6-30	2400	7.64	4,560
6-22	1500	4.19	1,150	6-25	0300	6.92	3,770				
6-22	1530	3.55	730	6-25	0745	7.21	4,050				
6-22	1615	3.34	612	6-25	1215	8.00	4,960	7-01	0030	7.64	4,560
6-22	2030	3.99	1,010	6-25	1315	8.32	5,310	7-01	2400	6.82	3,660
6-22	2400	3.95	985	6-25	2400	8.24	5,220				
								7-02	0015	6.80	3,640
6-23	0015	3.94	978	6-26	0100	8.32	5,310	7-02	0330	6.50	3,320
6-23	0700	3.54	724	6-26	2400	8.17	5,150	7-02	0430	4.32	1,260
6-23	1615	2.82	356					7-02	0500	3.94	978
6-23	2400	2.49	230					7-02	1615	3.75	853
				6-27	1715	8.46	5,470	7-02	2400	3.66	796
				6-27	2400	8.39	5,360				
6-24	1545	2.18	139								

(217) 01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.

LOCATION.--Lat 41°19'28", long 77°45'03", Clinton County, on left bank at upstream side of Eighth Street Bridge at Renovo, 1 mile upstream from Paddy Run.

DRAINAGE AREA.--2,975 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals except June 18-19 and 1130 hours June 22 to 1200 hours June 25, for which graphs were constructed on basis of 28 gage readings furnished by the River Forecasting Service.

DISCHARGE RECORD.--Stage-discharge record defined by current-meter measurements below 60,000 cfs and by slope-area measurements at 181,000 and 236,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 181,000 cfs 0800 hours June 23 (gage height, 26.56 ft).
1889 to May 1972: Discharge, 236,000 cfs Mar. 18, 1936 (gage height, 29.39 ft, from floodmark in gage shelter).

REMARKS.--Flow regulated by Curwensville Lake, Glendale Lake, First Fork Sinnemahoning Creek Reservoir, and Kettle Creek Lake (see stations 01541180, 01541340, 01543900, and 01544800, respectively), total capacity, 246,500 acre-ft.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,400	27,000	11...	3,230	9,890	21...	3,980	4,390
2....	3,130	20,800	12...	2,620	8,200	22...	33,500	3,930
3....	2,900	14,200	13...	2,480	6,990	23...	150,000	3,310
4....	3,020	11,000	14...	3,160	6,260	24...	75,700	3,010
5....	3,290	9,820	15...	4,430	5,860	25...	47,000	3,160
6....	3,600	10,100	16...	4,230	6,630	26...	51,500	3,070
7....	3,620	11,200	17...	4,300	7,230	27...	39,800	2,870
8....	2,720	11,500	18...	3,620	6,440	28...	35,200	2,610
9....	2,350	10,500	19...	3,500	5,400	29...	32,200	2,260
10...	2,670	11,100	20...	3,130	4,750	30...	30,900	1,960
						31...		1,810
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							18,800	7,650
RUNOFF,IN INCHES.....							7.07	2.97

(219) 01546500 SPRING CREEK NEAR AXEMANN, PA.

LOCATION.--Lat 40°53'23", long 77°47'40", Centre County, on right bank at upstream side of highway bridge, 1.6 miles west of Axemann, 1.8 miles southwest of Bellefonte, and 2.5 miles upstream from Logan Branch.

DRAINAGE AREA.--87.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except June 17 to 1130 hours June 21 and 1230 hours June 25 to July 12. Datum of gage is 788.81 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurement below 1,400 cfs and by contracted-opening measurement at 5,410 cfs. Record for periods of missing gage-height record based on correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 5,410 cfs 0245 hours June 23 (gage height, 7.47 ft, in gage well, 8.75 ft outside, from flood marks).
1941 to May 1972: Discharge, 1,670 cfs Nov. 25, 1950 (gage height, 5.44 ft).
Flood of March 1936 reached a stage of 8.6 ft, from information by local residents.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	122	390	11...	79	230	21...	110	155
2....	105	340	12...	77	200	22...	931	148
3....	101	310	13...	94	190	23...	2,910	144
4....	96	290	14...	83	178	24...	1,480	146
5....	94	340	15...	79	176	25...	1,100	141
6....	89	380	16...	103	216	26...	770	137
7....	87	360	17...	92	181	27...	590	133
8....	83	330	18...	88	166	28...	490	127
9....	83	300	19...	86	171	29...	450	124
10...	87	280	20...	84	159	30...	440	122
						31...		120
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							369	216
RUNOFF,IN INCHES.....							4.73	2.85

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.5	70	6-22	2230	6.53	3,650				
6-21	1200	2.59	87	6-22	2300	5.95	2,640	6-24	0030	5.41	1,930
6-21	1500	2.65	101	6-22	2400	6.26	3,170	6-24	1400	4.90	1,380
6-21	1630	2.80	138					6-24	2000	4.76	1,250
6-21	1730	2.98	190					6-24	2400	4.80	1,280
6-21	1800	2.99	193	6-23	0130	6.21	3,090				
6-21	2300	2.92	172	6-23	0245	7.47	5,410				
6-21	2400	2.96	184	6-23	0300	7.24	4,980	6-25	1200	4.65	1,150
				6-23	0330	6.93	4,390	6-25	2400	-	940
				6-23	0430	7.12	4,740				
6-22	0330	3.23	273	6-23	0530	6.50	3,600				
6-22	1300	3.91	561	6-23	1600	5.79	2,430	6-26	2400	-	690
6-22	1800	4.78	1,100	6-23	2400	5.44	1,970				
6-22	2030	5.46	1,880								

(220) 01547100 SPRING CREEK AT MILESBURG, PA.

LOCATION.--Lat 40°55'54", long 77°47'13", Centre County, on left bank 60 ft downstream from privately-owned bridge, 400 ft west of State Route 144, 0.8 mile upstream from mouth and Milesburg.

DRAINAGE AREA.--142 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0345 hours June 22 to 1245 hours June 25 and July 2-26. Datum of gage is 696.42 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 900 cfs and by computation of flow over dam at 8,170 cfs. Record for periods of missing gage-height record based on correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 8,170 cfs about 0330 hours June 23 (gage height, 13.20 ft, from peak-stage indicator).
May 1967 to May 1972: Discharge, 1,360 cfs Apr. 2, 1970 (gage height, 7.14 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	273	640	11...	191	490	21...	229	330
2....	236	590	12...	189	450	22...	2,300	320
3....	228	570	13...	210	430	23...	6,000	310
4....	220	560	14...	196	400	24...	2,800	310
5....	215	650	15...	189	380	25...	1,650	300
6....	211	720	16...	214	460	26...	1,300	290
7....	207	700	17...	199	400	27...	1,030	282
8....	200	620	18...	190	360	28...	860	274
9....	203	580	19...	187	380	29...	810	264
10...	205	550	20...	183	350	30...	740	256
						31...		250
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							729	434
RUNOFF,IN INCHES							5.73	3.53

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.01	192	6-23	0330	13.20	8,170				
6-21	1230	3.11	209	6-23	1600	-	5,000	6-25	2400	7.17	1,460
6-21	1845	3.38	258	6-23	2400	-	3,900				
6-21	2045	3.74	334								
6-21	2130	3.71	327					6-26	2400	6.37	1,140
6-21	2400	3.72	330	6-24	1600	-	2,500				
				6-24	2400	-	2,100				
								6-27	2400	5.76	931
6-22	0345	4.29	475								
6-22	1200	-	1,500	6-25	1300	7.52	1,600				
6-22	2400	12.8	7,350								

(221) 01547200 BALD EAGLE CREEK BELOW SPRING CREEK AT MILESBURG, PA.

(Formerly published as North Bald Eagle Creek below Spring Creek at Milesburg)

LOCATION.--Lat 40°56'35", long 77°47'12", Centre County on right bank 130 ft downstream from bridge on U. S. Highway 220 at Milesburg, 250 ft downstream from Spring Creek.

DRAINAGE AREA.--265 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0945 to 2015 hours June 22, 2345 hours June 22 to 0915 hours June 23, 0445 hours June 24 to July 13, and July 27-31. Graph for missing record of June 22-23 constructed on basis of adjoining record and high-water marks. Datum of gage is 682.49 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,000 cfs and extended above by logarithmic plottings. Record for periods of missing gage-height record from May 24 to July 31 based on correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 21,300 cfs about 0300 hours June 23 (gage height, 11.67 ft, from high-water mark in gage well).
1956 to May 1972: Discharge, 8,950 cfs Mar. 10, 1964 (gage height, 6.60 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	684	1,500	11...	257	850	21...	746	645
2....	463	1,300	12...	245	740	22...	9,600	601
3....	416	1,200	13...	299	740	23...	15,000	560
4....	367	1,100	14...	316	620	24...	6,000	535
5....	339	1,300	15...	282	612	25...	3,400	521
6....	312	1,500	16...	518	707	26...	2,300	511
7....	295	1,300	17...	382	701	27...	1,600	500
8....	273	1,100	18...	325	667	28...	1,600	490
9....	273	1,000	19...	307	623	29...	1,700	480
10...	295	950	20...	282	673	30...	1,800	460
						31...		440
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,690	804
RUNOFF,IN INCHES							7.11	3.50

(223) 01547500 BALD EAGLE CREEK AT BLANCHARD, PA.

(Formerly published as North Bald Eagle Creek at Blanchard)

LOCATION.--Lat 41°03'06", long 77°36'17", Centre County, on left bank, 0.4 mile downstream from Foster Joseph Sayers Lake, 0.7 mile upstream from Marsh Creek, and 0.9 mile south of Blanchard.

DRAINAGE AREA.--339 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals and water-stage-recorder graph. Datum of gage is 579.79 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,100 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 4,890 cfs 1330 hours June 28 (gage height, 9.37 ft).
1955 to May 1972: Discharge, 10,100 cfs Mar. 10, 1964 (gage height, 11.59 ft).

REMARKS.--Flow completely regulated since 1969 by Foster Joseph Sayers Lake 0.4 mile upstream (see station 01547480).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	966	4,530	11...	312	2,170	21...	635	635
2....	714	4,410	12...	312	1,090	22...	1,000	577
3....	468	4,290	13...	312	735	23...	200	544
4....	468	4,160	14...	357	661	24...	280	493
5....	372	4,050	15...	341	674	25...	2,910	444
6....	326	3,950	16...	583	735	26...	3,790	394
7....	322	3,130	17...	505	812	27...	4,220	367
8....	317	2,240	18...	444	714	28...	4,640	357
9....	312	2,200	19...	410	531	29...	4,730	336
10...	312	2,500	20...	312	635	30...	4,640	322
						31...		298
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,180	1,580
RUNOFF,IN INCHES							3.90	5.37

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.72	315								
6-21	0900	3.72	315								
6-21	1000	3.89	400	6-23	0130	7.76	200	6-27	1000	8.78	4,260
6-21	1130	3.89	400	6-23	0700	7.75	200	6-27	1800	8.95	4,420
6-21	1400	4.32	648	6-23	2400	4.51	200	6-27	2400	8.92	4,390
6-21	1500	4.32	648								
6-21	1600	4.53	791								
6-21	1930	4.69	903	6-24	0630	3.49	200	6-28	1330	9.37	4,890
6-21	2400	5.49	1,590	6-24	1730	3.42	189	6-28	2400	9.27	4,760
				6-24	1900	3.55	240				
				6-24	2100	4.08	504				
6-22	0700	6.21	2,230	6-24	2400	4.94	1,100	6-29	0130	9.27	4,760
6-22	1000	6.17	2,200					6-29	2400	9.22	4,700
6-22	1100	5.70	1,780								
6-22	1300	5.78	1,850	6-25	0630	6.20	2,220				
6-22	1330	4.87	1,050	6-25	0800	7.55	3,300	6-30	0200	9.22	4,700
6-22	1400	4.75	950	6-25	2200	7.87	3,560	6-30	2400	9.12	4,590
6-22	1430	4.00	460	6-25	2400	8.05	3,700				
6-22	1500	3.95	430								
6-22	2030	7.03	200					7-01	0030	9.13	4,600
6-22	2400	7.74	200	6-26	1200	8.10	3,730	7-01	2400	8.99	4,460
				6-26	2330	8.63	4,130				
				6-26	2400	8.61	4,120				

(224) 01547700 MARSH CREEK AT BLANCHARD, PA.

LOCATION.--Lat 41°03'34", long 77°36'22", Centre County, on right bank 20 ft downstream from highway bridge, 0.5 mile southwest of Blanchard, 0.6 mile downstream from bridge on U. S. Highway 220, and 0.6 mile upstream from mouth.

DRAINAGE AREA.--44.1 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30 minute intervals except 1545 hours June 22 to 1400 hours June 23 and 2100 hours June 24 to July 17, for which graph constructed on basis of high-water mark and correlation with records for nearby stations. Datum of gage is 586.16 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs and by slope-area measurement at 4,870 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,870 cfs about 0230 hours June 23 (gage height, 6.98 ft, from high-water mark in gage well, 7.96 ft outside, from floodmarks).
1956 to May 1972: Discharge, 3,300 cfs Feb. 26, 1961 (gage height, 6.63 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	-0.04	299	6-22	0330	3.68	3,870	6-24	0430	6.25	7,800
6-21	1030	0.07	348	6-22	0930	5.65	7,100	6-24	2400	-	4,400
6-21	1215	0.20	411	6-22	2030	9.92	16,600				
6-21	1330	0.33	479	6-22	2400	11.25	20,200				
6-21	1515	0.70	704					6-25	2400	-	2,800
6-21	1800	1.35	1,220								
6-21	2015	1.66	1,510	6-23	0300	11.67	21,300				
6-21	2300	2.02	1,870	6-23	0930	9.76	16,200	6-26	2400	-	1,900
6-21	2400	2.33	2,200	6-23	1515	8.70	13,400				
				6-23	2400	7.09	9,590				
								6-27	2400	-	1,500
6-22	0030	2.79	2,730								

(222) 01547480 FOSTER JOSEPH SAYERS LAKE NEAR BLANCHARD, PA.

LOCATION.--Lat 41°02'53", long 77°36'35", Centre County, at Foster Joseph Sayers Dam, on Bald Eagle Creek, 1 mile upstream from Marsh Creek, and 1.2 miles south of Blanchard.

DRAINAGE AREA.--339 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity curve furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 27,300 cfs 0300 hours June 23; contents, 103,950 acre-ft 1200 hours June 25 (elevation, 658.41 ft).
March 1971 to May 1972: Contents, 46,100 acre-ft Apr. 21, 1972 (elevation, 638.68).

REMARKS.--Reservoir formed by an earthfill dam with ungated concrete ogee weir at elevation 657.00 ft, with abutting concrete gravity walls and partially paved exit channel. Storage began March 1971. Capacity at elevation 657.00 ft is 99,100 acre-ft. Dead storage is 25 acre-ft. Ordinary minimum (conservation) pool elevation, 610.00 ft (capacity, 6,300 acre-ft). Reservoir used for flood control and recreation. Figures given herein represent total contents. Regulation is accomplished by two gates. Records furnished by Corps of Engineers, Baltimore.

Elevation, in feet, and contents, in acre-feet, at 2400 hours 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	629.87	28,580	648.55	72,050	16	630.09	28,960	630.28	29,300
2	629.86	28,560	646.20	65,080	17	630.02	28,840	630.06	28,910
3	629.88	28,600	643.70	58,220	18	629.98	28,760	629.93	28,680
4	629.89	28,610	640.80	51,020	19	629.92	28,660	630.08	28,940
5	629.93	28,680	638.25	45,080	20	629.94	28,700	630.17	29,110
6	629.98	28,770	635.65	39,500	21	630.23	29,210	630.05	28,890
7	630.00	28,800	633.67	35,570	22	639.94	49,010	629.97	28,750
8	630.00	28,800	632.60	33,440	23	654.18	89,690	629.90	28,630
9	630.04	28,870	631.92	32,260	24	658.10	102,850	629.86	28,560
10	630.05	28,890	631.27	31,090	25	658.27	103,440	629.87	28,580
11	630.01	28,820	630.14	29,010	26	657.57	101,040	629.90	28,630
12	629.97	28,750	629.89	28,610	27	656.42	97,130	629.93	28,680
13	630.01	28,820	629.97	28,750	28	654.62	91,150	629.95	28,720
14	630.02	28,840	629.99	28,780	29	652.63	84,720	629.94	28,700
15	630.07	28,930	630.19	29,140	30	650.78	78,920	629.94	28,700
					31			630.00	28,800
Change in contents							+49,710		-50,120

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	90	260	11...	29	160	21...	54	206
2...	82	200	12...	26	130	22...	1,900	173
3...	75	160	13...	28	112	23...	3,800	143
4...	67	110	14...	26	98	24...	1,400	143
5...	58	140	15...	25	271	25...	660	137
6...	49	210	16...	32	397	26...	550	109
7...	43	240	17...	26	229	27...	380	93
8...	37	260	18...	25	147	28...	250	81
9...	35	240	19...	25	150	29...	220	70
10...	37	250	20...	22	225	30...	260	64
						31...		61
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							344	170
RUNOFF, IN INCHES							8.70	4.44

GAGE-HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.84	23	6-23	0230	6.98	4,870				
6-21	1130	1.90	29	6-23	1415	6.16	3,560	6-26	1200	6.1	560
6-21	1300	2.02	47	6-23	2400	5.22	2,200	6-26	2400	5.2	485
6-21	1530	2.23	96								
6-21	2230	2.28	111								
6-21	2400	2.36	139	6-24	0200	5.06	1,990	6-27	1600	3.7	350
				6-24	1400	4.44	1,230	6-27	2400	3.3	300
				6-24	1600	4.72	1,150				
6-22	0330	2.71	300	6-24	2400	6.6	850				
6-22	1100	3.50	785					6-28	1200	3.2	240
6-22	1330	4.02	1,180					6-28	1400	3.3	310
6-22	1530	5.29	2,480	6-25	0800	7.0	680	6-28	2400	3.1	200
6-22	2100	6.7	4,400	6-25	2400	6.5	590				
6-22	2400	6.9	4,700								

(225) 01547800 SOUTH FORK BEECH CREEK NEAR SNOW SHOE, PA.

LOCATION.--Lat 41°01'30", long 77°54'15", Centre County, on right bank at downstream side of bridge on State Highway 144, 0.6 mile downstream from Horsehead Run, 2.5 miles east of Snow Shoe, and 4.2 miles upstream from confluence with North Fork Beech Creek.

DRAINAGE AREA.--12.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 15-18. Altitude of gage is 1,560 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 600 cfs and by contracted-opening measurement at 967 cfs. Record for June 15-18 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 1,170 cfs 0230 hours June 23 (gage height, 5.36 ft).
1959 to May 1972: Discharge, 967 cfs Mar. 10, 1964 (gage height, 4.92 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	23	66	11...	12	54	21...	20	27
2...	20	56	12...	14	45	22...	324	26
3...	19	51	13...	14	41	23...	765	25
4...	18	43	14...	14	38	24...	334	25
5...	16	44	15...	13	41	25...	200	23
6...	15	45	16...	15	41	26...	155	21
7...	13	41	17...	14	35	27...	108	20
8...	12	52	18...	13	32	28...	79	19
9...	18	52	19...	13	30	29...	78	17
10...	14	66	20...	12	29	30...	83	16
						31...		16
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							82	37
RUNOFF, IN INCHES							7.46	3.47

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.04	13	6-22	2100	3.68	478	6-24	0045	3.59	447
6-21	1215	1.09	15	6-22	2115	3.95	573	6-24	0300	3.55	435
6-21	1900	1.31	28	6-22	2130	4.83	924	6-24	1500	3.09	300
6-21	2330	1.49	42	6-22	2315	5.08	1,040	6-24	2400	2.91	255
6-21	2400	1.53	46	6-22	2345	5.07	1,030				
				6-22	2400	4.64	841				
								6-25	0015	2.89	246
6-22	0045	1.59	44					6-25	1415	2.60	186
6-22	0345	1.99	90	6-23	0045	5.01	1,000	6-25	2400	2.55	177
6-22	0530	2.21	122	6-23	0130	4.98	991				
6-22	1030	2.51	173	6-23	0230	5.36	1,170				
6-22	1600	3.12	309	6-23	0430	5.02	1,010	6-26	0330	2.57	179
6-22	1700	3.26	348	6-23	1815	3.94	569	6-26	2400	2.29	130
6-22	1800	3.67	475	6-23	2330	3.59	447				
6-22	1815	3.48	414	6-23	2400	3.57	441				
6-22	1915	3.91	559					6-27	0015	2.29	128
6-22	1945	4.31	709					6-27	2400	2.03	90

(226) 01547950 BEECH CREEK AT MONUMENT, PA.

LOCATION.--Lat 41°06'42", long 77°42'09", Centre County, on right bank 800 ft downstream from bridge at Monument, 850 ft downstream from Monument Run, 0.6 mile upstream from Twin Run, and 8.7 miles upstream from mouth.

DRAINAGE AREA.--152 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15- minute intervals except June 6-15. Altitude of gage is 850 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,500 cfs and by slope-area measurement at 9,740 cfs. Records for June 6-15 estimated on basis of weather records and correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 9,740 cfs 0345 hours June 23 (gage height, 15.22 ft).
August 1968 to May 1972: Discharge, 3,070 cfs Apr. 2, 1970 (gage height, 10.24 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	281	986	11...	130	1,140	21...	168	404
2....	246	881	12...	140	944	22...	2,640	340
3....	227	846	13...	150	797	23...	7,490	298
4....	220	777	14...	150	706	24...	3,770	284
5....	212	764	15...	140	654	25...	2,420	253
6....	190	811	16...	162	881	26...	1,980	224
7....	160	777	17...	144	712	27...	1,570	194
8....	150	993	18...	132	610	28...	1,230	175
9....	190	1,080	19...	132	524	29...	1,090	153
10...	140	1,330	20...	122	461	30...	1,080	138
						31...		126
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							895	621
RUNOFF,IN INCHES.....							6.57	4.71

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	6.57	127								
6-21	1230	6.65	150	6-23	0345	15.22	9,740				
6-21	2300	6.98	265	6-23	0545	14.85	9,150	6-26	0400	8.95	2,180
6-21	2400	7.04	290	6-23	2400	11.69	5,010	6-26	2400	8.50	1,740
6-22	0430	7.52	522	6-24	0015	11.72	5,040	6-27	0015	8.50	1,740
6-22	1215	8.72	1,480	6-24	2400	9.76	2,900	6-27	2400	8.02	1,360
6-22	1545	9.97	2,700								
6-22	2145	13.49	7,050								
6-22	2400	14.17	8,070	6-25	0015	9.76	2,900	6-28	0030	8.01	1,350
				6-25	2400	8.91	2,110	6-28	2400	7.63	1,070

(229) FISHING CREEK AT MILL HALL, PA.

(Miscellaneous site)

LOCATION.--Lat 41°06'02", long 77°29'00", Clinton County, upstream from bridge on Main Street at Mill Hall.

DRAINAGE AREA.--179 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 25,000 cfs June 23.

(230) PINE CREEK AT GALETON, PA.

(Miscellaneous site)

LOCATION.--Lat 41°43'59", long 77°38'39", Potter County, at bridge on State Highway 144 at Galeton and 150 feet upstream from South Branch Pine Creek.

DRAINAGE AREA.--167 sq mi.

DISCHARGE RECORD.--Peak discharge by contracted-opening measurement.

MAXIMUM.--June-July 1972: Discharge, 15,900 cfs June 22.

(231) 01548500 PINE CREEK AT CEDAR RUN, PA.

LOCATION.--Lat 41°31'18", long 77°26'52", Lycoming County, on left bank at downstream side of highway bridge at village of Cedar Run, 2,000 ft downstream from Cedar Run, and 1.2 miles upstream from Gamble Run.

DRAINAGE AREA.--604 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 1900 hours June 22 to 0330 hours June 23 for which a graph was constructed on basis of adjoining record and floodmarks. Datum of gage is 780.36 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 16,000 cfs and by slope-area measurements at 31,000 and 52,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 66,000 cfs 0030 hours June 23 (gage height, 16.0 ft, from floodmarks).
1919 to May 1972: Discharge, 52,000 cfs May 28, 1946 (gage height, 14.39 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	683	3,030	11...	294	1,240	21...	395	1,080
2....	517	2,370	12...	253	996	22...	19,700	825
3....	459	2,090	13...	244	846	23...	42,600	687
4....	414	2,060	14...	246	755	24...	13,700	621
5....	452	1,490	15...	249	899	25...	7,370	523
6....	370	1,830	16...	595	1,800	26...	4,860	464
7....	338	1,530	17...	489	1,210	27...	3,420	401
8....	299	1,330	18...	355	952	28...	2,500	370
9....	281	1,190	19...	325	795	29...	2,080	333
10...	351	1,460	20...	293	1,490	30...	3,890	296
						31...		276
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,600	1,140
RUNOFF,IN INCHES.....							6.65	2.17

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1130	1.92	290	6-22	1730	11.07	29,000	6-24	2130	7.08	9,780
6-21	1600	2.02	367	6-22	2000	12.80	40,000	6-24	2400	6.94	9,290
6-21	1800	2.16	486	6-22	2400	15.9	65,000				
6-21	2100	2.37	673								
6-21	2330	2.52	826					6-25	0030	6.92	9,230
6-21	2400	2.57	879	6-23	0030	16.0	66,000	6-25	2400	5.74	5,620
				6-23	0400	15.31	59,600				
				6-23	2100	10.52	25,700				
6-22	0300	2.96	1,320	6-23	2400	9.81	22,000	6-26	0030	5.72	5,570
6-22	0430	3.38	1,920					6-26	2400	5.06	3,980
6-22	0530	3.83	2,700								
6-22	1030	6.94	10,500	6-24	0030	9.72	21,500				
6-22	1500	9.06	18,900	6-24	1000	8.10	13,700	6-27	0030	5.05	3,960
								6-27	2400	4.54	2,940

(227) 01548000 BALD EAGLE CREEK AT BEECH CREEK STATION, PA.

(Formerly published as North Bald Eagle Creek at Beech Creek Station)

LOCATION.--Lat 41°03'55", long 77°34'03", Clinton County, at downstream end of center pier of highway bridge just downstream from Beech Creek, at Beech Creek Station, and 3 miles downstream from Foster Joseph Sayers Lake.

DRAINAGE AREA.--559 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 571.74 ft above mean sea level (Pennsylvania Department of Transportation bench mark).

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

MAXIMUMS.--June-July 1972: Discharge, 19,400 cfs 0800 hours June 23 (gage height, 12.29 ft).
1911 to May 1972: Discharge, 25,600 cfs Mar. 18, 1936 (gage height, 14.42 ft).

REMARKS.--Flow regulated since 1969 by Foster Joseph Sayers Lake 3 miles upstream (see station 01547480).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,390	6,890	11...	463	4,190	21...	844	1,140
2....	1,060	6,550	12...	441	2,420	22...	6,640	976
3....	710	6,270	13...	452	1,720	23...	16,600	871
4....	697	5,920	14...	491	1,510	24...	8,670	805
5....	604	5,760	15...	463	1,560	25...	9,010	728
6....	520	5,780	16...	738	2,170	26...	8,890	636
7....	502	4,810	17...	650	1,850	27...	7,630	571
8....	480	3,900	18...	561	1,530	28...	7,310	541
9....	469	3,990	19...	543	1,200	29...	7,290	499
10...	514	4,710	20...	436	1,220	30...	7,210	477
						31...		443
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							3,080	2,630
RUNOFF,IN INCHES							6.14	5.43

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.18	420								
6-21	1030	2.29	480					6-27	0030	7.68	8,370
6-21	1330	2.63	690	6-24	0030	9.42	12,100	6-27	2400	7.10	7,250
6-21	1730	3.23	1,190	6-24	1700	6.97	7,000				
6-21	2200	3.73	1,730	6-24	2400	7.55	8,110				
6-21	2400	4.12	2,220					6-28	1600	7.30	7,630
								6-28	2400	7.15	7,350
				6-25	1230	8.32	9,670				
6-22	1530	6.72	6,540	6-25	1830	8.06	9,130				
6-22	2400	10.85	15,500	6-25	2400	8.09	9,190	6-29	2330	7.30	7,630
								6-29	2400	7.29	7,610
6-23	0800	12.29	19,400	6-26	0200	8.15	9,320				
6-23	1130	11.90	18,300	6-26	2400	7.70	8,410	6-30	0030	7.29	7,610
6-23	2400	9.53	12,300					6-30	2400	7.00	7,060

(228) 01548020 BULL RUN NEAR LOGANTON, PA.

(Crest-stage station)

LOCATION.--Lat 41°00'30", long 77°19'35", Clinton County, at pipe culvert on State Route 477, and 2 miles southeast of Loganton.

DRAINAGE AREA.--1.99 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,320 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 125 cfs and extended above by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 351 cfs June 22 (gage height, 8.97 ft, from floodmarks).
1963 to May 1972: Discharge, 113 cfs Oct. 25, 1967 (gage height, 7.26 ft).

(232) 01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.

LOCATION.--Lat 41°28'25", long 77°13'52", Lycoming County, 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.

DRAINAGE AREA.--37.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except July 20-31. Datum of gage is 1,041.85 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by contracted-opening measurement at 5,480 cfs. Record for July 20-31 estimated on basis of weather records and correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 6,260 cfs 0115 hours June 23 (gage height, 9.34 ft).
1941 to May 1972: Discharge, 5,480 cfs May 27, 1946 (gage height, 8.81 ft).
Flood of Mar. 18, 1936, reached a stage of 9.0 ft, from floodmark (discharge, 5,780 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	57	210	11...	29	63	21...	118	80
2....	55	139	12...	27	55	22...	3,180	60
3....	52	107	13...	26	50	23...	2,670	50
4....	51	80	14...	26	51	24...	845	40
5....	52	65	15...	25	86	25...	462	35
6....	42	71	16...	65	195	26...	279	30
7....	38	89	17...	41	102	27...	163	26
8....	35	71	18...	37	84	28...	113	22
9....	32	65	19...	37	72	29...	97	20
10...	38	77	20...	34	120	30...	354	18
						31...		16
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							303	73
RUNOFF,IN INCHES							8.96	2.22

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.82	33	6-22	1915	8.63	5,270	6-24	2400	3.63	590
6-21	1215	1.90	40	6-22	2015	7.66	4,050				
6-21	1515	2.06	57	6-22	2400	8.60	5,230				
6-21	1630	2.32	93					6-25	0100	3.62	583
6-21	1815	2.75	187					6-25	2345	3.19	345
6-21	1945	3.11	310	6-23	0115	9.34	6,260	6-25	2400	3.19	345
6-21	2400	3.36	429	6-23	0130	8.86	5,580				
				6-23	0300	8.54	5,150				
				6-23	0545	6.90	3,240	6-26	0300	3.25	373
6-22	0300	3.45	479	6-23	1230	5.53	2,050	6-26	0600	3.16	332
6-22	0400	3.80	705	6-23	2400	4.56	1,280	6-26	2400	2.79	198
6-22	0745	6.45	2,820								
6-22	1200	7.67	4,060								
6-22	1545	7.41	3,770	6-24	0015	4.55	1,270	6-27	0015	2.79	198
6-22	1900	8.91	5,650	6-24	1815	3.74	664	6-27	2400	2.52	130

(233) 01549700 PINE CREEK BELOW LITTLE PINE CREEK NEAR WATERVILLE, PA.

LOCATION.--Lat 41°16'25", long 77°19'28", Lycoming County, on downstream side of suspension bridge, 0.9 mile downstream from Ramsey Run, 4 miles downstream from Little Pine Creek, 4 miles south of Waterville, and 9.2 miles upstream from mouth.

DRAINAGE AREA.--944 sq mi.

GAGE-HEIGHT RECORD.--Twice-daily observer's readings of wire-weight gage except June 22 to July 8. Datum of gage is 570.62 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 22,000 cfs and by slope-area measurement at 104,000 cfs. Discharge June 22 to July 8 estimated on basis of records for Pine Creek at Cedar Run.

MAXIMUMS.--June-July 1972: Discharge, 104,000 cfs about 0400 hours June 23 (gage height, 22.76 ft, from high-water profile).
1958 to May 1972: Discharge, 45,300 cfs Mar. 5, 1964 (gage height, 13.67 ft).

REMARKS.--Floodflows regulated since November 1950 by Little Pine Creek Reservoir 8.5 miles upstream (capacity, 24,900 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,020	6,000	11...	470	3,040	21...	700	2,010
2....	879	4,400	12...	394	2,420	22...	18,000	1,560
3....	813	3,500	13...	356	1,880	23...	75,000	1,300
4....	758	3,300	14...	340	1,640	24...	26,000	1,160
5....	714	3,200	15...	356	1,820	25...	14,000	1,010
6....	681	3,300	16...	986	5,060	26...	10,000	846
7....	610	3,600	17...	1,060	3,270	27...	7,300	706
8....	515	3,400	18...	747	2,800	28...	6,100	622
9....	461	3,340	19...	692	2,280	29...	5,100	550
10...	515	3,250	20...	630	2,890	30...	6,900	501
						31...		453
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							6,070	2,423
RUNOFF, IN INCHES.....							7.18	2.96

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0700	2.59	570	6-22	2400	-	65,000	6-24	0100	-	41,000
6-21	1700	2.78	760					6-24	0500	-	33,000
6-21	2400	-	1,250					6-24	1400	-	22,500
				6-23	0100	-	77,000	6-24	2400	-	16,500
				6-23	0400	22.76	104,000				
6-22	0100	-	1,420	6-23	1000	-	87,000				
6-22	0400	-	2,400	6-23	1700	-	64,000	6-25	0100	-	16,000
6-22	0900	-	6,400	6-23	2400	-	44,000	6-25	2400	-	10,300
6-22	1400	-	15,000								
6-22	2100	-	42,000					6-26	0100	-	10,200
								6-26	2400	-	8,000

(234) 01549780 LARRYS CREEK AT COGAN HOUSE, PA.

LOCATION.--Lat 41°25'04", long 77°09'46", Lycoming County, on right bank, attached to upstream wingwall of bridge on State Highway 184 at Cogan House, 0.7 mile upstream from Wolf Run, 2.3 miles upstream from Wendell Run, and 15 miles northwest of Williamsport.

DRAINAGE AREA.--6.80 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,370 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 130 cfs and by contracted-opening measurement at 1,130 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,130 cfs 1615 hours June 22 (gage height, 5.29 ft).
1960 to May 1972: Discharge, 701 cfs Mar. 10, 1964 (gage height, 4.49 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	17	48	11...	7.6	19	21...	45	15
2....	17	35	12...	7.2	18	22...	626	12
3....	16	28	13...	6.8	16	23...	384	12
4....	15	21	14...	6.4	21	24...	112	11
5....	13	18	15...	12	43	25...	65	9.3
6....	12	18	16...	27	83	26...	49	7.8
7....	11	14	17...	18	52	27...	37	7.4
8....	9.5	15	18...	17	34	28...	29	6.6
9....	10	15	19...	17	25	29...	27	6.2
10...	9.5	20	20...	15	19	30...	55	5.8
						31...		5.4
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							56	21
RUNOFF,IN INCHES.....							9.26	3.61

(236) 01551500 WEST BRANCH SUSQUEHANNA RIVER AT WILLIAMSPORT, PA.

LOCATION.--Lat 41°14'17", long 76°59'56", Lycoming County, on left bank at upstream edge of Market Street Bridge at Williamsport, 350 ft upstream from Hagermans Run.

DRAINAGE AREA.--5,682 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except 0600 hours June 23 to 0600 hours June 25 for which graph was reconstructed on basis of wire-weight-gage reading of peak gage height and adjoining record. Datum of gage is 494.98 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter-measurements below 210,000 cfs and by slope-area measurement at 264,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 279,000 cfs about 1500 hours June 23 (gage height, 34.75 ft, from outside gage reading).
1889 to May 1972: Discharge, 264,000 cfs Mar. 18, 1936 (gage height, 33.57 ft, from floodmark in gage shelter).

REMARKS.--Flow regulated by Curwensville Lake, Glendale Lake, First Fork Sinnemahoning Creek Reservoir, Kettle Creek Lake, and Foster Joseph Sayers Lake (see stations 01541180, 01541340, 01543900, 01544800, and 01547480) and by Little Pine Creek Reservoir.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9,750	52,400	11...	4,850	23,200	21...	7,860	10,600
2....	8,360	43,900	12...	5,100	18,600	22...	80,800	8,990
3....	7,400	33,200	13...	4,550	14,900	23...	240,000	7,490
4....	6,660	26,100	14...	4,340	13,000	24...	200,000	6,600
5....	6,720	23,600	15...	4,850	12,000	25...	130,000	6,130
6....	6,550	22,200	16...	7,190	18,100	26...	87,100	5,990
7....	6,380	23,300	17...	7,880	18,900	27...	74,800	5,220
8....	6,050	21,900	18...	7,100	15,800	28...	63,800	4,780
9....	5,030	21,600	19...	6,440	12,900	29...	56,000	4,250
10...	4,740	22,700	20...	5,910	11,200	30...	55,900	3,780
						31...		3,520
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							37,400	16,670
RUNOFF, IN INCHES.....							7.35	3.38

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.58	5,520	6-23	1500	34.75	279,000				
6-21	0730	2.54	5,420	6-23	2100	32.3	252,000	6-28	2400	13.36	59,300
6-21	1100	2.62	5,620	6-23	2400	30.0	227,000				
6-21	1400	3.22	7,310								
6-21	1445	3.70	9,750					6-29	2400	12.67	54,700
6-21	1545	3.58	8,390	6-24	1200	27.1	195,000				
6-21	2100	4.16	10,300	6-24	2400	24.6	168,000				
6-21	2400	5.64	16,000					6-30	2100	13.04	57,100
								6-30	2400	12.96	56,500
				6-25	0600	22.67	146,000				
6-22	0200	6.45	19,300	6-25	2400	17.89	96,000				
6-22	1400	16.80	85,600					7-01	2400	11.75	48,700
6-22	1800	20.90	127,000								
6-22	2400	25.58	178,000	6-26	1200	16.86	86,100				
				6-26	2400	16.33	81,400	7-02	2400	10.35	39,900
6-23	0600	29.45	224,000								
6-23	1000	32.6	256,000	6-27	2400	14.62	68,100				

(237) 01552000 LOYALSOCK CREEK AT LOYALSOCKVILLE, PA.

(Formerly published as Loyalsock Creek at Loyalsock)

LOCATION.--Lat 41°19'26", long 76°54'42", Lycoming County, on left bank 500 ft downstream from highway bridge at Loyalsockville, 2.5 miles downstream from Wallis Run and 7.3 miles upstream from mouth.

DRAINAGE AREA.--443 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except June 20, 0900 hours June 22 to 1300 hours June 23, and July 23-26, for which graphs constructed on basis of adjoining record, high-water mark, and hydrographic comparisons with nearby stations. Datum of gage is 585.63 ft above mean sea level (Pennsylvania Department of Transportation bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 16,000 cfs and by slope-area measurement at 50,000 cfs.

REMARKS.--June-July 1972: Discharge, 88,700 cfs about 0400 hours June 23 (gage height, 14.74 ft, high-water mark in gage well).
1926 to May 1972: Discharge, 51,200 cfs Nov. 16, 1926 (gage height, 12.3 ft); maximum gage height, 12.32 ft Nov. 26, 1950.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.52	14	6-22	0815	3.86	448	6-24	0015	2.73	173
6-21	0930	1.56	16	6-22	1315	4.72	814	6-24	1245	2.27	99
6-21	1145	1.62	20	6-22	1600	5.13	1,040	6-24	2400	2.14	81
6-21	1300	1.75	31	6-22	1615	5.29	1,130				
6-21	1500	2.10	68	6-22	2400	4.74	825				
6-21	2315	2.30	95					6-25	0030	2.13	80
6-21	2400	2.29	94					6-25	2215	1.92	55
				6-23	0045	4.73	820	6-25	2400	1.96	60
				6-23	0915	3.65	383				
6-22	0130	2.37	106	6-23	2230	2.77	181				
6-22	0230	2.68	157	6-23	2400	2.73	173	6-26	0100	1.96	60
6-22	0345	3.05	232					6-26	2400	1.80	42
6-22	0430	3.04	230								

(235) 01550000 LYCOMING CREEK NEAR TROUT RUN, PA.

LOCATION.--Lat 41°25'06", long 77°01'59", Lycoming County, on right bank 150 ft upstream from highway bridge, 300 ft upstream from Penn Central Railroad bridge, 0.5 mile downstream from Grays Run, and 2.8 miles upstream from village of Trout Run.

DRAINAGE AREA.--173 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2115 hours June 22 to 0200 hours June 22 for which graph constructed on basis of floodmark and adjoining record. Datum of gage is 693.95 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,300 cfs and by slope-area measurement at 25,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 25,900 cfs 2400 hours June 22 (gage height, 20.19 ft, from high-water mark in gage house).
1914 to May 1972: Discharge, 21,800 cfs May 27, 1946 (gage height, 19.37 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	601	964	11...	254	258	21...	1,330	262
2....	444	706	12...	243	193	22...	13,900	190
3....	408	563	13...	239	163	23...	11,100	163
4....	394	470	14...	239	163	24...	3,100	174
5....	444	370	15...	246	294	25...	2,150	151
6....	351	428	16...	645	1,490	26...	1,680	148
7....	333	342	17...	428	695	27...	1,180	125
8....	299	258	18...	347	475	28...	844	120
9....	278	217	19...	351	351	29...	689	98
10...	299	394	20...	329	299	30...	1,480	79
						31...		70
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,490	344
RUNOFF, IN INCHES.....							9.59	2.29

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.39	312	6-22	2100	19.30	23,600				
6-21	1215	3.52	370	6-22	2400	20.19	25,900				
6-21	1500	3.89	563					6-25	0015	6.32	2,430
6-21	1630	4.65	1,010					6-25	1815	5.76	1,950
6-21	1815	6.10	2,070	6-23	0230	19.39	23,900	6-25	2400	5.56	1,790
6-21	2030	8.38	4,360	6-23	0445	17.63	19,600				
6-21	2200	8.43	4,420	6-23	0900	12.41	9,740				
6-21	2400	8.39	4,380	6-23	1915	9.03	5,060	6-26	0130	5.56	1,910
				6-23	2400	8.39	4,310	6-26	2245	4.92	1,420
								6-26	2400	4.85	1,380
6-22	0500	8.77	4,740								
6-22	0815	12.29	9,540	6-24	0015	8.35	4,380				
6-22	1330	18.08	20,600	6-24	2000	6.50	2,460	6-27	0030	4.84	1,400
6-22	1800	15.58	15,500	6-24	2400	6.33	2,310	6-27	2400	4.21	970

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,380	1,850	11...	506	674	21...	3,080	835
2....	1,600	1,290	12...	433	529	22...	37,000	658
3....	1,210	1,010	13...	404	429	23...	45,000	500
4....	1,130	835	14...	388	394	24...	10,000	580
5....	1,010	743	15...	790	406	25...	5,860	430
6....	825	779	16...	1,170	1,560	26...	4,130	360
7....	696	716	17...	790	2,080	27...	2,610	323
8....	588	618	18...	729	1,140	28...	1,810	299
9....	588	550	19...	721	835	29...	1,410	267
10...	640	658	20...	600	1,070	30...	1,710	239
						31...		220
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							4,330	738
RUNOFF, IN INCHES.....							10.90	1.92

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.56	595	6-22	1800	11.9	45,900				
6-21	0700	3.52	566	6-22	2000	12.1	48,500	6-25	1100	7.98	6,140
6-21	1100	3.60	625	6-22	2400	13.6	70,200	6-25	2400	7.67	4,790
6-21	1300	3.81	790								
6-21	1500	4.51	1,580								
6-21	1700	5.90	4,260	6-23	0400	14.74	88,700	6-26	2400	7.25	3,270
6-21	1900	6.77	6,880	6-23	0700	13.7	71,800				
6-21	2100	7.41	9,340	6-23	1300	10.91	31,700				
6-21	2400	7.96	11,800	6-23	1900	9.85	19,000	6-27	2400	6.85	2,150
				6-23	2400	9.34	14,400				
6-22	0500	9.09	17,900					6-28	2400	6.55	1,520
6-22	0900	10.81	32,800	6-24	0300	9.10	12,600				
6-22	1100	11.6	42,000	6-24	2400	8.18	7,110				
6-22	1400	12.1	48,500								

(238) 01552100 MILL CREEK NEAR WARRENSVILLE, PA.

(Crest-stage station)

LOCATION.--Lat 41°20'10", long 76°57'45", Lycoming County, at bridge on L.R. 41044, 1.2 miles northwest of Warrensville, and 6 miles above mouth.

DRAINAGE AREA.--11.9 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Altitude of gage is 790 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 400 cfs and by slope-area measurements at 932 and 2,230 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,230 cfs June 22 (gage height, 6.14 ft, from floodmark).
1961 to May 1972: Discharge, 962 cfs Mar. 10, 1964 (gage height, 4.73 ft).

(239) 01552500 MUNCY CREEK NEAR SONESTOWN, PA.

LOCATION.--Lat 41°21'25", long 76°32'06", Sullivan County, 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.

DRAINAGE AREA.--23.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 1-8, July 31. Datum of gage is 1,025.01 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,400 cfs and extended above by logarithmic plotting. Record for June 1-8, July 31 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 8,260 cfs 1715 hours June 22 (gage height, 8.94 ft).
1941 to May 1972: Discharge, 7,310 cfs Mar. 11, 1952 (gage height, 8.61 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	140	135	11...	26	58	21...	402	101
2....	84	90	12...	22	39	22...	3,910	83
3....	64	77	13...	21	33	23...	1,000	61
4....	56	65	14...	19	67	24...	289	44
5....	45	71	15...	18	80	25...	182	36
6....	36	65	16...	49	413	26...	154	29
7....	33	49	17...	32	550	27...	116	21
8....	30	39	18...	29	215	28...	105	17
9....	29	36	19...	31	149	29...	97	13
10...	39	101	20...	26	126	30...	103	11
						31...		10
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							240	93
RUNOFF,IN INCHES							11.23	4.51

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.41	24	6-22	0530	6.20	2,290	6-23	0530	4.63	1,130
6-21	0730	2.47	29	6-22	0600	7.27	4,160	6-23	1915	3.75	513
6-21	0945	2.69	49	6-22	0730	7.56	4,770	6-23	2400	3.52	398
6-21	1330	2.96	81	6-22	0845	6.67	3,030				
6-21	1600	2.98	84	6-22	0930	6.71	3,100				
6-21	1700	3.24	131	6-22	1100	6.75	3,170	6-24	0115	3.53	404
6-21	1715	3.38	165	6-22	1145	6.25	2,360	6-24	0515	3.35	345
6-21	1730	3.95	367	6-22	1300	6.44	2,640	6-24	1630	3.07	238
6-21	1745	4.82	880	6-22	1600	7.36	4,350	6-24	2400	2.93	193
6-21	1800	5.17	1,160	6-22	1630	8.44	6,880				
6-21	2045	5.40	1,370	6-22	1715	8.94	8,260				
6-21	2145	5.45	1,420	6-22	1800	8.66	7,470	6-25	0700	2.95	199
6-21	2215	5.56	1,530	6-22	2200	7.64	5,400	6-25	1015	2.89	196
6-21	2315	5.40	1,370	6-22	2330	7.40	5,080	6-25	2400	2.71	147
6-21	2400	5.21	1,200	6-22	2400	7.11	4,560				
								6-26	0030	2.72	149
6-22	0200	4.84	895	6-23	0015	6.85	4,330	6-26	0245	2.76	187
6-22	0400	4.66	762	6-23	0200	5.47	1,990	6-26	2400	2.49	120
6-22	0515	5.62	1,590	6-23	0315	5.00	1,470				

(240) GLADE RUN AT MUNCY, PA.

(Miscellaneous site)

LOCATION.--Lat 41°11'58", long 76°46'40", Lycoming County, at culvert at Legislative Route 41063 at Muncy.

DRAINAGE AREA.--6.62 sq mi.

DISCHARGE RECORD.--Peak discharge by contracted-opening measurement.

MAXIMUM.--June-July 1972: Discharge, 1,780 cfs June 22.

(241) 01553050 WHITE DEER HOLE CREEK NEAR ELIMSPORT, PA.

(Crest-stage station)

LOCATION.--Lat 41°07'05", long 77°04'00", Lycoming County, at bridge on L.R. 41001, 2.5 miles west of Elimsport, and 12.5 miles above mouth.

DRAINAGE AREA.--18.2 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 650.84 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,500 cfs and by slope-area measurement at 4,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,200 cfs June 22 (gage height, 11.83 ft, from floodmark). 1961 to May 1972: Discharge, 1,480 cfs Mar. 10, 1964 (gage height, 9.05 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	12	29	11...	8.6	16	21...	100	12
2....	14	24	12...	8.2	15	22...	470	12
3....	14	22	13...	8.2	15	23...	102	11
4....	13	20	14...	8.0	14	24...	58	11
5....	12	20	15...	8.4	14	25...	46	11
6....	12	19	16...	11	19	26...	38	10
7....	11	17	17...	8.6	16	27...	31	9.5
8....	9.8	18	18...	9.0	15	28...	26	9.0
9....	9.5	16	19...	8.4	14	29...	33	8.6
10...	9.5	17	20...	7.2	13	30...	37	8.2
						31...		7.8
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							38.1	14.9
RUNOFF,IN INCHES							8.63	3.49

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0400	3.00	7.4	6-22	0730	5.53	690	6-23	0030	5.08	222
6-21	0700	3.20	12	6-22	0745	5.65	940	6-23	0415	4.75	128
6-21	1000	3.71	35	6-22	0800	5.48	600	6-23	0900	4.49	89
6-21	1200	4.40	122	6-22	0930	5.53	690	6-23	2400	4.19	69
6-21	1300	4.67	187	6-22	1000	5.37	447				
6-21	1330	4.71	191	6-22	1130	5.50	630				
6-21	1400	5.05	330	6-22	1200	5.41	495	6-24	1000	4.06	59
6-21	1500	5.22	346	6-22	1230	5.62	865	6-24	2400	3.93	46
6-21	1830	4.95	176	6-22	1400	5.68	1,000				
6-21	1900	4.96	178	6-22	1530	5.50	630				
6-21	2400	4.79	136	6-22	1615	5.40	480	6-25	0300	3.92	46
				6-22	1715	5.55	725	6-25	0500	3.98	54
				6-22	1845	5.12	242	6-25	2400	3.81	41
6-22	0200	5.05	210	6-22	2000	5.22	306				
6-22	0330	5.40	480	6-22	2400	4.92	167				
6-22	0400	5.45	560								
6-22	0630	5.40	480								

(244) 01553140 WHITE DEER CREEK NEAR WHITE DEER, PA.

LOCATION.--41°04'18", long 75°56'03", Union County, on left bank 30 ft downstream from bridge on Legislative Route 59045, 2 miles downstream from White Deer Creek Dam, and 3.2 miles west of White Deer.

DRAINAGE AREA.--40.0 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph; fragmentary July 19-31, for which graph was reconstructed from twice-daily wire-weight-gage readings. Datum of gage is 586.28 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,400 cfs and by contracted-opening measurement, and computation of flow over road, at 6,410 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,410 cfs 0800 hours June 22 (gage height, 9.89 ft). 1968 to May 1972: Discharge, 637 cfs Oct. 22, 1970 (gage height, 6.22 ft); maximum gage height, 6.84 ft Feb. 13, 1971 (ice jam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	93	229	11...	57	111	21...	493	96
2....	85	181	12...	52	106	22...	4,570	84
3....	111	155	13...	52	100	23...	2,000	76
4....	94	139	14...	50	96	24...	601	84
5....	98	138	15...	52	92	25...	399	74
6....	86	120	16...	89	194	26...	309	68
7....	80	122	17...	62	134	27...	239	62
8....	71	125	18...	70	117	28...	190	58
9....	66	118	19...	67	108	29...	224	54
10...	70	122	20...	50	100	30...	303	50
						31...		48
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							359	108
RUNOFF,IN INCHES							10.03	3.12

(242) 01553120 WHITE DEER CREEK ABOVE SAND SPRING RUN NEAR WHITE DEER, PA.

LOCATION.--Lat 41°03'17", long 77°04'31", Union County, on left bank 20 ft downstream from bridge on White Deer Creek Road, 1,500 ft upstream from Sand Spring Run, and 11.3 miles west of White Deer.

DRAINAGE AREA.--17.8 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recroder graph. Datum of gage is 1,046.15 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 520 cfs and by slope-area measurement at 2,330 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,330 cfs 2130 hours June 22 (gage height, 8.17 ft, in gage well, 9.47 ft, from outside floodmarks).
1968 to May 1972: Discharge, 302 cfs Apr. 2, 1970 (gage height, 5.30 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	41	147	11...	30	58	21...	466	42
2....	40	111	12...	27	56	22...	1,330	37
3....	48	90	13...	28	53	23...	1,140	34
4....	46	73	14...	26	50	24...	515	37
5....	48	73	15...	24	46	25...	318	38
6....	41	72	16...	38	87	26...	224	36
7....	38	58	17...	30	57	27...	166	29
8....	35	62	18...	27	51	28...	126	26
9....	34	55	19...	27	49	29...	147	24
10...	36	75	20...	23	46	30...	196	24
						31...		22
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							171	55.4
RUNOFF, IN INCHES							10.69	3.59

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0400	2.77	22	6-22	1600	7.70	1,910	6-24	1600	5.89	458
6-21	0730	2.98	32	6-22	1700	7.35	1,630	6-24	2400	5.71	381
6-21	0900	3.21	46	6-22	1900	7.62	1,850				
6-21	1300	4.37	173	6-22	2130	8.17	2,330				
6-21	1500	5.27	430	6-22	2400	7.87	2,030	6-25	0400	5.67	365
6-21	1800	5.64	576					6-25	2400	5.33	252
6-21	2130	5.80	640								
6-21	2400	5.76	624	6-23	0400	7.38	1,540				
				6-23	1600	6.63	881	6-26	0400	5.32	249
				6-23	2400	6.41	736	6-26	2400	5.09	189
6-22	0230	5.77	628								
6-22	0400	6.05	765								
6-22	1300	6.90	1,290								

(243) 01553130 SAND SPRING RUN NEAR WHITE DEER, PA.

LOCATION.--Lat 41°03'31", long 77°04'37", Union County, on right bank 12 ft downstream from bridge on White Deer Creek Road, 500 ft upstream from mouth, and 11.3 miles west of White Deer.

DRAINAGE AREA.--4.93 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,037.16 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter-measurements below 200 cfs and by slope-area measurement at 1,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,000 cfs 1400 hours June 22 (gage height, 5.68 ft).
1968 to May 1972: Discharge, 180 cfs Sept. 13, 1971 (gage height, 5.38 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0530	3.57	48	6-22	0400	8.23	1,780	6-24	2400	4.91	267
6-21	0900	3.69	62	6-22	0500	9.02	3,300				
6-21	1000	3.84	82	6-22	0600	9.56	4,990				
6-21	1100	4.20	136	6-22	0800	9.89	6,410	6-25	0500	4.81	245
6-21	1200	4.82	247	6-22	1400	9.62	5,220	6-25	0730	4.88	261
6-21	1300	5.10	314	6-22	1715	9.83	6,130	6-25	2400	4.42	172
6-21	1400	5.17	332	6-22	2230	9.27	4,000				
6-21	1500	5.43	401	6-22	2400	9.30	4,090				
6-21	1600	6.03	576					6-26	0500	4.39	167
6-21	1700	6.88	894					6-26	2400	4.07	116
6-21	1815	7.74	1,360	6-23	0300	9.06	3,410				
6-21	2000	7.58	1,260	6-23	1200	7.89	1,460				
6-21	2400	7.61	1,280	6-23	2400	6.42	705	6-27	1200	3.89	89
								6-27	2400	3.69	62
6-22	0200	7.70	1,330	6-24	0600	5.66	466				

(245) 01553500 WEST BRANCH SUSQUEHANNA RIVER AT LEWISBURG, PA.

LOCATION.--Lat 40°58'05", long 76°52'25", Union County, at downstream side of left abutment of Market Street bridge at Lewisburg, 0.2 mile downstream from Buffalo Creek, and 7.4 miles usptream from mouth.

DRAINAGE AREA.--6,847 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals except 0600 June 22 to July 17; graph for June 22 and part of June 24, 25 reconstructed on basis of floodmark and of staff-gage readings for June 22-25 made at Milton, 3.5 miles upstream, by American Home Foods Corp. Datum of gage is 428.20 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 240,000 cfs and by slope-area measurement at 287,000 cfs, made at Watsontown. Records for June 23 to July 17 based on correlation with records for West Branch Susquehanna River at Williamsport (station 01551500).

MAXIMUMS.--June-July 1972: Discharge, about 300,000 cfs 0700 hours June 24 (gage height, 34.23 ft, from floodmark, backwater from Susquehanna River).
1936 to May 1972: Discharge, 287,000 cfs Mar. 19, 1936 (gage height, 32.1 ft, from floodmark, backwater from Susquehanna River).

REMARKS.--Flow regulated by six major reservoirs (combined capacity, 440,200 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	12,600	58,000	11...	6,360	27,000	21...	12,600	13,500
2....	12,000	50,000	12...	6,620	23,000	22...	105,000	11,900
3....	11,000	41,000	13...	6,150	18,000	23...	250,000	10,300
4....	9,650	33,000	14...	5,680	16,000	24...	285,000	8,990
5....	9,290	28,000	15...	5,640	14,000	25...	185,000	8,280
6....	9,000	26,000	16...	8,860	21,000	26...	110,000	8,210
7....	8,510	27,000	17...	10,100	22,000	27...	85,000	7,340
8....	8,280	26,000	18...	9,790	19,000	28...	74,000	6,690
9....	7,220	26,000	19...	8,950	16,700	29...	66,000	6,120
10...	6,520	26,000	20...	8,330	14,200	30...	64,000	5,510
						31...		5,040
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							46,900	20,100
RUNOFF, IN INCHES							7.64	3.39

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	3.66	7,760	6-23	1600	-	268,000	6-26	1200	-	109,000
6-21	0800	3.61	7,580	6-23	2400	-	289,000	6-26	2400	-	96,000
6-21	1200	3.83	8,360								
6-21	1600	4.78	11,700								
6-21	2400	8.49	30,300	6-24	0700	34.23	300,000	6-27	2400	-	79,000
				6-24	1800	-	276,000				
				6-24	2400	-	262,000				
6-22	0200	9.27	35,000					6-28	2400	-	74,000
6-22	0500	11.60	51,200								
6-22	1200	17.8	102,000	6-25	0800	26.9	209,000				
6-22	1800	23.0	151,000	6-25	1600	23.4	157,000	6-29	2400	-	66,000
6-22	2400	26.5	193,000	6-25	2400	20.6	128,000				
								6-30	2400	-	64,000
6-23	0600	-	230,000								

(246) 01553600 EAST BRANCH CHILLISQUAQUE CREEK NEAR WASHINGTONVILLE, PA.

(Formerly published as White Hall Creek near Washingtonville)

LOCATION.--Lat 41°04'57", long 76°39'17", Montour County, on right bank 30 ft upstream from highway bridge on Legislative Route 47017, 0.2 mile downstream from White Hall Creek, 0.7 mile upstream from Middle Branch Chillisquaque Creek, 2.3 miles upstream from mouth, and 2.5 miles northeast of Washingtonville.

DRAINAGE AREA.--9.48 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0315 hours June 22 to 2115 hours June 30. Altitude of gage is 530 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 350 cfs and extended to 4,390 cfs on basis of contracted-opening measurement at site 0.7 mile upstream, adjusted for intervening area. Daily record for June 22-30 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 4,390 cfs about 1500 hours June 22 (gage height, 11.11 ft, from floodmark in gage shelter).
1961 to May 1972: Discharge, 1,440 cfs Apr. 2, 1970 (gage height, 7.85 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	21	14	11...	2.6	6.3	21...	145	8.3
2....	14	8.9	12...	2.1	4.8	22...	1,400	5.3
3....	14	7.2	13...	2.1	4.2	23...	450	4.0
4....	11	5.8	14...	1.9	4.0	24...	103	3.1
5....	8.4	12	15...	1.8	4.2	25...	67	9.5
6....	6.1	9.5	16...	19	74	26...	65	4.9
7....	4.9	6.5	17...	9.0	86	27...	50	3.1
8....	3.7	13	18...	37	30	28...	33	2.4
9....	3.1	8.0	19...	32	16	29...	19	1.9
10...	4.9	10	20...	17	10	30...	13	1.7
						31...		1.5
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							85.4	12.3
RUNOFF,IN INCHES.....							10.0	1.49

(247) 01554000 SUSQUEHANNA RIVER AT SUNBURY, PA.

LOCATION.--Lat 40°50'04", long 76°49'37", Snyder County, on right bank at borough of Shamokin Dam, on grounds of Pennsylvania Power and Light Company generating plant, 1 mile downstream from Shamokin Creek, and 1.8 miles south of Sunbury.

DRAINAGE AREA.--18,300 sq mi, approximately (excluding that of Shamokin Creek).

GAGE-HEIGHT RECORD.--Stage-discharge relation defined by current-meter measurements below 290,000 cfs and extended on above basis of runoff at upstream stations.

MAXIMUMS.--June-July 1972: Discharge, 620,000 cfs 1300 hours June 24 (gage height, 35.80 ft).
1919 to May 1972: Discharge, 556,000 cfs March 19, 1936 (gage height, 34.65 ft, from floodmark.)
Flood of March 1865 reached stage of 22.5 ft at site 2.4 miles upstream at datum 12.05 ft higher.

REMARKS.--Flow regulated by six major and several smaller reservoirs (combined capacity, 480,000 acre-ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	9.86	27,300					6-26	2400	23.08	240,000
6-21	1700	9.76	26,400								
6-21	2400	11.27	41,200	6-24	1300	35.80	620,000				
				6-24	2400	34.98	587,000	6-27	0100	22.84	234,000
								6-27	2400	19.47	165,000
6-22	0400	13.10	62,900								
6-22	0800	17.17	124,000	6-25	0100	34.82	581,000				
6-22	2400	30.16	425,000	6-25	2400	29.92	418,000	6-28	0100	19.38	163,000
								6-28	2400	17.54	130,000
6-23	2400	35.25	598,000	6-26	0100	29.64	410,000				

(249) 01555000 PENNS CREEK AT PENNS CREEK, PA.

(Formerly published as Penn Creek at Penns Creek)

LOCATION.--Lat 40°52'00", long 77°02'55", Union County, on left bank 200 ft downstream from bridge on State Highway 104, 0.8 mile northeast of Penns Creek, and 2.9 miles upstream from Sweitzers Run.

DRAINAGE AREA.--301 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except June 1-19, July 3-31. Datum of gage is 506.72 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,000 cfs and by contracted-opening measurement at 34,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 34,600 cfs 0430 hours June 23 (gage height, 14.85 ft, from high-water mark in gage well).
1930 to May 1972: Discharge, 14,900 cfs Sept. 16, 1934 (gage height, 13.00 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,200	2,380	11...	290	470	21...	3,340	520
2....	940	1,470	12...	270	420	22...	10,900	470
3....	740	1,000	13...	320	390	23...	24,600	430
4....	620	800	14...	380	470	24...	9,960	400
5....	540	900	15...	290	400	25...	7,210	360
6....	480	920	16...	330	700	26...	5,700	330
7....	420	780	17...	440	900	27...	4,100	310
8....	380	660	18...	580	780	28...	3,220	320
9....	340	580	19...	640	700	29...	3,130	290
10...	310	520	20...	500	600	30...	3,170	270
						31...		260
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,840	639
RUNOFF,IN INCHES.....							10.54	2.45

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.57	368								
6-21	0700	2.70	420								
6-21	0830	3.11	616	6-23	0430	14.85	34,600	6-25	0200	9.04	7,940
6-21	1230	5.59	2,750	6-23	0600	14.76	33,600	6-25	2400	8.02	6,300
6-21	1530	8.03	5,680	6-23	2300	11.86	14,600				
6-21	2130	8.87	6,930	6-23	2400	11.70	14,100	6-26	0030	8.00	6,270
6-21	2400	8.85	6,900					6-26	2400	6.99	4,810
				6-24	0030	11.63	13,900				
6-22	1400	10.17	9,530	6-24	2100	9.04	7,940	6-27	0030	6.96	4,760
6-22	2330	13.19	20,900	6-24	2400	9.04	7,940	6-27	2400	5.96	3,460
6-22	2400	13.36	22,000								

(250) 01555500 EAST MAHANTANGO CREEK NEAR DALMATIA, PA.

LOCATION.--Lat 40°36'40", long 76°54'44", Northumberland County, on right bank at highway bridge, 2 miles upstream from mouth, and 3.2 miles south of Dalmatia.

DRAINAGE AREA.--162 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 0600 hours June 22 to 1230 hours June 29. Missing record for June 22 estimated on basis of high-water mark and hydrographic comparisons with nearby stations. Datum of gage is 400.50 ft above mean sea level (Pennsylvania Department of Transportation bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,000 cfs and by slope-area measurement at 69,900 cfs. Record for June 23-29 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 69,900 cfs about 1600 hours June 22 (gage height, 26.62 ft, from high-water mark in gage well).
1930 to May 1972: Discharge, 10,600 cfs Aug. 24, 1933 (gage height, 13.66 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	35,400	101,000	11...	23,500	45,500	21...	27,800	26,500
2....	40,200	99,100	12...	22,300	40,000	22...	209,000	25,500
3....	38,600	85,800	13...	21,200	34,000	23...	533,000	22,800
4....	37,800	69,400	14...	19,300	29,900	24...	609,000	20,100
5....	33,700	58,700	15...	17,600	27,800	25...	504,000	17,800
6....	33,000	56,500	16...	20,000	32,600	26...	325,000	16,600
7....	34,800	52,200	17...	21,700	46,500	27...	196,000	14,900
8....	32,300	48,200	18...	24,600	38,300	28...	146,000	13,300
9....	26,000	45,300	19...	32,900	32,200	29...	119,000	12,300
10...	23,900	44,300	20...	30,900	27,800	30...	110,000	11,200
						31...		10,600
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							112,000	38,900
RUNOFF,IN INCHES.....							6.80	2.45

(248) 01554500 SHAMOKIN CREEK NEAR SHAMOKIN, PA.

(Formerly published as Shamokin Creek at Weigh Scale)

LOCATION.--Lat 40°48'37", long 76°35'04", Northumberland County, on right bank at Weigh Scale, 1 mile downstream from Trout Run, 1.1 miles upstream from Bennys Run, and 2 miles northwest of Shamokin.

DRAINAGE AREA.--54.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 606.28 ft above mean sea level. Prior to Jan. 9, 1967, at site 0.4 mile upstream at datum 2.00 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 320 cfs and by slope-area measurement at 4,070 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,070 cfs 0900 hours June 22(gage height, 8.72 ft).
1940 to May 1972: Discharge, 3,120 cfs Aug. 27, 1962 (gage height, 5.00 ft, at site and datum then in use).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	182	375	11...	130	212	21...	193	161
2....	171	330	12...	124	204	22...	2,960	154
3....	178	305	13...	124	193	23...	2,080	148
4....	161	286	14...	122	186	24...	1,370	145
5....	154	290	15...	116	193	25...	1,050	174
6....	151	263	16...	132	216	26...	854	148
7....	148	245	17...	119	212	27...	698	135
8....	138	241	18...	138	178	28...	578	132
9....	138	241	19...	124	167	29...	484	127
10...	141	229	20...	113	161	30...	423	124
						31...		124
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							450	203
RUNOFF,IN INCHES.....							9.26	4.32

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.75	122					6-23	2400	5.36	1,610
6-21	0930	2.75	122	6-22	0045	3.55	473				
6-21	1400	2.80	135	6-22	0130	4.15	830				
6-21	1445	2.91	171	6-22	0330	6.14	2,160	6-24	0030	5.36	1,610
6-21	1530	2.92	174	6-22	0645	7.49	3,100	6-24	2400	4.71	1,170
6-21	1645	3.20	290	6-22	0900	8.72	4,070				
6-21	1715	3.48	434	6-22	0915	8.61	3,980				
6-21	1815	3.20	290	6-22	1245	8.23	3,670	6-25	0045	4.71	1,170
6-21	1930	3.19	286	6-22	1515	7.95	3,450	6-25	2400	4.33	938
6-21	2015	3.27	325	6-22	1800	7.86	3,380				
6-21	2230	3.30	340	6-22	2400	7.06	2,800				
6-21	2300	3.35	365					6-26	0045	4.33	938
6-21	2330	3.30	340					6-26	2400	4.05	770
6-21	2400	3.42	401	6-23	0015	6.95	2,730				
				6-23	0700	6.40	2,340				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	312	669	11...	106	250	21...	1,400	203
2....	224	544	12...	96	217	22...	39,000	189
3....	248	462	13...	100	197	23...	17,000	162
4....	194	426	14...	98	185	24...	4,200	147
5....	167	445	15...	89	177	25...	1,800	132
6....	148	445	16...	100	334	26...	1,300	128
7....	139	357	17...	131	653	27...	770	117
8....	124	312	18...	192	377	28...	700	108
9....	115	318	19...	291	293	29...	620	96
10...	120	275	20...	206	238	30...	840	90
						31...		90
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,360	279
RUNOFF,IN INCHES.....							16.26	1.98

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0400	2.05	174	6-22	1200	22.8	44,000				
6-21	1200	2.08	182	6-22	1600	26.62	69,900	6-25	0800	-	1,900
6-21	1400	2.35	266	6-22	2000	25.1	59,000	6-25	1600	-	1,550
6-21	1530	2.81	429	6-22	2400	22.2	40,500	6-25	2400	-	1,400
6-21	1730	5.17	1,730								
6-21	1800	6.47	2,710								
6-21	1900	7.96	3,980	6-23	0400	-	26,000	6-26	1000	-	1,300
6-21	2100	8.89	4,860	6-23	1200	-	13,600	6-26	2400	-	1,100
6-21	2400	9.85	5,820	6-23	2400	-	7,100				
								6-27	0800	-	880
6-22	0200	11.75	7,870	6-24	1200	-	3,900	6-27	1600	-	660
6-22	0400	14.66	12,900	6-24	2400	-	2,500	6-27	2400	-	440
6-22	0530	15.74	15,400								

(251) WICONISCO CREEK AT LYKENS, PA.

(Miscellaneous site)

LOCATION.--Lat 40°34'07", long 76°41'46", Dauphin County, upstream from bridge on Arch Street at Lykens.

DRAINAGE AREA.--29.0 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 18,700 cfs June 22.

(252) RATTLING CREEK AT LYKENS, PA.

(Miscellaneous site)

LOCATION.--Lat 40°33'52", long 76°41'57", Dauphin County, in city park upstream from Market Street at Lykens.

DRAINAGE AREA.--18.9 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 13,500 cfs June 22.

(253) 01555800 MCDONALD RUN NEAR EAST FREEDOM, PA.

(Crest-stage station)

LOCATION.--Lat 40°22'35", long 78°25'55", Blair County, at concrete culvert on U. S. Highway 220, 0.4 mile above mouth, and 1.5 miles north of East Freedom.

DRAINAGE AREA.--1.54 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,014.18 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 70 cfs and by slope-area measurement at 139 cfs.

MAXIMUMS.--June-July 1972: Discharge, 134 cfs June 23 (gage height, 3.63 ft).
1959 to May 1972: Discharge, 350 cfs Feb. 13, 1966 (gage height, 3.38 ft).

(254) 01556000 FRANKSTOWN BRANCH JUNIATA RIVER AT WILLIAMSBURG, PA.

LOCATION.--Lat 40°27'47", long 78°12'00", Blair County, on left bank 10 ft downstream from highway bridge at Williamsburg, 2.5 miles upstream from Clover Creek.

DRAINAGE AREA.--291 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 831.78 ft above mean sea level (Penn Central Railroad bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements; prior to 1972 relation defined by current-meter measurements below 7,300 cfs and by slope-area measurement at 47,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,400 cfs 1000 hours June 23 (gage height, 18.39 ft). 1889 to May 1972: Discharge, 47,600 cfs Mar. 18, 1936 (gage height, 18.58 ft, from floodmark in gage shelter).
Flood of June 1, 1889, reached a stage of 19.1 ft, from floodmark (discharge, about 35,500 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	464	890	11...	275	597	21...	1,480	266
2....	352	762	12...	253	514	22...	9,860	247
3....	435	1,190	13...	340	480	23...	14,700	236
4....	459	977	14...	378	484	24...	7,170	249
5....	610	1,290	15...	284	534	25...	3,480	224
6....	424	1,270	16...	864	565	26...	2,210	209
7....	394	1,000	17...	625	469	27...	1,540	207
8....	343	839	18...	424	408	28...	1,150	216
9....	314	718	19...	396	307	29...	1,030	193
10...	314	731	20...	335	313	30...	1,390	182
						31...		182
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,740	540
RUNOFF, IN INCHES							6.68	2.14

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.22	330					6-25	0015	10.06	4,600
6-21	1045	3.58	449					6-25	2400	7.72	2,630
6-21	1300	4.16	646	6-23	1000	18.39	16,400				
6-21	1500	5.67	1,340	6-23	1745	17.59	14,700				
6-21	1930	8.65	3,360	6-23	2400	15.55	11,400	6-26	0015	7.72	2,630
6-21	2400	9.73	4,300					6-26	2400	6.51	1,810
				6-24	0015	15.43	11,200				
6-22	0645	11.92	6,550	6-24	1545	11.30	5,870	6-27	0015	6.49	1,790
6-22	2300	17.83	15,200	6-24	2400	10.10	4,640	6-27	2400	5.66	1,290
6-22	2345	17.90	15,300								
6-22	2400	17.88	15,300								

(255) 01556400 SANDY RUN NEAR BELLWOOD, PA.

(Crest-stage station)

LOCATION.--Lat 40°33'47", long 78°20'35", Blair County, at bridge on private road, 0.6 mile above mouth, and 2.5 miles south of Bellwood.

DRAINAGE AREA.--5.58 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,070 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 90 cfs and by contracted-opening measurement at 628 cfs.

MAXIMUMS.--June-July 1972: Discharge, 628 cfs June 22 (gage height, 5.75 ft, from floodmark). 1962 to May 1972: Discharge, 887 cfs (revised) Sept. 28, 1967 (gage height, 6.25 ft).

(256) 01556500 LITTLE JUNIATA RIVER AT TIPTON, PA.

(Crest-stage station)

LOCATION.--Lat 40°37'40", long 78°17'38", Blair County, at Tipton, 100 ft below bridge on State Highway 220, and 150 ft below Tipton Run.

DRAINAGE AREA.--93.7 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Datum of gage is 946.76 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 6,140 cfs June 23 (gage height, 9.24 ft). 1946 to May 1972: Discharge, 5,700 cfs Nov. 25, 1950 (gage height, 9.06 ft).

(259) 01558000 LITTLE JUNIATA RIVER AT SPRUCE CREEK, PA.

LOCATION.--Lat 40°36'45", long 78°08'27", Huntingdon County, on right bank 150 ft downstream from Penn Central Railroad Bridge, 0.5 mile northwest of village of Spruce Creek, and 0.5 mile upstream from Spruce Creek.

DRAINAGE AREA.--220 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except July 11-13, 21-27. Datum of gage is 751.15 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,600 cfs and by slope-area measurment at 23,100 cfs. Record for July 11-13, 21-27 estimated on basis of weather records and by correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 28,600 cfs 0130 hours June 23 (gage height, 16.98 ft). 1936 to May 1972: Discharge, 39,800 cfs Mar. 18, 1936 (gage height, about 19.1 ft, from floodmarks 175 ft downstream).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	506	1,040	11...	252	520	21...	863	280
2....	413	860	12...	235	450	22...	12,500	250
3....	441	880	13...	654	390	23...	21,100	230
4....	472	754	14...	507	389	24...	6,190	230
5....	556	920	15...	389	410	25...	3,420	240
6....	408	1,010	16...	640	431	26...	2,330	220
7....	361	905	17...	590	356	27...	1,680	210
8....	315	794	18...	495	319	28...	1,300	208
9....	291	691	19...	451	298	29...	1,270	193
10...	282	641	20...	388	278	30...	1,370	185
						31...		183
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							2,020	476
RUNOFF, IN INCHES							10.26	2.50

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.91	343	6-22	1630	14.62	18,400	6-24	2400	8.39	4,300
6-21	1130	3.12	413	6-22	2400	16.82	27,800				
6-21	1400	3.57	593								
6-21	1630	4.96	1,270					6-25	0030	8.36	4,260
6-21	1830	5.77	1,780	6-23	0130	16.98	28,600	6-25	2400	6.98	2,750
6-21	2330	5.66	1,700	6-23	1630	14.33	17,400				
6-21	2400	5.82	1,810	6-23	2400	11.65	9,900				
								6-26	0030	6.96	2,730
								6-26	2400	5.98	1,930
6-22	0430	7.93	3,740	6-24	0030	11.49	9,580				
6-22	1030	11.64	9,880	6-24	0930	9.67	6,170				

(260) JUNIATA RIVER AT WARRIOR RIDGE DAM, PA.

(Miscellaneous site)

LOCATION.--Lat 40°32'22", long 78°02'06", Huntingdon County, at Warrior Ridge Dam 2.5 miles north of Huntingdon.

DRAINAGE AREA.--806 sq mi.

DISCHARGE RECORD.--Peak discharge by computation of flow over dam.

MAXIMUM.--June-July 1972: Discharge, 53,700 cfs about 0630 hours June 23.

REMARKS.--Flow regulated by pool at Warrior Ridge Dam (total capacity, 9,200 acre-ft).

(261) 01559000 JUNIATA RIVER AT HUNTINGDON, PA.

(Formerly published as Frankstown Branch Juniata River at Huntingdon)

LOCATION.--Lat 40°29'05", long 78°01'09", Huntingdon County, on right bank 170 ft downstream from Smithfield Bridge at Huntingdon, and 0.8 mile upstream from Standing Stone Creek.

DRAINAGE AREA.--816 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage recorder graph. Datum of gage is 599.69 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 20,000 cfs and by computation of flow over dam at 81,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 57,000 cfs 0715 hours June 23 (gage height, 20.03 ft). 1896-98, 1900-22, 1924-29, 1931-38, 1942 to May 1972: Discharge, 81,000 cfs Mar. 18, 1936 (gage height, 21.87 ft, from floodmark).

(257) 01557100 SCHELL RUN AT TYRONE, PA.

(Crest-stage station)

LOCATION.--Lat 40°40'00", long 78°15'00", Blair County, 0.2 mile above U. S. Highway 220 between 5th Street and Shippen Street, Tyrone.

DRAINAGE AREA.--1.68 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 919.11 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 40 cfs and by slope-area measurements at 78 and 186 cfs.

MAXIMUMS.--June-July 1972: Discharge, 220 cfs June 22 (gage height, 2.68 ft).
1958 to May 1972: Discharge, 225 cfs July 23, 1969 (gage height, 3.00 ft).

(258) 01557500 BALD EAGLE CREEK AT TYRONE, PA.

(Formerly published as South Bald Eagle Creek at Tyrone)

LOCATION.--Lat 40°41'01", long 78°14'02", Blair County, on left bank, 0.2 mile upstream from plant of West Virginia Pulp and Paper Co., at Tyrone, 0.2 mile upstream from Laurel Run, and 1.3 miles upstream from mouth.

DRAINAGE AREA.--44.1 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, except June 1-13 and July 4-19, and water-stage-recorder graph. Datum of gage is 921.80 ft above mean sea level. Prior to Dec. 1, 1952 at site 0.5 mile downstream at datum 17.99 ft lower.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs and by slope-area measurement at 3,500 cfs. Prior to Dec. 1, 1952, stage-discharge relation extended above 2,100 cfs on basis of contracted-opening measurement at 5,140 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,050 cfs 2245 hours June 22 (gage height, 6.66 ft).
1945 to May 1972: Discharge, 5,140 cfs Nov. 25, 1950 (gage height, 7.5 ft, from flood-marks, at site and datum then in use).
Flood of Mar. 17-18, 1936, reached a stage of about 15 ft (prior site and datum).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	88	290	11...	57	120	21...	189	42
2....	73	240	12...	52	100	22...	2,780	39
3....	93	220	13...	165	84	23...	2,800	35
4....	109	190	14...	119	70	24...	1,200	32
5....	108	220	15...	100	72	25...	740	35
6....	88	230	16...	131	76	26...	470	32
7....	80	210	17...	105	58	27...	350	30
8....	70	170	18...	93	49	28...	270	30
9....	66	150	19...	85	47	29...	320	28
10...	64	140	20...	78	45	30...	360	26
						31...		25
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							377	101
RUNOFF, IN INCHES							9.53	2.64

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	0.87	82	6-22	2145	6.51	4,780	6-24	1645	3.70	1,170
6-21	1045	0.98	100	6-22	2245	6.66	5,050	6-24	2400	3.52	1,040
6-21	1300	1.34	168	6-22	2400	6.50	4,760				
6-21	1515	1.83	297								
6-21	2200	1.83	297					6-25	0030	3.51	1,030
6-21	2400	2.46	521	6-23	0030	6.41	4,610	6-25	2400	3.07	749
				6-23	0800	5.53	3,210				
				6-23	1930	5.04	2,510				
6-22	0215	2.89	655	6-23	2400	4.57	1,950	6-26	0045	3.06	743
6-22	0645	4.08	1,470					6-26	2400	2.72	577
6-22	1030	4.67	2,060								
6-22	1330	5.73	3,510	6-24	0015	4.53	1,900				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,790	3,160	11...	860	1,950	21...	2,820	1,030
2....	1,300	2,640	12...	810	1,700	22...	26,600	959
3....	1,360	3,240	13...	1,280	1,560	23...	50,400	913
4....	1,340	3,030	14...	1,480	1,490	24...	23,500	899
5....	1,790	3,090	15...	1,190	1,530	25...	11,700	880
6....	1,310	3,700	16...	2,170	1,900	26...	7,480	813
7....	1,180	3,160	17...	2,340	1,490	27...	5,240	795
8....	1,050	2,690	18...	1,470	1,330	28...	4,050	803
9....	962	2,370	19...	1,400	1,170	29...	3,590	779
10...	926	2,240	20...	1,210	1,140	30...	4,250	741
						31...		726
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							5,560	1,740
RUNOFF, IN INCHES							7.60	2.46

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.47	1,150	6-23	0715	20.03	57,000				
6-21	0845	2.62	1,300	6-23	1200	19.51	53,900	6-26	0015	7.54	8,830
6-21	1145	3.07	1,780	6-23	2400	16.41	37,600	6-26	2400	6.17	6,120
6-21	1715	4.79	3,960								
6-21	2145	5.85	5,560								
6-21	2400	6.79	7,300	6-24	0015	16.21	36,600	6-27	0015	6.16	6,100
				6-24	1600	11.65	19,100	6-27	2400	5.19	4,530
				6-24	2400	10.21	15,300				
6-22	0600	9.37	13,200								
6-22	1315	13.80	26,700					6-28	0015	5.18	4,510
6-22	2400	18.60	48,500	6-25	0015	10.18	15,200	6-28	2400	4.56	3,630
				6-25	2400	7.55	8,860				

(262) CROOKED CREEK NEAR HUNTINGDON, PA.

(Miscellaneous site)

LOCATION.--Lat 40°28'34", long 78°01'52", Huntingdon County, 0.8 mile upstream from U.S. Highway 22 and 1 mile southwest of Huntingdon.

DRAINAGE AREA.--26.4 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 4,540 cfs June 22.

(263) 01559700 BUFFALO RUN TRIBUTARY NEAR MANNS CHOICE, PA.

LOCATION.--Lat 39°59'40", long 78°37'08", Bedford County, at left downstream end of bridge on State Highway 96, 2,000 ft upstream from mouth, 2.3 miles south of Manns Choice, and 11 miles southwest of Bedford.

DRAINAGE AREA.--5.28 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,230 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 150 cfs, by slope-area measurement at 528 cfs, and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 528 cfs 0345 hours June 22 (gage height, 3.33 ft).
1962 to May 1972: Discharge, 1,010 cfs Sept. 28, 1967 (gage height, 4.26 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4.2	13	11...	2.0	3.2	21...	42	1.6
2....	3.9	11	12...	1.7	3.2	22...	210	1.6
3....	3.5	9.2	13...	1.7	3.2	23...	213	1.4
4....	3.2	7.2	14...	1.9	2.6	24...	77	1.4
5....	2.8	8.7	15...	1.6	2.3	25...	33	1.3
6....	2.6	7.2	16...	4.6	2.3	26...	19	1.2
7....	2.5	5.3	17...	2.3	2.1	27...	13	1.2
8....	2.2	4.6	18...	2.0	2.0	28...	9.2	1.4
9....	2.0	4.1	19...	2.1	1.8	29...	26	1.3
10...	2.2	3.7	20...	1.8	1.8	30...	16	1.3
						31...		1.3
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							24	3.7
RUNOFF, IN INCHES							4.99	0.80

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	0.90	5.8					6-23	1245	2.62	228
6-21	0815	0.91	6.0	6-22	0515	3.20	460	6-23	1300	2.42	172
6-21	0930	1.08	10	6-22	0630	2.97	356	6-23	1330	2.56	210
6-21	0945	1.12	12	6-22	0700	2.67	244	6-23	1600	2.40	167
6-21	1100	1.67	41	6-22	0915	2.35	156	6-23	1630	2.34	153
6-21	1130	2.00	80	6-22	1915	2.17	117	6-23	2045	2.28	140
6-21	1330	1.96	74	6-22	2200	2.33	151	6-23	2400	2.29	142
6-21	1515	1.76	49	6-22	2300	2.45	180				
6-21	1900	1.66	40	6-22	2400	2.65	238				
6-21	2145	1.86	60					6-24	0215	2.29	142
6-21	2245	2.22	117					6-24	0330	2.19	121
6-21	2400	2.71	241	6-23	0315	2.63	232	6-24	0930	1.91	74
				6-23	0430	2.72	261	6-24	2100	1.69	47
				6-23	0615	2.67	244	6-24	2400	1.66	44
6-22	0115	2.92	335	6-23	0715	2.69	251				
6-22	0145	3.10	412	6-23	0815	2.91	331				
6-22	0230	3.20	460	6-23	0845	2.85	308	6-25	0100	1.65	44
6-22	0345	3.33	528	6-23	0900	2.96	352	6-25	2400	1.38	25
6-22	0400	3.24	481	6-23	0945	2.86	312				
				6-23	1015	2.89	323				
				6-23	1030	2.72	261	6-26	0115	1.37	24
				6-23	1200	2.63	232	6-26	2400	1.17	15

(264) 01560000 DUNNING CREEK AT BELDEN, PA.

LOCATION.--Lat 40°04'18", long 78°29'34", Bedford County, on left bank 10 ft upstream from highway bridge, 0.8 mile southeast of Belden, 3.8 miles north of Bedford, and 4.3 miles above mouth.

DRAINAGE AREA.--172 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,051.15 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,000 cfs and by contracted-opening measurement at 12,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,000 cfs 1230 hours June 23 (gage height, 12.67 ft).
1940 to May 1972: Discharge, 6,430 cfs Mar. 1, 1954 (gage height, 11.43 ft).
Flood of Mar. 18, 1936, reached a stage of 17.8 ft (backwater from Raystown Branch Juniata River), from floodmarks (discharge, about 16,900 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	199	548	11...	80	228	21...	1,750	73
2....	156	412	12...	74	191	22...	7,180	67
3....	199	390	13...	80	185	23...	9,140	61
4....	156	344	14...	106	150	24...	4,290	55
5....	146	476	15...	82	135	25...	1,750	52
6....	126	515	16...	248	153	26...	1,050	48
7....	120	455	17...	203	121	27...	709	47
8....	104	395	18...	114	110	28...	523	50
9....	94	316	19...	99	92	29...	581	43
10...	92	278	20...	82	82	30...	913	40
						31...		41
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,010	198
RUNOFF,IN INCHES.....							6.58	1.33

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.81	84					6-25	0030	7.31	2,430
6-21	0900	1.89	104					6-25	2300	4.85	1,290
6-21	1030	2.06	153	6-23	0530	11.42	8,060	6-25	2400	4.78	1,260
6-21	1130	2.63	378	6-23	1230	12.67	12,000				
6-21	1230	3.63	831	6-23	2400	11.11	7,180				
6-21	1700	8.36	3,150					6-26	0030	4.75	1,250
6-21	2400	10.80	6,400					6-26	2400	3.60	825
				6-24	0030	11.04	6,990				
				6-24	1830	8.49	3,250				
6-22	1100	11.50	8,300	6-24	2400	7.39	2,470	6-27	0030	3.58	817
6-22	1500	11.37	7,910					6-27	2400	3.00	585
6-22	2400	10.70	6,170								

(267) 01563200 RAYSTOWN BRANCH JUNIATA RIVER BELOW RAYSTOWN DAM NEAR HUNTINGDON, PA.

LOCATION.--Lat 40°25'44", long 77°59'29", Huntingdon County, on left bank 1 mile downstream from Raystown Dam, 4 miles south of Huntingdon, and 4.7 miles upstream from mouth.

DRAINAGE AREA.--960 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 597.36 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 23,300 cfs 1400 hours June 23 (gage height, 18.22 ft).
1970 to May 1972: Discharge, 24,100 cfs April 3, 1970 (gage height, 18.54 ft).

REMARKS.--Flow regulated by Raystown Reservoir(under construction).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,410	13,100	11...	568	1,220	21...	1,270	651
2....	1,490	9,220	12...	541	1,090	22...	10,700	595
3....	1,140	3,520	13...	531	969	23...	19,700	546
4....	1,030	2,170	14...	540	892	24...	18,900	512
5....	1,100	1,830	15...	576	853	25...	18,900	486
6....	1,020	1,850	16...	689	1,010	26...	18,500	446
7....	867	2,000	17...	1,420	1,160	27...	17,800	412
8....	745	1,810	18...	1,630	992	28...	17,000	402
9....	665	1,550	19...	1,240	833	29...	16,000	394
10...	610	1,370	20...	922	745	30...	14,700	382
						31...		374
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							5,740	1,720
RUNOFF,IN INCHES.....							6.67	2.07

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.63	838	6-23	1400	18.22	23,300	6-25	0115	16.54	19,100
6-21	1145	4.77	922	6-23	1415	17.75	22,100	6-25	2400	16.42	18,800
6-21	1945	6.03	1,910	6-23	1700	16.61	19,300				
6-21	2400	7.06	2,870	6-23	1745	17.32	21,100				
				6-23	2400	16.70	19,500	6-26	0100	16.43	18,800
								6-26	2400	16.18	18,200
6-22	0500	9.24	5,450								
6-22	1315	13.54	12,900	6-24	0215	16.53	19,100				
6-22	2400	15.55	16,900	6-24	0230	15.12	16,000	6-27	0015	16.20	18,300
				6-24	0330	16.39	18,700	6-27	2400	15.84	17,500
				6-24	0345	17.81	22,300				
6-23	1000	16.73	19,600	6-24	0600	16.28	18,500				
6-23	1045	17.49	21,500	6-24	1245	15.83	17,500	6-28	0045	15.84	17,500
6-23	1130	16.77	19,700	6-24	2400	16.45	18,900	6-28	2400	15.40	16,600
6-23	1200	17.61	21,800								
6-23	1330	16.03	17,900								

(268) 01563500 JUNIATA RIVER AT MAPLETON DEPOT, PA.

LOCATION.--Lat 40°23'32", long 77°56'07", Huntingdon County, on right bank 0.25 mile downstream from Scrub Run, and 0.3 mile downstream from bridge on State Highway 655 at Mapleton Depot.

DRAINAGE AREA.--2,030 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, except 1730 hours June 23 to 1000 hours June 25, and water-stage-recorder graph. Datum of gage is 557.31 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 39,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 125,000 cfs 1000 hours June 23 (gage height, 33.07 ft).
1936 to May 1972: Discharge, 145,000 cfs Mar. 18, 1936 (gage height, 38.2 ft, from floodmark).

REMARKS.--Flow regulated by Raystown Branch Reservoir (capacity, 9,200 acre-ft).

(265) 01562000 RAYSTOWN BRANCH JUNIATA RIVER AT SAXTON, PA.

LOCATION.--Lat 40°12'57", long 78°15'56", Bedford County, on left bank, 500 ft downstream from bridge on State Highway 913, 0.5 mile west of Saxton, and 1.5 miles upstream from Shoup Run.

DRAINAGE AREA.--756 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1415 hours June 24 to July 10, for which graph constructed from twice-daily telemark readings of gage. Datum of gage is 795.77 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurement below 17,000 cfs and by slope-area measurement at 80,500 cfs.

MAXIMUMS.-- June-July 1972: Discharge, 40,200 cfs 2230 hours June 22 (gage height, 17.74 ft.)
1889 to May 1972: Discharge, 80,500 cfs March 18, 1936 (gage height, 24.54 ft, from high-water mark in gage house.)

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,340	2,700	11...	417	872	21...	2,560	449
2....	826	2,020	12...	388	772	22...	32,100	420
3....	731	1,670	13...	373	712	23...	38,100	392
4....	701	1,530	14...	386	696	24...	25,600	364
5....	631	1,690	15...	432	640	25...	10,100	344
6....	599	1,600	16...	556	828	26...	5,820	326
7....	532	1,520	17...	1,180	694	27...	3,870	318
8....	492	1,300	18...	841	606	28...	2,750	315
9....	444	1,170	19...	602	558	29...	2,100	309
10...	430	992	20...	534	489	30...	3,300	303
						31...		298
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							4,620	868
RUNOFF,IN INCHES							6.82	1.32

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.96	497								
6-21	0945	2.04	552	6-22	1200	16.90	36,000	6-25	0800	9.7	11,000
6-21	1315	2.40	832	6-22	2230	17.74	40,200	6-25	2400	7.6	7,300
6-21	1330	2.95	1,340	6-22	2400	17.73	40,200				
6-21	1600	4.15	2,590								
6-21	2045	7.00	6,350					6-26	0800	6.8	6,100
6-21	2145	7.68	7,440	6-23	0015	17.73	40,200	6-26	2400	5.9	4,800
6-21	2245	8.99	9,710	6-23	2400	16.89	36,000				
6-21	2400	9.55	10,800								
								6-27	2400	4.7	3,200
				6-24	0400	16.55	34,200				
6-22	0245	11.91	15,900	6-24	1400	14.26	24,100				
6-22	0315	13.29	20,300	6-24	2400	11.4	14,600	6-28	2400	3.95	2,360
6-22	0700	15.69	30,000								

(266) 01563000 RAYSTOWN BRANCH JUNIATA RIVER NEAR HUNTINGDON, PA.

(Gaging station, discontinued 1971)

LOCATION.--40°25'35", long 78°01'47", Huntingdon County, 5 ft downstream from left abutment of highway bridge at Hawns Bridge, 6 miles south of Huntingdon, and 9 miles upstream from mouth.

DRAINAGE AREA.--957 sq mi.

GAGE-HEIGHT RECORD.--Peak stage only.

DISCHARGE RECORD.--Peak discharge by correlation with records for Raystown Branch Juniata River near Saxton (station 01562000). Prior to 1972, stage-discharge relation defined by current-meter measurements below 16,000 cfs and by computation of flow over dam at 87,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, about 48,000 cfs about 1200 hours June 23 (elevation, 725.2 ft, backwater from new Raystown Dam, from high-water mark surveyed by Corps of Engineers).
1936 to May 1972: Discharge, 87,000 cfs March 18, 1936 (gage height, 31.0 ft; elevation 651.1 ft).

REMARKS.--Flow regulated prior to 1972 by Raystown Dam, 0.7 mile upstream, and since 1971 also regulated by new dam 3.6 miles downstream.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,830	16,900	11...	1,720	3,620	21...	4,890	1,980
2....	3,350	12,800	12...	1,600	3,130	22...	44,000	1,790
3....	3,000	7,510	13...	1,960	2,840	23...	115,000	1,660
4....	2,790	5,670	14...	2,680	2,660	24...	62,200	1,580
5....	3,440	5,140	15...	2,110	2,550	25...	35,600	1,520
6....	2,820	6,230	16...	3,630	4,000	26...	28,500	1,410
7....	2,480	5,860	17...	4,910	3,730	27...	24,700	1,330
8....	2,180	4,930	18...	3,810	2,930	28...	22,200	1,330
9....	1,960	4,250	19...	3,280	2,440	29...	20,300	1,270
10...	1,840	4,070	20...	2,720	2,240	30...	20,000	1,210
						31...		1,190
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							14,500	3,860
RUNOFF,IN INCHES							7.94	2.19

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.66	2,490	6-23	1000	33.07	125,000	6-25	0100	18.75	40,700
6-21	1045	4.92	2,800	6-23	1430	32.56	122,000	6-25	2400	16.31	30,900
6-21	1530	6.78	5,410	6-23	2400	29.20	98,100				
6-21	2045	8.78	9,100								
6-21	2400	9.52	10,700					6-26	0100	16.25	30,700
				6-24	0100	28.15	91,600	6-26	2400	15.08	26,200
				6-24	1400	21.80	55,700				
6-22	0915	15.92	29,400	6-24	2400	18.91	41,300				
6-22	2400	29.45	99,800					6-27	0100	15.06	26,200
								6-27	2400	14.09	23,300

(269) 01563800 ELDERS BRANCH NEAR HUSTONTOWN, PA.

(Crest-stage station)

LOCATION.--Lat 40°05'20", long 78°02'55", Fulton County, at timber bridge on gravel road, 2.2 miles above mouth, and 5 miles northeast of Hustontown.

DRAINAGE AREA.--3.46 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 910 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 80 cfs, by slope-area measurement at 106 cfs, and by contracted-opening measurement at 547 cfs.

MAXIMUMS.--June-July 1972: Discharge, 540 cfs June 22 (gage height, 8.60 ft).
1960 to May 1972: Discharge, 294 cfs (revised) Oct. 26, 1967 (gage height, 7.23 ft).

(270) 01564500 AUGHWICK CREEK NEAR THREE SPRINGS, PA.

LOCATION.--Lat 40°12'45", long 77°55'32", Huntingdon County, on right bank 10 ft downstream from bridge on State Highway 994, 300 ft upstream from East Broad Top Railroad Bridge, 350 ft upstream from Three Springs Creek, and 3.5 miles northeast of village of Three Springs. Records include flow of Three Springs Creek.

DRAINAGE AREA.--205 sq mi, includes that of Three Springs Creek.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 618.65 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,900 cfs and by contracted-opening measurement at 20,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 23,700 cfs 1600 hours June 22 (gage height, 19.20 ft).
1939 to May 1972: Discharge, 20,600 cfs Nov. 25, 1950 (gage height, 18.04 ft).
Flood of June 1, 1889 reached a stage of about 19.3 ft, from floodmark.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	680	574	11...	130	170	21...	1,980	127
2....	419	418	12...	113	147	22...	17,600	112
3....	433	352	13...	114	132	23...	18,700	91
4....	331	310	14...	133	123	24...	7,110	79
5....	314	348	15...	119	156	25...	2,780	70
6....	239	410	16...	403	278	26...	1,520	62
7....	210	314	17...	961	317	27...	915	57
8....	174	254	18...	390	359	28...	674	58
9....	153	220	19...	386	204	29...	1,320	58
10...	146	193	20...	288	154	30...	825	53
						31...		52
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,990	202
RUNOFF,IN INCHES							10.81	1.13

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	4.30	275					6-25	0030	9.16	3,680
6-21	0800	4.48	334					6-25	2400	7.39	1,980
6-21	1100	5.03	542	6-23	0930	18.23	21,100				
6-21	1330	6.05	995	6-23	1600	17.13	18,300				
6-21	1730	8.50	3,010	6-23	2400	14.84	12,800	6-26	0030	7.36	1,950
6-21	2400	11.98	7,420					6-26	2400	6.26	1,120
				6-24	0030	14.68	12,500				
6-22	1100	17.52	19,300	6-24	1430	10.87	5,760	6-27	0030	6.24	1,100
6-22	1600	19.20	23,700	6-24	2400	9.22	3,740	6-27	2400	5.56	762
6-22	1730	18.94	23,000								
6-22	2400	17.85	20,100								

(271) 01565000 KISHACOQUILLAS CREEK AT REEDSVILLE, PA.

(Gaging station, discontinued 1970)

LOCATION.--Lat 40°39'17", long 77°35'00", Mifflin County, on left bank 150 ft downstream from bridge on old U. S. Highway 322, 1 mile southeast of Reedsville, and 1 mile downstream from Honey Creek.

DRAINAGE AREA.--164 sq mi.

GAGE-HEIGHT RECORD.-- Peak stage only. Datum is 551.23 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2400 cfs by slope-area measurement at 9,830 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,400 cfs June 23 (gage height, 16.17 ft, from high-water mark in gage house).
1940 to May 1972: Discharge, 9,830 cfs November 25, 1950 (gage height, 13.12 ft).

(272) 01565700 LITTLE LOST CREEK AT OAKLAND MILLS, PA.

LOCATION.--Lat 40°36'19", long 77°18'42", Juniata County, on right bank at bridge on Legislative Route 34007, 0.8 mile south of Oakland Mills, and 1 mile upstream from mouth.

DRAINAGE AREA.--6.52 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 551.17 ft above mean sea level.

DISCHARGE RECORD.-- Stage-discharge relation defined by current-meter measurements below 250 cfs and above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 468 cfs 1630 hours June 22 (gage height, 8.41 ft).
1960 to May 1972: Discharge, 288 cfs April 2, 1970 (gage height, 7.33 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	11	41	11...	4.1	13	21...	212	10
2....	7.8	26	12...	3.9	12	22...	339	9
3....	6.9	24	13...	4.6	12	23...	256	1
4....	6.2	20	14...	4.4	11	24...	96	8.7
5....	6.2	30	15...	3.9	11	25...	62	8.2
6....	5.5	25	16...	12	21	26...	46	7.8
7....	5.5	20	17...	7.4	16	27...	29	7.8
8....	4.9	17	18...	6.5	12	28...	40	8.2
9....	4.6	15	19...	5.5	11	29...	48	8.2
10...	4.4	14	20...	4.6	11	30...	59	7.8
						31...		7.8
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							44	15
RUNOFF,IN INCHES.....							7.45	2.60

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
		Suspended sediment			Suspended sediment	
	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day
1	8,540	70	1,510	25,300	60	4,100
2	7,070	56	1,070	21,100	39	2,220
3	5,760	35	544	16,400	34	1,510
4	5,050	27	368	11,700	60	1,900
5	4,640	30	376	9,830	49	1,300
6	5,020	43	583	10,400	59	1,660
7	4,310	35	407	11,200	57	1,720
8	3,820	31	320	9,890	40	1,070
9	3,420	21	194	8,420	31	705
10	3,140	17	144	8,060	40	870
11	2,930	10	79	7,520	36	731
12	2,770	8	60	6,510	28	492
13	2,720	9	66	5,640	20	305
14	3,050	15	124	5,790	32	500
15	2,790	20	205	5,000	20	270
16	4,100	37	410	7,490	120	2,430
17	8,060	160	3,480	14,800	268	11,100
18	8,510	150	3,450	9,740	85	2,240
19	6,800	70	1,290	7,040	35	665
20	5,530	50	747	5,700	29	446
21	10,400	179	7,920	4,970	24	322
22	61,200	305	57,100	4,340	15	176
23	165,000	820	365,000	3,900	12	126
24	162,000	450	197,000	3,570	11	106
25	81,900	150	33,200	3,290	10	89
26	47,700	95	12,200	3,070	9	75
27	37,200	73	7,330	2,890	8	62
28	31,000	63	5,270	2,720	6	44
29	27,800	55	4,130	2,610	6	42
30	28,200	61	4,640	2,520	7	48
31	-	-	-	2,410	7	46
Total	-	-	709,317	-	-	37,370
Mean	25,050	-	-	7,865	-	-
Inches	8.33	-	-	2.70	-	-
Ac-ft	1,490,000	-	465	483,600	-	25

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second
June 21					June 25				
0200	5.18	5,020	48	0.008	0100	26.60	117,000	210	0.77
1300	5.43	5,730	85	.02	2000	18.67	62,000	142	.28
1600	6.29	8,270	285	.07	2400	17.78	56,700	123	.22
1700	8.10	14,000	340	.15					
1900	9.65	19,200	440	.26	June 26				
2400	12.01	28,000	335	.29	0100	17.61	55,700	119	.21
					2400	14.94	41,300	80	.10
June 22									
1000	15.65	44,800	198	.28	June 27				
1400	17.92	57,500	260	.47	0100	14.86	40,900	77	.10
2400	27.15	121,000	540	2.0	2400	13.29	33,500	66	.07
June 23					June 28				
1600	33.44	181,000	980	5.5	0100	13.23	33,200	65	.07
2200	33.97	187,000	840	4.9	2400	12.26	29,100	58	.05
2300	33.93	187,000	815	4.8					
2400	33.88	186,000	780	4.5	June 29				
					0100	12.24	29,000	58	.05
June 24					2400	12.10	28,400	53	.05
0100	33.85	186,000	745	4.3					
2400	27.11	121,000	225	.85					

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.49	6.1	6-21	2400	7.10	254	6-24	0015	6.26	148
6-21	0445	4.50	6.5					6-24	0830	5.79	99
6-21	0530	4.55	8.6					6-24	2400	5.44	68
6-21	0600	4.62	12	6-22	0800	7.26	277				
6-21	0630	4.76	20	6-22	1400	7.89	376				
6-21	0700	5.05	39	6-22	1630	8.41	468	6-25	0600	5.54	75
6-21	0730	5.82	102	6-22	1745	8.35	457	6-25	0915	5.46	68
6-21	0900	6.61	188	6-22	2400	7.81	363	6-25	2200	5.25	51
6-21	1130	7.04	246					6-25	2400	5.36	60
6-21	1245	7.61	331								
6-21	1400	8.02	398	6-23	0130	7.82	364				
6-21	1430	8.38	462	6-23	2400	6.28	150	6-26	0145	5.44	65
6-21	1500	8.26	441					6-26	0415	5.33	56
6-21	2315	7.16	262					6-26	2400	5.03	34

(273) 01565920 LICK RUN NEAR EAST WATERFORD, PA.

(Crest-stage station)

LOCATION.--Lat 40°21'15", long 77°38'55", Juniata County, at culvert on L.R. 34070, 0.7 mile above mouth, and 1.5 miles southwest of East Waterford.

DRAINAGE AREA.--8.38 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 690 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 125 cfs, by contracted-opening measurement at 210 cfs, and by computation of flow through culvert at 1,850 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,850 cfs June 22 (gage height, 9.82 ft); 1,870 cfs July 16 (gage height, 9.85 ft).
1962 to May 1972: Discharge, 340 cfs (revised) Feb. 13, 1966 (gage height, 9.33 ft, backwater from ice).

(274) 01567000 JUNIATA RIVER AT NEWPORT, PA.

LOCATION.--Lat 40°28'42", long 77°07'46", Perry County, on right bank at downstream side of highway bridge at Newport, 1,000 ft upstream from Little Buffalo Creek.

DRAINAGE AREA.--3,354 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervlas. Datum of gage is 551.17 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100,000 cfs and extended above by logarithmic plotting.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 23, 2200 hours	187,000	33.97	-	-
June 23	-	-	820	365,000
1889 to May 1972:				
June 1, 1889	209,000	a35.9	-	-

a From floodmarks

REMARKS.--Flow regulated by Raystown Branch Reservoir.

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Concentration (mg/l)	Suspended sediment: Tons per second	Suspended sediment: Percent in size class indicated, in millimeters: Sand (greater than .062)	Suspended sediment: Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 21	0600	21.0	4,970	208	48	0.008	11	89
June 21	2300	18.0	27,000	124	357	.30	13	87
June 22	1250	16.5	52,400	126	226	.37	17	83
June 22	2015	15.0	97,800	109	420	1.3	13	87
June 26	1250	14.5	46,600	130	85	.12	8	92

(275) 01567500 BIXLER RUN NEAR LOYSVILLE, PA.

LOCATION.--Lat 40°22'15", long 77°24'09", Perry County, on right bank 400 ft upstream from bridge on State Highway 850 at Bixler, 2.3 miles upstream from mouth, and 3.6 miles west of Loysville.

DRAINAGE AREA.--15.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 601.22 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs and by slope-area measurement at 8,780 cfs.

MAXIMUMS.--Given in following table.

Date	Discharge (cfs)	Gage height (feet)
June-July 1972		
June 22, 1630 hours	4,400	8.90
July 16, 2000 hours	6,570	9.69
1954 to May 1972		
Nov. 1, 1956	8,780	10.39

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	116	49	11...	16	25	21...	524	30
2....	66	41	12...	15	23	22...	2,120	27
3....	50	42	13...	24	25	23...	918	24
4....	37	34	14...	19	24	24...	256	22
5....	31	59	15...	16	24	25...	141	20
6....	27	43	16...	128	445	26...	96	19
7....	24	36	17...	51	148	27...	69	19
8....	21	33	18...	75	62	28...	56	18
9....	19	30	19...	54	45	29...	77	16
10...	19	28	20...	42	36	30...	65	16
						31...		16
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							172	48
RUNOFF, IN INCHES							12.82	3.67

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.84	70	6-22	0830	6.73	1,050				
6-21	0430	3.81	67	6-22	1100	7.79	2,150				
6-21	0530	4.02	89	6-22	1330	8.03	2,530	6-24	0015	5.46	398
6-21	0615	4.49	151	6-22	1630	8.90	4,400	6-24	1615	4.79	212
6-21	0800	5.60	449	6-22	1645	8.83	4,230	6-24	2400	4.56	172
6-21	1015	6.20	715	6-22	1830	8.48	3,420				
6-21	1315	6.21	721	6-22	1945	8.73	3,990				
6-21	1515	6.56	932	6-22	2315	7.76	2,100	6-25	0030	4.55	171
6-21	1600	7.02	1,280	6-22	2400	7.69	2,010	6-25	2400	4.12	115
6-21	1800	6.30	770								
6-21	2245	5.81	533								
6-21	2400	5.93	586	6-23	0015	7.67	1,980	6-26	0045	4.11	114
				6-23	0845	6.65	995	6-26	2400	3.75	80
				6-23	1630	5.97	604				
6-22	0445	6.43	848	6-23	2400	5.46	398				

(276) 01568000 SHERMAN CREEK AT SHERMANS DALE, PA.

(Formerly published as Sherman Creek at Shermandale)

LOCATION.--Lat 40°19'24", long 77°10'09", Perry County, on left bank on downstream side of bridge on State Highway 34 at Shermans Dale, and 1.2 miles upstream from Fishing Run.

DRAINAGE AREA.--200 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 422.63 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 18,000 cfs and extended by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 27,500 cfs 0200 hours June 23 (gage height, 18.09 ft).
1927 to May 1972: Discharge, about 44,000 cfs July 22, 1927 (gage height, 20.34 ft, from floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,120	815	11...	196	309	21...	4,200	262
2....	650	641	12...	180	274	22...	15,500	224
3....	524	555	13...	216	259	23...	18,300	199
4....	410	511	14...	256	318	24...	5,340	180
5....	364	627	15...	196	286	25...	2,390	164
6....	309	645	16...	277	845	26...	1,570	146
7....	286	515	17...	468	1,280	27...	1,100	136
8....	247	434	18...	515	507	28...	870	141
9....	227	386	19...	605	379	29...	980	126
10...	216	346	20...	349	312	30...	1,220	117
						31...		117
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,970	389
RUNOFF,IN INCHES.....							10.99	2.24

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.24	329					6-25	0030	6.55	3,060
6-21	0730	3.07	677	6-23	0200	18.09	27,500	6-25	2400	5.10	1,860
6-21	0900	3.81	1,050	6-23	1100	15.28	18,600				
6-21	1230	6.18	2,720	6-23	2400	11.16	9,050				
6-21	1630	10.13	7,280					6-26	0030	5.07	1,840
6-21	2400	11.00	8,760					6-26	2400	4.22	1,280
				6-24	0030	11.03	8,810				
				6-24	1430	7.88	4,390				
6-22	1500	14.07	15,300	6-24	2400	6.60	3,100	6-27	0030	4.20	1,270
6-22	2400	17.86	26,700					6-27	2400	3.62	950

(277) 01568500 CLARK CREEK NEAR CARSONVILLE, PA.

LOCATION.--40°27'37", long 76°45'06", Dauphin County, on right bank 0.3 mile downstream from DeHart Dam, 1.8 miles southeast of Carsonville, and 15 miles upstream from mouth.

DRAINAGE AREA.--22.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 552.32 ft above mean sea level. Prior to Jan. 6, 1939, at site about 1,700 ft upstream at datum 9.49 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 240 cfs and by computation of peak flow over dam at 4,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,800 cfs 1445 hours June 22 (gage height, 10.98 ft)
1938 to May 1972: Discharge, 988 cfs Nov. 13, 1937; maximum gage height, 4.81 ft May 27, 1946.

REMARKS.--Flow regulated by DeHart Reservoir (total capacity, 18,480 acre-ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.13	53	6-22	0100	6.91	1,810	6-24	0015	5.98	1,290
6-21	1215	2.13	53	6-22	0415	10.75	5,040	6-24	2345	4.30	576
6-21	1230	2.18	59	6-22	0800	13.5	8,500	6-24	2400	4.29	573
6-21	1300	2.76	146	6-22	1100	14.2	9,600				
6-21	1330	3.06	205	6-22	1400	14.44	9,990				
6-21	1345	3.24	245	6-22	1600	14.2	9,600	6-25	0030	4.27	566
6-21	1445	3.05	203	6-22	2000	13.2	8,100	6-25	2400	3.53	347
6-21	1515	3.17	228	6-22	2400	11.65	6,050				
6-21	1545	4.06	491								
6-21	1730	4.27	565					6-26	0015	3.54	350
6-21	1815	4.62	688	6-23	0015	11.40	5,750	6-26	2400	3.19	272
6-21	2215	5.09	876	6-23	0730	8.65	3,060				
6-21	2345	6.07	1,340	6-23	1800	6.64	1,640				
6-21	2400	6.26	1,430	6-23	2400	6.00	1,300	6-27	0030	3.19	272
								6-27	2400	2.80	199

(279) 01569340 NEWBURG RUN AT NEWBURG, PA.

(Crest-stage station)

LOCATION.--Lat 40°07'40", long 77°32'50", Cumberland County, at concrete bridge on Stage Highway 696, 0.4 mile above mouth, and 0.8 mile south of Newburg.

DRAINAGE AREA.--5.29 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 530 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 570 cfs and by slope-area measurement at 9,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,180 cfs June 22 (gage height, 7.4 ft, from floodmark).
1964 to May 1972: Discharge, 5,000 cfs July 27, 1969 (gage height, 8.6 ft).

(280) 01570000 CONODOGUINET CREEK NEAR HOGESTOWN, PA.

(Formerly published as Conodoguinet Creek at Brysons Bridge)

LOCATION.--Lat 40°15'08", long 77°01'17", Cumberland County, on left bank 1,000 ft upstream from highway bridge, 0.4 mile downstream from Hogestown Run, and 1 mile northeast of Hogestown.

DRAINAGE AREA.--470 sq mi. At site used Sept. 25, 1911 to Sept. 30, 1917, 485 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1415 hours June 23 to 0845 hours June 24, for which graph was constructed on basis of high-water mark, and July 12-19. Datum of gage is 351.00 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements. Record for July 12-19 based on correlation with records for nearby stations.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 23, 2400 hours	33,700	a 17.01	-	-
June 23	-	-	314	23,000
1912-19, 1930-58, 1968 to May 1972:				
Mar. 12, 1952	15,700	12.16	-	-

a From high-water mark in gage house.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	18	124	11...	8.0	22	21...	174	11
2....	14	93	12...	8.8	8.3	22...	4,130	7.7
3....	11	75	13...	8.6	8.0	23...	2,150	7.7
4....	10	61	14...	5.5	7.7	24...	671	7.7
5....	9.1	61	15...	31	8.0	25...	340	7.7
6....	7.1	56	16...	6.2	8.0	26...	226	7.7
7....	13	44	17...	5.7	8.0	27...	155	7.7
8....	9.7	60	18...	5.9	7.7	28...	107	7.7
9....	8.3	98	19...	5.7	7.7	29...	99	7.7
10...	5.7	51	20...	5.7	7.7	30...	159	7.7
						31...		7.4
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							280	29
RUNOFF,IN INCHES.....							13.90	1.49

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.22	7.6					6-24	0015	5.45	1,020
6-21	0900	1.25	8.5	6-22	0245	9.11	3,250	6-24	2200	3.82	444
6-21	1315	1.30	10	6-22	1115	10.68	4,530	6-24	2400	3.75	423
6-21	1415	1.35	12	6-22	1445	10.98	4,800				
6-21	1445	1.59	23	6-22	2400	9.92	3,900				
6-21	1500	1.62	25					6-25	0015	3.75	423
6-21	1545	2.01	55					6-25	2400	3.16	263
6-21	1700	2.66	155	6-23	0015	9.87	3,860				
6-21	1830	3.26	288	6-23	1600	6.63	1,580				
6-21	2315	5.17	905	6-23	2400	5.49	1,030	6-26	0030	3.15	261
6-21	2400	5.93	1,230					6-26	2400	2.82	187

(278) 01569000 STONY CREEK NEAR DAUPHIN, PA.

LOCATION.--Lat 40°22'46", long 76°54'31", Dauphin County, on left bank at site of former railroad bridge, 1.5 miles northeast of Dauphin, and 2.2 miles upstream from mouth.

DRAINAGE AREA.--35.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0500 hours June 22 to 0015 hours June 23, for which graph was constructed on basis of high-water mark. Datum of gage is 353.75 ft above mean sea level, datum of 1907.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by slope-area measurements at 9,960 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,990 cfs about 1400 hours June 22 (gage height 14.44 ft, from high-water mark in gage house).
1938 to May 1972: Discharge, 2,360 cfs Nov. 9, 1943 (gage height, 7.97 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	72	192	11...	27	69	21...	316	37
2....	57	133	12...	26	59	22...	7,510	34
3....	47	111	13...	29	54	23...	2,660	31
4....	42	101	14...	32	51	24...	884	30
5....	39	108	15...	29	47	25...	444	28
6....	37	110	16...	35	65	26...	317	35
7....	36	92	17...	46	69	27...	237	29
8....	32	79	18...	47	51	28...	177	28
9....	30	70	19...	71	44	29...	159	25
10...	31	79	20...	62	40	30...	241	25
						31...		24
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							459	63
RUNOFF,IN INCHES.....							14.63	2.07

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
		Suspended sediment			Suspended sediment	
	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day
1	1,310	43	152	1,910	42	217
2	850	28	64	1,490	38	153
3	673	23	42	1,260	35	119
4	591	20	32	1,130	31	95
5	530	17	24	1,090	29	85
6	499	16	22	1,300	41	144
7	451	15	18	1,110	35	105
8	415	13	15	941	31	79
9	382	12	12	837	27	61
10	370	11	11	754	25	51
11	355	10	10	700	22	42
12	336	10	9	640	22	38
13	347	11	10	600	20	32
14	386	12	13	740	26	52
15	370	11	11	660	21	37
16	355	10	10	1,700	61	280
17	386	12	13	2,400	73	473
18	480	15	19	1,400	46	174
19	574	18	28	900	33	80
20	520	17	24	760	26	53
21	1,080	58	338	667	21	38
22	11,600	261	7,480	591	18	29
23	24,500	314	23,000	530	15	21
24	23,100	282	20,600	489	15	20
25	9,270	49	1,230	456	14	17
26	4,400	43	511	428	13	15
27	2,820	36	272	411	11	12
28	2,160	33	192	402	10	11
29	2,030	28	153	393	9	10
30	2,460	51	339	382	8	8
31	-	-	-	374	8	8
Total	-	-	54,604	-	-	2,559
Mean	3,120	-	-	885	-	-
Inches	7.41	-	-	2.17	-	-
Ac-ft	185,700	-	35.82	54,400	-	1.68

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second
June 21					June 24				
0030	2.19	492	15	0.0002	1100	14.71	23,000	300	0.22
1315	2.32	561	32	.0006	2400	11.30	12,900	68	.03
1730	2.82	863	64	.002					
1900	3.68	1,480	92	.004	June 25				
2400	6.59	4,420	270	.04	0015	11.22	12,700	66	.03
					2400	8.02	6,500	45	.009
June 22					June 26				
0330	9.18	8,520	465	.12	0015	7.95	6,390	45	.009
1400	10.95	12,100	184	.07	1445	6.19	3,910	42	.005
1845	11.94	14,500	169	.08	2400	5.69	3,330	41	.004
2400	12.97	17,500	164	.09					
					June 27				
June 23					0015	5.66	3,300	41	.004
0600	13.49	18,800	187	.11	2400	4.82	2,440	37	.003
1215	14.90	23,700	265	.20					
1900	16.5	30,900	465	.45	June 28				
2300	17.0	33,600	585	.61	0015	4.80	2,420	37	.003
2400	17.01	33,700	565	.59	2400	4.26	1,940	30	.002
June 24									
0845	15.49	26,100	353	.29					

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Suspended sediment: Percent in size class indicated, in millimeters: Sand (greater than .062)	Suspended sediment: Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 22	1345	18	11,800	145	185	0.07	6	94
June 23	1500	-	27,000	134	328	.28	2	98
June 24	0815	-	27,300	135	362	.31	45	55

(281) 01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'27", long 76°59'38", Cumberland County, on right bank 720 ft upstream from bridge on State Highway 944, 3.2 miles upstream from mouth, and 3.3 miles west of Enola.

DRAINAGE AREA.--0.77 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage recorder graph except June 26 to July 1, for which graph was constructed on basis of records for nearby stations. Datum of gage is 418.56 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 50 cfs and by slope-area measurement at 604 cfs.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data collected one or more times daily by automatic sediment sampler.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 22, 0115 hours	604	5.71	-	-
June 22	-	-	383	285
March 1969 to May 1972:				
Feb. 13, 1971	64	3.49	-	-

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Suspended sediment: Percent in size class indicated, in millimeters: Sand (greater than .062)	Suspended sediment: Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 21	1347	-	3.9	157	525	0.00006	4.0	96.0
June 21	1415	-	7.8	134	979	.0002	10	90
June 21	1500	-	14	105	896	.0004	19	81
June 21	1513	-	15	100	643	.0003	25	75
June 21	1530	-	16	102	581	.0003	25	75
June 21	1600	-	21	110	1,220	.0008	32	68
June 21	1630	-	24	92	673	.0005	35	65
June 21	1800	-	15	95	130	.00006	28	72
June 21	2230	-	17	110	336	.0002	21	79
June 21	2253	-	27	111	1,910	.002	32	68
June 21	2315	-	51	105	2,050	.003	19	81
June 21	2327	-	80	112	3,450	.009	46	54
June 21	2330	-	90	103	2,200	.006	23	77
June 21	2345	-	130	97	2,270	.009	28	72
June 22	0002	-	175	82	1,960	.01	23	77
June 22	0015	-	306	77	1,890	.02	11	89
June 22	0045	-	426	65	1,190	.02	11	89
June 22	0100	-	510	65	2,200	.04	13	87
June 22	0153	-	344	55	862	.009	26	74
June 22	0245	-	230	55	700	.005	51	50
June 22	0430	-	183	52	283	.002	21	79
June 22	0925	-	87	60	141	.0004	25	75

(282) 01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.

LOCATION.--Lat 40°18'05", long 76°56'57", Cumberland County, on right bank at upstream side of culvert on Valley Road, 1 mile northwest of Enola and 2.3 miles upstream from mouth.

DRAINAGE AREA.--0.38 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage-recorder graph. Datum of gage is 416.56 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 25 cfs and by computation of flow through culvert at 261 cfs.

MAXIMUMS.--June-July 1972: Discharge, 263 cfs 0115 hours June 22 (gage height, 7.73 ft). February 1969 to May 1972: Discharge, 77 cfs July 2, 1970 (gage height, 5.04 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	.63	1.0	11...	.06	.19	21...	14	.10
2....	.31	.62	12...	.06	.24	22...	99	.09
3....	.38	.49	13...	.31	.27	23...	14	.09
4....	.19	.38	14...	.14	.23	24...	4.7	.07
5....	.14	1.0	15...	.09	.18	25...	3.1	.07
6....	.14	.51	16...	.27	1.4	26...	2.0	.06
7....	.11	.36	17...	.13	.79	27...	1.1	.08
8....	.08	.25	18...	.16	.28	28...	2.4	.07
9....	.08	.24	19...	.57	.16	29...	4.7	.05
10...	.10	.23	20...	.18	.16	30...	2.8	.06
						31...		.08
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							5.1	.32
RUNOFF, IN INCHES.....							15.01	0.96

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (mg/l)	Tons per day		Mean concentration (mg/l)	Tons per day
1	1.0	7	0.02	1.4	4	0.02
2	.50	6	.01	1.2	3	.01
3	.56	10	.02	1.0	3	.01
4	.45	5	.01	.86	2	0
5	.35	3	0	1.6	20	.15
6	.35	6	.01	1.0	4	.01
7	.31	4	0	.76	3	.01
8	.27	10	.01	.66	2	0
9	.27	5	0	.60	2	0
10	.27	4	0	.56	1	0
11	.24	2	0	.51	10	.01
12	.24	5	0	.48	4	.01
13	.50	30	.04	.52	17	.03
14	.50	14	.02	.53	5	.01
15	.27	6	0	.40	3	0
16	.45	40	.05	2.4	300	5.0
17	.40	8	0	1.5	15	.06
18	1.4	61	.25	.69	4	.01
19	.98	13	.03	.53	3	0
20	.45	9	.01	.46	3	0
21	9.3	281	25	.41	3	.01
22	143	383	285	.36	4	0
23	28	30	2.3	.33	2	0
24	7.4	10	.20	.32	6	.01
25	5.0	8	.11	.30	3	0
26	3.0	13	.11	.29	2	0
27	2.0	6	.03	.28	4	0
28	1.5	4	.02	.27	2	0
29	3.0	30	.24	.26	1	0
30	3.0	10	.08	.25	2	0
31	-	-	-	.24	8	.01
Total	-	-	313.57	-	-	5.37
Mean	7.16	-	-	.68	-	-
Inches	10.38	-	-	1.01	-	-
Ac-ft	426	-	0.21	41.6	-	0.004

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment		Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment	
			Concentration (mg/l)	Tons per second				Concentration (mg/l)	Tons per second
June 21					June 22				
0030	1.86	0.45	6	0.0000001	0530	3.47	112	240	0.0008
0315	1.86	.45	6	.0000001	0615	3.34	97	210	.0006
0445	1.87	.50	7	.0000001	1045	3.31	93	150	.0004
0600	1.94	.97	35	.000001	1400	3.63	133	190	.0008
0715	1.99	1.4	50	.000002	1630	3.32	94	140	.0004
1015	1.95	1.0	20	.0000006	1815	3.51	117	210	.0009
1230	1.95	1.0	40	.000001	2045	3.21	82	100	.0003
1300	1.99	1.4	100	.000004	2245	3.22	83	120	.0003
1345	2.14	3.9	400	.00005	2400	3.06	67	90	.0002
1515	2.50	14	660	.0003					
1615	2.76	25	1,390	.001	June 23				
1800	2.51	15	130	.00006	0015	3.04	66	80	.0002
1830	2.57	17	110	.00006	0530	2.69	37	40	.00005
1900	2.53	16	90	.00004	1030	2.51	26	21	.00002
2100	2.38	10	50	.00002	1330	2.42	26	16	.00001
2215	2.50	14	100	.00004	2100	2.19	13	13	.000005
2245	2.70	23	722	.0005	2400	2.19	11	12	.000004
2300	2.93	23	1,750	.002					
2315	3.27	51	2,050	.003	June 24				
2330	3.54	90	2,200	.006	0030	2.18	10	12	.000004
2400	4.03	180	1,660	.009	1000	2.08	7.5	10	.000002
					2215	2.03	6.2	7	.000001
June 22					2400	2.02	6.0	6	.000001
0015	4.60	306	1,890	.02					
0045	5.10	426	1,190	.02	June 25				
0115	5.71	604	3,400	.06	0400	2.04	6.5	5	.000001
0200	4.75	340	1,650	.02	0530	2.07	7.2	15	.000003
0300	4.09	206	600	.004	0900	1.99	5.3	8	.000001
0400	4.25	236	350	.003	2400	1.90	3.5	5	.0000005

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.66	0.14	6-21	1800	3.35	29	6-22	1600	4.79	71
6-21	0430	1.67	.17	6-21	1900	2.85	17	6-22	1700	5.00	77
6-21	0600	1.68	.21	6-21	2030	2.50	9.5	6-22	1800	5.88	103
6-21	0715	1.70	.29	6-21	2100	2.50	9.5	6-22	1930	4.46	61
6-21	0815	1.71	.34	6-21	2145	2.69	14	6-22	2100	4.14	51
6-21	0830	1.70	.29	6-21	2215	2.69	14	6-22	2145	4.24	54
6-21	1030	1.69	.25	6-21	2230	2.80	17	6-22	2300	3.99	47
6-21	1215	1.70	.29	6-21	2245	3.19	25	6-22	2400	3.66	37
6-21	1230	1.74	.48	6-21	2345	5.97	106				
6-21	1245	1.79	.78	6-21	2400	6.74	137				
6-21	1300	1.88	1.4					6-23	0230	3.06	22
6-21	1315	2.07	3.2					6-23	0845	2.60	13
6-21	1330	2.60	11	6-22	0030	7.24	174	6-23	1515	2.48	10
6-21	1400	3.66	37	6-22	0100	7.54	222	6-23	2100	2.32	7.5
6-21	1430	3.99	47	6-22	0115	7.73	26	6-23	2400	2.25	6.6
6-21	1530	3.69	38	6-22	0130	7.70	256				
6-21	1600	4.33	57	6-22	0300	7.10	159				
6-21	1645	3.68	38	6-22	0430	7.17	166	6-24	0730	2.17	5.3
6-21	1715	3.18	24	6-22	0530	6.06	109	6-24	2400	1.99	3.2
				6-22	0600	4.94	75				
				6-22	0830	4.67	67				
				6-22	1030	4.99	77	6-25	0315	1.99	3.2
				6-22	1245	5.71	98	6-25	0500	2.14	5.0
				6-22	1330	5.26	85	6-25	1130	1.98	3.1
				6-22	1445	6.22	116	6-25	2400	1.89	2.2

(283) 01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.

LOCATION.--Lat 40°15'10", long 76°52'27", Dauphin County, on left bank at Nagle Street, 500 ft upstream from sanitary dam, 3,700 ft downstream from Walnut Street Bridge in Harrisburg, and 1.1 miles upstream from Paxton Creek.

DRAINAGE AREA.--24,100 sq mi, approximately.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except 1700 hours June 22 to 1600 hours June 27 for which graph was reconstructed on basis of numerous wire-weight gage readings made at Walnut Street Bridge by Federal Flood Forcasting Service. Datum of gage is 290.01 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 24, 0200 hours	1,020,000	32.57	-	-
June 24	-	-	860	2,210,000
1786 to May 1972:				
Mar. 19, 1936	740,000	29.23	-	-

REMARKS.--Flow regulated by six major and several smaller reservoirs (combined capacity, about 510,000 acre-ft, excluding Raystown Reservoir, which was under construction in 1972).

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
	Mean discharge (cfs)	Suspended sediment: Mean concentration (mg/l)	Suspended sediment: Tons per day	Mean discharge (cfs)	Suspended sediment: Mean concentration (mg/l)	Suspended sediment: Tons per day
1	43,700	90	10,600	145,000	60	23,500
2	51,700	78	10,900	131,000	65	23,000
3	49,500	60	8,020	119,000	103	33,100
4	47,500	48	6,160	97,100	85	22,300
5	44,200	45	5,370	87,900	75	16,000
6	41,000	40	4,430	74,900	63	12,700
7	40,400	38	4,140	70,700	45	8,590
8	40,400	36	3,930	65,600	31	5,490
9	35,900	34	3,300	59,200	30	4,800
10	30,600	30	2,480	58,100	61	9,570
11	29,000	28	2,190	58,100	83	13,000
12	27,600	25	1,860	54,100	60	8,760
13	26,800	22	1,590	46,100	35	4,360
14	25,900	19	1,330	41,000	26	2,880
15	24,500	17	1,120	37,200	20	2,010
16	23,800	21	1,350	37,200	24	2,410
17	30,800	40	3,330	64,200	123	23,000
18	24,100	50	4,600	63,300	103	17,600
19	40,200	65	7,060	48,300	45	5,870
20	42,300	58	6,620	40,700	38	4,180
21	42,900	73	9,350	35,700	34	3,280
22	331,000	731	751,000	33,600	28	2,540
23	890,000	879	2,080,000	31,000	23	1,930
24	954,000	860	2,210,000	27,600	15	1,120
25	720,000	759	1,470,000	24,200	13	849
26	483,000	535	725,000	22,400	12	726
27	305,000	173	147,000	21,300	11	633
28	216,000	108	63,100	19,400	10	524
29	173,000	87	40,700	17,800	10	481
30	158,000	65	27,700	16,800	9	408
31	-	-	-	15,700	8	339
Total	-	-	7,614,230	-	-	255,950
Mean	166,800	-	-	53,390	-	-
Inches	7.72	-	-	2.55	-	-
Ac-ft	9,923,000	-	4,990	3,283,000	-	168

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second
June 21				
0100	4.88	40,200	45	0.06
1230	4.77	37,200	42	.05
1500	4.89	40,400	67	.08
2000	5.08	45,600	105	.15
2400	6.05	70,900	220	.49
June 22				
0200	7.00	91,600	310	.89
0700	12.00	203,000	540	3.4
1300	16.50	325,000	820	8.3
1800	21.95	491,000	950	15
2400	26.25	650,000	1,020	21
June 23				
0200	27.40	696,000	1,020	22
1000	31.07	884,000	910	25
1400	32.00	963,000	815	25
2400	32.55	1,018,000	755	24
June 24				
0200	32.57	1,020,000	760	24
1000	32.25	988,000	895	28
1400	31.85	950,000	950	28
2400	30.46	841,000	820	22
June 25				
0800	29.12	770,000	730	18
June 25				
1200	28.03	721,000	690	16
2200	25.26	610,000	840	16
2400	24.70	589,000	815	15
June 26				
0400	23.75	553,000	730	13
2400	18.43	382,000	280	3.3
June 27				
1200	15.50	296,000	155	1.4
2400	13.75	248,000	125	.97
June 28				
0400	13.27	235,000	115	.84
2400	11.50	190,000	95	.56
June 29				
2400	10.28	161,000	80	.40
June 30				
1500	10.22	160,000	75	.38
2400	9.97	154,000	70	.34
July 1				
2400	9.18	137,000	63	.27
July 2				
2400	8.88	130,000	57	.23

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	580	873	11...	180	518	21...	609	376
2....	430	744	12...	170	475	22...	12,400	361
3....	350	687	13...	170	462	23...	12,300	348
4....	400	639	14...	220	462	24...	7,510	336
5....	600	669	15...	260	437	25...	3,660	330
6....	350	711	16...	264	444	26...	1,910	323
7....	260	610	17...	287	447	27...	1,350	328
8....	230	567	18...	329	470	28...	1,080	330
9....	210	537	19...	483	422	29...	971	315
10...	190	507	20...	320	395	30...	1,090	308
						31...		319
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,640	476
RUNOFF, IN INCHES.....							8.46	2.54

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	1.57	283					6-24	1000	14.16	7,820
6-21	1200	1.65	305	6-22	0230	11.95	5,720	6-24	2400	11.9	5,190
6-21	1300	1.85	362	6-22	0400	16.5	11,900				
6-21	1500	3.37	878	6-22	0600	18.0	15,100				
6-21	1600	3.73	1,020	6-22	0900	18.33	15,900	6-25	1500	9.52	3,260
6-21	1800	3.53	942	6-22	1600	17.1	13,100	6-25	2400	8.17	2,500
6-21	2100	3.17	799	6-22	2400	16.5	11,900				
6-21	2200	3.28	842								
6-21	2300	4.67	1,400					6-26	2000	6.06	1,570
6-21	2400	7.91	2,950	6-23	1015	16.92	12,700	6-26	2400	5.89	1,510
				6-23	1400	17.08	13,100				
				6-23	2400	15.8	10,500				
6-22	0100	9.58	3,970					6-27	2400	5.04	1,180

(287) 01572900 REEDS CREEK NEAR ONO, PA.

(Crest-stage station)

LOCATION.--Lat 40°24'25", long 76°33'15", Lebanon County, at concrete culvert on U. S. Highway 22, 1 mile west of Ono, and 1.1 miles above mouth.

DRAINAGE AREA.--8.63 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 370 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 780 cfs and extended to 1,700 cfs by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, not determined (gage height, 14.74 ft, backwater from Swatara Creek).
1962 to May 1972: Discharge, 1,700 cfs Feb. 14, 1966 (gage height, 7.55 ft).

(288) 01573000 SWATARA CREEK AT HARPER TAVERN, PA.

(Formerly published as Swatara Creek at Harpers)

LOCATION.--Lat 40°24'09", long 76°34'39", Lebanon County, on left bank 10 ft downstream from bridge on State Highway 934 at Harper Tavern, 6 miles northwest of Annville, and 8.5 miles downstream from Little Swatara Creek.

DRAINAGE AREA.--337 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 1030 hours June 22 to 1930 hours June 23, for which graph was constructed on basis of high-water mark. Datum of gage is 356.68 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 25,000 cfs and by slope-area measurement at 66,700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 66,700 cfs about 0030 hours June 23 (gage height, 23.72 ft, from high-water mark in gage house).
1889 to May 1972: Discharge, 88,000 cfs (revised) June 1, 1889 (gage height, 25.6 ft, from floodmark).

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Suspended sediment: Percent in size class indicated, in millimeters: Sand (greater than .062)	Suspended sediment: Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 22	0900	18	248,000	103	650	5.0	11	89
June 22	1630	18	450,000	104	915	13	12	88
June 23	1425	-	965,000	95	807	24	8	92
June 24	0900	-	1,000,000	93	861	27	6	94
June 24	1330	-	958,000	101	946	28	4	96
June 25	0900	-	759,000	107	716	17	6	94
June 26	0830	-	514,000	129	610	10	4	96
June 27	1330	15	288,000	160	132	1.4	8	92
June 29	1100	16	172,000	177	93	.50	8	92

(284) 01571000 PAXTON CREEK NEAR PENBROOK, PA.

(Gaging station, discontinued 1950)

LOCATION.--Lat 40°18'30", long 76°51'00", Dauphin County, at bridge on North Progress Avenue, 2 miles north of Penbrook, and 7.75 miles upstream from mouth.

DRAINAGE AREA.--11.2 sq mi.

DISCHARGE RECORD.--Peak discharge by computation of flow through culvert.

MAXIMUM.--June-July 1972: Discharge, 3,300 cfs June 22.
1940 to 1950: Discharge, 1,900 cfs Aug. 27, 1949 (gage height, 6.97 ft).

(285) 01571020 PAXTON CREEK AT WILDWOOD LAKE AT HARRISBURG, PA.

(Miscellaneous site)

LOCATION.--Lat 40°18'23", long 76°53'04", Dauphin County, at dam at outlet of Wildwood Lake at Harrisburg.

DRAINAGE AREA.--19.0 sq mi.

DISCHARGE RECORD.--Peak discharge by computation of flow over dam.

MAXIMUM.--June-July 1972: Discharge, 2,290 cfs June 22.

REMARKS.--Flow regulated by Wildwood Lake (total capacity, 610 acre-ft).

(286) 01571500 YELLOW BREECHES CREEK NEAR CAMP HILL, PA.

(Formerly published as Yellow Breeches Creek at Olmsteds Mill)

LOCATION.--Lat 40°13'29", long 76°53'54", Cumberland County, 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 and 3.1 miles upstream from mouth.

DRAINAGE AREA.--216 sq mi.

GAGE HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except June 1-14, 0130 hours June 22 to 1530 hours June 25, for which graph constructed on basis of high-water mark and 10 wire-weight and staff-gage readings. Datum of gage is 307.49 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements. Record for June 1-14 estimated on basis of weather records and correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 15,900 cfs about 0900 hours June 22 (gage height, 18.33 from floodmarks).
April 1909 to 1919, 1955 to May 1972: Discharge, 5,550 cfs Aug. 22, 1915 (gage height, 8.61 ft, from graph based on gage readings).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1	1,620	1,840	11	247	705	21	2,240	302
2	716	1,420	12	219	582	22	34,400	287
3	640	1,250	13	240	536	23	42,500	258
4	518	1,150	14	258	500	24	11,800	233
5	444	1,070	15	226	453	25	4,810	226
6	381	1,050	16	298	444	26	3,510	250
7	356	760	17	431	582	27	2,400	205
8	305	645	18	645	418	28	1,760	196
9	276	942	19	1,120	364	29	1,840	180
10	272	760	20	1,170	332	30	2,920	166
						31		163
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							3,950	589
RUNOFF, IN INCHES							13.08	2.02

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.99	705	6-23	0030	23.72	66,700				
6-21	1300	2.07	748	6-23	0400	23.2	61,200	6-26	0030	6.08	3,810
6-21	1430	2.78	1,160	6-23	1400	20.0	36,100	6-26	2400	5.23	3,000
6-21	1830	6.38	4,110	6-23	2400	15.90	20,800				
6-21	2200	8.75	6,880								
6-21	2400	10.08	8,680					6-27	0030	5.20	2,970
				6-24	0030	15.69	20,300	6-27	2400	3.91	1,910
				6-24	1500	10.72	9,620				
6-22	0400	14.09	16,300	6-24	2400	8.35	6,370				
6-22	0830	16.52	22,600					6-28	0030	3.89	1,890
6-22	1400	20.0	36,100					6-28	2400	3.67	1,740
6-22	1900	22.5	54,400	6-25	0030	8.24	6,240				
6-22	2400	23.65	66,000	6-25	2400	6.11	3,840				

(289) 01573086 BECK CREEK NEAR CLEONA, PA.

LOCATION.--Lat 40°19'24", long 76°29'00", Lebanon County, on right bank at bridge on Township Road T421, 0.4 mile upstream from mouth, and one mile south of Cleona.

DRAINAGE AREA.--7.87 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 414.77 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and by computations of flow through culvert at 196 and 5,150 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,150 cfs 0900 hours June 22 (gage height, 11.53 ft).
1964 to May 1972: Discharge, 640 cfs July 10, 1970 (gage height, 6.25 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1	16	39	11	7.4	22	21	26	16
2	11	36	12	7.4	22	22	1,440	15
3	11	36	13	6.9	24	23	139	15
4	10	33	14	6.9	21	24	97	14
5	9.8	33	15	6.7	20	25	83	13
6	8.9	29	16	6.9	20	26	70	13
7	8.6	28	17	6.9	18	27	59	12
8	8.4	26	18	6.2	18	28	51	12
9	8.4	25	19	7.4	17	29	50	11
10	7.9	23	20	8.1	17	30	46	11
						31		11
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							74	21
RUNOFF, IN INCHES							10.55	3.07

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.26	14	6-22	0530	6.46	403				
6-21	1245	4.32	16	6-22	0615	7.17	687				
6-21	1430	4.40	19	6-22	0630	7.67	939				
6-21	1445	4.43	21	6-22	0715	10.54	3,680	6-24	1530	5.06	93
6-21	1515	4.60	30	6-22	0900	11.53	5,150	6-24	1600	5.18	108
6-21	1700	4.53	26	6-22	0915	11.31	4,800	6-24	2400	5.14	103
6-21	2145	4.72	39	6-22	1100	9.77	2,740				
6-21	2215	4.85	50	6-22	1545	7.87	1,060				
6-21	2245	5.28	96	6-22	2015	6.22	329	6-25	0030	5.01	87
6-21	2345	5.76	169	6-22	2315	5.71	200	6-25	0215	5.01	87
6-21	2400	5.78	173	6-22	2400	5.67	192	6-25	2400	4.90	75
6-22	0030	6.05	282	6-23	0015	5.77	213	6-26	0145	4.90	75
6-22	0115	6.18	317	6-23	0130	5.69	196	6-26	2400	4.79	63
6-22	0245	6.98	602	6-23	1030	5.34	131				
6-22	0445	6.18	317	6-23	2400	5.18	108				

(290) 01574000 WEST CONEWAGO CREEK NEAR MANCHESTER, PA.

(Formerly published as Conewago Creek near Manchester)

LOCATION.--Lat 40°04'56", long 76°43'13", York County, on left bank 500 ft upstream from bridge on State Highway 181, 0.7 mile downstream from Little Conewago Creek, and 1.5 miles north of Manchester.

DRAINAGE AREA.--510 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0600 hours June 22 to 1215 hours June 27, 2100 hours June 27 to 0900 hours June 30, and July 14-31; graph for missing record of June 22, 27-30 reconstructed on basis of floodmark, a gage reading for June 29, and adjoining record. Datum of gage is 263.68 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 45,000 cfs and by slope-area measurement at 81,700 cfs. Record for June 23-29 and July 14-31 based on correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 81,700 cfs about 1000 hours June 22 (gage height, 30.26 ft, from high-water mark in gage house, backwater from Susquehanna River).
1929 to May 1972: Discharge, 47,600 cfs Aug. 24, 1933 (gage height, 24.14 ft).

REMARKS.--Some regulation since October 1959 by Conewago Lake (capacity, 3,570 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	792	1,750	11...	177	564	21...	1,610	400
2....	587	1,080	12...	164	503	22...	62,000	370
3....	355	887	13...	176	610	23...	37,000	350
4....	383	1,150	14...	234	560	24...	10,000	320
5....	816	922	15...	313	520	25...	5,800	310
6....	351	1,340	16...	246	540	26...	3,500	330
7....	277	934	17...	253	600	27...	2,000	290
8....	243	792	18...	243	540	28...	1,400	270
9....	208	683	19...	321	480	29...	1,400	260
10...	186	624	20...	348	440	30...	1,980	250
						31...		250
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							4,450	610
RUNOFF,IN INCHES							9.73	1.38

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.67	285	6-22	1800	27.9	67,000	6-26	1200	-	3,500
6-21	1200	2.55	246	6-22	2400	25.8	55,700	6-26	2400	-	2,600
6-21	1300	2.63	272								
6-21	1400	2.91	371								
6-21	1500	3.51	636	6-23	1200	-	37,000	6-27	1240	6.72	1,900
6-21	1600	4.54	1,250	6-23	2400	-	19,000	6-27	1630	6.60	1,770
6-21	1900	5.73	2,240					6-27	2400	6.3	1,610
6-21	2100	5.52	2,050								
6-21	2200	6.21	2,720	6-24	0500	-	10,000				
6-21	2300	11.62	11,270	6-24	0800	-	6,000	6-28	2400	5.2	1,280
6-21	2400	13.92	16,500	6-24	1600	-	10,000				
				6-24	2400	-	8,000				
								6-29	0600	5.1	1,250
6-22	0200	17.75	26,800					6-29	1630	5.24	1,350
6-22	0500	26.01	56,800	6-25	1200	-	5,900	6-29	2400	5.6	1,610
6-22	0800	29.3	75,400	6-25	2400	-	4,600				
6-22	1000	30.26	81,700								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	231	290	11...	64	168	21...	250	96
2....	114	243	12...	64	161	22...	11,000	92
3....	94	219	13...	69	254	23...	3,200	88
4....	84	204	14...	99	172	24...	1,500	100
5....	135	238	15...	80	160	25...	954	137
6....	103	208	16...	79	150	26...	602	94
7....	98	181	17...	75	130	27...	467	91
8....	82	208	18...	73	120	28...	395	86
9....	72	190	19...	69	110	29...	350	82
10...	70	176	20...	75	100	30...	420	78
						31...		83
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							699	152
RUNOFF,IN INCHES							10.33	2.32

(293) 01574800 EAST BRANCH CODORUS CREEK TRIBUTARY NEAR WINTERSTOWN, PA.

LOCATION.--Lat 39°48'57", long 76°37'59", York County, on right bank 20 ft downstream from highway bridge, 1.5 miles upstream from mouth, and 1.7 miles southwest of Winterstown.

DRAINAGE AREA.--5.17 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0445-0515 hours June 22 and June 26 to July 31. Altitude of gage is 680 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 80 cfs and by slope-area measurement at 2,190 cfs. Record for June 26 to July 31 estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 2,190 cfs 0500 hours June 22 (gage height, 10.44 ft, from high-water mark in gage shelter).
1960 to May 1972: Discharge, 351 cfs July 28, 1969 (gage height, 7.02 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	7.7	29	11...	4.5	16	21...	47	10
2....	6.3	24	12...	4.5	19	22...	474	9.6
3....	5.7	21	13...	6.6	23	23...	172	9.0
4....	6.3	20	14...	6.3	18	24...	109	10
5....	6.3	22	15...	5.2	15	25...	79	15
6....	5.7	20	16...	5.4	14	26...	52	11
7....	5.4	18	17...	4.9	13	27...	42	9.0
8....	5.2	20	18...	4.9	12	28...	35	8.6
9....	4.9	18	19...	4.9	11	29...	32	8.0
10...	4.9	17	20...	4.7	11	30...	35	7.6
						31...		8.0
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							40	15
RUNOFF,IN INCHES							8.54	3.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.89	5.5					6-23	2400	4.79	129
6-21	0600	2.91	6.0	6-22	0045	4.81	173				
6-21	1130	2.93	6.5	6-22	0245	5.21	237				
6-21	1200	3.12	13	6-22	0400	6.50	510	6-24	2100	4.52	98
6-21	1215	3.11	12	6-22	0415	8.45	1,130	6-24	2230	4.79	129
6-21	1230	3.19	16	6-22	0500	10.44	2,190	6-24	2245	4.77	126
6-21	1245	3.34	23	6-22	0600	8.40	1,070	6-24	2400	4.57	104
6-21	1330	3.89	63	6-22	0700	7.34	692				
6-21	1615	3.32	22	6-22	0800	6.54	465				
6-21	1800	3.15	14	6-22	0930	6.16	373	6-25	0015	4.54	100
6-21	1945	3.12	13	6-22	1115	6.39	428	6-25	1500	4.27	73
6-21	2015	3.22	17	6-22	1245	6.81	533	6-25	2400	4.20	67
6-21	2030	3.56	37	6-22	2030	5.63	263				
6-21	2045	4.11	84	6-22	2400	5.51	241				
6-21	2115	5.19	233					6-26	0100	-	64
6-21	2145	6.32	467					6-26	2400	-	45
6-21	2230	6.82	591	6-23	0015	5.50	239				
6-21	2400	5.22	239	6-23	0600	5.27	199				

(291) 01574500 CODORUS CREEK AT SPRING GROVE, PA.

(Formerly published as West Branch Codorus Creek at Spring Grove)

OCATION.--Lat 39°52'43", long 76°51'13", York County, on right bank at downstream side of county highway bridge No. 132, 0.1 mile downstream from unnamed tributary, 0.3 mile downstream from east boundary of Spring Grove, and 7 miles southwest of York.

RAINAGE AREA.--75.5 sq mi. Area at site used prior to Nov. 1, 1965, 74.3 sq mi.

AGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1230 hours June 21 to 1430 hours June 24. Datum of gage is 430.86 ft above mean sea level. Prior to 1942 at site 0.9 mile upstream, and 1942-64 at site 0.8 mile upstream, at datum 5.64 ft higher.

ISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,300 cfs and by computations of flow over dam at 1,810 and 19,400 cfs. Record for June 21-24 estimated on basis of correlations with records for nearby stations.

IMUMS.--June-July 1972: Discharge, 19,400 cfs about 0500 hours June 22 (gage height, 15.57 ft, from high-water mark in gage house).
1930-64, 1966 to May 1972: Discharge, 11,200 cfs Aug. 23, 1933 (gage height, 11.84 ft, site and datum then in use).

(292) 01574700 INDIAN ROCK RESERVOIR NEAR YORK, PA.

CATION.--Lat 39°55'22", long 76°45'14", York County, at dam on Codorus Creek, 0.1 mile upstream from mouth of South Branch Codorus Creek, 0.3 mile west of pumping station of York Water Co., and 3 miles southwest of York.

RAINAGE AREA.--93.7 sq mi.

AGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (levels by Corps of Engineers).

ONTENTS RECORD.--Contents computed from capacity curve furnished by Corps of Engineers.

IMUMS.--June-July 1972: Inflow, 24,000 cfs about 0800 hours June 22; contents, 30,220 acre-ft 1300 hours June 23 (elevation, 436.44 ft).
1943 to May 1972: Contents, 3,360 acre-ft Mar. 12, 1952 (elevation, 402.80 ft).

EMARKS.--Reservoir formed by an earth and rockfill dam with ungated concrete spillway at elevation, 435.0 ft. Reservoir completed in June 1942; storage began in June 1946. Capacity at elevation, 435.0 ft is 28,000 acre-ft. No dead storage. Reservoir is used for flood control. Figures given herein represent total contents. Flood storage is regulated by three vertical-lift tractor gates. Water is stored only during high flows and released when downstream conditions warrant.

OOPERATION.--Records furnished by Corps of Engineers, Baltimore.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

ay	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	376.43	69	378.40	108	16	375.18	47	378.45	109
2	375.43	51	377.98	100	17	375.42	51	377.58	92
3	375.05	45	377.93	99	18	375.41	50	377.48	90
4	377.13	83	377.60	92	19	375.57	53	377.18	84
5	375.65	54	378.63	113	20	375.34	49	377.09	82
6	375.86	58	377.69	94	21	393.82	1,420	376.93	79
7	375.37	50	377.29	86	22	435.03	28,450	376.91	78
8	375.17	47	378.05	101	23	435.84	29,260	376.83	77
9	375.50	52	377.55	91	24	433.05	25,250	376.85	77
10	375.57	53	377.33	87	25	428.44	19,260	376.77	75
11	375.85	57	377.42	88	26	422.58	13,740	375.77	56
12	375.87	58	377.27	85	27	413.60	7,530	375.78	56
13	375.10	46	377.93	99	28	398.03	2,220	375.63	54
14	375.17	47	377.50	90	29	379.88	146	375.59	53
15	375.25	48	377.37	87	30	378.95	119	375.50	52
					31			375.62	54
hange in contents.....							-20		-65

(294) 01575000 SOUTH BRANCH CODORUS CREEK NEAR YORK, PA.

LOCATION.--Lat 39°55'14", long 76°44'57", York County, on right bank 100 ft downstream from dam of pumping station of York Water Co., 200 ft upstream from Penn Central Railroad Bridge, 0.5 mile upstream from mouth, and 3 miles southwest of York.

DRAINAGE AREA.--117 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals June 1 to 1430 hours June 21; station destroyed by flood June 22. Record for July 3-31 partly constructed from graph based one once or twice-daily staff-gage readings. Datum of gage is 373.03 ft above mean sea level, adjustment of 1907.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 600 cfs, by slope-area measurement at 6,550 cfs, and by contracted-opening measurements at 19,200 and 26,700 cfs. Record for periods of missing gage-height record estimated on basis of correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 26,700 cfs about 0600 hours June 22 (gage height, 22.62 ft, from floodmarks).
1928 to May 1972: Discharge, 19,300 cfs Aug. 23, 1933 (gage height, 17.97 ft, from high-water mark in gage house).

REMARKS.--Minor regulation of flow by water-supply reservoirs (combined capacity, 7,600 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	697	270	11...	92	200	21...	600	186
2....	209	260	12...	84	181	22...	16,000	167
3....	170	340	13...	110	261	23...	8,000	160
4....	194	250	14...	159	145	24...	2,000	114
5....	294	278	15...	105	186	25...	1,100	116
6....	139	267	16...	92	200	26...	620	116
7....	137	256	17...	101	215	27...	460	109
8....	110	220	18...	96	220	28...	370	98
9....	108	240	19...	78	186	29...	320	98
10...	103	220	20...	72	128	30...	290	96
						31...		95
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,100	190
RUNOFF,IN INCHES.....							10.46	1.87

(295) 01575500 CODORUS CREEK NEAR YORK, PA.

(Formerly published as Codorus Creek at York)

LOCATION.--Lat 39°56'46", long 76°45'20", York County, 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.

DRAINAGE AREA.--222 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0845 hours June 21 to July 8 and July 18-24. Graph for June 21-29 constructed on basis of floodmarks, many readings of inside gage, and records of release from Indian Rock Dam. Datum of gage is 356.39 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,000 cfs and extended above by logarithmic plotting. Record for June 30 to July 8, July 18-24 estimated on basis of correlation with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 30,000 cfs 0700 hours June 22 (gage height, 26.36 ft, from floodmarks).
1940 to May 1972: Discharge, 7,770 cfs Dec. 4, 1950 (gage height, 12.03 ft).
Flood of Aug. 23, 1933, reached a stage of about 24.0 ft, from floodmark about 500 ft downstream (discharge, about 32,000 cfs).

REMARKS.--Flow regulated since 1947 by Indian Rock Reservoir 2.1 miles upstream (see station 01574700) and by three smaller reservoirs (combined capacity, 65,500 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,250	900	11...	191	434	21...	743	250
2....	391	780	12...	175	573	22...	16,000	240
3....	317	920	13...	212	488	23...	8,900	230
4....	338	780	14...	312	622	24...	6,200	220
5....	535	1,100	15...	225	566	25...	5,600	279
6....	291	800	16...	203	402	26...	5,100	248
7....	290	640	17...	211	346	27...	4,800	223
8....	241	560	18...	200	320	28...	4,400	226
9....	224	512	19...	183	290	29...	2,200	221
10...	210	447	20...	182	270	30...	1,300	214
						31...		214
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,050	462
RUNOFF,IN INCHES.....							10.29	2.40

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.76	185	6-22	1300	21.2	19,300	6-25	1400	11.8	6,200
6-21	1200	2.85	201	6-22	2400	14.9	9,770	6-25	2400	11.35	5,750
6-21	1400	3.32	330								
6-21	1600	3.74	462								
6-21	1800	3.91	521	6-23	0300	15.0	9,900	6-26	1200	10.6	5,020
6-21	2000	4.46	742	6-23	0500	14.5	9,270	6-26	2400	10.4	4,840
6-21	2100	5.02	989	6-23	1800	14.4	9,150				
6-21	2200	7.52	2,670	6-23	2000	13.4	7,950				
6-21	2300	10.98	5,180	6-23	2100	12.4	6,840	6-27	0800	10.2	4,660
6-21	2400	11.53	5,630	6-23	2300	12.9	7,390	6-27	2400	10.45	4,880
				6-23	2400	12.8	7,280				
6-22	0100	12.92	7,630					6-28	0830	10.40	4,840
6-22	0200	17.47	13,400	6-24	0600	11.8	6,200	6-28	1500	9.55	4,080
6-22	0230	18.45	14,900	6-24	0700	12.2	6,620	6-28	2400	9.00	3,630
6-22	0400	14.49	9,260	6-24	2400	11.0	5,400				
6-22	0430	13.85	8,490								
6-22	0500	15.15	10,100					6-29	0400	8.6	3,310
6-22	0600	22.01	20,700	6-25	1000	10.78	5,180	6-29	1400	7.0	2,160
6-22	0700	26.36	30,000	6-25	1200	10.9	5,300	6-29	1800	6.0	1,530
								6-29	2400	4.5	760

(296) 01576000 SUSQUEHANNA RIVER AT MARIETTA, PA.

LOCATION.--Lat 40°03'16", long 76°31'52", Lancaster County, on left bank, 420 ft upstream from Chickies Creek and 1 mile downstream from Marietta.

DRAINAGE AREA.--25,990 sq mi, approximately (includes that of Chickies Creek).

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals except 1900 hours June 22 to 1100 hours June 28, for which graph was constructed on basis of records for Safe Harbor Dam. Datum of gage is 200.56 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,080,000 cfs 2100 hours June 23 and 0200 to 0800 hours June 24 (gage height, 64.54 ft, from floodmark).
1889 to May 1972: Discharge, 787,000 cfs Mar. 19, 1936 (gage height, 60.73 ft).

REMARKS.--Flow regulated by many reservoirs (combined capacity, about 540,000 acre ft, excluding Raystown Reservoir, which was under construction in 1972).

COOPERATION.--Gage-height record furnished by Safe Harbor Water Power Corp.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	46,300	165,000	11...	31,000	65,500	21...	0	42,700
2....	55,900	146,000	12...	30,200	63,000	22...	0	38,500
3....	56,300	136,000	13...	28,800	57,100	23...	0	36,400
4....	53,000	112,000	14...	28,700	50,800	24...	0	33,200
5....	52,200	91,500	15...	27,000	45,600	25...	0	29,700
6....	45,500	84,700	16...	26,100	41,400	26...	0	26,700
7....	43,800	80,600	17...	0	59,500	27...	0	24,800
8....	44,100	75,100	18...	0	75,200	28...	235,000	23,500
9....	41,500	68,700	19...	0	58,600	29...	198,000	21,800
10...	34,800	65,200	20...	0	49,900	30...	178,000	20,200
						31...		19,100
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							41,900	61,500
RUNOFF,IN INCHES.....							1.80	2.73

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
		Suspended sediment			Suspended sediment	
	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day
1	2,150	1,020	5,920	1,270	38	130
2	517	105	147	1,090	34	100
3	564	60	91	990	32	86
4	788	345	734	926	27	68
5	1,000	1,430	3,860	910	25	61
6	551	350	521	902	23	56
7	499	175	236	809	20	44
8	445	145	174	750	16	32
9	405	130	142	817	14	31
10	380	118	121	700	11	21
11	360	108	105	645	8	14
12	320	96	83	610	7	12
13	350	100	94	2,800	950	7,180
14	390	105	111	1,720	240	1,110
15	372	108	108	886	75	179
16	346	115	107	862	28	65
17	687	260	482	926	31	78
18	433	140	164	736	24	48
19	487	130	171	693	21	39
20	481	115	149	619	19	32
21	659	175	549	586	17	27
22	24,600	2,240	138,000	567	17	26
23	47,600	1,000	153,000	523	16	23
24	4,770	186	3,220	499	16	22
25	2,170	60	352	487	15	20
26	1,540	55	229	475	15	19
27	1,310	45	159	441	14	17
28	1,100	42	125	435	13	15
29	1,400	50	189	413	14	16
30	1,690	65	297	397	14	15
31	-	-	-	402	14	15
Total	-	-	309,640	-	-	9,601
Mean	3,279	-	-	803	-	-
Inches	11.29	-	-	2.86	-	-
Ac-ft	195,100	-	203	49,400	-	6.30

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second
June 21					June 23				
0030	3.85	405	115	0.001	2000	14.00	15,000	675	0.32
1400	3.85	405	110	.001	2400	11.20	9,560	545	.16
1800	4.29	687	130	.003					
2130	5.15	1,350	300	.01	June 24				
2400	6.43	2,600	910	.07	0600	8.80	5,700	210	.04
					1245	7.65	4,100	118	.02
June 22					2400	6.60	2,800	78	.007
0100	6.94	3,200	1,150	.12					
0500	7.75	4,240	2,200	.29	June 25				
0700	9.52	6,780	2,680	.57	1200	6.00	2,170	60	.004
1100	13.03	13,000	3,260	1.32	2400	5.60	1,800	55	.003
1500	18.74	26,400	2,530	2.08					
2000	24.00	53,000	1,770	2.93	June 26				
2400	26.80	78,000	1,520	3.70	2400	5.20	1,430	50	.002
June 23					June 27				
0400	27.80	88,300	1,320	3.65	2400	5.00	1,270	47	.002
0800	26.00	70,000	1,160	2.53					

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	38.05	46,700	6-23	0600	61.2	837,000	6-26	1200	57.2	615,000
6-21	1400	37.80	43,500	6-23	1600	64.2	1,050,000	6-26	2400	54.2	484,000
6-21	2000	38.08	47,100	6-23	2100	64.54	1,080,000				
6-21	2200	38.36	50,900	6-23	2400	64.4	1,070,000				
6-21	2400	39.53	68,500					6-27	2400	49.0	303,000
				6-24	0500	64.5	1,080,000				
6-22	0200	41.25	98,700	6-24	1800	63.8	1,020,000	6-28	1200	47.19	249,000
6-22	0600	45.66	207,000	6-24	2400	63.0	960,000	6-28	2400	46.22	222,000
6-22	1200	52.01	402,000								
6-22	1600	54.92	513,000								
6-22	2200	57.7	640,000	6-25	1200	61.7	869,000	6-29	2400	44.76	183,000
6-22	2400	59.1	711,000	6-25	2400	59.7	747,000				
								6-30	2400	44.52	176,000
6-23	0200	60.3	783,000								

(297) 01576320 STONY RUN AT REAMSTOWN, PA.

(Crest-stage station)

LOCATION.--Lat 40°12'44", long 76°07'30", Lancaster County, at double-arch bridge, 0.1 mile southeast of U. S. Highway 222, 0.1 mile northwest of Reamstown, and 0.7 mile above mouth.

DRAINAGE AREA.--3.55 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 370 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200 cfs and by slope-area measurement at 996 cfs.

MAXIMUMS.--June-July 1972: Discharge, 995 cfs June 22 gage height, 7.00 ft).
1964 to May 1972: Discharge, 890 cfs Sept. 10, 1968 (gage height, 6.30 ft).

(298) 01576500 CONESTOGA CREEK AT LANCASTER, PA.

LOCATION.--Lat 40°03'00", long 76°16'39", Lancaster County, on left bank at Penn Central Railroad Bridge, 50 ft downstream from small tributary, 500 ft downstream from diversion dam of city water works, and 0.75 mile east of Lancaster

DRAINAGE AREA.--324 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 10-14, 1500 hours June 22 to 1430 hours June 29, and July 15-31. Graph constructed for June 22-27 on basis of partial record, flood marks, two readings of the gage made June 24, and correlation with records for Swatara Creek at Harpers Tavern. Datum of gage is 245.63 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,000 cfs, by slope-area measurement at 22,800 cfs, and by contracted-opening measurement at 88,300 cfs. Record for June 10-14, 28-29, and July 13-31 estimated on basis of weather records and correlation with records for nearby stations.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained once daily, except more frequently during periods of high flow.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily sediment concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 22	-	-	2,240	138,000
June 23, 0400 hours	88,300	a 27.80	-	-
June 23	-	-	1,000	153,000
1929 to May 1972:				
Aug. 24, 1933	22,800	17.52		

a From floodmarks.

(299) 01577500 MUDDY CREEK AT CASTLE FIN, PA.

(Gaging station, discontinued 1971)

LOCATION.--Lat 39°46'21", long 76°18'58", York County, on right bank 200 ft upstream from highway bridge on Legislative Route 66062, 0.8 mile northeast of Castle Fin, and 3.4 miles upstream from mouth.

DRAINAGE AREA.--133 sq mi.

GAGE-HEIGHT RECORD.--Peak stage only. Datum of gage is 175.5 ft above mean sea level; prior to 1968 at datum 174.42 ft above mean sea level, datum of 1910.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 800 cfs, by slope-area measurement at 9,230 cfs, and extended above by logarithmic plotting. Prior to 1968 stage-discharge relation extended above 7,600 cfs on basis of computation of flow over dam at 16,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, about 18,000 cfs June 22 (gage height, 20.5 ft, from floodmarks).
1929 to 1938, 1968 to 1971: Discharge, 16,600 cfs Aug. 23, 1933 (gage height, 21.11 ft, from floodmarks in gage shelter, datum then in use).

(300) 01577940 BROAD CREEK TRIBUTARY AT WHITEFORD, MD.

(Crest-stage station)

LOCATION.--Lat 39°42'30", long 76°21'49", at upstream side of culvert at State Highway 165, 0.8 mile above mouth, and 1.0 mile southwest of Whiteford, Harford County.

DRAINAGE AREA.--0.77 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 390 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 310 cfs June 22 (gage height, 9.65 ft, from floodmarks).
1971 to May 1972: Discharge, 156 cfs Aug. 28, 1971 (gage height, 6.62 ft).

(301) 01578200 CONOWINGO CREEK NEAR BUCK, PA.

(Crest-stage station)

LOCATION.--Lat 39°50'35", long 76°11'45", Lancaster County, at concrete bridge on L.R. 36135, 2 miles above Jackson Run, and 2.5 miles southeast of Buck.

DRAINAGE AREA.--8.71 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 480 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 60 cfs and by slope-area measurements at 643 and 1,270 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,270 cfs June 22 (gage height, 7.76 ft).
1963 to May 1972: Discharge, 693 cfs August 4, 1970 (gage height, 6.94 ft).

(302) 01578310 SUSQUEHANNA RIVER AT CONOWINGO, MD.

LOCATION.--Lat 39°39'31", long 76°10'28", Harford County, at downstream side of Conowingo Dam, 1.0 mile southwest of Conowingo, and 9.9 miles upstream from mouth.

DRAINAGE AREA.--27,100 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 5.00 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,130,000 cfs 0545 hours June 24 (gage height, 36.83 ft).
1968 to May 1972: Discharge, 434,000 cfs Feb. 4, 1970 (gage height, 26.40 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	52,200	141,000	11...	24,100	67,200	21..	50,400	40,000
2....	61,400	126,000	12...	35,500	64,100	22..	445,000	35,900
3....	51,000	132,000	13...	33,900	63,500	23..	1,040,000	31,900
4....	47,600	97,600	14...	34,000	52,300	24..	1,120,000	38,400
5....	57,800	91,800	15...	34,200	43,600	25..	1,010,000	35,800
6....	52,300	80,700	16...	33,400	36,900	26..	696,000	26,700
7....	47,900	80,600	17...	31,600	56,500	27..	418,000	28,000
8....	46,400	71,000	18...	31,200	70,500	28..	254,000	30,500
9....	44,600	59,600	19...	51,100	64,700	29..	193,000	11,800
10...	32,000	66,600	20...	54,200	52,300	30..	157,000	12,300
						31..		20,900
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							208,000	59,100
RUNOFF, IN INCHES.....							8.57	2.51

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	13.84	41,000	6-22	1800	30.57	691,000	6-24	0545	36.83	1,130,000
				6-22	2000	31.91	785,000	6-24	1200	36.76	1,130,000
				6-22	2200	31.64	766,000	6-24	2400	36.46	1,110,000
6-21	0200	8.22	3,060	6-22	2400	32.48	825,000				
6-21	0600	7.48	1,070								
6-21	0800	7.87	2,010					6-25	0600	36.03	1,070,000
6-21	1000	16.02	69,300	6-23	0200	34.31	953,000	6-25	1200	35.35	1,030,000
6-21	1600	16.05	69,700	6-23	0400	35.13	1,010,000	6-25	1800	34.35	956,000
6-21	1800	16.38	74,700	6-23	0600	34.80	987,000	6-25	2400	33.00	861,000
6-21	2400	16.76	81,300	6-23	0800	35.02	1,000,000				
				6-23	1200	35.82	1,060,000				
				6-23	1600	36.12	1,080,000	6-26	1200	30.61	694,000
6-22	0600	16.87	83,300	6-23	2000	36.38	1,100,000	6-26	2400	28.38	545,000
6-22	0800	20.83	181,000	6-23	2400	36.74	1,130,000				
6-22	1000	25.09	362,000								
6-22	1200	28.85	575,000					6-27	1200	26.24	425,000
6-22	1400	28.80	572,000	6-24	0200	36.77	1,130,000	6-27	2400	23.80	296,000
6-22	1600	31.07	726,000								

(303) 01578400 BOWERY RUN NEAR QUARRYVILLE, PA.

LOCATION.--Lat 39°53'41", long 76°06'50", Lancaster County, on left bank at single-span bridge, 1.1 miles upstream from mouth, and 2.5 miles east of Quarryville.

DRAINAGE AREA.--5.98 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, doubtful July 10-31. Datum of gage is 468.08 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 150 cfs and by slope-area measurement at 2,220 cfs. Record for July 10-31 estimated on basis of correlation with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 1,050 cfs 0700 hours June 22 (gage height, 6.55 ft).
1963 to May 1972: Discharge, 2,220 cfs July 3, 1964 (gage height, 7.7 ft, from floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	17	13	11...	6.9	12	21...	58	9.8
2....	12	13	12...	6.9	12	22...	256	9.6
3....	11	13	13...	9.0	79	23...	20	9.4
4....	118	13	14...	9.4	13	24...	11	9.2
5....	18	16	15...	7.3	12	25...	12	9.0
6....	11	13	16...	8.3	13	26...	8.7	8.6
7....	9.0	13	17...	9.0	13	27...	8.3	8.6
8....	8.0	19	18...	7.3	11	28...	9.0	8.4
9....	7.6	14	19...	7.6	11	29...	15	8.2
10...	7.3	12	20...	6.9	10	30...	14	8.2
						31...		8.2
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							24	14
RUNOFF, IN INCHES.....							4.41	2.63

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.67	257	6-22	2400	17.15	24,800	6-25	1215	5.94	1,180
6-21	1530	4.78	296					6-25	2245	5.83	1,060
6-21	2000	4.88	336					6-25	2400	5.80	1,030
6-21	2100	5.24	519	6-23	0015	16.94	24,300				
6-21	2345	6.25	1,320	6-23	0715	9.69	7,180				
6-21	2400	6.27	1,340	6-23	0815	7.41	3,060	6-26	0030	5.79	1,020
				6-23	0900	6.60	1,940	6-26	2400	5.50	740
				6-23	1030	6.24	1,510				
6-22	0130	6.60	1,690	6-23	2000	6.42	1,720				
6-22	0515	6.50	1,580	6-23	2400	6.35	1,640	6-27	0030	5.50	740
6-22	0600	6.97	2,150					6-27	2400	5.34	618
6-22	0645	8.24	4,160								
6-22	0745	10.10	8,080	6-24	0045	6.34	1,630				
6-22	1130	11.75	11,800	6-24	2400	5.84	1,070	6-28	0030	5.34	618
6-22	1400	15.20	20,100					6-28	2400	5.23	545
6-22	1700	18.92	29,000								

(305) 01578800 BASIN RUN AT WEST NOTTINGHAM, MD.

(Crest-stage station)

LOCATION.--Lat 39°39'23", long 76°04'30", at upstream side of culvert at State Highway 276, 0.9 mile south of West Nottingham, Cecil County, and 2.9 miles south of Rising Sun.

DRAINAGE AREA.--1.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 280 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, about 640 cfs June 22 (gage height, 11.80 ft, from floodmarks).
1967 to May 1972: Discharge, about 825 cfs Aug. 9, 1967 (gage height, 13.60 ft, from floodmarks).

(306) 01579000 BASIN RUN AT LIBERTY GROVE, MD.

(Flood-hydrograph station; gaging station discontinued 1958)

LOCATION.--Lat 39°39'30", long 76°06'10", Cecil County, on left bank 100 ft upstream from highway bridge, 0.9 mile east of Liberty Grove, 1.0 mile southwest of Colora, and 3 miles upstream from mouth.

DRAINAGE AREA.--5.31 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Altitude of gage is 220 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 670 cfs and by slope-area measurements at 1,200 cfs and 2,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,560 cfs 0815 hours June 22 (gage height, 6.92 ft).
1949-58, 1965 to May 1972: Discharge, 3,500 cfs Aug. 9, 1967 (gage height, 7.66 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.01	7.7	6-22	0400	1.40	34	6-22	1900	1.86	136
				6-22	0500	1.69	81	6-22	2000	1.68	79
				6-22	0600	2.60	310	6-22	2200	1.60	61
6-21	0600	1.05	9.8	6-22	0700	4.55	978	6-22	2300	1.69	81
6-21	1200	1.08	11	6-22	0800	6.65	2,320	6-22	2400	1.68	79
6-21	1300	1.15	15	6-22	0815	6.92	2,560				
6-21	1400	1.26	23	6-22	0900	5.65	1,570				
6-21	1600	1.29	25	6-22	1000	4.36	892	6-23	0400	1.45	40
6-21	2000	1.17	17	6-22	1100	3.67	625	6-23	0800	1.38	32
6-21	2100	1.54	51	6-22	1200	3.68	628	6-23	1200	1.50	45
6-21	2200	2.09	196	6-22	1300	4.10	785	6-23	1800	1.29	25
6-21	2300	1.90	148	6-22	1315	4.16	809	6-23	2400	1.22	20
6-21	2400	1.62	65	6-22	1400	3.96	729				
				6-22	1600	2.60	310				
				6-22	1700	2.14	207	6-24	2400	1.13	14
6-22	0200	1.52	48								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.26	9.3	6-22	0600	4.66	162	6-23	0845	3.48	23
6-21	1215	3.32	11	6-22	0615	5.17	291	6-23	1045	3.52	25
6-21	1330	3.39	14	6-22	0630	5.87	584	6-23	1915	3.28	13
6-21	1345	3.46	17	6-22	0700	6.55	1,050	6-23	2400	3.23	11
6-21	1415	3.84	42	6-22	0730	6.18	773				
6-21	1430	4.08	66	6-22	0745	6.35	893				
6-21	1500	4.58	137	6-22	0830	5.16	288	6-24	2045	3.12	9.0
6-21	1715	3.89	47	6-22	0900	5.05	256	6-24	2215	3.14	9.6
6-21	1830	3.61	25	6-22	1000	5.20	300	6-24	2300	3.25	14
6-21	2015	3.46	17	6-22	1030	5.45	389	6-24	2400	3.54	29
6-21	2045	3.47	18	6-22	1130	5.00	242				
6-21	2100	3.65	28	6-22	1200	5.31	337				
6-21	2115	4.16	75	6-22	1215	5.60	450	6-25	0015	3.53	30
6-21	2200	5.73	487	6-22	1230	5.65	473	6-25	0200	3.28	16
6-21	2215	5.82	531	6-22	1300	6.04	683	6-25	0445	3.18	12
6-21	2230	5.77	506	6-22	1400	5.90	600	6-25	0645	3.22	13
6-21	2315	4.99	226	6-22	1430	5.43	381	6-25	0815	3.34	19
6-21	2400	4.45	116	6-22	1445	5.25	317	6-25	1230	3.16	11
				6-22	1515	5.63	464	6-25	2015	3.08	8.2
				6-22	1615	5.55	429	6-25	2400	3.07	8.0
6-22	0200	3.84	47	6-22	1845	4.41	118				
6-22	0345	3.62	29	6-22	2000	4.01	63				
6-22	0415	3.70	35	6-22	2400	3.67	33	6-26	0045	3.07	9.3
6-22	0430	3.92	54					6-26	0500	3.07	9.3
6-22	0445	3.97	59					6-26	2400	3.02	7.5
6-22	0515	4.28	98	6-23	0015	3.65	34				
6-22	0545	4.42	119	6-23	0715	3.40	19				

(304) 01578500 OCTORARO CREEK NEAR RISING SUN, MD.

LOCATION.--Lat 39°41'24", long 76°07'43", Cecil County, on right bank at downstream side of Porter Bridge, 300 ft downstream from Love Run, 3.5 miles west of Rising Sun, and 3.5 miles upstream from mouth.

DRAINAGE AREA.--193 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1600 hours June 22 to 1400 hours June 23 when water-stage-recorder graph was used. Datum of gage is 73.77 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,000 cfs and by contracted-opening measurement at 29,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 29,000 cfs 1700 hours June 22 (gage height, 18.92 ft). 1933-58, 1963 to May 1972: Discharge, 35,000 cfs Aug. 9, 1942 (gage height, 17.57 ft), from stage-discharge relation defined by current-meter measurements below 5,000 cfs and velocity-area studies.
Floods of 1884 and 1918 reached stages of 24.3 and 16.5 ft, respectively, from floodmarks.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	778	660	11...	214	351	21...	366	291
2....	380	501	12...	203	320	22...	15,000	283
3....	275	449	13...	244	1,460	23...	6,300	275
4....	283	427	14...	312	1,230	24...	1,340	263
5....	1,150	460	15...	292	501	25...	1,110	251
6....	458	477	16...	338	390	26...	860	247
7....	320	405	17...	426	426	27...	676	239
8....	263	416	18...	291	351	28...	577	239
9....	241	507	19...	315	329	29...	577	232
10...	230	395	20...	285	307	30...	740	228
						31...		239
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,160	424
RUNOFF, IN INCHES							6.71	2.53

(307) 01580000 DEER CREEK AT ROCKS, MD.

LOCATION.--Lat 39°37'49", long 76°24'13", Harford County, on right bank 0.3 mile upstream from highway bridge on Cherry Hill Road, 0.8 mile southeast of Rocks, 1.2 miles upstream from Stirrup Run, and 23.5 miles upstream from mouth.

DRAINAGE AREA.--94.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 250.40 ft above mean sea level (city of Baltimore bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,000 cfs and by slope-area measurements at 6,000 cfs and 13,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,200 cfs 1230 hours June 22 (gage height, 17.09 ft). 1888 to May 1972: Discharge, 13,600 cfs Aug. 23, 1933 (gage height, 17.7 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	255	372	11...	131	255	21...	678	215
2....	171	328	12...	127	246	22...	6,610	207
3....	154	307	13...	130	574	23...	2,010	201
4....	304	289	14...	162	280	24...	968	195
5....	301	346	15...	140	245	25...	765	191
6....	174	300	16...	196	342	26...	507	184
7....	162	276	17...	263	336	27...	423	183
8....	147	627	18...	153	308	28...	374	187
9....	140	363	19...	248	239	29...	626	180
10...	135	277	20...	157	224	30...	680	179
						31...		181
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							576	279
RUNOFF, IN INCHES							6.81	3.40

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.55	150	6-22	0630	10.12	4,570				
6-21	1200	2.66	183	6-22	0730	11.71	5,690	6-25	0200	4.43	998
6-21	1300	2.73	204	6-22	0930	15.27	8,980	6-25	0230	4.42	992
6-21	1400	3.02	297	6-22	1230	17.09	12,200	6-25	2330	3.68	570
6-21	1430	3.02	297	6-22	1330	16.91	11,800	6-25	2400	3.68	570
6-21	1530	3.71	585	6-22	1930	12.10	5,960				
6-21	1600	4.25	890	6-22	2400	9.09	3,850				
6-21	1800	4.12	812					6-26	0030	3.67	565
6-21	2000	3.72	590					6-26	2400	3.43	452
6-21	2030	4.02	752	6-23	0030	8.70	3,580				
6-21	2100	4.80	1,220	6-23	0530	6.45	2,210				
6-21	2230	8.21	3,270	6-23	2400	4.82	1,230	6-27	0030	3.42	448
6-21	2400	9.15	3,900					6-27	2400	3.26	384
				6-24	0030	4.81	1,230				
6-22	0200	8.75	3,620	6-24	2330	4.02	752	6-28	0130	3.26	384
6-22	0400	6.34	2,140	6-24	2400	4.06	776	6-28	2400	3.18	353
6-22	0500	6.68	2,350								

(308) 01580200 DEER CREEK NEAR KALMIA, MD.

LOCATION.--Lat 39°37'16", long 76°17'57", Harford County, on left bank 50 ft upstream from bridge on U. S. Highway 1, 1 mile north of Kalmia, 6.5 miles northeast of Bel Air, and 12.5 miles upstream from mouth.

DRAINAGE AREA.--125 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 145 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 16,800 cfs 1500 hours June 22 (gage height, 16.08 ft). 1968 to May 1972: Discharge, 6,130 cfs Aug. 27, 1967 (gage height, 10.45 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	369	507	11...	168	333	21...	824	278
2....	220	427	12...	163	314	22...	10,100	268
3....	198	395	13...	165	955	23...	2,780	260
4....	252	367	14...	200	401	24...	1,080	254
5....	499	451	15...	181	333	25...	895	247
6....	220	395	16...	335	438	26...	644	239
7....	207	351	17...	415	521	27...	538	234
8....	187	782	18...	202	392	28...	470	241
9....	179	635	19...	394	315	29...	774	232
10...	174	372	20...	217	291	30...	924	231
						31...		235
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							799	377
RUNOFF,IN INCHES.....							7.13	3.48

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.95	200	6-22	1530	16.02	16,700	6-25	0630	4.99	1,070
6-21	1230	3.09	243	6-22	2400	10.93	7,000	6-25	1030	4.78	948
6-21	1400	3.30	310					6-25	2400	4.32	710
6-21	1530	3.98	572								
6-21	1800	3.86	524	6-23	0030	10.69	6,670				
6-21	2000	4.95	1,070	6-23	0500	7.71	3,180	6-26	0030	4.31	705
6-21	2030	5.50	1,450	6-23	1000	6.87	2,420	6-26	2400	4.03	579
6-21	2200	8.35	3,800	6-23	2030	5.90	1,660				
6-21	2400	8.70	4,180	6-23	2400	5.52	1,390				
								6-27	0100	4.02	574
								6-27	2400	3.83	489
6-22	0500	9.32	4,920	6-24	0030	5.48	1,370				
6-22	0630	11.36	7,600	6-24	2400	4.65	875				
6-22	0800	13.50	11,100					6-28	0030	3.83	489
6-22	1130	13.96	12,000					6-28	2400	3.73	444
6-22	1500	16.08	16,800	6-25	0330	4.85	990				

BUSH RIVER BASIN

(309) 01581500 BYNUM RUN AT BEL AIR, MD.

(Crest-stage station; gaging station discontinued 1970)

LOCATION.--Lat 39°32'30", long 76°19'50", Harford County, on right bank 30 ft downstream from bridge on State Highway 22, 1.0 mile east of Bel Air, and 8.5 miles upstream from mouth.

DRAINAGE AREA.--8.52 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 251.43 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 800 cfs and by slope-area measurement at 1,650 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,650 cfs June 22 (gage height, 8.32 ft).
1945-50, 1956 to May 1972: Discharge, 3,620 cfs July 19, 1945 (gage height, 6.25 ft), from rating curve extended above 560 cfs on basis of contracted-opening measurement at 3,080 cfs.

(310) 01581700 WINTERS RUN NEAR BENSON, MD.

LOCATION.--Lat 39°31'12", long 76°22'24", Harford County, on left bank 30 ft downstream from bridge on U. S. Highway 1, 0.1 mile upstream from Heavenly Waters, 1.2 miles northeast of Benson, 1.8 miles southwest of Bel Air, and 10.5 miles upstream from mouth.

DRAINAGE AREA.--34.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1100 hours June 22 to 1300 hours June 23, for which record was reconstructed on basis of weather records and normal recession curve. Altitude of gage is 195 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 7,600 cfs 0600 hours June 22 (gage height, 11.60 ft).
1968 to May 1972: Discharge, 5,350 cfs Sept. 11, 1971 (gage height, 8.96 ft).

ELEVATION, IN FEET, AND CONTENTS, IN MILLION GALLONS, AT 2400 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	520.42	20,100	520.59	20,200	16	520.27	20,000	520.67	20,200
2	520.32	20,000	520.49	20,100	17	520.25	20,000	520.59	20,200
3	520.30	20,000	520.46	20,100	18	520.25	20,000	520.46	20,100
4	520.33	20,000	520.43	20,100	19	520.24	20,000	520.38	20,000
5	520.32	20,000	520.53	20,100	20	520.25	20,000	520.36	20,000
6	520.30	20,000	520.46	20,100	21	525.07	22,400	520.33	20,000
7	520.28	20,000	520.43	20,100	22	523.00	21,400	520.32	20,000
8	520.28	20,000	520.51	20,100	23	521.60	20,700	520.31	20,000
9	520.20	20,000	520.44	20,100	24	521.10	20,400	520.29	20,000
10	520.18	19,900	520.48	20,100	25	520.85	20,300	520.29	20,000
11	520.18	19,900	520.39	20,100	26	520.70	20,200	520.28	20,000
12	520.18	19,900	520.37	20,000	27	520.60	20,200	520.28	20,000
13	520.23	20,000	520.42	20,100	28	520.55	20,100	520.29	20,000
14	520.25	20,000	520.37	20,000	29	520.90	20,300	520.28	20,000
15	520.23	20,000	520.35	20,000	30	520.70	20,200	520.28	20,000
					31			520.29	20,000
CHANGE IN CONTENTS							+100		-200

(312) 01582000 LITTLE FALLS AT BLUE MOUNT, MD.

LOCATION.--Lat 39°36'16", long 76°37'16", Baltimore County, on left bank at downstream side of Pennsylvania Railroad bridge, 0.2 mile north of Blue Mount, 0.6 mile upstream from mouth, 0.9 mile downstream from First Mine Branch, and 1.2 miles south of White Hall.

DRAINAGE AREA.--52.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 305 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,300 cfs and by contracted-opening measurement at 8,280 cfs.

MAXIMUMS.--June-July 1972: Discharge, 8,280 cfs 0830 hours June 22 (gage height, 18.54 ft).
1945 to May 1972: Discharge, 5,730 cfs Sept. 10, 1950 (gage height, 11.93 ft in gage well, 13.32 ft, from floodmark), from rating curve extended above 1,300 cfs on basis of contracted-opening measurement at 5,730 cfs.
Flood of August 1933 reached a stage of about 14 ft, from information by Pennsylvania Railroad.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	147	231	11...	78	149	21...	345	120
2....	100	205	12...	78	145	22...	4,730	115
3....	92	194	13...	79	161	23...	1,120	111
4....	166	181	14...	92	141	24...	496	108
5....	130	227	15...	82	133	25...	434	105
6....	94	187	16...	96	382	26...	317	101
7....	89	172	17...	89	191	27...	271	102
8....	84	282	18...	86	149	28...	244	103
9....	82	182	19...	82	134	29...	341	101
10...	79	159	20...	79	126	30...	391	102
						31...		102
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							353	158
RUNOFF,IN INCHES.....							7.45	3.45

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.04	82	6-21	2200	4.80	1,360				
6-21	1130	1.14	100	6-21	2330	6.13	2,020	6-23	0030	5.96	1,930
6-21	1300	1.44	166	6-21	2400	6.09	2,000	6-23	0700	4.48	1,220
6-21	1330	1.70	228					6-23	1130	4.79	1,360
6-21	1400	2.39	417					6-23	1700	3.45	780
6-21	1430	2.65	498	6-22	0200	6.10	2,000	6-23	2400	2.98	613
6-21	1530	2.21	363	6-22	0500	7.99	2,990				
6-21	1800	1.81	254	6-22	0830	18.54	8,280				
6-21	2000	1.55	192	6-22	1900	10.07	4,240	6-24	0030	2.95	603
6-21	2030	1.75	240	6-22	2230	6.53	2,220	6-24	2200	2.45	435
6-21	2100	2.23	369	6-22	2400	6.03	1,970	6-24	2400	2.69	512
6-21	2130	3.04	634								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	79	104	11...	47	88	21...	339	79
2....	57	85	12...	46	83	22...	3,000	77
3....	54	88	13...	47	263	23...	380	74
4....	113	83	14...	53	86	24...	164	70
5....	89	113	15...	49	73	25...	136	69
6....	57	89	16...	84	221	26...	117	65
7....	53	80	17...	92	144	27...	101	64
8....	49	302	18...	54	101	28...	93	66
9....	48	134	19...	132	91	29...	222	64
10...	48	98	20...	63	81	30...	256	66
						31...		69
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							204	102
RUNOFF,IN INCHES.....							6.54	3.39

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.38	58	6-22	0345	3.51	584	6-23	2400	2.29	198
6-21	0630	1.41	61	6-22	0400	4.55	1,060				
6-21	1115	1.54	80	6-22	0430	6.53	2,320				
6-21	1300	1.76	120	6-22	0530	10.91	6,770	6-24	0100	2.29	198
6-21	1330	1.90	151	6-22	0600	11.60	7,600	6-24	2400	2.00	138
6-21	1445	2.06	188	6-22	0715	11.16	7,070				
6-21	1615	2.29	247	6-22	1045	8.88	4,380				
6-21	1800	2.05	186	6-22	1200	9.12	4,620	6-25	1430	2.01	140
6-21	1900	1.95	163	6-22	1400	8.64	4,140	6-25	2400	1.94	126
6-21	1915	2.03	181	6-22	1600	6.50	2,300				
6-21	1945	2.70	380	6-22	1800	5.05	1,350				
6-21	2015	3.35	635	6-22	2000	4.40	980	6-26	0230	1.94	126
6-21	2100	5.26	1,720	6-22	2400	3.50	580	6-26	2400	1.85	108
6-21	2115	5.48	1,880								
6-21	2215	5.28	1,740								
6-21	2400	4.40	980	6-23	0200	3.30	505	6-27	0230	1.85	108
				6-23	0600	3.00	400	6-27	2400	1.78	94
				6-23	0800	3.00	400				
6-22	0130	3.49	576	6-23	1000	3.60	620				
6-22	0300	2.92	376	6-23	1245	3.08	428	6-28	2045	1.78	94
6-22	0330	3.03	411	6-23	1845	2.53	259	6-28	2400	1.75	88

GUNPOWDER RIVER BASIN

(311) 01581900 PRETTYBOY RESERVOIR NEAR HEREFORD, MD.

LOCATION.--Lat 39°37'12", long 76°42'25", Baltimore County, on Gunpowder Falls at dam, 3.2 miles northwest of Hereford.

DRAINAGE AREA.--79.8 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph operated by Baltimore Department of Public Works. Datum of gage is mean sea level (general adjustment of 1912).

CONTENTS RECORD.--Contents furnished by Baltimore Department of Public Works.

MAXIMUMS.--June-July 1972: Contents, 22,480,000,000 gal 0200 hours June 22 (elevation, 525.12 ft).
April 1933 to May 1972: Contents, 21,110,000,000 gal Sept. 16, 1934 (elevation, 522.46 ft).

REMARKS.--Reservoir is formed by concrete dam. Storage began April 10, 1933, during construction. Total capacity, 19,850,000,000 gal between elevations 420 and 520 ft (crest of spillway). Water is used for municipal supply of Baltimore.

(313) 01582510 PINEY CREEK NEAR HEREFORD, MD.

(Crest-stage station)

LOCATION.--Lat 39°34'38", long 76°40'39", at upstream side of culvert at Interstate Route 83, 1.1 miles southwest of Hereford, Baltimore County, and 6.7 miles northwest of Cockeysville.

DRAINAGE AREA.--1.5 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 460 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,370 cfs June 22 (gage height, 19.4 ft, from flood-marks).
1966 to May 1972: Discharge, 790 cfs Sept. 11, 1971 (gage height, 13.27 ft).

(314) 01583000 SLADE RUN NEAR GLYNDON, MD.

LOCATION.--Lat 39°29'40", long 76°47'45", Baltimore County, on left bank at downstream side of bridge on Longnecker Road, 1.1 miles upstream from mouth, 1.6 miles northeast of Glyndon, and 2.6 miles northeast of Reisterstown.

DRAINAGE AREA.--2.09 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 420 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 92 cfs and by slope-area measurement at 220 cfs.

MAXIMUMS.--June-July 1972: Discharge, 515 cfs 0045 hours June 22 (gage height, 4.80 ft).
1948 to May 1972: Discharge, 485 cfs July 21, 1956 (gage height, 4.68).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	5.3	8.0	11...	4.0	6.0	21...	11	5.5
2....	4.4	6.9	12...	4.0	6.0	22...	109	5.3
3....	4.4	9.5	13...	4.0	6.4	23...	31	5.3
4....	4.3	7.5	14...	4.0	6.0	24...	17	5.3
5....	4.3	10	15...	4.0	5.7	25...	14	5.0
6....	4.3	8.8	16...	4.1	11	26...	12	4.6
7....	4.3	7.6	17...	4.1	7.8	27...	10	4.7
8....	4.1	6.6	18...	4.0	6.6	28...	9.2	4.7
9....	4.0	6.3	19...	4.1	6.0	29...	17	4.7
10...	4.0	6.1	20...	4.0	5.7	30...	13	4.7
						31...		4.8
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							11	6.4
RUNOFF,IN INCHES.....							5.82	3.54

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.35	4.6	6-21	2330	2.45	36	6-22	1815	2.23	44
6-21	1215	1.38	5.0	6-21	2345	2.93	69	6-22	2400	2.14	39
6-21	1245	1.48	6.2	6-21	2400	3.49	151				
6-21	1315	1.77	11								
6-21	1445	1.45	6.0					6-23	0600	2.15	39
6-21	1815	1.36	4.7	6-22	0030	4.74	488	6-23	0845	2.18	41
6-21	1915	1.39	5.1	6-22	0045	4.80	515	6-23	1130	2.06	35
6-21	1945	1.58	7.8	6-22	0115	4.66	452	6-23	1915	1.80	23
6-21	2000	1.88	14	6-22	0130	4.51	385	6-23	2400	1.74	21
6-21	2045	2.70	50	6-22	0200	4.71	475				
6-21	2115	2.66	48	6-22	0330	3.59	165				
6-21	2215	2.21	24	6-22	0515	2.90	89	6-24	0030	1.74	21
6-21	2300	2.12	21	6-22	0700	2.58	66	6-24	2400	1.56	15
6-21	2315	2.17	23	6-22	1215	2.73	76				

(315) 01583495 WESTERN RUN TRIBUTARY AT WESTERN RUN, MD.

(Crest-stage station)

LOCATION.--Lat 39°31'01", long 76°41'04", at upstream side of culvert at Western Run Road, 0.3 mile northeast of Western Run, Baltimore County, and 3.0 miles northwest of Cockeysville.

DRAINAGE AREA.--0.26 sq mi.

GAGE-HEIGHT RECORD.--Stage record destroyed by backwater from Western Run. Altitude of gage is 280 ft (from topographic map).

DISCHARGE RECORD.--Maximum discharge by slope-area measurement.

MAXIMUMS.--June-July 1972: Discharge, 515 cfs June 22.
1966 to May 1972: Discharge, 236 cfs Aug. 27, 1967 (gage height, 8.11 ft), from stage-discharge relation defined by computation of flow through culvert and by slope-area measurement of peak flow.

(316) 01583500 WESTERN RUN AT WESTERN RUN, MD.

LOCATION.--Lat 39°30'38", long 76°40'37", Baltimore County, on right bank 100 ft downstream from bridge on Western Run Road, 0.3 mile southeast of Western Run, 2.5 miles northwest of Cockeysville, 3.2 miles upstream from Beaverdam Run, and 5 miles upstream from mouth.

DRAINAGE AREA.--59.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 0300 hours June 22, when station was overtopped by flood, to 1600 hours June 25 and July 9-13, for which graph was reconstructed on basis of floodmarks, observations of times and flood heights by local residents, and shape of graph for Little Falls at Blue Mount. Datum of gage is 262.78 ft (Baltimore County bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,200 cfs and by slope-area measurements at gage heights 8.55, 9.88, and 26.0 ft, and contracted-opening measurement at gage height 26.0 ft. Discharge June 22-25 and July 9-13 computed on basis of reconstructed graph, weather records, and records for Little Falls at Blue Mount.

MAXIMUMS.--June-July 1972: Discharge, 38,000 cfs about 0430 hours June 22 (gage height, 26.0 ft, from floodmarks).
1945 to May 1972: Discharge, 5,590 cfs July 21, 1956 (gage height, 10.84 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	148	245	11...	73	170	21...	193	132
2....	102	225	12...	73	170	22...	7,000	128
3....	93	248	13...	74	200	23...	700	122
4....	90	218	14...	83	168	24...	380	118
5....	97	210	15...	77	160	25...	280	115
6....	89	190	16...	83	265	26...	238	108
7....	87	175	17...	85	195	27...	205	110
8....	80	170	18...	80	158	28...	188	112
9....	78	180	19...	80	145	29...	337	111
10...	75	170	20...	77	138	30...	606	111
						31...		113
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							395	164
RUNOFF,IN INCHES							7.37	3.16

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.66	88	6-22	0400	15.6	12,300	6-22	1800	5.7	1,550
				6-22	0430	26.0	38,000	6-22	2400	4.8	1,140
				6-22	0600	20.8	23,500				
6-21	1200	1.76	104	6-22	0700	19.6	20,500				
6-21	1800	2.18	186	6-22	0800	18.0	17,000	6-23	1200	3.8	710
6-21	2400	3.90	750	6-22	0900	16.0	13,000	6-23	2400	3.2	470
				6-22	1000	13.6	9,240				
				6-22	1100	11.6	6,500				
6-22	0200	6.40	1,900	6-22	1200	9.4	4,130	6-24	1200	2.90	370
6-22	0300	7.60	2,660	6-22	1400	7.0	2,250	6-24	2400	2.70	310

(319) 01584500 LITTLE GUNPOWDER FALLS AT LAUREL BROOK, MD.

(Crest-stage station; gaging station discontinued 1970)

LOCATION.--Lat 39°30'18", long 76°25'56", Baltimore County, on right bank 700 ft upstream from Laurel Brook, 750 ft upstream from bridge on Bottom Road, 5 miles southwest of Bel Air, and 10.5 miles upstream from mouth.

DRAINAGE AREA.--36.1 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 261.43 ft above mean sea level (city of Baltimore bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,300 cfs and by slope-area measurements at 2,970, 3,100, 3,380 and 9,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,030 cfs June 22 (gage height, 10.18 ft).
1927 to May 1972: Discharge, 9,200 cfs Aug. 23, 1933 (gage height, 10.3 ft).

(320) 01585100 WHITEMARSH RUN AT WHITE MARSH, MD.

LOCATION.--Lat 39°22'15", long 76°26'46", Baltimore County, on left bank at upstream side of bridge on State Highway 7, 1 mile southwest of White Marsh, and 3 miles upstream from mouth.

DRAINAGE AREA.--7.61 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals to 1030 hours June 25 when recorder was removed. Water-stage-recorder graph June 25 to July 31. Datum of gage is 38.96 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,300 cfs and by computation of flow through culvert at 2,170 cfs and computation of flow through culvert and over road at 8,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,170 cfs 0645 hours June 22 (gage height, 10.04 ft).
1960 to May 1972: Discharge, 8,000 cfs Aug. 1, 1971 (gage height, 14.05 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	8.6	13	11...	3.2	5.6	21...	57	6.0
2....	5.2	9.2	12...	3.2	5.2	22...	820	5.2
3....	4.7	63	13...	3.6	33	23...	104	4.8
4....	8.1	16	14...	4.5	8.0	24...	25	4.5
5....	7.2	10	15...	3.6	5.6	25...	21	4.2
6....	5.0	8.0	16...	5.9	33	26...	13	3.4
7....	4.4	6.5	17...	9.1	19	27...	10	3.4
8....	3.9	15	18...	5.4	32	28...	9.2	3.8
9....	3.7	9.2	19...	19	12	29...	93	3.8
10...	3.4	6.5	20...	6.0	8.0	30...	64	3.8
						31...		4.2
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							44	12
RUNOFF,IN INCHES							6.52	1.78

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.47	6.1	6-21	2245	2.15	87	6-22	2100	2.22	100
6-21	0215	1.47	6.1	6-21	2315	2.13	83	6-22	2230	2.21	97
6-21	0315	1.51	8.0	6-21	2345	2.29	118	6-22	2400	2.31	120
6-21	0415	1.59	13	6-21	2400	2.58	185				
6-21	0445	1.75	26								
6-21	0700	1.69	20					6-23	0500	2.17	89
6-21	0800	1.71	22	6-22	0015	2.83	259	6-23	0645	2.44	151
6-21	0930	1.62	15	6-22	0045	3.58	503	6-23	0830	2.63	199
6-21	1015	1.61	14	6-22	0115	3.84	594	6-23	0900	2.82	256
6-21	1045	1.69	20	6-22	0145	3.09	337	6-23	0945	2.84	262
6-21	1115	1.82	34	6-22	0200	2.91	283	6-23	1000	2.81	253
6-21	1130	1.94	51	6-22	0245	3.33	416	6-23	1100	2.50	165
6-21	1145	2.22	102	6-22	0330	3.07	331	6-23	1300	2.26	109
6-21	1215	2.38	139	6-22	0345	3.25	388	6-23	1530	2.06	68
6-21	1415	1.96	54	6-22	0445	6.51	1,240	6-23	2130	1.88	42
6-21	1845	1.70	21	6-22	0600	9.63	1,970	6-23	2400	1.83	36
6-21	1915	1.76	27	6-22	0645	10.04	2,170				
6-21	1930	1.89	43	6-22	0700	9.83	2,070				
6-21	1945	2.10	77	6-22	0900	7.62	1,460	6-24	0015	1.84	37
6-21	2000	2.54	178	6-22	1145	8.91	1,720	6-24	0630	1.76	28
6-21	2030	3.03	322	6-22	1400	4.80	875	6-24	2100	1.67	20
6-21	2045	3.05	328	6-22	1615	3.01	313	6-24	2400	1.70	22
6-21	2145	2.46	158	6-22	1800	2.49	163				

(317) 01583580 BAISMAN RUN AT BROADMOOR, MD.

(Flood-hydrograph station; gaging station discontinued 1969)

LOCATION.--Lat 39°28'45", long 76°40'42", Baltimore County, on right bank at upstream side of bridge on Ivy Hill Road, 0.3 mile upstream from mouth, 0.6 mile southwest of Broadmoor, and 1.8 miles west of Cockeysville.

DRAINAGE AREA.--1.47 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals during flood periods. Altitude of gage is 330 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 30 cfs and by computation of flow through culvert at 490 cfs.

MAXIMUMS.--June-July 1972: Discharge, 692 cfs 0315 hours June 22 (gage height, 6.08 ft).
1965 to May 1972: Discharge, 490 cfs Sept. 10, 1968 (gage height, 5.43 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.69	2.5	6-21	2400	3.03	130	6-22	1430	2.70	80
6-21	0600	1.74	3.2					6-22	1600	2.50	53
6-21	1030	1.72	3.0					6-22	2000	2.34	35
6-21	1115	1.78	3.8	6-22	0015	3.48	197	6-22	2230	2.33	34
6-21	1130	1.83	5.0	6-22	0045	2.64	71	6-22	2345	2.36	37
6-21	1145	2.16	21	6-22	0100	2.41	42	6-22	2400	2.35	36
6-21	1215	2.00	11	6-22	0115	2.35	36				
6-21	1300	1.88	6.2	6-22	0200	5.34	476				
6-21	1400	1.83	5.0	6-22	0245	4.85	403	6-23	0315	2.30	31
6-21	1830	1.79	4.0	6-22	0300	5.25	463	6-23	0445	2.30	31
6-21	1915	1.85	5.5	6-22	0315	**6.08**	**692**	6-23	0615	2.27	29
6-21	1930	1.94	8.5	6-22	0415	3.56	209	6-23	0800	2.39	40
6-21	1945	2.54	58	6-22	0615	2.90	110	6-23	0815	2.37	38
6-21	2000	2.26	28	6-22	0815	2.80	95	6-23	1030	2.23	25
6-21	2015	2.19	22	6-22	0900	3.10	140	6-23	1815	2.14	19
6-21	2030	2.20	23	6-22	0915	3.40	185	6-23	2400	2.11	18
6-21	2115	2.00	11	6-22	1000	3.20	155				
6-21	2245	1.89	6.5	6-22	1015	3.04	131				
6-21	2315	1.92	7.5	6-22	1130	2.98	122	6-24	0300	2.11	18
6-21	2330	2.01	12	6-22	1230	2.78	92	6-24	2400	2.06	15

(318) 01583980 LOCH RAVEN RESERVOIR NEAR CARNEY, MD.

LOCATION.--Lat 39°25'49", long 76°32'38", Baltimore County, on Gunpowder Falls at dam, 2.7 miles northwest of Carney.

DRAINAGE AREA.--303 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph operated by Baltimore Department of Public Works. Datum of gage is mean sea level (City of Baltimore bench mark).

CONTENTS RECORD.--Contents furnished by Baltimore Department of Public Works.

MAXIMUMS.--June-July 1972: Contents, 31,040,000,000 gal 1700 hours June 22 (elevation, 248.62 ft).
1914 to May 1972: Contents, 28,520,000,000 gal Aug. 24, 1933 (elevation, 245.85 ft).

REMARKS.--Reservoir is formed by concrete dam. Dam completed in 1914 and spillway elevation raised to 240 ft in 1923. Total capacity, 23,500,000,000 gal between elevations 173.5 and 240 ft. Water is used for municipal supply of Baltimore.

ELEVATION, IN FEET, AND CONTENTS, IN MILLION GALLONS, AT 2400 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	240.77	24,100	241.09	24,400	16	240.54	23,900	240.87	24,200
2	240.66	24,000	240.91	24,200	17	240.47	23,900	240.80	24,100
3	240.57	24,000	240.97	24,300	18	240.43	23,800	240.70	24,100
4	240.55	23,900	240.80	24,100	19	240.44	23,900	240.59	24,000
5	240.58	24,000	240.88	24,200	20	240.44	23,900	240.50	23,900
6	240.50	23,900	240.80	24,100	21	240.89	24,200	240.44	23,900
7	240.42	23,800	240.73	24,100	22	247.00	29,600	240.42	23,800
8	240.34	23,800	240.77	24,100	23	245.20	27,900	240.39	23,800
9	240.30	23,700	240.73	24,100	24	242.22	25,300	240.35	23,800
10	240.29	23,700	240.63	24,000	25	241.59	24,800	240.32	23,800
11	240.28	23,700	240.57	24,000	26	241.29	24,600	240.28	23,700
12	240.25	23,700	240.53	23,900	27	241.06	24,400	240.27	23,700
13	240.26	23,700	240.82	24,200	28	240.92	24,200	240.24	23,700
14	240.30	23,700	240.63	24,000	29	241.47	24,700	240.25	23,700
15	240.31	23,800	240.52	23,900	30	241.45	24,700	240.26	23,700
					31			240.28	23,700
CHANGE IN CONTENTS							+600		-1,000

(321) 01585200 WEST BRANCH HERRING RUN AT IDLEWYLDE, MD.

LOCATION.--Lat 39°22'25", long 76°35'05", Baltimore County, on left bank 40 ft downstream from bridge on Regester Avenue, at Idlewylde, 0.1 mile north of Baltimore city limits, 1 mile upstream from mouth, and 1.3 miles east of State Highway 45.

DRAINAGE AREA.--2.13 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals to 0930 hours June 25 when recorder was removed. Water-stage-recorder graph June 25 to July 31. Altitude of gage is 285 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 90 cfs and by slope-area measurement at 1,480 cfs.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)
June-July 1972:		
June 22, 0400 hours	920	5.30
June 29, 2200 hours	1,560	6.50
July 3, 1630 hours	940	5.35
1958 to May 1972:		
Sept. 11, 1971	1,740	6.80

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	2.0	3.4	11...	1.2	2.1	21...	25	2.0
2...	1.5	3.2	12...	1.2	2.1	22...	137	1.9
3...	1.4	17	13...	1.7	52	23...	19	1.8
4...	5.3	3.5	14...	1.4	3.4	24...	4.4	1.8
5...	1.8	4.1	15...	1.2	2.6	25...	4.8	1.7
6...	1.4	2.8	16...	2.5	3.8	26...	3.0	1.6
7...	1.3	2.6	17...	2.3	2.5	27...	2.6	1.6
8...	1.3	4.7	18...	3.3	2.4	28...	2.4	1.6
9...	1.3	2.4	19...	4.1	2.2	29...	42	1.5
10...	1.3	2.2	20...	2.9	2.1	30...	7.7	1.4
						31...		1.5
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							9.6	4.5
RUNOFF, IN INCHES							5.03	2.44

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0115	1.38	3.0	6-21	2245	1.82	14	6-29	0800	1.92	20
6-21	0130	1.62	7.0	6-21	2315	2.81	157	6-29	0900	2.39	74
6-21	0200	1.68	8.5	6-21	2330	3.38	275	6-29	1000	2.02	27
6-21	0215	1.63	7.2	6-21	2400	2.57	109	6-29	1045	1.89	17
6-21	0300	1.66	8.0					6-29	1130	2.77	149
6-21	0315	1.80	13					6-29	1200	2.40	76
6-21	0330	1.92	20	6-22	0015	2.30	60	6-29	1300	1.98	24
6-21	0345	2.10	35	6-22	0030	2.22	49	6-29	1400	1.84	15
6-21	0400	2.03	28	6-22	0045	2.47	89	6-29	1500	1.88	17
6-21	0430	2.03	28	6-22	0100	3.38	75	6-29	1700	1.67	8.2
6-21	0515	1.81	13	6-22	0200	2.48	91	6-29	2000	1.54	5.3
6-21	0600	1.64	7.5	6-22	0300	2.45	86	6-29	2130	1.50	4.5
6-21	0700	1.51	4.6	6-22	0330	2.80	155	6-29	2145	2.50	95
6-21	0730	1.59	6.2	6-22	0400	5.30	920	6-29	2200	6.50	1560
6-21	0830	1.50	4.5	6-22	0415	4.90	760	6-29	2215	5.00	800
6-21	0845	1.48	4.2	6-22	0430	4.28	524	6-29	2230	3.30	255
6-21	0945	1.45	3.9	6-22	0530	3.21	237	6-29	2300	2.45	86
6-21	1000	1.50	4.5	6-22	0545	3.64	340	6-29	2400	2.25	53
6-21	1015	1.74	10	6-22	0615	3.21	237				
6-21	1045	2.52	99	6-22	0645	2.88	171				
6-21	1100	2.35	68	6-22	0700	2.60	115	6-30	0100	1.99	25
6-21	1115	2.18	44	6-22	0715	2.54	103	6-30	0200	1.86	16
6-21	1145	1.93	20	6-22	0800	2.69	133	6-30	0400	1.73	10
6-21	1215	1.80	13	6-22	0845	3.11	217	6-30	0800	1.62	7.0
6-21	1230	1.78	12	6-22	0900	3.09	213	6-30	1200	1.56	5.7
6-21	1245	1.82	14	6-22	1030	3.82	386	6-30	1800	1.49	4.4
6-21	1300	2.08	33	6-22	1100	2.86	167	6-30	2400	1.46	4.0
6-21	1315	1.97	23	6-22	1115	2.67	129				
6-21	1330	2.01	26	6-22	1145	2.64	123				
6-21	1345	1.90	18	6-22	1200	2.54	103	7- 3	0100	1.38	3.0
6-21	1415	1.77	11	6-22	1245	2.62	119	7- 3	0600	1.35	2.8
6-21	1530	1.52	4.8	6-22	1445	2.22	49	7- 3	1200	1.34	2.6
6-21	1545	1.50	4.5	6-22	1615	1.99	25	7- 3	1545	1.31	2.3
6-21	1600	1.47	4.1	6-22	1830	1.81	13	7- 3	1600	2.15	41
6-21	1800	1.45	3.9	6-22	2100	1.74	10	7- 3	1615	3.25	245
6-21	1815	1.53	5.0	6-22	2130	1.78	12	7- 3	1630	5.35	940
6-21	1830	1.65	7.7	6-22	2145	1.85	15	7- 3	1645	3.10	215
6-21	1845	2.35	68	6-22	2215	2.00	26	7- 3	1700	2.55	105
6-21	1900	3.25	245	6-22	2300	2.01	26	7- 3	1800	2.08	33
6-21	1930	2.50	95	6-22	2400	1.98	24	7- 3	1900	1.83	14
6-21	1945	2.30	60					7- 3	2000	1.70	9.0
6-21	2030	2.00	26					7- 3	2100	1.63	7.2
6-21	2100	1.83	14	6-29	0030	1.41	3.4	7- 3	2200	1.58	6.1
6-21	2215	1.64	7.5	6-29	0400	1.34	2.6	7- 3	2400	1.52	4.9
6-21	2230	1.62	7.0	6-29	0500	1.45	3.9				
				6-29	0600	1.67	8.2				
				6-29	0700	2.24	52				

(322) 01585300 STEMMERS RUN AT ROSSVILLE, MD.

LOCATION.--Lat 39°20'20", long 76°29'15", Baltimore County, on left bank at downstream side of bridge on State Highway 7, at Rossville, 0.8 mile upstream from Brien Run, and 2 miles upstream from mouth.

DRAINAGE AREA.--4.94 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals to 1000 hours June 25 when recorder was removed. Water-stage-recorder graph June 25 to July 31. Datum of gage is 19.24 ft above mean sea level (Baltimore County bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,100 cfs and by contracted-opening and flow-over-road measurement at 5,950 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,530 cfs 0500 hours June 22 (gage height, 7.55 ft). 1959 to May 1972: Discharge, 5,950 cfs Aug. 1, 1971 (gage height, 11.34 ft, from high-water mark in well).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.4	4.0	11...	1.2	2.1	21...	32	2.0
2....	1.6	2.7	12...	1.2	2.1	22...	523	1.8
3....	1.5	16	13...	1.3	17	23...	51	1.8
4....	3.4	4.0	14...	1.8	2.7	24...	8.7	1.8
5....	2.6	3.3	15...	1.3	2.2	25...	11	1.6
6....	1.5	2.4	16...	5.2	6.0	26...	4.6	1.6
7....	1.5	2.2	17...	5.5	5.0	27...	3.2	1.6
8....	1.3	4.8	18...	2.0	4.6	28...	3.4	1.5
9....	1.4	2.4	19...	12	2.4	29...	67	1.5
10...	1.3	2.2	20...	2.4	2.1	30...	27	1.5
						31...		1.5
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							26	3.5
RUNOFF,IN INCHES.....							5.90	0.82

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	0.98	0.7	6-21	1200	1.42	18	6-22	0430	4.76	459
6-20	0330	0.98	.7	6-21	1230	1.31	11	6-22	0715	5.24	548
6-20	0400	0.97	.6	6-21	1300	1.25	7.7	6-22	0915	4.41	400
6-20	1200	0.97	.6	6-21	1430	1.17	4.3	6-22	1100	5.66	632
6-20	1245	0.98	.7	6-21	1700	1.09	2.2	6-22	1400	3.18	213
6-20	1315	0.97	.6	6-21	1815	1.07	1.8	6-22	1600	2.09	82
6-20	1430	0.97	.6	6-21	1830	1.08	2.0	6-22	1800	1.71	42
6-20	1445	0.98	.7	6-21	1845	1.13	3.2	6-22	2030	1.48	22
6-20	1515	0.97	.6	6-21	1900	1.73	44	6-22	2115	1.45	20
6-20	2045	0.97	.6	6-21	1915	1.89	60	6-22	2245	1.56	29
6-20	2145	0.98	.7	6-21	2045	1.44	20	6-22	2400	1.47	22
6-20	2400	0.98	.7	6-21	2145	1.31	11				
				6-21	2230	1.25	7.7				
				6-21	2245	1.24	7.2	6-23	0045	1.50	24
6-21	0230	0.99	.8	6-21	2300	1.29	9.8	6-23	0200	1.52	26
6-21	0300	1.02	1.0	6-21	2315	1.75	46	6-23	0400	1.42	18
6-21	0315	1.43	19	6-21	2345	2.44	123	6-23	0545	1.51	25
6-21	0330	1.51	25	6-21	2400	2.39	117	6-23	0745	1.65	37
6-21	0415	1.30	10					6-23	0815	1.93	64
6-21	0500	1.22	6.3					6-23	0845	1.95	67
6-21	0700	1.11	2.7	6-22	0100	1.98	70	6-23	1000	1.85	56
6-21	0900	1.06	1.6	6-22	0145	2.04	76	6-23	1130	1.64	36
6-21	0930	1.06	1.6	6-22	0300	1.67	38	6-23	1415	1.40	17
6-21	0945	1.08	2.0	6-22	0315	1.62	34	6-23	1715	1.28	9.2
6-21	1000	1.23	6.8	6-22	0330	1.80	51	6-23	2200	1.20	5.5
6-21	1030	1.41	17	6-22	0345	3.02	193	6-23	2400	1.18	4.7
6-21	1100	1.76	47	6-22	0400	3.28	226				

PATAPSCO RIVER BASIN

(324) 01585500 CRANBERRY BRANCH NEAR WESTMINSTER, MD.

LOCATION.--Lat 39°35'35", long 76°58'05", Carroll County, on left bank 80 ft upstream from small wooden bridge, 0.7 mile upstream from mouth, and 1.8 miles northeast of Westminster.

DRAINAGE AREA.--3.29 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 670 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200 cfs and by computation of flow through culvert at 1,070 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,510 cfs 0315 hours June 22 (gage height, 5.85 ft). 1949 to May 1972: Discharge, 1,070 cfs July 9, 1970 (gage height, 5.54 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9.4	19	11...	3.6	10	21...	73	7.7
2....	5.5	16	12...	3.4	10	22...	440	7.4
3....	4.7	18	13...	4.7	19	23...	77	7.1
4....	4.6	14	14...	5.2	10	24...	42	6.9
5....	4.7	23	15...	4.1	9.2	25...	30	6.6
6....	4.4	15	16...	4.2	18	26...	23	6.3
7....	4.2	13	17...	4.0	15	27...	20	6.5
8....	3.9	12	18...	4.3	9.6	28...	17	6.6
9....	3.8	11	19...	4.0	8.5	29...	47	6.3
10...	3.7	11	20...	3.9	8.0	30...	26	6.4
						31...		6.4
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							30	11
RUNOFF,IN INCHES.....							10.01	3.88

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.69	4.5	6-21	2200	4.82	560	6-22	2100	3.00	91
6-21	0745	1.70	4.7	6-21	2330	4.68	490	6-22	2400	3.26	107
6-21	0930	1.71	5.0	6-21	2400	4.87	585				
6-21	1115	1.81	8.3								
6-21	1145	1.89	12					6-23	0015	3.26	107
6-21	1330	2.30	38	6-22	0130	5.62	1,200	6-23	1200	2.83	80
6-21	1500	2.20	30	6-22	0315	5.85	1,510	6-23	1645	2.55	58
6-21	1545	2.17	28	6-22	0330	5.79	1,430	6-23	2400	2.44	49
6-21	1700	1.96	16	6-22	0430	5.14	724				
6-21	1800	1.89	12	6-22	0600	4.48	396				
6-21	1845	1.92	13	6-22	0715	4.14	254	6-24	2030	2.26	35
6-21	1915	2.11	25	6-22	0845	4.23	287	6-24	2200	2.59	61
6-21	2030	3.05	94	6-22	1115	4.54	423	6-24	2215	2.58	60
6-21	2045	3.50	122	6-22	1645	4.17	265	6-24	2400	2.35	42
6-21	2115	4.03	216	6-22	1845	3.33	111				

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.65	6.2	6-21	2400	3.57	275	6-22	1745	2.54	76
6-21	0245	1.65	6.2					6-22	1945	2.29	45
6-21	0600	1.78	10					6-22	2145	2.20	36
6-21	0645	1.84	13	6-22	0015	4.32	463	6-22	2345	2.31	47
6-21	0700	1.96	19	6-22	0045	4.48	505	6-22	2400	2.33	50
6-21	0930	1.78	10	6-22	0115	3.78	325				
6-21	0945	1.89	15	6-22	0130	3.71	308				
6-21	1015	1.94	18	6-22	0215	4.36	474	6-23	0445	2.34	51
6-21	1215	2.50	70	6-22	0245	3.93	362	6-23	0715	2.58	81
6-21	1230	2.58	81	6-22	0300	3.43	241	6-23	0945	2.95	140
6-21	1315	2.39	57	6-22	0315	3.16	182	6-23	1000	2.93	136
6-21	1445	2.11	29	6-22	0330	3.28	206	6-23	1230	2.40	58
6-21	1515	2.19	35	6-22	0345	4.39	481	6-23	1445	2.16	33
6-21	1645	1.94	18	6-22	0400	5.88	869	6-23	1800	1.98	20
6-21	1830	1.82	12	6-22	0415	6.40	1,010	6-23	2215	1.86	14
6-21	1845	1.89	15	6-22	0445	7.52	1,510	6-23	2400	1.83	12
6-21	1900	2.47	66	6-22	0500	7.55	1,530				
6-21	1915	2.94	138	6-22	0745	6.00	900				
6-21	2000	3.08	166	6-22	0845	5.20	692	6-24	0845	1.73	8.5
6-21	2030	3.31	212	6-22	0930	6.13	936	6-24	1945	1.67	6.7
6-21	2115	2.71	100	6-22	1015	7.34	1,400	6-24	2045	1.76	9.5
6-21	2200	2.36	53	6-22	1115	6.98	1,210	6-24	2130	1.77	10
6-21	2245	2.16	33	6-22	1230	4.48	505	6-24	2315	1.73	8.5
6-21	2300	2.22	38	6-22	1500	3.53	265	6-24	2345	1.81	11
6-21	2330	2.74	104	6-22	1615	2.92	134	6-24	2400	1.92	17

(323) 01585400 BRIEN RUN AT STEMMERS RUN, MD.

LOCATION.--Lat 39°20'01", long 76°28'23", Baltimore County, on right bank 0.2 mile upstream from mouth and 0.3 mile north of Stemmers Run.

DRAINAGE AREA.--1.97 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 10 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined as explained below.

MAXIMUMS.--June-July 1972: Discharge, 632 cfs 1100 hours June 22 (gage height, 5.66 ft).
1959 to May 1972: Discharge, 3,500 cfs Aug. 1, 1971 (gage height, 10.75 ft, from high-water mark in well), from rating curve extended above 180 cfs on basis of computation of maximum flow through culvert and over road at site 0.8 mile upstream, adjusted for flow from intervening area.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	.80	1.5	11...	.56	.71	21...	13	.95
2....	.67	.88	12...	.56	.67	22...	234	.72
3....	.64	2.0	13...	.60	3.6	23...	23	.70
4....	1.3	.94	14...	.61	.81	24...	3.9	.68
5....	.79	.93	15...	.57	.74	25...	4.3	.65
6....	.64	.81	16...	.73	20	26...	1.4	.62
7....	.62	.76	17...	.89	5.8	27...	1.1	.65
8....	.58	.84	18...	.88	22	28...	.85	.67
9....	.58	.76	19...	1.2	2.6	29...	30	.65
10...	.58	.91	20...	.61	1.3	30...	14	.67
						31...		.67
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							11	2.5
RUNOFF, IN INCHES							6.42	1.44

(325) 01586000 NORTH BRANCH PATAPSCO RIVER AT CEDARHURST, MD.

LOCATION.--39°30'00", long 76°53'00", Carroll County, on left bank at downstream side of private footbridge at Cedarhurst, 0.8 mile downstream from Roaring Run, 8 miles southeast of Westminster, and 16.5 miles upstream from mouth.

DRAINAGE AREA.--56.6 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0230 hours June 22, when recorder was overtopped by flood, to 1445 hours June 25, for which graph was reconstructed on basis of floodmarks and shape of graph for Little Falls at Blue Mount. Altitude of gage is 425 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,800 cfs and by contracted-opening measurement at 27,800 cfs. Discharge June 22-25 computed on basis of reconstructed graph, weather records, and records for nearby stations.

MAXIMUMS: June-July 1972: Discharge, 27,800 cfs about 0300 hours June 22 (gage height, 20.75 ft, from high-water mark in well).
1946 to May 1972: Discharge, 4,130 cfs Aug. 13, 1955 (gage height, 10.38 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	180	257	11...	57	127	21...	300	115
2....	82	218	12...	56	123	22...	6,000	112
3....	74	220	13...	60	194	23...	900	109
4....	70	192	14...	77	128	24...	600	102
5....	73	267	15...	65	123	25...	450	100
6....	69	189	16...	69	198	26...	340	96
7....	68	167	17...	65	229	27...	280	97
8....	63	155	18...	74	193	28...	242	99
9....	61	145	19...	66	129	29...	521	97
10...	60	136	20...	62	119	30...	601	96
						31...		97
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							390	149
RUNOFF, IN INCHES							7.68	3.04

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.76	69	6-22	0200	14.05	8,010	6-23	2400	4.80	710
				6-22	0230	16.35	13,400				
				6-22	0300	20.75	27,800				
6-21	1200	1.90	94	6-22	0400	20.0	24,800	6-24	1200	4.40	590
6-21	1400	2.20	148	6-22	0500	18.4	19,200	6-24	2400	4.10	500
6-21	1600	3.04	322	6-22	0600	16.7	14,200				
6-21	2000	2.76	252	6-22	0800	14.0	7,920				
6-21	2200	4.80	940	6-22	1000	11.8	4,600	6-25	1200	3.92	460
6-21	2300	6.64	1,740	6-22	1200	10.0	2,980	6-25	2400	3.61	382
6-21	2400	8.38	2,690	6-22	1600	7.85	1,820				
				6-22	2400	6.50	1,260				
								6-26	1200	3.45	345
6-22	0100	10.80	3,560					6-26	2400	3.23	301
6-22	0130	12.38	5,350	6-23	1200	5.42	900				

(326) 01586990 LIBERTY RESERVOIR NEAR MARRIOTTSVILLE, MD.

LOCATION.--Lat 39°22'36", long 76°53'28", Baltimore County, on North Branch Patapsco River at dam, 1.8 miles north of Marriottsville.

DRAINAGE AREA.--164 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph operated by Baltimore Department of Public Works. Datum of gage is mean sea level (general adjustment of 1912).

CONTENTS RECORD.--Contents furnished by Baltimore Department of Public Works.

MAXIMUMS.--June-July 1972: Contents, 49,550,000,000 gal 0330 hours June 22 (elevation, 427.42 ft).
1953 to May 1972: Contents, 44,670,000,000 gal July 21, 1956 (elevation, 421.60 ft).

REMARKS.--Reservoir is formed by concrete dam completed in 1953. Usable capacity, 42,070,000,000 gal between elevations 320 and 420 ft (crest of spillway). Dead storage, 1,260,000,000 gal. Water is used for municipal supply of Baltimore, and beginning in 1970 for a small municipal supply in Carroll County. Figures given in table represent total storage.

ELEVATION, IN FEET, AND CONTENTS, IN MILLION GALLONS, AT 2400 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	420.30	43,600	420.55	43,800	16	419.05	43,400	420.31	43,600
2	420.19	43,500	420.45	43,700	17	419.05	43,400	420.55	43,800
3	420.12	43,400	420.52	43,800	18	419.09	43,400	420.30	43,600
4	420.13	43,400	420.41	43,700	19	419.07	43,400	420.21	43,500
5	420.09	43,400	420.47	43,700	20	419.08	43,400	420.14	43,500
6	420.07	43,400	420.40	43,700	21	422.78	45,700	420.10	43,400
7	420.04	43,400	420.34	43,600	22	423.39	46,200	420.07	43,400
8	420.03	43,400	420.31	43,600	23	421.75	44,800	420.05	43,400
9	420.01	43,300	420.29	43,600	24	421.05	44,200	420.03	43,400
10	419.97	43,300	420.26	43,600	25	420.79	44,000	420.01	43,300
11	419.97	43,300	420.24	43,500	26	420.65	43,900	419.99	43,300
12	419.97	43,300	420.23	43,500	27	420.52	43,800	420.00	43,300
13	419.99	43,300	420.29	43,600	28	420.46	43,700	420.01	43,300
14	419.02	43,400	420.24	43,500	29	420.12	44,300	420.01	43,300
15	419.02	43,400	420.18	43,500	30	420.81	44,000	420.03	43,400
					31			420.04	43,400
CHANGE IN CONTENTS							+300		-600

(327) 01587050 HAY MEADOW BRANCH TRIBUTARY AT POPLAR SPRINGS, MD.

(Crest-stage station)

LOCATION.--Lat 39°20'55", long 77°06'02", at upstream side of culvert at U.S. Highway 40, 0.4 mile northwest of Poplar Springs, Howard County, and 3.5 miles southeast of Mount Airy.

DRAINAGE AREA.--0.54 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 640 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 420 cfs June 21 (gage height, 8.48 ft).
1966 to May 1972: Discharge, 630 cfs Sept. 11, 1971 (gage height, 10.55 ft, from floodmarks).

(328) 01587500 SOUTH BRANCH PATAPSCO RIVER AT HENRYTON, MD.

LOCATION.--Lat 39°21'05", long 76°54'50", Howard County, on right bank at downstream side of bridge on Henryton Road at Henryton, 1.3 miles upstream from Piney Run, 2.5 miles upstream from confluence with North Branch, and 3.2 miles southeast of Sykesville.

DRAINAGE AREA.--64.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 2300 hours June 21, when station was overtopped by flood, to 1230 hours June 25, for which graph was reconstructed on basis of floodmarks and shape of graph for Little Falls at Blue Mount. Datum of gage is 289.15 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,900 cfs and by slope-area measurements at 3,050 cfs and 26,900 cfs and contracted-opening measurements at 3,580 cfs and 12,100 cfs. Discharge June 22-25 computed on basis of reconstructed graph, weather records, and records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 26,900 cfs about 0100 hours June 22 (gage height, 28.14 ft, from floodmarks).
1949 to May 1972: Discharge, 12,100 cfs July 21, 1956 (gage height, 19.40 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	346	256	11...	85	145	21...	1,200	118
2....	132	220	12...	84	142	22...	8,000	115
3....	116	324	13...	83	196	23...	1,100	109
4....	115	240	14...	94	142	24...	600	103
5....	150	262	15...	90	130	25...	400	100
6....	110	200	16...	92	136	26...	326	96
7....	107	172	17...	93	145	27...	272	97
8....	96	160	18...	93	220	28...	244	100
9....	92	160	19...	94	133	29...	506	97
10...	89	151	20...	86	124	30...	730	100
						31...		103
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							521	155
RUNOFF,IN INCHES							9.02	2.77

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.08	257								
				6-22	0100	18.92	32,900	6-22	1800	10.8	12,300
				6-22	0130	20.89	39,300	6-22	2400	8.9	8,500
6-21	0600	2.12	274	6-22	0200	25.74	57,000				
6-21	1200	2.54	522	6-22	0300	30.0	74,800	6-23	1200	7.75	6,200
6-21	1800	3.22	1,220	6-22	0400	31.3	80,600	6-23	2400	7.20	5,100
6-21	2000	4.17	2,320	6-22	0500	30.7	77,900				
6-21	2200	5.10	3,620	6-22	0600	27.0	62,000				
6-21	2300	7.94	6,580	6-22	1000	17.5	28,700	6-24	1200	6.84	4,380
6-21	2400	12.76	16,400	6-22	1400	13.0	16,900	6-24	2400	6.38	3,500

(331) 01589100 EAST BRANCH HERBERT RUN AT ARBUTUS, MD.

LOCATION.--Lat 39°14'24", long 76°41'33", Baltimore County, on right bank at downstream side of highway bridge on Tom Day Boulevard at U.S. Route 1 in Arbutus, 0.5 mile upstream from mouth, and 2 miles south of Baltimore city limits.

DRAINAGE AREA.--2.47 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Doubtful gage-height record 1500 hours June 22 to July 31. Altitude of gage is 45 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 250 cfs and by slope-area measurement at 1,090 cfs. Discharge June 22 to July 31 computed on basis of 3 discharge measurements, recorded tape, weather records, and records for Dead Run at Franklintown.

MAXIMUMS.--June-July 1972: Discharge, 1,340 cfs 0115 hours June 22 (gage height, 6.35 ft).
1956 to May 1972: Discharge, 1,180 cfs Sept. 11, 1971 (gage height, 5.94 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3.5	5.0	11...	1.5	3.4	21...	39	2.4
2....	2.5	4.2	12...	1.7	3.4	22...	200	2.4
3....	2.0	7.5	13...	2.4	9.0	23...	17	2.4
4....	7.5	4.2	14...	2.0	4.0	24...	6.5	1.9
5....	2.5	6.0	15...	1.8	3.4	25...	4.6	1.9
6....	2.5	3.6	16...	2.8	20	26...	3.2	1.9
7....	2.1	3.6	17...	2.6	3.6	27...	3.2	2.4
8....	2.0	6.0	18...	3.8	3.0	28...	4.2	2.6
9....	1.9	4.0	19...	3.7	2.8	29...	55	2.0
10...	1.7	3.4	20...	4.7	2.6	30...	18	2.0
						31...		2.0
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							14	4.1
RUNOFF,IN INCHES							6.11	1.91

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.42	2.5	6-21	1630	1.60	7.5	6-22	0130	5.86	1,150
6-21	0245	1.42	2.5	6-21	1715	1.81	17	6-22	0145	4.51	728
6-21	0315	1.48	3.7	6-21	1745	1.81	17	6-22	0215	4.13	614
6-21	0345	1.47	3.5	6-21	1800	1.99	29	6-22	0315	4.04	587
6-21	0415	1.55	5.8	6-21	1815	2.22	56	6-22	0400	3.53	434
6-21	0515	1.48	3.7	6-21	1830	2.54	120	6-22	0445	3.48	419
6-21	0730	1.42	2.5	6-21	1845	3.05	278	6-22	0545	2.34	77
6-21	0930	1.42	2.5	6-21	1900	3.25	348	6-22	0600	2.21	55
6-21	0945	1.45	3.1	6-21	1930	2.53	118	6-22	0615	2.49	108
6-21	1000	1.60	7.5	6-21	1945	2.31	71	6-22	0630	2.99	257
6-21	1015	1.99	29	6-21	2015	2.06	36	6-22	0700	3.03	271
6-21	1030	2.65	148	6-21	2100	1.89	21	6-22	0715	2.96	246
6-21	1045	2.76	178	6-21	2145	1.77	15	6-22	0730	3.06	281
6-21	1100	2.40	88	6-21	2215	1.84	18	6-22	0745	2.95	243
6-21	1115	2.18	50	6-21	2230	1.81	17	6-22	0830	3.14	309
6-21	1200	1.94	25	6-21	2245	2.18	50	6-22	0945	2.97	250
6-21	1215	1.93	24	6-21	2300	2.88	218	6-22	1030	3.01	264
6-21	1230	2.21	55	6-21	2315	3.10	295	6-22	1045	2.90	225
6-21	1245	2.14	45	6-21	2330	3.00	260	6-22	1115	2.28	66
6-21	1300	2.18	50	6-21	2345	2.68	155	6-22	1215	2.08	38
6-21	1315	2.02	32	6-21	2400	2.47	103	6-22	1245	1.99	29
6-21	1345	1.85	19					6-22	1300	1.86	20
6-21	1500	1.65	9.5					6-22	1330	1.73	13
6-21	1600	1.56	6.1	6-22	0015	2.62	140	6-22	1430	1.67	10
6-21	1615	1.56	6.1	6-22	0115	**6.35**	**1,340**	**6-22**	**1800**	**1.64**	**9.1**
								6-22	**2400**	**1.62**	**8.3**

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.25	97	6-21	2400	22.6	16,700	6-23	2400	3.40	690
6-21	1000	2.36	130	6-22	0100	28.14	26,900	6-24	1200	3.20	580
6-21	1200	2.77	317	6-22	0200	27.0	24,400	6-24	2400	3.05	485
6-21	1600	3.04	506	6-22	0400	23.7	18,400				
6-21	1700	2.95	443	6-22	0800	16.0	8,400				
6-21	1800	3.02	492	6-22	1600	8.0	2,770	6-25	1200	2.90	408
6-21	1900	4.28	1,120	6-22	2000	6.3	1,980	6-25	2400	2.79	359
6-21	2000	5.40	1,620	6-22	2400	5.6	1,700				
6-21	2100	6.30	1,980								
6-21	2200	9.82	3,750					6-26	1200	2.75	331
6-21	2300	16.40	8,800	6-23	1200	4.20	1,080	6-26	2400	2.68	286

(329) 01588000 PINEY RUN NEAR SYKESVILLE, MD.

(Crest-stage station; gaging station discontinued 1958)

LOCATION.--Lat 39°22'55", long 76°58'00", Carroll County, at bridge on State Highway 32, 1.2 miles north of Sykesville, and 5.2 miles upstream from mouth.

DRAINAGE AREA.--11.4 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 450 ft (from topographic map).

DISCHARGE RECORD.--Maximum discharge by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 9,700 cfs June 22 (gage height, 11.0 ft).
1932 to May 1972: Discharge, 7,380 cfs July 20, 1956 (gage height, 12.0 ft, from floodmarks), from rating curve extended above 1,200 cfs on basis of slope-area measurements at 1,400 cfs and 2,100 cfs and contracted-opening measurement at 7,380 cfs.

(330) 01589000 PATAPSCO RIVER AT HOLLOFIELD, MD.

LOCATION.--Lat 39°18'36", long 76°47'39", Howard County, on right bank at downstream side of highway bridge at Hollofield, 0.3 mile downstream from Dogwood Run, 3.0 miles north of Ellicott City, and 28 miles upstream from mouth.

DRAINAGE AREA.--285 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals to 0200 hours June 22 when station was destroyed by flood. Graph for June 22-26 reconstructed on basis of floodmarks, some wire-weight gage readings, and records for nearby stations. Wire-weight gage read twice daily June 27 to July 31. Altitude of gage is 190 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 13,000 cfs and by slope-area measurement at 80,600 cfs. Discharge June 22-26 computed on basis of reconstructed graph, one discharge measurement, and runoff comparison with records of upstream stations.

MAXIMUMS.--June-July 1972: Discharge, 80,600 cfs about 0400 hours June 22 (gage height, 31.3 ft, from floodmarks).
1945 to May 1972: Discharge, 19,000 cfs July 21, 1956 (gage height, 15.88 ft).
Flood in August 1933 reached a stage of 19.5 ft, from information by Maryland State Roads Commission.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,130	1,500	11...	194	550	21...	1,420	400
2....	536	1,100	12...	179	500	22...	30,000	360
3....	368	1,100	13...	173	700	23...	6,500	300
4....	326	1,100	14...	197	550	24...	4,400	280
5....	450	950	15...	201	500	25...	2,800	260
6....	287	900	16...	213	460	26...	1,800	240
7....	279	750	17...	251	550	27...	1,300	220
8....	238	650	18...	234	1,000	28...	1,100	240
9....	213	600	19...	267	600	29...	1,600	240
10...	211	550	20...	241	460	30...	3,600	240
						31...		260
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							2,020	584
RUNOFF, IN INCHES.....							7.92	2.36

(332) 01589200 GWYNNS FALLS NEAR OWINGS MILLS, MD.

LOCATION.--Lat 39°26'16", long 76°46'57", Baltimore County, on left bank at downstream side of bridge on railroad siding, 0.4 mile upstream from small right bank tributary, 1.2 miles north of Owings Mills, and 21 miles upstream from mouth.

DRAINAGE AREA.--4.90 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Altitude of gage is 520 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and by contracted-opening and flow-over-road computation of maximum flow at site 0.5 mile downstream, adjusted for flow from intervening area.

MAXIMUMS.--June-July 1972: Discharge, 5,500 cfs 0200 hours June 22 (gage height, 5.70 ft, from floodmarks).
1959 to May 1972: Discharge, 1,360 cfs Aug. 3, 1971 (gage height, 5.13 ft), from rating curve extended above 100 cfs on basis of contracted-opening measurement at 1,330 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	12	12	11...	4.6	9.1	21...	39	7.5
2....	7.0	11	12...	4.6	9.1	22...	750	7.0
3....	6.0	23	13...	5.2	13	23...	65	7.0
4....	9.6	14	14...	6.0	8.8	24...	17	6.5
5....	7.5	20	15...	4.8	8.4	25...	15	6.6
6....	6.3	15	16...	6.6	16	26...	13	6.3
7....	6.0	13	17...	6.7	13	27...	11	6.6
8....	5.4	11	18...	6.0	10	28...	11	7.3
9....	5.4	11	19...	5.7	8.0	29...	42	7.3
10...	5.2	10	20...	6.6	7.5	30...	24	7.3
						31...		7.6
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							37	10
RUNOFF, IN INCHES.....							8.46	2.43

(333) 01589240 GWYNNS FALLS AT MCDONOGH, MD.

(Crest-stage station)

LOCATION.--Lat 39°23'28", long 76°45'56", Baltimore County, at bridge on McDonogh Road, at McDonogh.

DRAINAGE AREA.--19.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 415 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 300 cfs and by contracted-opening measurement at 14,700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 14,700 cfs June 22 (gage height, 18.8 ft, from floodmarks).
1958 to May 1972: Discharge, 1,650 cfs Aug. 27, 1967 (gage height, 8.81 ft).

(334) 01589300 GWYNNS FALLS AT VILLA NOVA, MD.

LOCATION.--Lat 39°20'45", long 76°44'01", Baltimore County, on right bank 300 ft downstream from bridge on Essex Road, 300 ft north of State Highway 26 (Liberty Road), in Villa Nova, 1.1 miles west of Baltimore city limits, and 11.5 miles upstream from mouth.

DRAINAGE AREA.--32.5 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph to 2300 hours June 21 when station was destroyed by flood. Graph for June 22-26 reconstructed on basis of floodmarks, some outside-gage readings, and shape of graph for station near Owings Mills. Wire-weight gage read twice daily June 27 to July 31. Datum of gage is 361.32 ft above mean sea level (Baltimore County bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,900 cfs and by contracted-opening measurement at 16,200 cfs, at site 0.5 mile downstream. Discharge June 22-26 estimated on basis of reconstructed graph, weather records, and records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 16,200 cfs about 0400 hours June 22 (gage height, 21.5 ft, from floodmarks).
1956 to May 1972: Discharge, 5,270 cfs July 21, 1956 (gage height, 12.6 ft) on basis of contracted-opening measurement of peak flow.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	83	80	11...	26	50	21...	360	42
2....	43	70	12...	25	50	22...	5,000	42
3....	36	200	13...	26	110	23...	200	38
4....	72	110	14...	31	60	24...	140	36
5....	73	130	15...	27	50	25...	120	36
6....	40	90	16...	49	100	26...	100	36
7....	36	75	17...	40	90	27...	85	36
8....	31	65	18...	33	65	28...	80	36
9....	28	60	19...	34	46	29...	200	36
10...	27	55	20...	33	44	30...	240	36
						31...		40
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							244	65
RUNOFF, IN INCHES							8.37	2.30

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.39	47	6-22	0100	12.7	3,760				
				6-22	0200	15.0	5,900				
				6-22	0300	18.1	9,860	6-23	0400	3.20	216
6-21	0800	1.32	42	6-22	0400	21.5	16,200	6-23	0800	3.50	270
6-21	1000	2.40	171	6-22	0800	17.7	9,280	6-23	1200	3.10	198
6-21	1200	2.96	264	6-22	1200	14.1	5,000	6-23	1800	2.88	159
6-21	1800	3.50	370	6-22	1400	11.5	2,850	6-23	2400	2.80	146
6-21	2200	6.00	990	6-22	1600	5.9	725				
6-21	2300	8.30	1,760	6-22	1800	4.0	360				
6-21	2400	10.3	2,650	6-22	2000	3.35	243	6-24	1200	2.73	135
				6-22	2400	3.15	207	6-24	2400	2.67	126

(335) 01589330 DEAD RUN AT FRANKLINTOWN, MD.

LOCATION.--Lat 39°18'40", long 76°43'02", Baltimore County, on right bank at downstream side of bridge on Colonial Road at Security Boulevard at Franklintown, 0.3 mile west of Baltimore city limits, 1.2 miles southwest of Woodlawn, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--5.52 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals June 1 to 0100 hours June 22, when station was overtopped by flood; water-stage-recorder graph June 25 to July 31. Graph was reconstructed for June 22-24 on basis of floodmarks and shape of graph for East Branch Herbert Run at Arbutus. Altitude of gage is 310 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,600 cfs and by contracted-opening measurement of maximum flow at site 0.6 mile downstream, adjusted for flow from intervening area. Discharge June 22-24 estimated on basis of weather records, reconstructed graph, and records for East Branch Herbert Run at Arbutus.

MAXIMUMS.--June-July 1972: Discharge, 7,400 cfs about 0130 hours June 22 (gage height, 12.5 ft, from floodmarks).
1960 to May 1972: Discharge, 2,750 cfs Sept. 10, 1968 (gage height, 10.22 ft, from high-water mark in well).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	5.2	9.5	11...	2.2	4.0	21...	112	2.2
2....	3.6	6.3	12...	2.2	4.0	22...	360	2.0
3....	3.2	13	13...	2.9	35	23...	70	2.0
4....	22	5.5	14...	3.2	4.9	24...	18	1.6
5....	4.9	6.3	15...	2.6	4.0	25...	8.0	1.6
6....	3.6	4.4	16...	4.7	11	26...	3.6	1.6
7....	3.2	4.4	17...	6.1	4.0	27...	3.6	2.0
8....	2.9	13	18...	5.5	3.2	28...	12	2.2
9....	2.6	4.4	19...	3.2	2.9	29...	141	1.6
10...	2.6	4.0	20...	6.5	2.6	30...	32	1.6
						31...		1.6
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							28	5.4
RUNOFF, IN INCHES							5.75	1.12

SOUTH RIVER BASIN

(337) 01590000 NORTH RIVER NEAR ANNAPOLIS, MD.

LOCATION.--Lat 38°59'09", long 76°37'21", Anne Arundel County, on left bank 500 ft downstream from bridge on State Highway 450, 0.8 mile upstream from mouth, and 7 miles west of Annapolis.

DRAINAGE AREA.--8.5 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 6.73 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 122 cfs 0700 hours June 22 (gage height, 2.36 ft).
1933 to May 1972: Discharge, 5,000 cfs Aug. 2, 1944 (gage height, 6.22 ft), from rating curve extended above 260 cfs on basis of velocity-area studies.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	12	25	11...	8.9	10	21...	17	13
2....	10	17	12...	8.8	10	22...	100	10
3....	9.9	14	13...	8.8	29	23...	70	9.2
4....	9.8	14	14...	10	18	24...	35	8.6
5....	21	15	15...	9.7	12	25...	24	8.4
6....	13	15	16...	8.9	11	26...	18	8.0
7....	20	13	17...	9.2	14	27...	15	7.9
8....	12	12	18...	10	11	28...	15	8.7
9....	10	12	19...	11	11	29...	23	9.0
10...	9.5	11	20...	11	10	30...	49	9.5
						31...		10
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							20	12
RUNOFF, IN INCHES							2.58	1.69

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.22	12	6-22	0700	2.36	122	6-23	1130	2.08	83
6-21	1430	1.26	14	6-22	0930	2.34	118	6-23	2400	1.73	49
6-21	2000	1.42	23	6-22	2330	2.05	80				
6-21	2400	1.62	39	6-22	2400	2.02	76				
								6-24	0030	1.72	48
								6-24	2300	1.45	26
6-22	0130	1.74	50	6-23	0500	1.99	73	6-24	2400	1.45	26
6-22	0400	2.23	100	6-23	0930	2.12	87				

(338) 01590500 BACON RIDGE BRANCH AT CHESTERFIELD, MD.

(Flood-hydrograph station; gaging station discontinued 1952)

LOCATION.--Lat 39°00'07", long 76°36'53", Anne Arundel County, on left bank 50 ft downstream from highway bridge, 0.5 mile east of Chesterfield, 1.4 miles upstream from confluence with North River, and 6.8 miles northwest of Annapolis.

DRAINAGE AREA.--6.92 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Altitude of gage is 15 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 170 cfs and by contracted-opening measurement at 420 cfs.

MAXIMUMS.--June-July 1972: Discharge, 215 cfs 0930 hours June 22 (gage height, 3.68 ft).
1944-52, 1965 to May 1972: Discharge, 2,100 cfs Aug. 2, 1944 (gage height, 5.49 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.90	9.0	6-22	0400	2.93	100	6-23	0400	2.56	65
6-20	1200	1.90	9.0	6-22	0600	3.42	166	6-23	0800	2.63	72
6-20	2400	1.92	10	6-22	0800	3.66	210	6-23	1000	2.70	78
				6-22	0930	3.68	215	6-23	1100	2.71	79
				6-22	1000	3.67	212	6-23	1200	2.70	78
6-21	1200	1.94	11	6-22	1200	3.57	192	6-23	1800	2.42	52
6-21	1800	2.03	17	6-22	1600	3.30	146	6-23	2400	2.28	39
6-21	2400	2.13	25	6-22	2000	2.93	100				
				6-22	2400	2.61	70				
								6-24	1200	2.18	30
6-22	0100	2.23	34					6-24	2400	2.10	22
6-22	0200	2.57	66								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	0.87	5.5	6-22	0100	8.58	2,210	6-24	2400	0.92	12
				6-22	0130	12.5	7,400				
				6-22	0200	5.5	1,120				
6-21	0200	0.86	4.9	6-22	0300	3.4	515	6-28	2400	0.84	4.4
6-21	0400	0.84	4.0	6-22	0400	2.75	352				
6-21	0600	0.83	3.6	6-22	0500	2.00	200				
6-21	0800	0.83	3.6	6-22	0600	1.90	185	6-29	0600	0.89	8.1
6-21	1000	0.85	4.4	6-22	0700	3.00	415	6-29	0800	1.50	125
6-21	1100	2.15	216	6-22	0800	2.75	352	6-29	0830	2.16	232
6-21	1200	1.45	114	6-22	1000	1.80	170	6-29	1000	1.39	108
6-21	1300	1.85	171	6-22	1200	1.35	100	6-29	1200	1.17	62
6-21	1400	1.29	86	6-22	1800	1.16	60	6-29	1800	1.10	45
6-21	1600	1.03	29	6-22	2400	1.11	48	6-29	2000	1.02	29
6-21	1800	1.16	57					6-29	2100	2.75	352
6-21	1900	3.85	558					6-29	2200	6.85	1,640
6-21	1930	4.70	770	6-23	0600	1.50	125	6-29	2300	2.60	320
6-21	2000	3.00	362	6-23	1200	1.06	37	6-29	2400	1.58	137
6-21	2100	1.45	114	6-23	1800	1.03	31				
6-21	2200	1.22	70	6-23	2400	1.00	25				
6-21	2300	2.75	318					6-30	0600	1.05	35
6-21	2400	5.50	970					6-30	1200	0.98	22
				6-24	1200	0.96	18	6-30	2400	0.95	17

(336) 01589440 JONES FALLS AT SORRENTO, MD.

LOCATION.--Lat 39°23'30", long 76°39'42", Baltimore County, on right bank 0.3 mile downstream from bridge on State Highway 25 (Falls Road), 0.4 mile downstream from Slaughterhouse Branch and Sorrento, and 18 miles upstream from mouth.

DRAINAGE AREA.--25.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals to 0300 hours June 22 when recorder was overtopped by flood. Water-stage-recorder graph June 25 to July 31 except July 10-15. Graph was reconstructed for June 22-24 on basis of floodmarks and shape of graph for Little Falls at Blue Mount. Altitude of gage is 240 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,400 cfs and by slope-area measurement at 13,800 cfs. Discharge June 22-24 computed on basis of reconstructed graph, weather records, and records for nearby stations. Discharge July 10-15 estimated on basis of records for Little Falls at Blue Mount.

MAXIMUMS.--June-July 1972: Discharge, 13,800 cfs about 0500 hours June 22 (gage height, 18.11 ft, from floodmarks).
1958 to May 1972: Discharge, 2,160 cfs Sept. 10, 1968 (gage height, 11.30 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	43	88	11...	27	60	21...	101	48
2...	35	75	12...	26	60	22...	2,600	45
3...	33	202	13...	26	220	23...	200	43
4...	42	96	14...	30	70	24...	130	42
5...	49	92	15...	28	60	25...	100	40
6...	34	78	16...	30	65	26...	92	39
7...	33	72	17...	40	68	27...	82	40
8...	30	68	18...	31	56	28...	77	42
9...	29	64	19...	32	52	29...	188	41
10...	28	60	20...	31	49	30...	258	41
						31...		42
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							150	68
RUNOFF, IN INCHES							6.62	3.13

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.97	40	6-22	0200	9.24	1,570				
				6-22	0300	11.20	2,980				
				6-22	0400	14.5	6,800	6-23	1200	3.27	154
6-21	1000	2.02	44	6-22	0500	18.11	13,800	6-23	2400	3.10	134
6-21	1200	2.62	106	6-22	0600	17.8	13,100				
6-21	1500	2.76	123	6-22	0700	15.4	8,320				
6-21	1800	2.39	79	6-22	0800	12.0	3,700	6-24	1200	3.03	127
6-21	2000	4.14	308	6-22	0900	8.5	1,250	6-24	2400	2.95	119
6-21	2200	3.90	272	6-22	1000	7.6	985				
6-21	2400	6.13	618	6-22	1200	7.1	860				
				6-22	1800	4.50	325	6-25	1200	2.84	108
				6-22	2400	3.65	203	6-25	2400	2.73	97

(339) 01591000 PATUXENT RIVER NEAR UNITY, MD.

LOCATION.--Lat 39°14'18", long 77°03'23", Montgomery County, on right bank at downstream side of bridge on State Highway 97, 0.6 mile upstream from Cattail Creek, 0.8 mile upstream from Triadelphia Reservoir, 1.1 miles northeast of Unity, and 97 miles upstream from mouth.

DRAINAGE AREA.--34.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except June 1 to 1600 hours June 24 (no record for flood). Datum of gage is 364.76 ft above mean sea level (Washington Suburban Sanitary Commission bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 870 cfs and by slope-area measurement at 8,060 cfs. Discharge June 1-24 estimated on basis of high-water mark and records for nearby streams.

MAXIMUMS.--June-July 1972: Discharge, 14,500 cfs about 0100 hours June 22 (gage height, 16.1 ft, from high-water mark in well).
1945 to May 1972: Discharge, 21,800 cfs Sept. 11, 1971 (gage height, 18.60 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	70	141	11...	46	77	21...	650	55
2...	60	123	12...	46	78	22...	2,400	52
3...	55	121	13...	46	88	23...	650	50
4...	55	106	14...	50	67	24...	200	47
5...	60	116	15...	48	64	25...	148	46
6...	55	105	16...	46	82	26...	117	44
7...	55	96	17...	50	71	27...	98	44
8...	50	90	18...	48	77	28...	87	46
9...	50	86	19...	50	61	29...	272	46
10...	48	81	20...	46	57	30...	518	46
						31...		48
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							206	75
RUNOFF, IN INCHES							6.60	2.47

(340) 01591500 CATTAIL CREEK AT ROXBURY MILLS, MD.
(Gaging station, discontinued 1956)

LOCATION.--Lat 39°15'17", long 77°02'43", Howard County, on left bank 0.2 mile downstream from unnamed tributary and abandoned highway bridge, 0.5 mile southeast of Roxbury Mills, and 1.3 miles upstream from mouth.

DRAINAGE AREA.--27.7 sq mi.

GAGE-HEIGHT RECORD.--Maximum stage determined from floodmarks. Altitude of gage is 370 ft (from topographic map).

MAXIMUMS.--June-July 1972: Gage height, 16.4 ft, from floodmarks, June 22 (discharge unknown).
1945 to 1956: Discharge, 10,100 cfs July 21, 1956 (gage height, 14.19 ft), from rating curve extended above 350 cfs on basis of slope-area measurement at 10,100 cfs.

(341) 01591600 TRIADELPHIA LAKE NEAR BRIGHTON, MD.

LOCATION.--Lat 39°11'35", long 77°00'25", Montgomery County, at Brighton Dam on Patuxent River, 1.1 miles east of Brighton.

DRAINAGE AREA.--78.4 sq mi.

GAGE-HEIGHT RECORD.--Staff gage read twice daily. Datum of gage is mean sea level (general adjustment of 1912).

CONTENTS RECORD.--Contents computed from capacity curve furnished by Washington Suburban Sanitary Commission.

MAXIMUMS.--June-July 1972: Contents observed, 8,210,000,000 gal 0430 hours June 22 (elevation, 371.0 ft).
June 1942 to May 1972: Contents observed 7,250,000,000 gal Sept. 12, 1971 (elevation, 367.5 ft).

REMARKS.--Reservoir is formed by concrete dam with spillway controlled by gates 15 ft high. Dam completed in July 1943, but gates not installed until 1946; storage began June 27, 1942, during construction. Total capacity at gage height 365 ft (top of gates), is 6,580,000,000 gal. No dead storage. Capacity prior to 1946 at gage height 350 ft (crest of spillway), was 3,380,000,000 gal. Water is used for municipal supply in Washington Suburban Sanitary District.

COOPERATION.--Records of contents computed from gage heights and capacity curve furnished by Washington Suburban Sanitary Commission.

ELEVATION, IN FEET, AND CONTENTS, IN MILLION GALLONS, AT 1800 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	364.90	6,560	364.55	6,470	16	364.40	6,430	363.75	6,270
2	364.60	6,480	364.35	6,420	17	364.40	6,430	363.60	6,230
3	364.45	6,440	364.20	6,380	18	364.40	6,430	363.90	6,310
4	364.65	6,490	364.25	6,390	19	364.40	6,430	364.00	6,330
5	364.95	6,570	364.20	6,380	20	364.40	6,430	363.40	6,190
6	365.05	6,590	364.20	6,380	21	364.55	6,470	363.40	6,190
7	365.00	6,580	363.70	6,260	22	366.30	6,920	363.45	6,200
8	364.90	6,560	363.40	6,190	23	365.60	6,740	363.50	6,210
9	364.85	6,540	363.40	6,190	24	365.20	6,630	363.50	6,210
10	364.60	6,480	363.40	6,190	25	365.00	6,580	363.45	6,200
11	364.45	6,440	363.40	6,190	26	364.75	6,520	363.45	6,200
12	364.40	6,430	363.35	6,170	27	364.95	6,570	363.40	6,190
13	364.40	6,430	363.40	6,190	28	364.70	6,510	363.40	6,190
14	364.35	6,420	363.50	6,210	29	364.40	6,430	363.50	6,210
15	364.40	6,430	363.45	6,200	30	365.00	6,580	363.50	6,210
					31			363.50	6,210
CHANGE IN CONTENTS							+20		-260

(342) 01592495 T. HOWARD DUCKETT RESERVOIR NEAR LAUREL, MD.

LOCATION.--Lat 39°07'00", long 76°52'32", Prince Georges County, on Patuxent River, 1.9 miles northwest of Laurel.

DRAINAGE AREA.--132 sq mi.

GAGE-HEIGHT RECORD.--Staff gage read twice daily. Datum of gage is mean sea level (general adjustment of 1912).

CONTENTS RECORD.--Contents computed from capacity curve furnished by Washington Suburban Sanitary Commission.

MAXIMUMS.--June-July 1972: Contents observed, 7,290,000,000 gal 0700 hours June 22 (elevation, 289.65 ft).
March 1954 to May 1972: Contents observed, 7,130,000,000 gal Sept. 12, 1971 (elevation, 289.1 ft).

REMARKS.--Reservoir is formed by concrete dam with spillway controlled by gates 15 ft high. Storage began Mar. 7, 1954, when dam was completed. Total capacity at gage height 285 ft (top of gates), is 6,000,000,000 gal. Dead storage at gage height 214 ft (sill of penstock intake), is 100,000,000 gal. Water is used for municipal supply in Washington Suburban Sanitary District.

COOPERATION.--Records of contents computed from gage heights and capacity curve furnished by Washington Suburban Sanitary Commission.

ELEVATION, IN FEET, AND CONTENTS, IN MILLION GALLONS, AT 1800 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	285.10	6,030	283.85	5,710	16	284.60	5,900	283.35	5,590
2	285.30	6,080	284.05	5,760	17	284.65	5,910	284.20	5,800
3	285.45	6,120	283.70	5,680	18	284.70	5,930	283.50	5,630
4	285.00	6,000	284.05	5,760	19	284.25	5,810	283.30	5,580
5	284.70	5,930	284.20	5,800	20	284.10	5,780	283.75	5,690
6	284.45	5,860	284.25	5,810	21	284.35	5,840	283.70	5,680
7	284.30	5,830	283.90	5,730	22	287.50	6,670	283.50	5,630
8	284.45	5,860	283.90	5,730	23	285.05	6,010	283.35	5,590
9	284.70	5,930	283.30	5,580	24	284.50	5,880	283.30	5,580
10	284.75	5,940	283.25	5,570	25	284.55	5,890	283.40	5,610
11	284.80	5,950	283.25	5,570	26	284.15	5,790	283.50	5,630
12	284.55	5,890	283.25	5,570	27	283.95	5,740	283.50	5,630
13	284.50	5,880	283.50	5,630	28	284.25	5,810	283.45	5,620
14	284.60	5,900	283.55	5,640	29	284.65	5,910	283.25	5,570
15	284.60	5,900	283.45	5,620	30	285.35	6,090	283.30	5,580
					31			283.35	5,590
CHANGE IN CONTENTS							+60		-120

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	84	105	11...	40	65	21...	219	55
2....	57	105	12...	40	65	22...	4,680	50
3....	51	113	13...	39	123	23...	768	48
4....	48	94	14...	47	73	24...	146	44
5....	63	85	15...	43	62	25...	101	39
6....	51	83	16...	40	95	26...	81	37
7....	51	77	17...	49	154	27...	70	36
8....	45	90	18...	47	68	28...	74	39
9....	44	79	19...	49	59	29...	234	38
10...	43	70	20...	44	59	30...	615	39
						31...		40
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							265	71
RUNOFF, IN INCHES							7.79	2.14

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.14	61	6-22	0300	12.05	3,840	6-23	0830	7.23	791
6-21	1130	3.24	74	6-22	0530	18.04	11,800	6-23	1900	6.61	679
6-21	1330	3.56	124	6-22	0630	**18.38**	**12,400**	6-23	2130	5.94	558
6-21	1530	4.25	251	6-22	0800	17.52	10,900	6-23	2330	4.45	289
6-21	1800	4.21	243	6-22	1230	12.49	4,330	6-23	2400	4.32	264
6-21	2200	6.53	665	6-22	1730	10.40	2,150				
6-21	2400	7.28	800	6-22	2330	8.83	1,150				
				6-22	2400	8.73	1,110	6-24	0030	4.22	245
								6-24	0500	3.83	172
6-22	0130	8.66	1,090					6-24	2400	3.43	102
6-22	0200	9.71	1,620	6-23	0030	8.62	1,080				

(346) 01594000 LITTLE PATUXENT RIVER AT SAVAGE, MD.
(Crest-stage station; gaging station discontinued 1958)

LOCATION.--Lat 39°08'00", long 76°48'58", Howard County, on left bank 400 ft downstream from bridge on U. S. Highway 1, 0.5 mile southeast of Savage, and 1 mile downstream from Middle Patuxent River.

DRAINAGE AREA.--98.4 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 125 ft (from topographic map).

DISCHARGE.--Stage-discharge relation defined by current-meter measurements below 5,000 cfs and by combination of width contraction and culvert flow at abandoned mill 0.6 mile upstream at 35,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 35,400 cfs June 22 (gage height, 25.4 ft, from floodmarks).
1940 to May 1972: Discharge, 6,280 cfs Sept. 1, 1952 (gage height, 13.15 ft).
Flood of August 1933 reached a stage of about 17.5 ft, from information by local residents.

(347) 01594400 DORSEY RUN NEAR JESSUP, MD.
(Published as "at Annapolis Junction" prior to 1952)

(Crest-stage station; gaging station discontinued 1958)

LOCATION.--Lat 39°07'15", long 76°47'00", Anne Arundel County, on left bank at downstream side of bridge on State Highway 32, 0.6 mile southeast of Fort George G. Meade Junction, 1.0 mile upstream from mouth, and 2 miles south of Jessup.

DRAINAGE AREA.--11.6 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Altitude of gage is 120 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 390 cfs and by contracted-opening measurement at 1,360 cfs.

MAXIMUMS.--June-July 1972: Discharge, about 1,700 cfs June 22 (gage height, 14.0 ft, from high-water mark in gage house).
1949 to May 1972: Discharge, 1,400 cfs Aug. 13, 1955 (gage height, 12.77 ft).

(343) 01592500 PATUXENT RIVER NEAR LAUREL, MD.

LOCATION.--Lat 39°06'56", long 76°52'27", Prince Georges County, on right bank at Rocky Gorge Pumping station, 600 ft downstream from Rocky Gorge Dam, 0.7 mile upstream from Walker Branch, 1.3 miles northwest of Laurel, and 81 miles upstream from mouth.

DRAINAGE AREA.--132 sq mi.

GAGE-HEIGHT RECORD.--Station and water-stage recorder destroyed by flood, record not recovered. Stage graph constructed from stage readings, records of turbine operation, valve settings, and gate openings furnished by Washington Suburban Sanitary Commission. Datum of gage is 153.5 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,600 cfs and by contracted-opening measurement at 26,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, about 26,000 cfs 0700 hours June 22 (gage height, about 25 ft, from floodmarks).
1945 to May 1972: Discharge, about 12,000 cfs Sept. 12, 1971 (gage height, about 18.5 ft, from floodmarks).

REMARKS.--Flow regulated by reservoir immediately upstream.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	460	920	11...	150	170	21...	400	170
2....	170	600	12...	150	170	22...	13,000	170
3....	170	750	13...	110	170	23...	3,400	130
4....	200	340	14...	80	170	24...	1,050	110
5....	260	170	15...	80	170	25...	460	80
6....	170	260	16...	80	220	26...	560	80
7....	110	520	17...	80	450	27...	170	110
8....	80	520	18...	90	240	28...	320	120
9....	90	300	19...	260	130	29...	560	110
10...	120	170	20...	170	170	30...	1,650	90
						31...		50
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							822	253
RUNOFF,IN INCHES.....							6.94	2.21

(344) 01593350 LITTLE PATUXENT RIVER TRIBUTARY AT GUILFORD DOWNS, MD.

(Crest-stage station)

LOCATION.--Lat 39°13'39", long 76°50'41", at upstream side of culvert at U.S. Highway 29, at Guilford Downs, Howard County, and 4.1 miles north of Guilford.

DRAINAGE AREA.--0.95 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 320 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 30 cfs, by slope-area measurement at 210 cfs, and by computation of maximum flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 620 cfs June 22 (gage height, 10.28 ft, from floodmarks).
1966 to May 1972: Discharge not determined, less than 450 cfs. Aug. 16, 1968 (gage height, 8.53 ft).

(345) 01593500 LITTLE PATUXENT RIVER AT GUILFORD, MD.

LOCATION.--Lat 39°10'04", long 76°51'07", Howard County, on left bank 75 ft upstream from bridge on State Highway 32, 1 mile west of Guilford, 3 miles upstream from Middle Patuxent River, 4 miles north of Laurel, and 20.1 miles upstream from mouth.

DRAINAGE AREA.--38.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 0600 hours to 0700 hours June 22 for which graph was reconstructed on basis of high-water mark in well. Altitude of gage is 260 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,800 cfs, by contracted-opening measurement at 5,300 cfs, and by contracted-opening and flow-over-embankment measurement at 12,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,400 cfs about 0630 hours June 22 (gage height, 18.38 ft, from high-water mark in well).
1933 to May 1972: Discharge, 5,300 cfs Sept. 1, 1952 (gage height, 13.26 ft).

(348) 01594440 PATUXENT RIVER AT U.S. HIGHWAY 50 NEAR MITCHELLVILLE, MD.

(Miscellaneous site)

LOCATION.--Lat 38°57'20", long 76°41'40", Prince Georges County-Anne Arundel County line, at bridge on U. S. Highway 50 (John Hanson Highway), 3.1 miles downstream from Little Patuxent River, 3.4 miles northeast of Mitchellville, and 4.2 miles northwest of Davidsonville.

DRAINAGE AREA.--348 sq mi.

DISCHARGE RECORD.--Maximum discharge by contracted-opening measurement.

MAXIMUM.--June-July 1972: Discharge, 31,100 cfs June 22.

(349) 01594445 MILL BRANCH NEAR MITCHELLVILLE, MD.

(Crest-stage station)

LOCATION.--Lat 38°55'44", long 76°43'03", at upstream side of culvert at U.S. Highway 301, 1.4 miles east of Mitchellville, Prince Georges County, and 2.1 miles northeast of Hall.

DRAINAGE AREA.--1.1 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 70 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 26 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, about 250 cfs June 22 (gage height, 6.56 ft).
1966 to May 1972: Discharge, 540 cfs Aug. 2, 1969 (gage height, 11.42 ft, from floodmarks).

(350) 01594500 WESTERN BRANCH NEAR LARGO, MD.

LOCATION.--Lat 38°52'24", long 76°47'54", Prince Georges County, on right bank 200 ft upstream from culvert on State Highway 202, 200 ft downstream from small tributary, 0.1 mile upstream from Southwest Branch, 2.3 miles southeast of Largo, 4.8 miles northwest of Upper Marlboro, and 11 miles upstream from mouth.

DRAINAGE AREA.--30.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 46.50 ft above mean sea level (levels by private consultant engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 400 cfs and extended by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,540 cfs 0630 hours June 22 (gage height, 8.54 ft).
1950 to May 1972: Discharge, 1,760 cfs Aug. 27, 1971 (gage height, 8.97 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	26	140	11...	15	22	21...	150	122
2....	24	53	12...	14	23	22...	1,100	33
3....	21	45	13...	14	243	23...	670	26
4....	20	38	14...	19	61	24...	226	22
5....	36	45	15...	17	33	25...	67	20
6....	32	40	16...	14	35	26...	47	18
7....	38	33	17...	15	130	27...	36	18
8....	25	29	18...	23	51	28...	140	19
9....	20	27	19...	20	33	29...	93	19
10...	17	24	20...	18	95	30...	399	23
						31...		23
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							112	50
RUNOFF,IN INCHES.....							4.13	1.90

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.96	16					6-24	1530	3.48	128
6-20	2030	2.00	18					6-24	2400	3.06	78
6-20	2400	2.33	31	6-22	0300	7.13	971				
				6-22	0630	8.54	1,540				
				6-22	2330	6.57	786	6-25	0630	3.08	80
6-21	0730	2.14	24	6-22	2400	6.55	780	6-25	1230	2.94	67
6-21	1030	2.39	34					6-25	2400	2.71	53
6-21	1200	2.71	53								
6-21	1530	2.56	44	6-23	0730	6.63	804				
6-21	1600	2.66	50	6-23	1300	6.24	687	6-26	0030	2.71	53
6-21	1630	2.92	66	6-23	2400	5.33	456	6-26	2400	2.47	38
6-21	1700	3.29	104								
6-21	1900	5.05	400								
6-21	2330	5.63	528	6-24	0030	5.29	448	6-27	0530	2.47	38
6-21	2400	5.64	530	6-24	0930	4.27	247	6-27	2400	2.33	31

(351) 01594600 COCKTOWN CREEK NEAR HUNTINGTOWN, MD.

LOCATION.--Lat 38°38'27", long 76°38'07", Calvert County on right bank at downstream side of bridge 2 miles northwest of Huntingtown, 2.8 miles southeast of Lower Marlboro, and 3.5 miles upstream from mouth.

DRAINAGE AREA.--3.85 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 1-8, 24, 25, July 6-27, float perched on silt in well. Altitude of gage is 40 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements. Discharge June 1-8, 24, 25, July 6-27 estimated on basis of two discharge measurements and weather records.

MAXIMUMS.--June-July 1972: Discharge, 165 cfs 0930 hours June 22 (gage height, 5.63 ft).
1957 to May 1972: Discharge, 1,120 cfs June 14, 1961 (gage height, 7.96 ft), from rating curve extended above 150 cfs on basis of contracted-opening measurement at 1,120 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9.0	8.4	11...	5.2	6.0	21...	13	6.5
2....	8.0	7.3	12...	5.1	6.0	22...	69	5.5
3....	7.5	9.3	13...	5.0	9.0	23...	16	5.0
4....	7.0	8.0	14...	5.5	7.0	24...	9.0	4.6
5....	8.0	8.3	15...	4.9	6.0	25...	8.9	4.2
6....	9.0	7.0	16...	5.5	6.0	26...	7.5	4.0
7....	8.0	6.5	17...	6.4	7.5	27...	6.8	3.8
8....	6.0	6.5	18...	19	6.0	28...	11	3.7
9....	5.6	6.0	19...	8.6	5.5	29...	9.9	3.7
10...	5.4	6.0	20...	7.9	5.5	30...	16	4.4
						31...		4.2
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							10	6.1
RUNOFF, IN INCHES							3.03	1.81

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	0.91	9.2								
6-21	0830	0.84	8.3								
6-21	1145	0.95	9.8	6-22	0130	1.37	16	6-23	0545	1.84	20
6-21	1515	0.89	9.0	6-22	0200	1.68	20	6-23	0715	2.05	23
6-21	1600	1.02	11	6-22	0245	3.40	45	6-23	0815	1.98	22
6-21	1730	2.33	29	6-22	0330	4.47	80	6-23	1545	1.45	14
6-21	1800	2.58	33	6-22	0930	5.63	165	6-23	2400	1.28	11
6-21	1815	2.42	30	6-22	1400	4.57	85				
6-21	1930	1.71	21	6-22	1445	3.46	46				
6-21	2115	1.44	17	6-22	1630	2.33	28	6-24	0015	1.28	11
6-21	2345	1.59	19	6-22	2045	1.79	19	6-24	2400	1.11	9.2
6-21	2400	1.53	18	6-22	2400	1.64	17				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	44	85	11...	17	55	21...	70	15
2....	37	75	12...	15	45	22...	95	15
3....	31	70	13...	15	40	23...	500	15
4....	27	75	14...	25	30	24...	160	15
5....	24	900	15...	35	25	25...	106	20
6....	22	500	16...	35	30	26...	83	16
7....	21	240	17...	30	30	27...	77	20
8....	18	150	18...	45	20	28...	50	26
9....	18	100	19...	50	20	29...	120	18
10...	22	70	20...	30	20	30...	100	24
						31...		37
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							64	90
RUNOFF, IN INCHES							1.52	2.20

(354) 01595500 NORTH BRANCH POTOMAC RIVER AT KITZMILLER, MD.

LOCATION.--Lat 39°23'38", long 79°10'55", Garrett County, on left bank 0.6 mile downstream from bridge on State Highway 38 in Kitzmiller, 1.5 miles downstream from Wolfden Run, and at mile 68.9.

DRAINAGE AREA.--225 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,572.26 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 4,680 cfs 0815 hours June 23 (gage height, 7.07 ft).
1950 to May 1972: Discharge, 33,400 cfs Oct. 15, 1954 (gage height, 13.73 ft, from flood-marks), from rating curve extended above 20,000 cfs on basis of slope-area measurement at 33,400 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	243	865	11...	123	410	21...	348	129
2....	208	656	12...	104	350	22...	485	116
3....	185	554	13...	97	318	23...	3,240	106
4....	164	519	14...	139	263	24...	2,280	94
5....	151	1,710	15...	166	223	25...	1,460	134
6....	136	1,460	16...	139	217	26...	1,060	118
7....	131	992	17...	153	194	27...	666	112
8....	117	790	18...	129	175	28...	500	165
9....	111	644	19...	208	162	29...	2,020	108
10...	136	505	20...	229	143	30...	1,160	125
						31...		200
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							540	405
RUNOFF, IN INCHES							2.68	2.08

(352) 01595200 STONY RIVER NEAR MT. STORM, W. VA.

LOCATION.--Lat 39°16'10", long 79°15'45", Grant County, on left bank 100 ft downstream from highway bridge on U.S. Highway 50, 1.0 mile west of Mt. Storm, and at mile 6.4.

DRAINAGE AREA.--48.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 2,554.54 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 750 cfs 1400 hours June 23 (gage height, 5.10 ft). 1962 to May 1972: Discharge, 3,120 cfs Mar. 19, 1963; gage height, 8.41 ft Mar. 5, 1963 (ice jam).

REMARKS.--Flow regulated by Stony River Reservoir, 14.0 miles upstream from station (capacity, 1,948,000,000 gal, of which 1,681,000,000 gal is controlled above minimum pool). Since 1963, minor regulation by Virginia Electric and Power Company dam 4.0 miles upstream from station.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	70	102	11...	40	89	21...	69	41
2....	65	91	12...	36	82	22...	95	38
3....	58	85	13...	33	82	23...	560	35
4....	55	78	14...	38	74	24...	546	32
5....	50	260	15...	33	69	25...	457	36
6....	49	242	16...	35	63	26...	277	32
7....	47	211	17...	32	56	27...	65	50
8....	44	188	18...	26	53	28...	56	37
9....	41	155	19...	24	49	29...	135	35
10...	46	106	20...	25	44	30...	102	50
						31...		61
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							107	85
RUNOFF,IN INCHES.....							2.45	2.00

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.89	27	6-23	1100	4.78	591	6-26	1430	4.21	349
6-21	0530	2.93	32	6-23	1230	4.68	546	6-26	1530	3.68	164
6-21	0930	3.05	49	6-23	1300	5.09	745	6-26	1630	3.41	95
6-21	1430	3.34	102	6-23	1400	5.10	750	6-26	1800	3.23	61
6-21	1500	3.34	102	6-23	2400	4.84	620	6-26	1830	3.22	60
6-21	2400	3.26	85					6-26	1930	3.29	72
								6-26	2400	3.28	70
				6-24	0100	4.83	615				
6-22	2100	3.35	104	6-24	2400	4.55	488				
6-22	2400	3.55	155					6-27	0500	3.28	70
								6-27	2400	3.22	60
				6-25	0100	4.55	488				
6-23	0030	3.61	143	6-25	2400	4.39	421				
6-23	0330	4.28	377					6-28	2330	3.22	60
6-23	0630	4.93	665					6-28	2400	3.26	67
6-23	1000	4.64	528	6-26	0030	4.39	421				

(353) 01595300 ABRAM CREEK AT OAKMONT, W. VA.

LOCATION.--Lat 39°22'00", long 79°10'45", Mineral County, on downstream side of right wingwall of highway bridge, 0.5 mile east of Oakmont, 1.2 miles downstream from Emory Run, 1.8 miles southwest of Elk Garden, and at mile 1.9.

DRAINAGE AREA.--47.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2000 hours June 14 to 1300 hours June 24, 1800 hours June 28 to 1515 hours July 24. Peak of July 5 recorded.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by contracted-opening measurement at 3,830 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,540 cfs time unknown July 5 (gage height, 6.95 ft). 1955, 1957 to May 1972: Discharge, 3,830 cfs Aug. 18, 1955 (gage height, 9.82 ft, from floodmarks).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.09	136	6-27	0600	4.47	726				
6-21	0745	3.21	165	6-27	2400	4.20	560	7-04	0700	4.19	555
6-21	1130	3.48	243					7-04	2400	4.00	455
6-21	1945	4.36	656								
6-21	2030	4.36	656	6-28	0015	4.20	560				
6-21	2400	4.20	560	6-28	2330	4.07	490	7-05	0445	4.19	555
				6-28	2400	4.12	516	7-05	0715	4.77	936
								7-05	0900	5.56	1,740
6-22	0015	4.19	555					7-05	1130	6.32	2,980
6-22	1430	4.02	465	6-29	0145	4.53	765	7-05	1215	6.33	3,000
6-22	2400	4.17	544	6-29	0245	5.17	1,300	7-05	2400	5.58	1,770
				6-29	0515	6.42	3,190				
				6-29	0630	6.49	3,340				
6-23	0200	4.61	817	6-29	0900	6.22	2,780	7-06	0045	5.57	1,750
6-23	0330	5.44	1,600	6-29	1700	5.59	1,780	7-06	2400	5.01	1,140
6-23	0815	7.07	4,680	6-29	2400	5.31	1,450				
6-23	0930	7.07	4,680								
6-23	2400	6.27	2,880					7-07	0030	5.00	1,130
				6-30	0015	5.30	1,440	7-07	2400	4.68	866
				6-30	2400	4.81	968				
6-24	0030	6.26	2,860								
6-24	2400	5.54	1,720					7-08	0030	4.68	866
				7-01	0030	4.80	960	7-08	2400	4.46	719
				7-01	2400	4.48	732				
6-25	0030	5.53	1,710								
6-25	2400	5.12	1,250					7-09	0045	4.45	713
				7-02	0030	4.48	732	7-09	2400	4.22	572
				7-02	2400	4.22	572				
6-26	0015	5.12	1,250								
6-26	1945	4.72	896					7-10	0030	4.22	572
6-26	2400	4.43	700	7-03	0045	4.22	572	7-10	2400	3.98	445
				7-03	2400	4.17	544				

(355) 01595800 NORTH BRANCH POTOMAC RIVER AT BARNUM, W. VA.

LOCATION.--Lat 39°26'44", long 79°06'39", Garrett County, Md., on left bank at bridge at Barnum, W. Va., 0.4 mile upstream from Folly Run, and 4 miles southwest of Piedmont, W. Va.

DRAINAGE AREA.--266 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,151.93 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 5,440 cfs 0945 hours June 23 (gage height, 7.47 ft). 1967 to May 1972: Discharge, 12,200 cfs Mar. 7, 1967 (gage height, 9.70 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	302	1,030	11...	144	474	21...	345	155
2....	246	714	12...	122	409	22...	580	136
3....	219	622	13...	108	376	23...	3,430	126
4....	191	587	14...	129	310	24...	2,540	114
5....	175	1,870	15...	198	266	25...	1,610	141
6....	158	1,740	16...	152	246	26...	1,190	155
7....	150	1,160	17...	172	230	27...	749	112
8....	136	917	18...	134	205	28...	559	198
9....	129	753	19...	238	188	29...	2,570	131
10...	144	594	20...	147	166	30...	1,480	131
						31...		230
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							615	467
RUNOFF,IN INCHES.....							2.58	2.03

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0515	2.71	139	6-26	2200	4.19	987	7-02	0330	3.98	820
6-21	0700	2.80	163	6-26	2400	4.00	835	7-02	0515	3.97	812
6-21	0930	2.91	198					7-02	0530	3.96	805
6-21	1600	3.33	382					7-02	2400	3.76	657
6-21	2215	3.92	775	6-27	0015	4.00	835				
6-21	2330	3.92	775	6-27	2400	3.75	650				
6-21	2400	3.89	753					7-03	0100	3.76	657
								7-03	2400	3.70	615
				6-28	0030	3.74	643				
6-22	0015	3.88	745	6-28	2315	3.54	506				
6-22	1145	3.60	545	6-28	2400	3.64	573	7-04	1200	3.70	615
6-22	2400	3.66	587					7-04	2400	3.56	519
				6-29	0145	3.85	723				
6-23	0330	4.02	850	6-29	0230	4.31	1,090	7-05	0445	3.68	601
6-23	0445	4.61	1,360	6-29	0615	6.72	4,000	7-05	0900	4.34	1,120
6-23	0730	6.85	4,230	6-29	0730	6.76	4,070	7-05	1030	5.05	1,820
6-23	0945	7.47	5,440	6-29	1630	5.60	2,430	7-05	1230	6.24	3,270
6-23	2400	6.20	3,210	6-29	2400	5.20	1,980	7-05	1345	6.29	3,340
								7-05	2400	5.38	2,180
6-24	0015	6.18	3,180	6-30	0015	5.20	1,980				
6-24	1830	5.39	2,190	6-30	1115	4.71	1,460	7-06	0015	5.34	2,130
6-24	1845	4.99	1,750	6-30	2400	4.40	1,170	7-06	2400	4.59	1,340
6-24	1915	5.36	2,160								
6-24	2400	5.15	1,930								
				7-01	0045	4.40	1,170	7-07	0015	4.59	1,340
				7-01	2400	4.04	865	7-07	2400	4.24	1,030
6-25	0030	5.15	1,930								
6-25	2400	4.63	1,380								
				7-02	0100	4.03	858	7-08	0015	4.23	1,020
				7-02	0315	3.99	828	7-08	2400	4.00	835
6-26	0100	4.62	1,370								

(356) 01596085 SAVAGE RIVER NEAR FROSTBURG, MD.

(Crest-stage station)

LOCATION.--Lat 39°40'56", long 78°57'54", at upstream side of culvert at U.S. Highway 40, Garrett County, 1.2 miles northwest of Allegany County line, 1.9 miles northwest of Frostburg city limits, and 4.7 miles southwest of Mount Savage.

DRAINAGE AREA.--1.5 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 2,630 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, about 70 cfs June 23 but may have occurred on June 29 (gage height, 19.74 ft).
1971 to May 1972: Discharge, about 60 cfs March 13, 1972 (gage height, 19.60 ft).

(357) 01596500 SAVAGE RIVER NEAR BARTON, MD.

LOCATION.--Lat 39°34'05", long 79°06'10", Garrett County, on right bank 0.9 mile upstream from Bear Pen Run, 1.5 miles downstream from Popular Lick Run, 5.4 miles northwest of Barton, and 10 miles upstream from mouth.

DRAINAGE AREA.--49.1 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,605 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 854 cfs 0845 hours June 23 (gage height, 3.39 ft).
1949 to May 1972: Discharge, 7,510 cfs Oct. 15, 1954 (gage height, 8.45 ft), from rating curve extended above 1,600 cfs on basis of slope-area measurement of peak flow.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.02	8.3								
6-21	0715	1.03	8.7	6-26	0145	1.58	63				
6-21	1100	1.19	16	6-26	2400	1.48	46	7-01	0030	1.73	91
6-21	1515	1.23	19					7-01	2400	1.56	58
6-21	2400	1.14	13								
				6-27	0300	1.47	45				
				6-27	2400	1.39	35	7-02	0100	1.56	58
6-22	1830	1.10	11					7-02	2400	1.45	41
6-22	2245	1.19	16								
6-22	2400	1.26	22	6-28	2300	1.33	29				
				6-28	2315	1.37	33	7-03	1945	1.42	37
				6-28	2345	1.57	61	7-03	2115	1.45	41
6-23	0230	1.51	51	6-28	2400.	1.56	59	7-03	2400	1.42	37
6-23	0815	1.90	135								
6-23	1300	1.92	141								
6-23	2400	1.87	127	6-29	0100	1.73	93	7-04	0030	1.42	37
				6-29	0130	1.91	138	7-04	2400	1.31	26
				6-29	0315	2.12	207				
6-24	0045	1.88	130	6-29	0530	2.19	233				
6-24	2400	1.72	91	6-29	0845	2.15	218	7-05	0345	1.37	31
				6-29	2400	1.98	158	7-05	0900	1.54	52
								7-05	0945	1.54	52
6-25	0015	1.72	91					7-05	2045	1.51	48
6-25	2400	1.58	3	6-30	0030	1.98	155	7-05	2400	1.52	49
				6-30	2400	1.73	91				

(359) 01597490 SAVAGE RIVER RESERVOIR NEAR BLOOMINGTON, MD.

LOCATION.--Lat 39°30'24", long 79°07'56", Garrett County, on Savage River at dam, 0.5 mile downstream from Crabtree Creek, and 3.7 miles northwest of Bloomington.

DRAINAGE AREA.--105 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is mean sea level.

CONTENTS RECORD.--Contents computed from capacity table dated June 1964.

MAXIMUMS.--June-July 1972: Contents, 20,500 acre-ft June 29 (elevation, 1469.87 ft).
1952 to May 1972: Contents, 21,200 acre-ft Oct. 16, 1954 (elevation, 1471.78 ft).

REMARKS.--Reservoir is formed by earth and rockfill dam completed in November 1951; some storage began in December 1950 before completion. Usable capacity, 19,750 acre-ft between elevations 1353 ft and 1468.5 ft (crest of spillway). Dead storage, 250 acre-ft. Figures given herein represent total contents. Reservoir is used for supplementing flow in North Branch Potomac River at Luke, for incidental flood control, and for municipal water supplies of Westernport, Md. and Piedmont, W. Va. Records furnished by Corps of Engineers.

ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, AT 1200 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	1468.82	20,100	1469.26	20,300	16	1468.66	20,100	1468.71	20,100
2	1468.78	20,100	1469.06	20,200	17	1468.65	20,100	1468.70	20,100
3	1468.76	20,100	1468.95	20,200	18	1468.64	20,000	1468.70	20,100
4	1468.73	20,100	1468.89	20,100	19	1468.64	20,000	1468.71	20,100
5	1468.73	20,100	1468.95	20,200	20	1468.64	20,000	1468.69	20,100
6	1468.71	20,100	1468.95	20,200	21	1468.71	20,100	1468.67	20,100
7	1468.68	20,100	1468.90	20,100	22	1468.76	20,100	1468.67	20,100
8	1468.66	20,100	1468.88	20,100	23	1469.59	20,400	1468.68	20,100
9	1468.65	20,100	1468.84	20,100	24	1469.36	20,300	1468.66	20,100
10	1468.67	20,100	1468.81	20,100	25	1469.13	20,200	1468.64	20,000
11	1468.64	20,000	1468.79	20,100	26	1468.98	20,200	1468.50	20,000
12	1468.62	20,000	1468.77	20,100	27	1468.90	20,100	1467.59	19,700
13	1468.62	20,000	1468.77	20,100	28	1468.84	20,100	1466.15	19,100
14	1468.65	20,100	1468.74	20,100	29	1469.86	20,500	1465.08	18,800
15	1468.67	20,100	1468.71	20,100	30	1469.57	20,400	1463.40	18,200
					31			1462.64	17,900
CHANGE IN CONTENTS							+300		-2,500

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	54	275	11...	17	48	21...	38	17
2....	44	154	12...	15	40	22...	49	16
3....	37	107	13...	16	36	23...	596	15
4....	31	84	14...	21	31	24...	421	13
5....	28	96	15...	20	27	25...	238	13
6....	24	98	16...	17	28	26...	151	11
7....	25	84	17...	15	24	27...	104	11
8....	20	75	18...	14	24	28...	76	11
9....	18	62	19...	13	24	29...	410	11
10...	20	60	20...	13	20	30...	527	11
						31...		13
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							102	50
RUNOFF,IN INCHES.....							2.33	1.17

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0930	1.43	22					6-29	0230	2.00	93
6-21	1530	1.64	41	6-24	0030	2.97	534	6-29	0430	2.35	197
6-21	1630	1.71	49	6-24	2400	2.59	306	6-29	0700	2.82	439
6-21	1700	1.90	76					6-29	1300	2.66	348
6-21	1800	1.90	76					6-29	1915	3.00	554
6-21	2400	1.76	55	6-25	0015	2.59	306	6-29	2230	3.33	805
				6-25	2400	2.31	182	6-29	2315	3.30	781
								6-29	2400	3.25	741
6-22	1200	1.66	43								
6-22	2345	1.81	62	6-26	0100	2.31	182				
6-22	2400	1.82	64	6-26	2400	2.12	122	6-30	0015	3.24	733
								6-30	2400	2.70	371
6-23	0145	1.97	87	6-27	0015	2.12	122				
6-23	0215	2.07	109	6-27	2400	1.97	87	7-01	0015	2.70	371
6-23	0315	2.44	234					7-01	2400	2.34	193
6-23	0645	3.33	805								
6-23	0845	3.39	854	6-28	0130	1.97	87				
6-23	1600	3.16	670	6-28	2400	1.88	71	7-02	0045	2.34	193
6-23	2400	2.97	534					7-02	2400	2.12	122

(358) 01597000 CRABTREE CREEK NEAR SWANTON, MD.

LOCATION.--Lat 39°30'00", long 79°09'35", Garrett County, on left bank 0.5 mile upstream from mouth, 1.0 mile downstream from Springlick Run, and 5 miles northeast of Swanton.

DRAINAGE AREA.--16.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,529.06 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 233 cfs 0530 hours June 29 (gage height, 2.19 ft). 1949 to May 1972: Discharge, 3,260 cfs July 12, 1949 (gage height, 5.01 ft), from rating curve extended above 210 cfs on basis of slope-area and contracted-opening measurements of peak flow.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	13	70	11...	7.2	20	21...	14	7.2
2....	12	48	12...	6.6	16	22...	13	6.6
3....	10	36	13...	6.6	14	23...	115	6.0
4....	9.9	29	14...	7.8	12	24...	109	5.6
5....	9.5	44	15...	6.9	11	25...	77	7.2
6....	8.8	49	16...	6.4	10	26...	54	5.6
7....	8.4	48	17...	5.8	9.2	27...	40	5.2
8....	7.8	40	18...	5.6	9.2	28...	32	5.6
9....	7.5	32	19...	7.5	10	29...	188	5.0
10...	9.2	26	20...	6.4	7.8	30...	119	5.6
						31...		6.4
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							31	20
RUNOFF,IN INCHES.....							2.06	1.35

(360) 01597500 SAVAGE RIVER, BELOW SAVAGE RIVER DAM, NEAR BLOOMINGTON, MD.

LOCATION.--Lat 39°30'05", long 79°07'25", Garrett County, on left bank 0.7 mile downstream from Savage River Dam, 1.1 miles downstream from Crabtree Creek, 3.2 miles northwest of Bloomington, and 3.7 miles upstream from mouth.

DRAINAGE AREA.--106 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,276.40 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,660 cfs 1000 hours June 29 (gage height, 4.57 ft). 1949 to May 1972: Discharge, 6,530 cfs Oct. 16, 1954 (gage height, 7.70 ft).

REMARKS.--Flow regulated by Savage River Reservoir.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	105	574	11...	30	109	21...	50	37
2....	84	344	12...	27	90	22...	85	31
3....	72	240	13...	28	81	23...	777	29
4....	62	187	14...	36	67	24...	759	27
5....	54	212	15...	37	59	25...	464	32
6....	51	232	16...	34	58	26...	305	124
7....	46	207	17...	29	50	27...	218	289
8....	37	182	18...	27	45	28...	163	258
9....	36	152	19...	27	52	29...	1,250	311
10...	43	132	20...	26	42	30...	1,110	283
						31...		28
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							202	147
RUNOFF,IN INCHES.....							2.13	1.60

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	1745	1.67	73	6-25	0030	3.30	575				
6-22	2215	1.87	103	6-25	2400	2.83	368	6-29	0115	2.74	332
6-22	2400	1.90	108					6-29	0830	4.46	1,540
								6-29	1000	4.57	1,660
				6-26	0015	2.83	368	6-29	2400	4.38	1,450
6-23	0400	2.23	174	6-26	2400	2.52	257				
6-23	0545	2.70	316								
6-23	1100	4.00	1,070					6-30	0030	4.40	1,470
6-23	1515	4.11	1,170	6-27	0115	2.51	254	6-30	2400	3.62	769
6-23	2045	3.98	1,050	6-27	2400	2.28	187				
6-23	2400	3.89	972								
								7-01	0015	3.61	762
				6-28	2300	2.14	153	7-01	2400	2.97	424
6-24	0015	3.89	972	6-28	2315	2.20	166				
6-24	2400	3.30	575	6-28	2345	2.45	236				
				6-28	2400	2.44	233	7-02	0030	2.96	420
								7-02	2400	2.56	269

(361) 01598500 NORTH BRANCH POTOMAC RIVER AT LUKE, MD.

(Published as "at Piedmont, W. Va." 1899-1906)

LOCATION.--39°28'45", long 79°03'55", Mineral County, W. Va., on right bank 0.2 mile downstream from Savage River, 0.5 mile northwest of Luke, and at mile 53.3.

DRAINAGE AREA.--404 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 946.25 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 5,620 cfs 1200 hours June 23 (gage height, 7.50 ft). 1900-1906, 1950 to May 1972: Discharge, 39,400 cfs Oct. 15, 1954 (gage height, 17.15 ft), from rating curve extended above 25,000 cfs on basis of slope-area measurement at 39,400 cfs. Maximum discharge for flood of Mar. 29, 1924 was 51,000 cfs at site half a mile downstream.

REMARKS.--Flow partly regulated by Savage River Reservoir.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	520	1,860	11...	210	650	21...	350	190
2...	400	1,320	12...	185	560	22...	720	180
3...	350	1,050	13...	160	520	23...	3,330	165
4...	310	931	14...	170	450	24...	3,380	151
5...	280	1,730	15...	220	370	25...	2,190	169
6...	250	2,090	16...	230	330	26...	1,620	284
7...	240	1,490	17...	210	330	27...	1,140	374
8...	220	1,150	18...	200	300	28...	875	442
9...	190	960	19...	235	280	29...	3,320	446
10...	200	800	20...	225	250	30...	2,850	382
						31...		259
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							826	661
RUNOFF, IN INCHES							2.28	1.89

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.16	284	6-27	1930	3.78	1,040				
6-21	1915	2.29	322	6-27	2400	3.71	992	7-04	0045	3.70	985
6-21	2400	2.52	400					7-04	2400	3.50	855
				6-28	0015	3.71	992				
6-22	1300	3.07	627	6-28	2400	3.39	789	7-05	0945	3.69	979
6-22	2400	3.08	631					7-05	1245	4.20	1,340
								7-05	1700	5.81	3,030
				6-29	0330	3.75	1,020	7-05	1730	5.81	3,030
6-23	0645	3.40	795	6-29	0530	4.67	1,740	7-05	2400	5.43	2,560
6-23	0800	4.01	1,200	6-29	0700	6.19	3,550				
6-23	0845	4.91	1,980	6-29	0900	7.10	4,920				
6-23	1015	7.19	5,060	6-29	1000	7.12	4,950	7-06	0015	5.42	2,540
6-23	1200	7.50	5,620	6-29	2400	6.22	3,590	7-06	2400	4.65	1,730
6-23	1630	7.18	5,050								
6-23	2400	6.61	4,160								
				6-30	0015	6.20	3,560	7-07	0015	4.64	1,720
				6-30	2400	5.14	2,220	7-07	2400	4.19	1,330
6-24	0015	6.59	4,130								
6-24	2400	5.51	2,650								
				7-01	0015	5.13	2,210	7-08	0045	4.18	1,320
				7-01	2400	4.45	1,550	7-08	2400	3.90	1,120
6-25	0015	5.50	2,640								
6-25	2400	4.78	1,850								
				7-02	0015	4.45	1,550	7-09	0030	3.90	1,120
				7-02	2400	3.96	1,160	7-09	2400	3.64	946
6-26	0015	4.78	1,850								
6-26	2400	4.28	1,400								
				7-03	0045	3.95	1,160	7-10	0045	3.63	940
				7-03	2400	3.70	985	7-10	2400	3.37	777
6-27	0015	4.27	1,400								

(362) 01599000 GEORGES CREEK AT FRANKLIN, MD.

LOCATION.--Lat 39°29'38", long 79°02'42", Allegany County, on right bank at Franklin, and 1.2 miles upstream from Westernport and mouth.

DRAINAGE AREA.--72.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 958.96 ft above mean sea level (Westvaco Corporation bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,250 cfs 0415 hours June 29 (gage height, 6.44 ft).
1931 to May 1972: Discharge, 8,500 cfs Mar. 17, 1936 (gage height, 9.6 ft), from rating curve extended above 2,000 cfs on basis of slope-area measurement at 8,500 cfs.
Flood of Mar. 29, 1924, reached a stage of about 10 ft, from floodmarks, at site 95 ft downstream.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0845	2.38	287					6-29	1300	10.45	8,380
6-21	1800	3.15	648	6-25	0015	6.30	3,060	6-29	1530	10.01	7,720
6-21	2145	3.69	964	6-25	2400	5.26	2,080	6-29	1545	9.95	7,630
6-21	2245	3.70	970					6-29	2100	9.48	6,970
6-21	2400	3.67	952					6-29	2400	9.50	7,000
				6-26	0015	5.25	2,080				
				6-26	2400	4.64	1,600				
6-22	0745	3.99	1,140					6-30	0030	9.47	6,960
6-22	1000	3.88	1,080					6-30	2245	6.70	3,470
6-22	2400	3.48	838	6-27	0030	4.64	1,600	6-30	2400	6.60	3,360
				6-27	1630	4.06	1,190				
				6-27	2400	3.93	1,110				
6-23	0400	4.18	1,280					7-01	0600	6.20	2,960
6-23	0945	5.31	2,130					7-01	1200	5.90	2,660
6-23	1145	6.56	3,320	6-28	0030	3.92	1,100	7-01	2400	5.31	2,130
6-23	1500	9.32	6,750	6-28	2400	3.54	874				
6-23	1630	9.53	7,040								
6-23	2400	8.42	5,550					7-02	0030	5.30	2,120
				6-29	0400	4.04	1,180	7-02	2400	4.52	1,510
				6-29	0515	4.82	1,730				
6-24	0015	8.36	5,470	6-29	0630	7.47	4,360				
6-24	2300	6.38	3,140	6-29	0945	9.67	7,240	7-03	0030	4.51	1,510
6-24	2400	6.31	3,070	6-29	1030	9.93	7,600	7-03	2400	4.11	1,230
				6-29	1045	10.02	7,730				

(364) 01600700 LITTLE WILLS CREEK AT BARD, PA.

(Crest-stage station)

LOCATION.--Lat 39°55'35", long 78°39'40", Bedford County, at bridge on State Highway 96 at Bard.

DRAINAGE AREA.--10.2 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,264.2 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200 cfs and by slope-area measurement at 789 cfs.

MAXIMUMS.--June-July 1972: Discharge, 789 cfs June 22 (gage height, 9.13 ft).
1961 to May 1972: Discharge, 1,100 cfs Sept. 29, 1967 (gage height, 8.91 ft).

(365) 01601000 WILLS CREEK BELOW HYNDMAN, PA.

(Crest-stage station; gaging station discontinued 1967)

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, half a mile south of Hyndman, Bedford County, and 14 miles upstream from mouth.

DRAINAGE AREA.--146 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 891.37 ft above mean sea level (Pennsylvania Railroad bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,000 cfs and extended by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 7,560 cfs June 23 (gage height, 8.91 ft).
1952 to May 1972: Discharge, 11,600 cfs Oct. 15, 1954 (gage height, 11.02 ft).

(366) 01601500 WILLS CREEK NEAR CUMBERLAND, MD.

LOCATION.--Lat 39°40'07", long 78°47'18", Allegany County, on right bank at downstream side of Western Maryland Railway bridge, 2 miles upstream from Cumberland, and mouth.

DRAINAGE AREA.--247 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except July 19-31. Datum of gage is 640.89 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements. Discharge July 19-31 computed on basis of weather records and records for Evitts Creek near Centerville, Pa.

MAXIMUMS.--June-July 1972: Discharge, 11,300 cfs 1245 hours June 23 (gage height, 10.06 ft).
1924, 1930 to May 1972: Discharge, 38,100 cfs Mar. 17, 1936 (gage height, 20.2 ft, from flood-marks), from rating curve extended above 6,500 cfs on basis of slope-area measurements at 17,900 and 38,100 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	69	380	11...	28	78	21...	172	39
2....	56	264	12...	26	69	22...	121	31
3....	50	196	13...	26	65	23...	565	27
4....	45	157	14...	34	56	24...	332	23
5....	42	231	15...	33	51	25...	218	24
6....	40	185	16...	41	50	26...	162	21
7....	37	134	17...	29	46	27...	128	21
8....	34	109	18...	25	45	28...	103	22
9....	31	97	19...	23	39	29...	742	21
10...	32	96	20...	25	35	30...	605	23
						31...		28
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							129	86
RUNOFF, IN INCHES							1.99	1.37

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0515	3.55	42					6-29	0300	5.17	550
6-21	0915	3.66	56	6-24	0015	4.87	398	6-29	0330	5.70	824
6-21	1015	3.79	75	6-24	2400	4.52	256	6-29	0400	6.41	1,230
6-21	1030	4.43	221					6-29	0415	6.44	1,250
6-21	1145	4.63	296					6-29	0715	5.65	797
6-21	1500	4.74	340	6-25	0030	4.52	256	6-29	1315	5.41	670
6-21	1600	4.69	320	6-25	2400	4.27	177	6-29	1815	5.47	700
6-21	2315	4.29	180					6-29	2030	5.92	945
6-21	2400	4.25	170					6-29	2400	5.94	956
				6-26	0030	4.27	177				
				6-26	2400	4.11	139				
6-22	0015	4.24	167					6-30	0015	5.88	923
6-22	1045	4.02	117					6-30	0545	5.42	675
6-22	2145	3.95	103	6-27	0015	4.11	139	6-30	2400	4.99	460
6-22	2400	4.08	130	6-27	2400	3.97	109				
								7-01	0015	4.99	460
6-23	0130	4.32	190	6-28	2345	3.91	97	7-01	2400	4.64	308
6-23	0330	5.09	505	6-28	2400	3.98	111				
6-23	0530	5.66	797								
6-23	0615	5.70	819					7-02	0030	4.64	308
6-23	2400	4.87	398	6-29	0115	4.36	205	7-02	2400	4.39	215
				6-29	0215	4.97	450				

(363) 01600000 NORTH BRANCH POTOMAC RIVER AT PINTO, MD.

LOCATION.--Lat 39°33'59", long 78°50'25", Mineral County, W. Va., on right bank at downstream side of Western Maryland Railway bridge at Pinto, 2.8 miles downstream from Mill Run, and at mile 32.6.

DRAINAGE AREA.--596 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 648.23 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 8,380 cfs 1300 hours June 29 (gage height, 10.45 ft).
1939 to May 1972: Discharge, 37,000 cfs Oct. 16, 1954 (gage height, 23.23 ft), from rating curve extended above 32,000 cfs on basis of contracted-opening measurement at 38,400 cfs.
Flood of Mar. 29, 1924, reached a stage of about 24 ft (discharge, about 55,000 cfs).
Flood of Mar. 17, 1936, reached a stage of about 23.5 ft, from flood marks (discharge, about 50,000 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	652	2,680	11...	266	830	21...	491	292
2....	499	1,780	12...	232	703	22...	977	260
3....	442	1,340	13...	208	640	23...	3,890	232
4....	388	1,150	14...	214	556	24...	4,060	211
5....	350	1,980	15...	287	470	25...	2,490	201
6....	321	2,580	16...	295	424	26...	1,820	303
7....	303	1,790	17...	268	412	27...	1,290	407
8....	275	1,430	18...	257	370	28...	979	513
9....	246	1,190	19...	291	345	29...	5,620	471
10...	250	1,010	20...	284	324	30...	4,900	492
						31...		366
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,090	831
RUNOFF, IN INCHES							2.05	1.61

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	218	1,430	11...	101	215	21...	794	105
2....	198	869	12...	91	191	22...	3,290	100
3....	177	643	13...	109	184	23...	8,840	95
4....	159	499	14...	122	163	24...	4,360	90
5....	145	529	15...	114	146	25...	1,950	90
6....	136	491	16...	112	139	26...	1,130	85
7....	125	368	17...	152	149	27...	757	85
8....	112	303	18...	138	139	28...	573	90
9....	107	269	19...	122	118	29...	2,010	85
10...	112	240	20...	105	116	30...	2,650	85
						31...		90
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							967	265
RUNOFF, IN INCHES							4.37	1.23

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.34	127	6-24	1715	6.17	3,290	6-29	1015	5.05	1,770
6-21	0400	2.32	122	6-24	2400	5.76	2,630	6-29	1745	4.97	1,680
6-21	0600	2.42	145					6-29	1815	5.31	2,060
6-21	0800	2.72	224					6-29	1830	5.78	2,660
6-21	1200	4.03	848	6-25	0030	5.72	2,580	6-29	1915	7.41	5,530
6-21	1400	4.09	884	6-25	2400	4.73	1,430	6-29	1930	7.44	5,590
6-21	1600	4.91	1,610					6-29	2315	6.53	3,900
6-21	2400	4.55	1,260					6-29	2400	6.54	3,920
				6-26	0015	4.71	1,410				
				6-26	2400	4.09	884				
6-22	0200	4.68	1,380					6-30	0015	6.52	3,890
6-22	0400	5.44	2,220					6-30	1415	5.60	2,420
6-22	0800	7.12	4,980	6-27	0015	4.08	878	6-30	2400	5.15	1,880
6-22	1000	7.28	5,280	6-27	2400	3.66	638				
6-22	1400	6.43	3,730								
6-22	2000	5.84	2,750					7-01	0015	5.11	1,830
6-22	2400	6.19	3,320	6-28	0045	3.65	633	7-01	2400	4.30	1,040
				6-28	2045	3.52	565				
				6-28	2400	3.45	530				
6-23	0800	9.67	10,400					7-02	0015	4.29	1,030
6-23	1245	10.06	11,300					7-02	2400	3.80	715
6-23	1600	9.71	10,500	6-29	0145	3.48	545				
6-23	2400	8.12	6,890	6-29	0300	3.84	737				
				6-29	0400	4.46	1,180	7-03	0030	3.80	715
				6-29	0830	3.99	824	7-03	2400	3.52	565
6-24	0015	8.06	6,770	6-29	0900	4.35	1,090				

(367) 01603000 NORTH BRANCH POTOMAC RIVER NEAR CUMBERLAND, MD.

LOCATION.--Lat 39°37'16", long 78°46'24", Allegany County, on left bank at downstream side of Wiley Ford Bridge, 2.1 miles downstream from Wills Creek, 2 miles south of Cumberland, and at mile 19.6.

DRAINAGE AREA.--875 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 585.22 ft above mean sea level (Corps of Engineers benchmark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained one or more times daily except June 14 and July 7.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined except for days of no samples. Concentration graph estimated June 14 and July 7.

MAXIMUMS.--June-July 1972: Discharge, 17,400 cfs 1800 hours June 23 (gage height, 14.55 ft); daily sediment concentration, 372 mg/l June 23; daily sediment discharge, 12,900 tons June 23.
1889 to May 1972: Discharge, about 89,000 cfs June 1, 1889 (gage height, 29.2 ft), from rating curve extended above 33,000 cfs on basis of slope-area measurement at 88,200 cfs.
1965 to May 1972: Daily sediment concentration, 1,600 mg/l Feb. 13, 1966; daily sediment discharge, 61,000 tons Mar. 6, 1967.

MEAN DISCHARGE, SEDIMENT CONCENTRATION, AND SEDIMENT DISCHARGE, 1972

DAY	JUNE DISCHARGE (CFS)	JUNE SUSPENDED SEDIMENT CONCENTRATION (MG/L)	JUNE SUSPENDED SEDIMENT TONS PER DAY	DAY	JULY DISCHARGE (CFS)	JULY SUSPENDED SEDIMENT CONCENTRATION (MG/L)	JULY SUSPENDED SEDIMENT TONS PER DAY
1	923	25	62	1	4,830	74	965
2	744	15	30	2	3,000	24	194
3	658	10	18	3	2,050	24	133
4	588	12	19	4	1,640	19	84
5	530	18	26	5	2,180	26	153
6	487	18	24	6	3,610	75	731
7	462	15	19	7	2,340	45	280
8	424	19	22	8	1,770	29	139
9	382	18	19	9	1,450	22	86
10	374	15	15	10	1,230	16	53
11	391	18	19	11	1,040	10	28
12	358	32	31	12	903	10	24
13	350	49	46	13	833	12	27
14	371	42	42	14	745	12	24
15	405	31	34	15	656	16	28
16	447	28	34	16	588	18	29
17	444	21	25	17	591	21	34
18	491	59	78	18	550	15	22
19	445	181	217	19	486	14	18
20	459	215	266	20	469	15	19
21	1,240	257	906	21	442	11	13
22	5,010	178	2,360	22	395	10	11
23	12,900	372	12,900	23	356	11	11
24	9,850	200	5,570	24	326	12	11
25	5,220	74	1,040	25	305	12	9.9
26	3,370	41	373	26	328	12	11
27	2,230	31	187	27	407	20	22
28	1,560	23	97	28	545	45	65
29	6,880	256	6,520	29	565	50	76
30	8,840	312	7,750	30	569	50	77
				31	568	40	61
TOTAL	66,833		38,749		35,767		3,438.9
MEAN	2,228		12,830		1,154		1,109
INCHES	2.84				1.52		
AC-FT	132,600		[a]25.4		70,940		[a]2.3

a Computed on basis of 70 lb/cu ft deposited unit weight.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.73	402	6-24	1815	8.58	7,930	6-29	2000	11.06	11,600
6-21	0700	2.81	457	6-24	2400	7.79	6,830	6-29	2100	11.38	12,100
6-21	0945	2.98	584					6-29	2400	10.98	11,500
6-21	1130	3.45	995								
6-21	1645	4.20	1,820	6-25	0015	7.76	6,780				
6-21	1915	4.61	2,370	6-25	2400	5.81	4,050	6-30	0115	10.99	11,500
6-21	2400	4.66	2,440					6-30	2400	7.37	6,240
				6-26	0015	5.79	4,030				
6-22	0345	5.33	3,380	6-26	2400	4.89	2,770	7-01	0015	7.34	6,200
6-22	1115	7.89	6,970					7-01	2400	5.57	3,720
6-22	1145	7.89	6,970								
6-22	2315	6.03	4,360	6-27	0015	4.88	2,750				
6-22	2400	6.11	4,470	6-27	2400	4.18	1,800	7-02	0015	5.55	3,690
								7-02	2400	4.64	2,420
6-23	0345	8.16	7,340	6-28	0015	4.18	1,800				
6-23	1230	12.86	14,600	6-28	2400	3.85	1,410	7-03	0015	4.63	2,400
6-23	1800	14.55	17,400					7-03	2400	4.18	1,800
6-23	2115	13.99	16,500								
6-23	2400	12.98	14,800	6-29	0415	4.00	1,580				
				6-29	0815	4.81	2,650	7-04	0045	4.17	1,780
				6-29	1200	9.13	8,700	7-04	2400	3.91	1,470
6-24	0015	12.87	14,600								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	107	711	11...	50	238	21...	165	53
2....	97	477	12...	48	207	22...	515	49
3....	89	399	13...	48	187	23...	2,110	45
4....	83	351	14...	51	169	24...	739	41
5....	80	617	15...	54	155	25...	438	38
6....	69	659	16...	49	112	26...	327	36
7....	68	484	17...	54	89	27...	258	33
8....	62	390	18...	48	75	28...	205	40
9....	59	333	19...	72	63	29...	1,380	41
10...	58	282	20...	54	55	30...	1,430	41
						31...		49
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							296	210
RUNOFF, IN INCHES							1.51	1.11

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.08	49					6-25	0030	4.94	505
6-21	0800	3.12	54	6-23	0300	5.22	697	6-25	2400	4.52	375
6-21	0830	3.17	61	6-23	0430	6.85	1,310				
6-21	1100	3.38	91	6-23	0830	9.85	3,940				
6-21	1230	3.69	147	6-23	0930	9.93	4,090	6-26	0100	4.51	360
6-21	1530	3.75	159	6-23	1200	9.49	3,360	6-26	2400	4.29	294
6-21	2000	4.53	360	6-23	1800	7.77	1,760				
6-21	2400	5.14	554	6-23	2400	6.45	1,150				
								6-27	0100	4.28	285
								6-27	2400	4.08	228
6-22	0430	5.43	683	6-24	0030	6.39	1,050				
6-22	0600	5.37	662	6-24	1000	5.55	750				
6-22	2200	4.46	363	6-24	2400	4.96	543	6-28	0100	4.08	223
6-22	2400	4.47	366					6-28	2400	3.92	189

(370) 01605500 SOUTH BRANCH POTOMAC RIVER AT FRANKLIN, W. VA.

(Gaging station, discontinued 1969)

LOCATION.--Lat 38°38'14", long 79°20'14", Pendleton County, on left bank 0.5 mile southwest of Franklin, 2.0 miles upstream from Friends Run, 2.5 miles downstream from Thorn Creek, and at mile 109.5.

DRAINAGE AREA.--182 sq mi.

GAGE-HEIGHT RECORD.--Peak stage determined from floodmark in well. Datum of gage is 1,692.5 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,400 cfs and by slope-area measurement at 15,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,610 cfs June 21 (gage height, 5.68 ft).
1941-69: Discharge, 15,000 cfs June 17, 1949 (gage height, 11.40 ft, from floodmarks).
Flood in March 1936, reached a stage of about 13 ft, from information by local residents.

(368) 01603500 EVITTS CREEK NEAR CENTERVILLE, PA.

(Published as "near Bedford Valley" prior to October 1952)

LOCATION.--Lat 39°47'23", long 78°38'48", Bedford County, on left bank 2 miles upstream from Thomas W. Koon Dam, 3.0 miles south of Centerville, 7.0 miles upstream from Rock Gully Creek, and at mile 16.3.

DRAINAGE AREA.--30.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1027.59 ft above mean sea level (city of Cumberland bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 520 cfs and by slope-area measurements at 2,040 and 5,240 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,750 cfs 0800 hours June 22 (gage height, 5.06 ft).
1933 to May 1972: Discharge, 5,240 cfs Mar. 17, 1936 (gage height, 7.13 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	25	78	11...	12	26	21...	194	14
2....	21	63	12...	11	24	22...	1,580	13
3....	20	55	13...	20	23	23...	1,490	12
4....	18	46	14...	19	20	24...	644	11
5....	17	61	15...	20	18	25...	300	11
6....	16	57	16...	41	18	26...	183	10
7....	15	40	17...	31	18	27...	129	10
8....	14	33	18...	46	18	28...	99	11
9....	13	31	19...	55	15	29...	118	11
10...	14	28	20...	28	17	30...	126	9.8
						31...		11
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							177	26
RUNOFF, IN INCHES							6.55	1.00

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.64	29	6-22	0115	3.49	961	6-24	0830	3.24	736
6-20	0245	1.64	29	6-22	0445	4.42	1,970	6-24	1630	2.94	498
6-20	2400	1.63	28	6-22	0800	5.06	2,750	6-24	2400	2.79	394
				6-22	1245	4.18	1,690				
				6-22	2145	3.54	1,010				
6-21	0900	1.67	32	6-22	2400	3.65	1,120	6-25	0045	2.79	394
6-21	0945	1.75	43					6-25	2400	2.45	225
6-21	1030	1.91	70								
6-21	1115	2.19	134	6-23	0900	4.16	1,670				
6-21	1215	2.52	254	6-23	1200	4.24	1,760	6-26	0015	2.45	225
6-21	2100	2.72	352	6-23	1830	3.93	1,410	6-26	2400	2.23	147
6-21	2230	2.87	449	6-23	2400	3.61	1,080				
6-21	2400	3.19	692								
								6-27	0115	2.23	147
				6-24	0015	3.58	1,050	6-27	2400	2.09	108

(369) 01604500 PATTERSON CREEK NEAR HEADSVILLE, W. VA.

LOCATION.--Lat 39°26'35", long 78°49'20", Mineral County, on right bank 100 ft downstream from Hazel Run, 1.0 mile downstream from Cabin Run, 4.0 miles northeast of Headsville, 8.0 miles east of Keyser, and at mile 12.5.

DRAINAGE AREA.--219 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 624.90 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,900 cfs and by contracted-opening measurement at 11,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,090 cfs 0930 hours June 23 (gage height, 9.93 ft).
1939 to May 1972: Discharge, 16,000 cfs Aug. 18, 1955 (gage height, 12.20 ft).

REMARKS.--The flow from 95.6 sq mi upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 16,000 acre-ft.

(371) 01605600 FRIENDS RUN NEAR FRANKLIN, W. VA.

LOCATION.--Lat 38°39'23", long 79°23'31", Pendleton County, on right bank 50 ft upstream from culvert on Secondary State Route 5/9, 300 ft from intersection with U.S. Highway 33, 3.4 miles west of Franklin, and at mile 4.5.

DRAINAGE AREA.--4.55 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 1 to 1615 hours June 22. Altitude of gage is 2,200 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 40 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, (maximum daily) 40 cfs June 21.
1970 to May 1972: Discharge, 58 cfs Dec. 31, 1969 (gage height, 1.87 ft); gage height, 2.25 ft Jan. 30, 1971.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4.0	11	11...	1.5	2.2	21...	40	1.2
2....	3.0	6.5	12...	1.0	1.8	22...	30	1.2
3....	3.0	5.2	13...	1.5	2.4	23...	19	.80
4....	2.5	4.4	14...	1.5	2.7	24...	15	.44
5....	2.5	15	15...	2.0	1.8	25...	12	1.6
6....	2.0	21	16...	1.5	1.4	26...	10	1.2
7....	2.0	14	17...	1.5	.80	27...	14	.80
8....	1.5	3.2	18...	1.5	1.0	28...	15	.52
9....	1.5	2.4	19...	1.5	2.2	29...	18	.58
10...	1.5	2.4	20...	1.5	1.4	30...	15	2.7
						31...		2.2
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							7.6	3.7
RUNOFF, IN INCHES							1.85	0.95

(372) 01605700 UNNAMED RUN ON NORTH FORK MOUNTAIN NEAR FRANKLIN, W. VA.

(Crest-stage station)

LOCATION.--Lat 38°41'47", long 79°23'55", Pendleton County, at culvert on U.S. Highway 33, 0.7 mile upstream from mouth, and 5.0 miles northwest of Franklin.

DRAINAGE AREA.--0.45 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 3,158.88 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 17 cfs June 22 (gage height, 3.40 ft).
1965 to May 1972: Gage height, less than 4.47 ft.

(373) 01606000 NORTH FORK SOUTH BRANCH POTOMAC RIVER AT CABINS, W. VA.

(Crest-stage station)

LOCATION.--Lat 38°59'05", long 79°14'10", Grant County, on left bank 380 ft upstream from highway bridge at Cabins, 1.8 miles downstream from Jordan Run, 6.0 miles west of Petersburg, and at mile 3.0.

DRAINAGE AREA.--314 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only (water-stage-recorder graph). Datum of gage is 1,050.13 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,400 cfs and by slope-area measurement at 50,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,530 cfs 1400 hours June 21 (gage height, 9.15 ft).
1936 to May 1972: Discharge, 50,000 cfs June 17, 1949 (gage height, 18.0 ft, from floodmark).

(374) 01606500 SOUTH BRANCH POTOMAC RIVER NEAR PETERSBURG, W. VA.

LOCATION.--Lat 38°59'34", long 79°10'26", Grant County, on right bank 1.2 miles downstream from North Fork South Branch Potomac River, 2.5 miles west of Petersburg, and at mile 72.6.

DRAINAGE AREA.--642 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 962.00 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 17,000 cfs and by slope-area measurement at 62,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 10,600 cfs 2400 hours June 21 (gage height, 9.25 ft).
1929 to May 1972: Discharge, 62,000 cfs June 17, 1949 (gage height, 22.83 ft).
Flood in 1877 reached a stage of 21.2 ft, from floodmarks.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	594	1,170	11...	277	835	21...	4,000	495
2...	512	937	12...	254	708	22...	7,430	430
3...	455	813	13...	244	673	23...	5,860	374
4...	411	727	14...	266	571	24...	3,880	324
5...	378	2,850	15...	447	499	25...	2,320	291
6...	352	4,060	16...	492	445	26...	1,590	268
7...	335	2,500	17...	560	449	27...	1,200	250
8...	313	1,710	18...	481	432	28...	989	263
9...	290	1,280	19...	573	393	29...	1,250	279
10...	283	1,000	20...	455	401	30...	1,470	1,140
						31...		1,560
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,270	907
RUNOFF,IN INCHES							2.20	1.63

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	2.27	492	6-22	0045	9.25	10,600	6-25	0015	4.82	2,830
6-20	2100	2.22	462	6-22	2245	6.29	4,890	6-25	2400	3.97	1,870
6-20	2400	2.28	498	6-22	2400	6.22	4,780				
								6-26	0015	3.96	1,860
6-21	0700	2.62	724	6-23	0930	7.31	6,560	6-26	2400	3.45	1,380
6-21	1000	3.14	1,110	6-23	1215	7.45	6,810				
6-21	1200	4.05	1,960	6-23	2400	6.47	5,170				
6-21	1515	6.62	5,410					6-27	0030	3.44	1,370
6-21	2230	9.16	10,400					6-27	2400	3.10	1,080
6-21	2345	9.25	10,600	6-24	0015	6.45	5,140				
6-21	2400	9.24	10,600	6-24	2400	4.83	2,850				
								6-28	0015	3.10	1,080
								6-28	2400	2.95	960

(375) 01606800 BRUSHY RUN NEAR PETERSBURG, W. VA.

(Crest-stage station)

LOCATION.--Lat 38°48'20", long 79°12'50", Grant County, at culvert on State Route 4, 14.0 miles southwest of Petersburg, and at mile 3.2.

DRAINAGE AREA.--1.43 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,460 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 46 cfs June 22 (gage height, 4.30 ft).
1965 to May 1972: Discharge, 57 cfs Feb. 8, 1971 (gage height, 4.62 ft).

(376) 01607500 SOUTH FORK SOUTH BRANCH POTOMAC RIVER AT BRANDYWINE, W. VA.

LOCATION.--Lat 38°37'53", long 79°14'38", Pendleton County, on left bank 50 ft upstream from bridge on U.S. Highway 33, 0.1 mile upstream from Hawes Run, 0.4 mile north of Brandywine.

DRAINAGE AREA.--102 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,558.35 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,300 cfs and by slope-area measurement at 41,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,170 cfs 2130 hours June 21 (gage height, 8.55 ft).
1944 to May 1972: Discharge, 41,200 cfs June 17, 1949 (gage height, 14.6 ft, from floodmarks).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0200	1.37	65	6-22	1000	7.28	5,740	6-25	0100	3.67	1,190
6-20	2400	1.41	74	6-22	2300	5.46	2,870	6-25	1800	3.05	780
				6-22	2400	5.36	2,750	6-25	2400	2.76	620
6-21	0500	1.47	90								
6-21	0800	1.61	129	6-23	0300	5.42	2,820	6-26	0100	2.74	610
6-21	1000	1.86	214	6-23	0800	6.82	4,900	6-26	2400	2.34	413
6-21	1500	2.83	657	6-23	2400	5.12	2,470				
6-21	1800	3.59	1,130								
6-21	1900	3.94	1,380					6-27	0100	2.33	409
6-21	2200	6.08	3,720	6-24	0100	5.04	2,380	6-27	2400	2.11	310
6-21	2400	6.52	4,390	6-24	1800	3.98	1,410				
				6-24	2400	3.76	1,250				
								6-28	0200	2.10	305
								6-28	2400	1.98	259

(378) 01608050 FORT RUN NEAR MOOREFIELD, W. VA.

LOCATION.--Lat 39°03'56", long 78°54'49", Hardy County, on right bank 16 ft upstream from culvert on Secondary State Route 23/2, 3.0 miles east of Moorefield, and at mile 4.6.

DRAINAGE AREA.--4.92 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 1 to 1315 hours July 1. Altitude of gage is 1,050 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 60 cfs and by slope-area measurement at 890 cfs.

MAXIMUMS.--June-July 1972: Discharge, 888 cfs about 0630 hours June 23 (gage height, 8.49 ft, from floodmarks).
1970 to May 1972: Discharge, 137 cfs Feb. 26, 1972 (gage height, 3.18 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	2.5	10	11...	1.0	2.7	21...	25	2.4
2...	2.5	8.3	12...	1.0	1.5	22...	100	1.5
3...	2.0	4.5	13...	1.0	1.1	23...	450	.96
4...	2.0	1.9	14...	1.0	.88	24...	100	.66
5...	1.5	15	15...	2.0	8.0	25...	35	.61
6...	1.5	20	16...	1.5	22	26...	10	.45
7...	1.5	13	17...	1.0	12	27...	3.5	.61
8...	1.5	14	18...	1.0	9.9	28...	3.5	.56
9...	1.0	9.3	19...	1.0	6.9	29...	15	.45
10...	1.0	5.5	20...	1.5	4.5	30...	13	1.9
						31...		1.9
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							26	5.9
RUNOFF,IN INCHES							5.93	1.38

(379) 01608100 WILLIAMS HOLLOW NEAR MOOREFIELD, W. VA.

(Crest-stage station)

LOCATION.--Lat 39°05'20", long 78°53'55", Hardy County, at culvert on State Route 55, 4.0 miles northeast of Moorefield, and at mile 3.8.

DRAINAGE AREA.--0.24 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,470 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 75 cfs June 22 (gage height, 5.70 ft).
1965 to May 1972: Gage height, less than 5.37 ft.

(380) 01608400 BUFFALO CREEK NEAR ROMNEY, W. VA.

LOCATION.--Lat 39°22'18", long 78°43'51", Hampshire County, on right bank 15 ft upstream from culvert on Secondary State Route 28/1, 0.7 mile upstream from mouth, and 2.5 miles northeast of Romney.

DRAINAGE AREA.--4.37 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1430 hours June 20 to 2045 hours June 21. Altitude of gage is 680 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 190 cfs and by computation of flow through culvert and flow-over-road measurement at 550 cfs.

MAXIMUMS.--June-July 1972: Discharge, 438 cfs 0145 hours June 22 (gage height, 7.15 ft).
1969 to May 1972: Discharge, 550 cfs July 29, 1969 (gage height, 8.00 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	84	203	11...	36	95	21...	2,910	56
2....	71	136	12...	33	80	22...	2,380	46
3....	63	109	13...	32	85	23...	665	48
4....	58	88	14...	43	71	24...	299	40
5....	53	878	15...	53	63	25...	208	38
6....	49	675	16...	40	59	26...	124	35
7....	47	302	17...	39	79	27...	100	31
8....	43	185	18...	37	60	28...	95	34
9....	40	134	19...	35	49	29...	337	85
10...	38	108	20...	39	71	30...	317	389
						31...		309
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							279	150
RUNOFF,IN INCHES.....							3.05	1.69

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.04	33					6-25	0100	3.17	238
6-20	1400	2.10	39	6-22	0030	8.13	5,290	6-25	2400	2.89	168
6-20	2130	2.17	48	6-22	0730	6.52	2,730				
6-20	2400	2.30	66	6-22	1900	5.20	1,300				
				6-22	2400	4.86	1,020	6-26	0030	2.86	162
								6-26	1230	2.66	124
6-21	0430	2.52	101					6-26	2400	2.57	109
6-21	0530	2.63	119	6-23	0030	4.81	987				
6-21	0600	2.89	168	6-23	2330	3.63	397				
6-21	0730	4.02	553	6-23	2400	3.62	393	6-27	0130	2.57	109
6-21	0830	5.05	1,170					6-27	2400	2.45	90
6-21	1230	7.12	3,580								
6-21	2130	8.55	6,170	6-24	0030	3.60	385				
6-21	2300	8.47	6,000	6-24	2400	3.18	240	6-28	0230	2.52	101
6-21	2400	8.27	5,580					6-28	0830	2.49	96
								6-28	2400	2.46	92

(377) 01608000 SOUTH FORK SOUTH BRANCH POTOMAC FIVER NEAR MOOREFIELD, W. VA.

LOCATION.--Lat 39°00'44", long 78°57'23", Hardy County, on right bank 0.2 mile downstream from Stony Creek, 3.5 miles south of Moorefield, and at mile 6.0.

DRAINAGE AREA.--283 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 861.51 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,000 cfs and by slope-area measurement at 39,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,740 cfs 1000 hours June 22 (gage height, 7.28 ft). 1924, 1929-36, 1939 to May 1972: Discharge, 39,000 cfs June 18, 1949 (gage height, 16.1 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	182	673	11...	65	248	21...	780	143
2....	156	455	12...	61	207	22...	4,590	120
3....	133	332	13...	57	185	23...	3,540	115
4....	118	263	14...	61	182	24...	1,770	104
5....	106	535	15...	61	199	25...	965	90
6....	98	1,480	16...	74	176	26...	510	76
7....	90	882	17...	69	218	27...	359	71
8....	82	570	18...	67	214	28...	278	67
9....	74	409	19...	69	172	29...	550	69
10...	74	305	20...	65	152	30...	1,050	185
						31...		600
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							538	306
RUNOFF,IN INCHES.....							2.12	1.25

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	.68	3.6	11...	.08	.78	21...	31	.15
2....	.68	2.0	12...	.06	.60	22...	214	.08
3....	.29	1.5	13...	.04	.52	23...	232	.04
4....	.29	1.2	14...	.06	.44	24...	52	.03
5....	.60	7.8	15...	.04	.39	25...	17	.02
6....	.60	8.3	16...	.12	.44	26...	5.8	.02
7....	.44	3.8	17...	.68	.68	27...	2.9	.02
8....	.24	2.3	18...	.39	.39	28...	1.8	.02
9....	.18	1.5	19...	.24	.29	29...	3.6	.01
10...	.12	1.1	20...	.18	.21	30...	7.2	.01
						31...		.01
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							19	1.2
RUNOFF,IN INCHES.....							4.88	0.33

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.51	.18	6-22	0630	4.57	238	6-25	2400	2.26	11
6-21	1200	1.51	.18	6-22	1715	3.33	138				
6-21	1230	1.52	.21	6-22	2200	3.41	145				
6-21	1300	1.56	.39	6-22	2400	4.12	202	6-26	0015	2.26	7.7
6-21	1315	1.60	.68					6-26	0045	2.26	7.7
6-21	1345	1.63	.98					6-26	2300	2.13	4.5
6-21	1445	1.73	2.2	6-23	0630	6.22	364	6-26	2400	2.12	4.1
6-21	1615	1.85	4.6	6-23	1200	4.15	204				
6-21	1715	2.00	8.5	6-23	2230	3.14	123				
6-21	1800	2.15	16	6-23	2400	3.09	119	6-27	0015	2.12	3.3
6-21	1830	2.35	30					6-27	0415	2.12	3.3
6-21	1900	2.60	59					6-27	1630	2.07	2.5
6-21	2115	2.65	67	6-24	0015	3.08	100	6-27	2130	2.04	2.0
6-21	2130	2.70	74	6-24	0030	3.07	99	6-27	2400	2.03	1.7
6-21	2315	4.65	245	6-24	1545	2.60	38				
6-21	2400	6.25	366	6-24	2400	2.49	28				
								6-28	0030	2.02	2.1
								6-28	0430	2.02	2.1
6-22	0100	6.13	356	6-25	0030	2.49	25	6-28	1300	2.00	1.7
6-22	0145	7.15	438	6-25	0045	2.48	24	6-28	1815	2.00	1.7
6-22	0200	7.11	435	6-25	2130	2.27	11	6-28	2400	1.98	1.5

(381) 01608500 SOUTH BRANCH POTOMAC RIVER NEAR SPRINGFIELD, W. VA.

LOCATION.--Lat 39°26'49", long 78°39'16", Hampshire County, on left bank at highway bridge, 2.0 miles east of Springfield, and at mile 13.4.

DRAINAGE AREA.--1,471 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 562.02 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 18,000 cfs, by measurement at 25,600 cfs made about 10 miles upstream from station, adjusted for storage and inflow, and by slope-area measurement at 110,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 31,500 cfs 1600 hours June 23 (gage height, 17.67 ft). 1878, 1900-01, 1904-06, 1929 to May 1972: Discharge, 143,000 cfs Mar. 18, 1936 (gage height, 34.2 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,080	3,150	11...	419	1,590	21...	1,040	725
2....	921	2,280	12...	405	1,300	22...	18,100	760
3....	798	1,790	13...	387	1,120	23...	23,100	697
4....	719	1,440	14...	378	1,060	24...	12,100	627
5....	659	1,860	15...	397	1,050	25...	5,830	578
6....	600	7,440	16...	581	951	26...	3,660	515
7....	559	5,510	17...	676	933	27...	2,620	468
8....	520	3,810	18...	692	1,220	28...	2,010	456
9....	479	2,740	19...	671	972	29...	1,980	432
10...	445	2,040	20...	686	784	30...	3,840	468
						31...		1,940
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,880	1,640
RUNOFF,IN INCHES.....							2.18	1.28

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.43	641	6-23	1600	17.87	31,500	6-26	2400	4.65	3,040
6-21	1415	2.51	697	6-23	1730	17.81	31,200				
6-21	1800	2.84	966	6-23	2400	14.29	20,400				
6-21	2145	4.05	2,290					6-27	0030	4.64	3,030
6-21	2400	5.65	4,310					6-27	2400	4.02	2,250
				6-24	0015	14.13	19,900				
				6-24	1115	10.24	11,600				
6-22	0215	9.34	10,000	6-24	2400	7.94	7,650	6-28	0015	4.02	2,250
6-22	0715	13.92	19,400					6-28	2400	3.63	1,790
6-22	1230	14.80	21,700								
6-22	1945	14.05	19,700	6-25	0015	7.90	7,590				
6-22	2400	12.92	17,000	6-25	2400	5.80	4,520	6-29	1330	3.76	1,940
								6-29	2400	4.29	2,590
6-23	0715	13.41	18,200	6-26	0015	5.79	4,510				

(382) 01609000 TOWN CREEK NEAR OLDTOWN, MD.

LOCATION.--Lat 39°33'12", long 78°33'19", Allegany County, on left bank at downstream side of highway bridge, 2.0 miles upstream from Sawpit Run, 3.0 miles northeast of Oldtown, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--148 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 550 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 11,700 cfs 1515 hours June 22 (gage height, 14.13 ft). 1928-1936, 1968 to May 1972: Discharge, 27,000 cfs Mar. 17 or 18, 1936 (gage height, 19.08 ft, from floodmarks), from rating curve extended above 1,100 cfs on basis of contracted-opening measurement at 27,000 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	138	220	11...	48	74	21...	442	78
2....	92	167	12...	41	69	22...	8,140	52
3....	78	149	13...	40	63	23...	7,690	41
4....	74	133	14...	53	59	24...	3,620	36
5....	117	155	15...	55	57	25...	1,160	32
6....	79	192	16...	153	85	26...	701	29
7....	65	136	17...	218	67	27...	463	27
8....	56	109	18...	138	65	28...	334	26
9....	50	94	19...	133	57	29...	280	27
10...	48	83	20...	110	48	30...	295	27
						31...		27
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							830	80
RUNOFF,IN INCHES.....							6.26	0.62

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.86	98					6-25	2400	5.51	874
6-21	1115	2.99	118	6-23	0645	12.27	6,560				
6-21	1630	3.48	216	6-23	1500	13.42	9,380				
6-21	1815	4.07	376	6-23	1615	13.39	9,290	6-26	0015	5.48	862
6-21	2000	5.00	680	6-23	2230	12.83	7,740	6-26	2400	4.64	554
6-21	2400	9.01	2,660	6-23	2245	12.00	6,050				
				6-23	2300	12.00	6,050				
				6-23	2315	12.76	7,560	6-27	0015	4.64	554
6-22	0400	11.64	5,370	6-23	2400	12.65	7,310	6-27	2045	4.20	415
6-22	0845	13.33	9,120					6-27	2115	4.00	355
6-22	1330	13.87	10,800					6-27	2200	4.16	403
6-22	1515	14.13	11,700	6-24	0015	12.63	7,270	6-27	2400	4.12	391
6-22	1815	13.68	10,200	6-24	1215	9.00	2,650				
6-22	2145	12.83	7,740	6-24	2400	7.15	1,580				
6-22	2200	12.29	6,600					6-28	0030	4.12	391
6-22	2245	12.65	7,310					6-28	2400	3.78	290
6-22	2400	12.42	6,850	6-25	0015	7.11	1,560				
				6-25	2100	5.66	934				

(385) 01610000 POTOMAC RIVER AT PAW PAW, W. VA.

LOCATION.--Lat 39°32'13", long 78°27'28", Allegany County, Md., on left bank 250 ft upstream from bridge on Maryland State Highway 51 at Paw Paw, 3.3 miles downstream from Little Cacapon River, and at mile 277.

DRAINAGE AREA.--3,109 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 1 to 0900 hours June 26 and 2100 hours July 11 to 1200 hours July 22 when water-stage-recorder graph was used. Datum of gage is 487.88 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 64,500 cfs 2100 hours June 23 (gage height, 28.83 ft). 1936 to May 1972: Discharge, 240,000 cfs Mar. 18, 1936 (gage height, 54.0 ft), from rating curve extended above 85,000 cfs on basis of slope-area measurement of peak flow at site 5 miles upstream at Okonoko, W. Va.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,880	10,700	11...	1,120	3,730	21...	2,560	1,580
2....	2,440	7,100	12...	1,080	3,130	22...	39,700	1,520
3....	2,080	5,460	13...	1,020	2,770	23...	53,400	1,400
4....	1,890	4,530	14...	1,050	2,500	24...	38,800	1,240
5....	1,840	4,640	15...	1,060	2,420	25...	16,200	1,130
6....	1,600	11,400	16...	1,380	2,300	26...	9,920	1,020
7....	1,470	10,100	17...	1,780	2,050	27...	7,120	1,050
8....	1,380	7,140	18...	1,690	2,180	28...	5,310	1,150
9....	1,260	5,570	19...	1,800	2,140	29...	7,310	1,230
10...	1,180	4,480	20...	1,730	1,720	30...	16,300	1,220
						31...		1,770
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							7,610	3,560
RUNOFF,IN INCHES.....							2.73	1.32

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	5.16	1,700								
6-21	1200	5.09	1,640	6-24	0800	25.20	50,800	6-29	1315	8.04	4,990
6-21	1600	5.57	2,110	6-24	1600	19.68	32,100	6-29	1615	10.08	8,010
6-21	1800	6.04	2,600	6-24	2400	16.30	22,100	6-29	2145	13.01	13,800
6-21	2200	8.70	5,880					6-29	2400	13.32	14,600
6-21	2400	10.20	8,210								
				6-25	0800	14.52	17,500				
				6-25	2400	12.28	12,200	6-30	1200	14.31	17,000
6-22	0200	12.35	12,400					6-30	1445	14.25	16,800
6-22	0400	15.13	19,000					6-30	2400	13.04	13,900
6-22	0800	23.10	43,400	6-26	1200	11.20	10,000				
6-22	1200	25.73	52,800	6-26	2400	10.26	8,310				
6-22	1600	25.15	50,700					7-01	0015	13.00	13,800
6-22	2400	23.44	44,500					7-01	2400	10.35	8,470
				6-27	0015	10.22	8,240				
				6-27	2400	8.76	5,960				
6-23	0400	22.69	41,900								
6-23	0800	23.56	45,000					7-02	0015	10.33	8,430
6-23	1600	27.85	60,700					7-02	2400	8.83	6,060
6-23	2100	28.83	64,500	6-28	0015	8.75	5,950				
6-23	2400	28.72	64,000	6-28	2400	7.87	4,770				
								7-03	0015	8.81	6,030
								7-03	2400	8.00	4,940

(386) 01610105 PRATT HOLLOW TRIBUTARY AT PRATT, MD.

(Crest-stage station)

LOCATION.--Lat 39°41'35", long 78°30'18", at upstream side of culvert at U.S. Highway 40, 0.2 mile northeast of Pratt, Allegany County, and 3.4 miles east of Flintstone.

DRAINAGE AREA.--0.70 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 980 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 110 cfs June 22 (gage height, 12.84 ft). 1971 to May 1972: Discharge, about 40 cfs May 20, 1971 (gage height, 11.40 ft).

(383) 01609500 SAWPIT RUN NEAR OLDTOWN, MD.

(Crest-stage station; gaging station discontinued 1958)

LOCATION.--Lat 39°32'48", long 78°33'20", 900 ft upstream from bridge on State Highway 51, 3.0 miles east of Oldtown, Allegany County, and 12 miles southeast of Cumberland.

DRAINAGE AREA.--5.08 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Altitude of gage is 570 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 35 cfs and by slope-area measurement at 770 cfs.

MAXIMUMS.--June-July 1972: Discharge, about 600 cfs June 22 (gage height, 4.33 ft).
1948-58, 1963 to May 1972: Discharge, 770 cfs Oct. 15, 1954 (gage height, 4.72 ft).

(384) 01609800 LITTLE CACAPON RIVER NEAR LEVELS, W. VA.

LOCATION.--Lat 39°29'55", long 78°29'20", Hampshire County, on left bank just downstream from bridge on Secondary State Route 2, 3.2 miles northeast of Levels, and at mile 2.0.

DRAINAGE AREA.--108 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Altitude of gage is 540 ft (from topograpic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,800 cfs and by slope-area measurement at 5,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 10,500 cfs 0700 hours June 22 (gage height, 12.97 ft); 1,720 cfs 2330 hours June 29 (gage height, 6.90 ft).
1967 to May 1972: Discharge, 5,510 cfs Mar. 7, 1967 (gage height, 10.24 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	37	235	11...	9.6	57	21...	707	14
2....	28	135	12...	8.2	44	22...	4,890	12
3....	22	171	13...	8.6	39	23...	4,400	9.6
4....	26	110	14...	11	30	24...	1,120	8.4
5....	48	385	15...	13	46	25...	437	7.9
6....	26	434	16...	37	49	26...	230	6.9
7....	21	242	17...	55	52	27...	149	6.4
8....	16	155	18...	32	36	28...	105	6.3
9....	13	108	19...	32	29	29...	146	6.1
10...	11	76	20...	27	18	30...	596	6.1
						31...		6.3
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							442	82.0
RUNOFF, IN INCHES							4.57	.88

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.19	23	6-22	1900	7.92	2,630	6-24	2400	5.07	602
6-21	1000	2.29	32	6-22	2300	7.89	2,600				
6-21	1100	2.34	36	6-22	2400	8.17	2,870				
6-21	1200	2.58	60					6-25	0100	5.02	579
6-21	1400	3.17	169					6-25	2400	4.21	293
6-21	1500	3.54	267	6-23	1100	10.53	6,050				
6-21	1700	4.39	576	6-23	1200	10.54	6,060				
6-21	1900	6.39	1,670	6-23	1900	8.82	3,580	6-26	0100	4.18	284
6-21	2400	8.67	3,720	6-23	2400	7.40	2,160	6-26	2400	3.79	183
6-22	0500	10.43	5,890	6-24	0100	7.18	1,960	6-27	0100	3.78	181
6-22	0700	12.97	10,500	6-24	0900	6.15	1,180	6-27	2400	3.52	129
6-22	1300	9.92	5,090	6-24	2300	5.10	615				

(387) 01610155 SIDELING HILL CREEK NEAR BELLEGROVE, MD.

LOCATION.--Lat 39°38'58", long 78°20'40", Washington County, on left bank at Highway bridge on Pearre Road, 4 miles south of Bellegrove, and 1.2 miles upstream from mouth.

DRAINAGE AREA.--102 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 450 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 14,200 cfs 0915 hours June 22 (gage height, 12.44 ft).
1968 to May 1972: Discharge, 5,750 cfs Apr. 2, 1970 (gage height, 8.18 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	105	85	11...	30	43	21...	1,710	15
2....	69	68	12...	23	36	22...	9,200	14
3....	54	97	13...	20	32	23...	6,160	11
4....	44	90	14...	35	31	24...	1,850	8.4
5....	119	85	15...	35	25	25...	562	6.8
6....	80	118	16...	112	25	26...	288	5.5
7....	61	90	17...	252	23	27...	191	4.6
8....	46	72	18...	141	23	28...	137	4.2
9....	35	60	19...	104	22	29...	107	3.7
10...	32	50	20...	74	18	30...	112	3.7
						31...		3.7
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							726	38
RUNOFF, IN INCHES							7.94	0.43

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.83	66	6-22	1115	12.12	13,400				
6-21	0445	1.87	74	6-22	1315	11.16	11,100	6-25	0015	3.40	830
6-21	0715	1.96	94	6-22	1330	10.16	9,200	6-25	2345	2.67	372
6-21	0945	2.19	160	6-22	1400	10.81	10,400	6-25	2400	2.67	372
6-21	1315	2.78	436	6-22	2115	7.24	4,530				
6-21	1330	2.72	400	6-22	2400	6.74	3,930				
6-21	1445	3.21	697					6-26	0030	2.66	366
6-21	2045	7.55	4,920					6-26	2400	2.37	226
6-21	2400	9.36	7,720	6-23	0930	8.96	6,970				
				6-23	1430	9.47	7,920				
				6-23	1800	9.24	7,500	6-27	0045	2.37	226
6-22	0415	10.87	10,600	6-23	2400	6.82	4,020	6-27	2400	2.18	157
6-22	0430	9.89	8,690								
6-22	0515	10.91	10,600								
6-22	0530	10.16	9,200	6-24	0015	6.74	3,930	6-28	0045	2.19	160
6-22	0545	11.22	11,300	6-24	0645	5.14	2,240	6-28	0845	2.14	144
6-22	0730	11.36	11,600	6-24	1830	3.80	1,110	6-28	0900	2.06	120
6-22	0745	12.06	13,200	6-24	2400	3.43	851	6-28	0945	2.13	141
6-22	0915	12.44	14,200					6-28	2400	2.04	115

(388) 01610200 LOST RIVER AT MCCAULEY NEAR BAKER, W. VA.

LOCATION.--Lat 39°03'18", long 78°43'31", Hardy County, on left bank at McCauley, 1.4 miles upstream from Three Springs Run, and 1.7 miles east of Baker.

DRAINAGE AREA.--155 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0015 hours June 1 to 1815 hours July 5, 0800 hours July 9 to 1300 hours July 27. Altitude of gage is 1,260 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs and by slope-area measurement at 14,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 14,600 cfs time unknown June 23 (gage height, 11.58 ft, from floodmarks).
October 1971 to May 1972: Discharge, 4,070 cfs Feb. 26, 1972 (gage height, 7.04 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	50	450	11...	15	100	21...	800	65
2....	45	250	12...	15	90	22...	9,000	60
3....	35	450	13...	10	75	23...	12,000	50
4....	30	350	14...	15	70	24...	7,000	45
5....	40	300	15...	15	75	25...	800	40
6....	30	605	16...	15	80	26...	650	35
7....	25	362	17...	20	230	27...	500	35
8....	20	220	18...	15	170	28...	400	33
9....	15	170	19...	50	110	29...	250	30
10...	15	130	20...	40	80	30...	700	72
						31...		97
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,090	159
RUNOFF,IN INCHES							7.83	1.18

(389) 01610300 CACAPON RIVER ABOVE WARDENSVILLE, W. VA.

LOCATION.--Lat 39°04'44", long 78°37'11", Hardy County, on right bank 0.8 mile upstream from Trout Run and 1.2 miles west of Wardensville.

DRAINAGE AREA.--181 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2345 hours June 21 to 1000 hours July 1. Altitude of gage is 1,000 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 16,200 cfs time unknown June 23 (gage height, 11.15 ft, from floodmark).
October 1971 to May 1972: Discharge, 5,270 cfs Feb. 26, 1972 (gage height, 7.76 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	169	600	11...	32	185	21...	3,800	120
2....	117	385	12...	30	153	22...	10,000	96
3....	87	290	13...	29	147	23...	13,500	75
4....	68	213	14...	31	126	24...	8,000	66
5....	84	510	15...	35	135	25...	1,000	57
6....	62	726	16...	35	156	26...	700	53
7....	51	468	17...	41	438	27...	500	50
8....	44	698	18...	36	370	28...	350	50
9....	37	395	19...	185	206	29...	230	51
10...	35	250	20...	93	153	30...	700	62
						31...		156
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,340	240
RUNOFF,IN INCHES							8.24	1.53

(390) 01611150 TEARCOAT CREEK TRIBUTARY NEAR AUGUSTA, W. VA.

(Crest-stage station)

LOCATION.--Lat 39°12'40", long 78°41'07", Hampshire County, at culvert at intersection of State Routes 7 and 7/9, 0.1 mile upstream from mouth, and 6.0 miles southwest of Augusta.

DRAINAGE AREA.--2.65 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,400 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 160 cfs June 22 (gage height, 4.50 ft).
1965 to May 1972: Gage height, less than 3.96 ft.

(391) 01611500 CACAPON RIVER NEAR GREAT CACAPON, W. VA.

LOCATION.--Lat 39°34'43", long 78°18'34", Morgan County, on left bank at Rock Ford, 3.0 miles southwest of Great Cacapon, and at mile 6.5.

DRAINAGE AREA.--677 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 456.78 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 52,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 45,500 cfs 2300 hours June 22 (gage height, 22.17 ft); 4,660 cfs 1300 hours June 30 (gage height, 7.65 ft).
1889, 1923 to May 1972: Discharge, 87,600 cfs Mar. 18, 1936 (gage height, 30.1 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0015	4.10	2,050	6-24	0445	29.77	104,000	6-29	0015	7.05	6,950
6-20	1330	4.28	2,280	6-24	1645	26.70	84,600	6-29	2400	6.73	6,320
6-20	2400	4.17	2,140	6-24	2400	19.49	47,500				
								6-30	0200	7.57	8,020
6-21	1300	4.45	2,510	6-25	0015	19.29	46,600	6-30	0400	9.03	11,300
6-21	1945	5.05	3,380	6-25	1100	14.62	28,000	6-30	0800	10.37	15,000
6-21	2000	6.26	5,420	6-25	2400	12.16	19,700	6-30	1200	11.31	17,200
6-21	2130	7.34	7,530					6-30	2015	12.54	20,900
6-21	2300	9.70	13,000					6-30	2400	12.42	20,600
6-21	2400	10.70	15,600	6-26	0015	12.12	19,600				
				6-26	2400	9.62	12,800				
								7-01	1200	10.90	16,100
6-22	0630	18.50	43,200					7-01	2400	9.52	12,600
6-22	1700	28.92	98,700	6-27	0015	9.60	12,800				
6-22	2400	30.31	108,000	6-27	2400	8.16	9,300				
								7-02	1200	8.57	10,200
								7-02	2400	7.86	8,600
6-23	0800	30.79	112,000	6-28	0015	8.14	9,260				
6-23	2400	29.72	104,000	6-28	2400	7.06	6,970				
								7-03	1200	7.41	7,680
								7-03	2400	7.20	7,250

(393) 01613050 TONOLOWAY CREEK NEAR NEEDMORE, PA.

LOCATION.--Lat 39°53'54", long 78°07'57", Fulton County, on left bank 10 ft downstream from bridge on Legislative Route 29015, 0.2 mile upstream from Foster Creek, and 3.5 miles north of Needmore.

DRAINAGE AREA.--10.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15- minute intervals except June 1-15, 18; July 12-18. Datum of gage is 688.94 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 550 cfs and by contracted-opening measurement at 1,300 cfs. Record for periods of missing gage-height record estimated on basis of two discharge measurements, weather records, and correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 1,300 cfs 0445 hours June 22 (gage height, 9.17 ft).
1963 to May 1972: Discharge, 685 cfs Nov. 12, 1970 (gage height, 6.81 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	30	17	11...	5.0	9.6	21...	418	2.8
2....	16	29	12...	4.3	8.0	22...	868	2.6
3....	14	33	13...	3.8	6.8	23...	588	2.6
4....	19	22	14...	3.8	6.0	24...	194	2.1
5....	30	29	15...	4.4	5.4	25...	91	1.8
6....	17	26	16...	7.6	5.0	26...	53	1.7
7....	12	22	17...	8.0	5.2	27...	36	1.8
8....	9.0	18	18...	12	5.2	28...	27	2.0
9....	7.0	14	19...	18	4.0	29...	27	1.7
10...	6.0	12	20...	14	3.1	30...	24	1.5
						31...		1.8
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							86	9.8
RUNOFF,IN INCHES							8.92	1.05

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.19	13	6-22	0615	9.07	1,270	6-24	0015	5.14	310
6-21	0600	3.24	17	6-22	1515	6.53	616	6-24	1530	4.32	155
6-21	0730	3.33	25	6-22	2245	6.51	611	6-24	2400	4.10	119
6-21	1045	3.84	82	6-22	2400	6.71	658				
6-21	1100	5.04	290								
6-21	1245	6.64	642					6-25	0045	4.09	118
6-21	1400	7.67	893	6-23	0615	7.17	769	6-25	2400	3.74	69
6-21	1845	7.03	735	6-23	0930	6.99	726				
6-21	2400	7.97	968	6-23	2230	5.27	337				
				6-23	2400	5.15	312	6-26	0115	3.73	68
								6-26	2400	3.51	42
6-22	0445	9.17	1,300								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	746	3,000	11...	264	824	21...	959	529
2....	783	1,880	12...	244	676	22...	26,700	440
3....	565	1,630	13...	239	588	23...	30,500	374
4....	474	1,270	14...	247	568	24...	24,400	325
5....	478	1,150	15...	238	598	25...	4,760	291
6....	459	2,660	16...	266	797	26...	2,880	264
7....	358	2,150	17...	296	753	27...	2,100	244
8....	347	1,520	18...	264	1,000	28...	1,600	232
9....	314	1,520	19...	260	1,130	29...	1,300	233
10...	288	1,090	20...	246	703	30...	3,130	238
						31...		250
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,520	936
RUNOFF,IN INCHES.....							5.81	1.59

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0200	1.69	256								
6-20	2300	1.69	256								
6-20	2400	1.84	299	6-23	0100	21.96	44,500	6-26	0100	6.72	3,470
				6-23	1300	15.83	22,500	6-26	2400	5.58	2,410
				6-23	2400	18.46	31,000				
6-21	0600	2.29	460								
6-21	1400	2.73	656					6-27	0100	5.53	2,370
6-21	1900	3.77	1,240	6-24	0700	19.61	35,200	6-27	2400	4.73	1,820
6-21	2400	6.83	3,580	6-24	1100	18.89	32,500				
				6-24	1800	11.55	11,700				
				6-24	2400	9.45	7,610	6-28	0100	4.70	1,800
6-22	0200	8.36	5,730					6-28	2400	4.05	1,410
6-22	0500	11.78	12,100								
6-22	1000	16.12	23,400	6-25	0100	9.25	7,250				
6-22	2300	22.17	45,500	6-25	1700	7.29	4,160	6-29	0100	4.04	1,400
6-22	2400	22.15	45,400	6-25	2400	6.78	3,530	6-29	2400	3.78	1,250

(392) 01613000 POTOMAC RIVER AT HANCOCK, MD.

LOCATION.--Lat 39°41'49", long 78°10'39", Washington County, on left bank 0.2 mile downstream from Little Tonoloway Creek, 0.5 mile downstream from bridge on U. S. Highway 522 at Hancock, 1.1 miles upstream from Tonoloway Creek (formerly called Great or Big Tonoloway Creek), and at mile 239.

DRAINAGE AREA.--4,073 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 383.46 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 112,000 cfs 0800 hours June 23 (gage height, 30.79 ft). 1889 to May 1972: Discharge, 340,000 cfs Mar. 18, 1936 (gage height, 47.6 ft), from rating curve extended above 120,000 cfs on basis of slope-area measurement of peak flow.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,610	16,300	11...	1,500	4,670	21...	3,740	2,240
2....	3,670	10,400	12...	1,410	4,130	22...	71,000	2,050
3....	2,990	7,830	13...	1,360	3,570	23...	108,000	1,910
4....	2,630	6,410	14...	1,360	3,220	24...	89,800	1,730
5....	2,610	5,590	15...	1,360	3,160	25...	28,900	1,530
6....	2,440	10,500	16...	1,470	3,210	26...	15,800	1,390
7....	2,130	14,000	17...	2,160	2,970	27...	10,900	1,260
8....	1,920	9,710	18...	2,310	2,650	28...	8,010	1,290
9....	1,770	7,790	19...	2,130	3,400	29...	6,380	1,390
10...	1,630	6,150	20...	2,210	2,720	30...	16,500	1,460
						31...		1,490
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							13,400	4,730
RUNOFF,IN INCHES.....							3.67	1.34

(394) 01613150 DITCH RUN NEAR HANCOCK, MD.

(Crest-stage station)

LOCATION.--Lat 39°41'32", long 78°07'56", at upstream side of culvert at U.S. Highway 40, 2.1 miles south of the Mason-Dixon Line, and 2.7 miles east of Hancock, Washington County.

DRAINAGE AREA.--4.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 410 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert and by slope-area measurement of maximum flow.

MAXIMUMS.--June-July 1972: Discharge, 555 cfs June 22 (gage height, 9.07 ft, from floodmarks). 1965 to May 1972: Discharge, 400 cfs Nov. 13, 1970 (gage height, 7.69 ft).

(395) 01613160 POTOMAC RIVER TRIBUTARY NEAR HANCOCK, MD.

(Crest-stage station)

LOCATION.--Lat 39°41'29", long 78°07'37", at upstream side of culvert at State Highway 615, 2.1 miles south of the Mason-Dixon Line, and 3.0 miles east of Hancock, Washington County.

DRAINAGE AREA.--1.2 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 430 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurement at 5 cfs and by slope-area measurement of maximum flow.

MAXIMUMS.--June-July 1972: Discharge, 174 cfs June 22 (gage height, 5.10 ft from floodmarks). 1965 to May 1972: Discharge, about 140 cfs March 5, 1965 (gage height, 4.75 ft, from floodmarks.

(396) 01613900 HOGUE CREEK NEAR HAYFIELD, VA.

LOCATION.--Lat 39°12'52", long 78°17'18", Frederick County, on right bank 15 ft upstream from bridge on State Highway 614, 0.8 mile upstream from Gap Run, and 1.3 miles southeast of Hayfield.

DRAINAGE AREA.--15.0 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 668.60 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 870 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,760 cfs 0300 hours June 22 (gage height, 8.85 ft). 1961 to May 1972: Discharge, 1,950 cfs July 9, 1970 (gage height, 7.43 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	30	37	11...	6.6	6.6	21...	584	5.4
2....	18	25	12...	6.6	6.1	22...	996	4.8
3....	15	20	13...	7.6	6.3	23...	554	4.3
4....	17	14	14...	9.4	5.5	24...	162	3.7
5....	28	25	15...	8.0	5.4	25...	74	3.3
6....	17	21	16...	8.0	5.2	26...	42	3.2
7....	14	15	17...	6.2	5.9	27...	24	3.3
8....	11	12	18...	5.9	8.8	28...	15	3.7
9....	9.4	9.4	19...	4.9	7.4	29...	57	3.6
10...	8.4	7.7	20...	5.6	6.1	30...	80	3.8
						31...		4.0
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							94	9.4
RUNOFF,IN INCHES.....							7.00	0.73

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.53	12	6-22	0100	8.49	2,520	6-22	2400	4.16	442
				6-22	0200	8.77	2,760				
				6-22	0300	8.85	2,760				
6-21	0200	1.92	39	6-22	0400	8.34	2,360	6-23	0300	5.00	660
6-21	0400	1.84	33	6-22	0500	7.72	1,880	6-23	0600	5.44	780
6-21	0600	1.79	29	6-22	0600	7.00	1,460	6-23	0900	5.47	810
6-21	0800	1.74	26	6-22	0700	6.51	1,210	6-23	1200	4.64	568
6-21	1000	1.73	25	6-22	0800	6.09	1,040	6-23	1500	4.14	442
6-21	1200	2.07	54	6-22	0900	5.66	880	6-23	1800	3.73	350
6-21	1400	4.30	480	6-22	1000	5.31	750	6-23	2100	3.44	290
6-21	1600	5.76	920	6-22	1100	5.00	660	6-23	2400	3.24	250
6-21	1800	6.49	1,210	6-22	1200	4.76	592				
6-21	2000	6.95	1,460	6-22	1400	4.34	492				
6-21	2200	7.56	1,820	6-22	1600	4.02	405	6-24	0600	2.97	194
6-21	2400	8.13	2,200	6-22	1800	3.79	360	6-24	1200	2.74	153
				6-22	2000	3.71	340	6-24	1800	2.57	124
				6-22	2200	3.89	380	6-24	2400	2.46	106

(397) 01614000 BACK CREEK NEAR JONES SPRINGS, W. VA.

LOCATION.--Lat 39°30'43", long 78°02'15", Berkeley County, on left bank at downstream side of highway bridge, 1.3 miles southeast of Tomahawk, 3.5 miles northeast of village of Jones Springs, 9.0 miles upstream from Tilhance Creek, and at mile 11.6.

DRAINAGE AREA.--243 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 416.42 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,200 cfs and extended above on basis of current-meter measurement of 14,500 cfs made at Hedgesville.

MAXIMUMS.--June-July 1972: Discharge, 18,700 cfs 1800 hours June 22 (gage height, 23.15 ft). 1929-31, 1936, 1939 to May 1972: Discharge, 22,400 cfs Oct. 15, 1942 (gage height, 25.17 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	562	429	11...	73	153	21...	678	94
2....	300	296	12...	66	128	22...	11,200	80
3....	195	363	13...	63	116	23...	9,050	73
4....	148	275	14...	78	114	24...	5,250	67
5....	286	366	15...	82	126	25...	1,290	61
6....	216	610	16...	112	104	26...	726	55
7....	150	412	17...	148	100	27...	494	52
8....	120	300	18...	96	244	28...	359	50
9....	98	228	19...	82	163	29...	307	50
10...	83	183	20...	72	114	30...	630	50
						31...		54
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,100	178
RUNOFF, IN INCHES							5.05	0.84

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.19	72	6-23	0030	19.89	14,000				
6-21	0530	2.32	94	6-23	1000	14.90	7,940	6-26	0030	4.67	932
6-21	0730	2.62	160	6-23	2000	14.93	7,970	6-26	2400	3.86	594
6-21	0800	2.80	210	6-23	2400	15.45	8,550				
6-21	1030	3.89	606								
6-21	1600	4.29	766					6-27	0030	3.85	590
6-21	2030	5.84	1,460	6-24	0100	15.47	8,570	6-27	2400	3.41	419
6-21	2400	8.83	2,910	6-24	1030	12.76	5,780				
				6-24	1730	8.36	2,650				
				6-24	2400	6.79	1,890	6-28	0030	3.40	415
6-22	0800	15.40	8,490					6-28	2400	3.11	314
6-22	1730	23.15	18,700								
6-22	1800	23.15	18,700	6-25	0030	6.70	1,850				
6-22	2400	20.25	14,500	6-25	2000	4.93	1,050	6-29	2400	3.15	328
				6-25	2400	4.69	941				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,630	1,670	11...	437	864	21...	1,590	600
2....	1,050	1,400	12...	410	785	22...	11,100	543
3....	907	1,270	13...	405	723	23...	26,700	506
4....	847	1,290	14...	452	684	24...	22,100	472
5....	741	1,510	15...	432	676	25...	9,970	450
6....	651	1,600	16...	439	853	26...	4,590	419
7....	594	1,300	17...	631	1,250	27...	3,060	400
8....	533	1,110	18...	468	998	28...	2,330	398
9....	489	1,000	19...	636	768	29...	2,050	391
10...	465	906	20...	596	667	30...	2,050	373
						31...		372
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							3,280	847
RUNOFF, IN INCHES							7.40	1.98

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.57	507	6-23	0800	19.4	23,800	6-25	1200	11.2	9,350
				6-23	1200	22.4	28,800	6-25	1800	9.7	7,090
				6-23	1600	24.4	32,200	6-25	2400	9.0	6,110
6-21	0600	2.61	527	6-23	1700	24.5	32,400				
6-21	1000	2.97	724	6-23	1800	24.4	32,200				
6-21	1200	3.57	1,100	6-23	2400	22.6	29,200	6-26	1200	7.7	4,490
6-21	2000	6.08	3,000					6-26	2400	6.75	3,600
6-21	2400	8.11	4,940								
				6-24	0600	20.0	24,800				
				6-24	1200	18.3	22,000	6-27	1200	6.13	3,050
6-22	0800	11.47	9,800	6-24	1800	16.5	18,900	6-27	2400	5.62	2,630
6-22	1600	13.37	13,300	6-24	2400	14.8	16,000				
6-22	2400	14.96	16,200								
								6-28	2400	4.95	2,090
				6-25	0600	13.0	12,600				

(400) 01614700 CONOCOCHEAGUE CREEK TRIBUTARY AT KEMPS, MD.

(Crest-stage station)

LOCATION.--Lat 39°37'22", long 77°48'43", at upstream side of culvert at State Highway 63, 0.7 mile north of Kemps, Washington County, and 1.6 miles north of Williamsport.

DRAINAGE AREA.--1.1 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 380 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 26 cfs.

MAXIMUMS.--June-July 1972: Discharge, 43 cfs June 22 (gage height, 3.55 ft). 1968 to May 1972: Discharge, about 100 cfs July 9, 1970 (gage height, 3.81 ft).

(401) 01615000 OPEQUON CREEK NEAR BERRYVILLE, VA.

LOCATION.--Lat 39°10'40", long 78°04'20", Frederick County, on left bank 35 ft downstream from bridge on State Highway 7, 0.2 mile upstream from Abrams Creek, and 5.0 miles west of Berryville.

DRAINAGE AREA.--57.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 503.24 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,800 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 9,870 cfs 0630 hours June 22 (gage height, 12.59 ft). 1944 to May 1972: Discharge, 10,600 cfs Nov. 13, 1970 (gage height, 12.82 ft). Flood in October 1942 reached a stage of 18.4 ft, from information by local residents.

(398) 01614090 CONOCOCHEAGUE CREEK NEAR FAYETTEVILLE, PA.

LOCATION.--Lat 39°55'48", long 77°26'23", Adams County, on right bank 20 ft downstream from bridge on Stage Highway 233, 0.3 mile upstream from Birch Run, 1.3 miles upstream from Chambersburg Reservoir Dam, 4 miles northeast of Fayetteville, and 12 miles east of Chambersburg.

DRAINAGE AREA.--5.05 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,132.76 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 75 cfs and by contracted-opening measurement and computation of flow over road at 392 cfs.

MAXIMUMS.--June-July 1972: Discharge, 392 cfs 1415 hours June 22 (gage height, 3.45 ft).
1961 to May 1972: Discharge, 114 cfs Apr. 16, 1961 (gage height, 2.80 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	8.5	22	11...	3.4	13	21...	35	5.6
2....	7.7	19	12...	3.1	11	22...	298	5.3
3....	7.3	18	13...	3.3	10	23...	306	4.8
4....	6.2	16	14...	3.9	9.3	24...	142	4.6
5....	5.6	22	15...	3.0	8.5	25...	78	4.3
6....	5.3	17	16...	2.7	8.1	26...	52	4.1
7....	4.8	14	17...	2.5	7.7	27...	36	4.1
8....	4.3	13	18...	8.1	7.3	28...	28	4.1
9....	3.9	12	19...	8.1	6.5	29...	35	3.9
10...	3.6	13	20...	4.1	5.9	30...	32	3.7
						31...		4.3
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							38	9.8
RUNOFF,IN INCHES.....							8.41	2.22

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.59	8.0	6-22	0930	3.31	290	6-24	0115	3.16	215
6-21	0345	1.66	11	6-22	1415	3.45	392	6-24	1615	2.78	117
6-21	0815	1.94	25	6-22	1630	3.43	375	6-24	2400	2.63	96
6-21	1215	2.12	39	6-22	2400	3.40	350				
6-21	1500	2.22	47								
6-21	1915	2.16	42					6-25	0045	2.63	96
6-21	2215	2.42	66	6-23	0030	3.41	358	6-25	2400	2.33	62
6-21	2400	2.68	96	6-23	1900	3.26	262				
				6-23	2400	3.17	219				
								6-26	0015	2.33	62
6-22	0445	3.18	223					6-26	2400	2.11	42

(399) 01614500 CONOCOCHEAGUE CREEK AT FAIRVIEW, MD.

LOCATION.--Lat 39°42'57", long 77°49'28", Washington County, on right bank 0.7 mile upstream from highway bridge in Fairview, 2 miles upstream from Rockdale Run, 6.5 miles northwest of Hagerstown, and 19.1 miles (revised) upstream from mouth.

DRAINAGE AREA.--494 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0400 hours June 23, when recorder was overtopped, to 1400 hours June 26, for which graph was reconstructed on basis of floodmarks and shape of graph for Antietam Creek near Sharpsburg, Md. Datum of gage is 391.77 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 15,000 cfs and by contracted-opening and flow-over-road measurement at 32,400 cfs. Discharge June 23-26 computed on basis of reconstructed graph, weather records, and records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 32,400 cfs about 1700 hours June 23 (gage height, 24.5 ft, from floodmark).
1889 to May 1972: Discharge, about 22,000 cfs sometime in 1889 (gage height, about 16.5 ft, from information by local residents).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	55	169	11...	18	45	21...	676	33
2....	31	196	12...	17	41	22...	4,670	30
3....	25	287	13...	18	44	23...	2,000	28
4....	24	107	14...	21	48	24...	402	26
5....	74	207	15...	19	69	25...	155	26
6....	33	168	16...	19	56	26...	101	24
7....	27	93	17...	22	86	27...	78	24
8....	23	69	18...	19	68	28...	64	26
9....	21	59	19...	18	46	29...	751	24
10...	19	50	20...	19	36	30...	996	25
						31...		28
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							347	72
RUNOFF,IN INCHES.....							6.75	1.45

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.76	17					6-24	0030	5.20	820
6-20	1300	1.76	17					6-24	0600	4.11	483
6-20	1600	1.81	21	6-22	0500	11.99	8,080	6-24	2130	2.97	220
6-20	2100	1.82	22	6-22	0630	12.59	9,870	6-24	2400	2.88	203
6-20	2200	1.80	20	6-22	0730	12.49	9,570				
6-20	2400	1.78	19	6-22	1430	9.60	3,730				
				6-22	2130	5.57	950	6-25	0030	2.88	203
				6-22	2400	4.94	732	6-25	2400	2.36	116
6-21	0300	1.87	26								
6-21	0330	1.90	29								
6-21	0400	2.09	49	6-23	0330	6.16	1,160	6-26	0130	2.35	115
6-21	0600	3.05	220	6-23	1130	8.85	2,970	6-26	2400	2.14	87
6-21	1100	3.15	240	6-23	1230	8.90	3,010				
6-21	1300	2.96	202	6-23	1800	8.10	2,330				
6-21	1430	3.21	253	6-23	2330	5.59	957	6-27	0100	2.13	86
6-21	1530	4.02	456	6-23	2400	5.38	883	6-27	2400	1.99	69
6-21	2230	8.15	2,370								
6-21	2400	9.00	3,100								

(402) 01616500 OPEQUON CREEK NEAR MARTINSBURG, W. VA.

LOCATION.--Lat 39°25'25", long 77°56'20", Berkeley County, on right bank 300 ft upstream from Evans Run, 2.3 miles upstream from Tuscarora Creek, 3.0 miles southeast of Martinsburg, and at mile 11.1.

DRAINAGE AREA.--272 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 2200 hours July 23 to 1000 hours July 25. Datum of gage is 354.89 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 19,000 cfs 1900 hours June 22 (gage height, 17.45 ft); 6,280 cfs 1500 hours June 30 (gage height, 12.71 ft).
1906, 1948 to May 1972: Discharge, 14,000 cfs Nov. 13, 1970 (gage height, 15.81 ft).
Flood in March 1936 reached a stage of about 17.5 ft, from information by local residents.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	445	1,420	11...	201	363	21...	520	253
2....	312	778	12...	198	335	22...	8,890	235
3....	272	1,150	13...	199	328	23...	8,410	220
4....	252	736	14...	226	308	24...	4,500	270
5....	340	763	15...	209	423	25...	1,310	240
6....	292	949	16...	205	333	26...	925	233
7....	258	655	17...	240	393	27...	751	223
8....	236	550	18...	203	560	28...	633	228
9....	220	485	19...	196	358	29...	748	223
10...	212	395	20...	193	283	30...	4,090	220
						31...		223
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,190	456
RUNOFF,IN INCHES.....							4.88	1.93

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.77	196	6-23	0100	15.47	13,000	6-26	0100	6.00	1,030
6-21	0700	2.93	226	6-23	0700	13.82	8,600	6-26	2400	5.30	820
6-21	1300	3.66	380	6-23	2100	13.27	7,390				
6-21	1700	5.19	787	6-23	2400	13.29	7,440				
6-21	2100	5.68	934					6-27	0100	5.28	814
6-21	2300	7.22	1,440					6-27	2400	4.82	676
6-21	2400	8.48	1,890	6-24	0100	13.27	7,390				
				6-24	1600	11.22	3,910				
				6-24	2300	8.76	2,000	6-28	0100	4.81	673
6-22	0600	11.40	4,160	6-24	2400	8.47	1,890	6-28	2400	4.51	593
6-22	1200	13.97	8,930								
6-22	1700	17.28	18,400								
6-22	1900	17.45	19,000	6-25	0100	8.23	1,790	6-29	1100	4.65	628
6-22	2300	16.25	15,400	6-25	1500	6.56	1,210	6-29	2300	6.79	1,290
6-22	2400	15.85	14,200	6-25	2400	6.04	1,040	6-29	2400	7.49	1,530

(403) 01617000 TUSCARORA CREEK ABOVE MARTINSBURG, W. VA.

LOCATION.--Lat 39°28'10", long 77°58'18", Berkeley County, on left bank at Martinsburg, 20 ft upstream from culvert on Secondary State Route 10, and at mile 3.7.

DRAINAGE AREA.--11.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 450 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 60 cfs and by slope-area measurement at 450 cfs.

MAXIMUMS.--June-July 1972: Discharge, 450 cfs 1015 hours June 23 (gage height, 11.20 ft). 1949-63, 1968 to May 1972: Discharge, 308 cfs Feb. 13, 1971 (gage height, 10.52 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	35	38	11...	19	27	21...	48	22
2...	26	36	12...	19	27	22...	262	22
3...	24	36	13...	19	26	23...	317	21
4...	24	33	14...	19	34	24...	125	21
5...	25	53	15...	19	33	25...	75	20
6...	23	37	16...	19	27	26...	59	18
7...	22	33	17...	19	25	27...	49	19
8...	21	32	18...	18	24	28...	43	18
9...	20	30	19...	17	23	29...	52	18
10...	20	28	20...	17	23	30...	45	18
						31...		18
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							50	27
RUNOFF,IN INCHES							4.94	2.76

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	7.59	16	6-21	2200	9.05	125	6-24	2400	8.69	89
6-20	1345	7.63	18	6-21	2400	9.64	195				
6-20	1430	7.60	16								
6-20	1600	7.62	17					6-25	0030	8.69	89
6-20	1630	7.68	20	6-22	0545	11.01	412	6-25	2400	8.40	65
6-20	1800	7.63	18	6-22	1330	10.29	289				
6-20	1845	7.62	17	6-22	1845	9.32	156				
6-20	1915	7.56	14	6-22	2230	9.29	153	6-26	0115	8.39	64
6-20	2400	7.62	17	6-22	2400	9.57	186	6-26	2400	8.23	53
6-21	0215	7.68	20	6-23	1015	11.20	450	6-27	0300	8.23	53
6-21	0445	7.76	24	6-23	2330	9.65	196	6-27	2400	8.10	44
6-21	0730	7.91	33	6-23	2400	9.61	191				
6-21	0845	8.12	45								
6-21	1430	7.83	28					6-28	0515	8.11	45
6-21	1730	7.86	30	6-24	0015	9.51	179	6-28	2400	8.05	41
6-21	1915	8.13	46	6-24	1715	8.84	104				

(406) 01618000 POTOMAC RIVER AT SHEPHERDSTOWN, W. VA.

LOCATION.--Lat 39°26'04", long 77°48'07", Jefferson County, on right bank 0.1 mile downstream from Rumsey Bridge at Shepherdstown, 3.3 miles upstream from Antietam Creek, and at mile 184.

DRAINAGE AREA.--5,936 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except July 21-31. Datum of gage is 281.00 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements. Discharge July 21-31 estimated on basis of records for upstream stations.

MAXIMUMS.--June-July 1972: Discharge, 187,000 cfs 2330 hours June 23 (gage height, 31.58 ft). 1889 to May 1972: Discharge, 335,000 cfs Mar. 19, 1936 (gage height, 42.1 ft, from floodmarks), from rating curve extended above 200,000 cfs on basis of slope-area measurement at 335,000 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	7,750	27,400	11...	2,890	8,110	21...	4,600	4,800
2...	7,080	17,800	12...	2,710	6,920	22...	67,600	4,300
3...	5,840	13,400	13...	2,640	6,080	23...	171,000	3,800
4...	5,040	11,400	14...	2,690	5,380	24...	172,000	3,400
5...	5,040	9,750	15...	2,730	5,120	25...	82,000	3,100
6...	4,930	11,600	16...	2,830	5,150	26...	33,500	2,900
7...	4,220	18,800	17...	3,630	5,450	27...	21,600	2,700
8...	3,850	15,800	18...	4,270	5,790	28...	15,600	2,500
9...	3,370	11,900	19...	4,040	5,920	29...	12,100	2,700
10...	3,120	9,950	20...	3,890	5,740	30...	15,300	2,800
						31...		2,900
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							22,600	7,850
RUNOFF,IN INCHES							4.25	1.52

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.32	3,950	6-23	2400	31.48	186,000				
6-21	1700	3.51	4,420					6-26	0015	13.12	43,200
6-21	2300	4.60	7,440					6-26	2400	9.58	26,300
6-21	2400	4.95	8,520	6-24	0100	31.54	187,000				
				6-24	2400	27.34	143,000				
								6-27	0015	9.50	25,900
6-22	0415	8.19	20,300					6-27	2400	7.65	18,200
6-22	2400	26.31	134,000	6-25	0015	26.91	139,000				
				6-25	1615	15.91	58,300				
				6-25	2400	13.30	44,100	6-28	0015	7.59	17,900
6-23	2330	31.58	187,000					6-28	2400	6.45	13,600

(407) 01619000 ANTIETAM CREEK NEAR WAYNESBORO, PA.

LOCATION.--Lat 39°42'59", long 77°36'28", Washington County, Md., on right bank 100 ft upstream from highway bridge at Rocky Forge, 0.4 mile downstream from Pennsylvania-Maryland State line, 0.7 mile downstream from confluence of west and east branches, 1.9 miles northeast of Leitersburg, Md., 2.5 miles southwest of Waynesboro, Pa., and 36.6 miles upstream from mouth.

DRAINAGE AREA.--93.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 550.64 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,700 cfs and extended by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 5,430 cfs 2115 hours June 22 (gage height, 12.33 ft). 1949-1951, 1966 to May 1972: Discharge, 2,040 cfs July 29, 1970 (gage height, 7.87 ft); maximum gage height, 8.55 ft Nov. 25, 1950.

(404) TUSCARORA CREEK NEAR MOUTH, BELOW MARTINSBURG, W. VA.

(Miscellaneous site)

LOCATION.--Lat 39°27'06", long 77°56'44", Berkeley County, 200 ft downstream from Baltimore & Ohio Railroad bridge, 1.0 mile east of Martinsburg, and at mile 1.5.

DRAINAGE AREA.--25.0 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUMS.--June-July 1972: Discharge, 900 cfs June 23.

(405) 01617800 MARSH RUN AT GRIMES, MD.

LOCATION.--Lat 39°30'53", long 77°46'38", Washington County, on right bank 220 ft upstream from bridge on Sprecher Road, 0.1 mile downstream from unnamed tributary, 0.5 mile southwest of Grimes, 1.5 miles upstream from mouth, and 2.2 miles southwest of Fairplay.

DRAINAGE AREA.--18.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 360 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)
June to July 1972:		
June 22, 0800 hours	268	3.44
June 23, 1030 hours	258	3.39
1964 to May 1972:		
Feb. 13, 1971	146	2.74

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	30	48	11...	20	31	21...	52	24
2....	24	45	12...	19	30	22...	180	25
3....	23	55	13...	20	32	23...	223	25
4....	40	51	14...	21	33	24...	131	23
5....	41	61	15...	19	29	25...	87	22
6....	27	48	16...	20	34	26...	72	21
7....	24	41	17...	20	36	27...	63	20
8....	22	39	18...	19	30	28...	58	20
9....	21	36	19...	19	26	29...	57	20
10...	20	33	20...	19	25	30...	56	20
						31...		21
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							48	32
RUNOFF,IN INCHES.....							2.85	1.98

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.36	18					6-30	2400	1.76	50
6-20	2145	1.40	20	6-24	0015	2.96	184				
6-20	2400	1.43	22	6-24	1800	2.33	106				
				6-24	2400	2.23	96	7-01	0630	1.77	51
								7-01	2400	1.71	45
6-21	1130	1.45	24								
6-21	1215	1.58	34	6-25	0045	2.23	96				
6-21	1315	1.72	46	6-25	2400	2.05	78	7-02	2200	1.73	47
6-21	1700	1.79	53					7-02	2400	1.75	49
6-21	1900	1.78	52								
6-21	2045	2.34	107	6-26	0200	2.05	78				
6-21	2115	2.60	135	6-26	2400	1.93	66	7-03	1500	1.76	50
6-21	2400	2.95	183					7-03	1845	2.03	76
								7-03	2400	1.90	63
				6-27	0445	1.93	66				
6-22	0430	2.81	162	6-27	2400	1.85	59				
6-22	0800	3.44	268					7-04	0130	1.89	62
6-22	1130	3.11	207					7-04	2400	1.68	42
6-22	1945	2.68	145	6-28	1145	1.86	59				
6-22	2400	2.82	164	6-28	2400	1.82	56				
								7-05	0645	1.76	50
								7-05	1030	2.07	80
6-23	**0600**	**3.20**	**222**	6-29	2400	1.88	61	7-05	1115	2.08	81
6-23	**1030**	**3.39**	**258**					7-05	2400	1.82	56
6-23	2400	2.97	186								
				6-30	0100	1.88	61				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	151	336	11...	96	200	21...	300	131
2....	133	295	12...	94	181	22...	3,060	125
3....	127	295	13...	101	174	23...	3,590	119
4....	130	281	14...	119	174	24...	1,640	116
5....	145	373	15...	98	160	25...	980	110
6....	116	318	16...	103	167	26...	673	108
7....	114	258	17...	98	153	27...	525	106
8....	106	224	18...	92	150	28...	442	106
9....	103	212	19...	98	140	29...	433	103
10...	103	200	20...	89	134	30...	424	100
						31...		103
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							476	182
RUNOFF,IN INCHES.....							5.68	2.25

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	3.54	89								
6-20	2400	3.55	92								
				6-24	0015	8.03	2,240	6-30	0345	4.49	483
				6-24	2400	5.99	1,210	6-30	2400	4.22	359
6-21	0530	3.64	114								
6-21	1000	3.81	164								
6-21	1045	3.95	214	6-25	0015	5.97	1,200	7-01	0130	4.22	359
6-21	1100	4.30	360	6-25	2400	5.14	786	7-01	2400	4.10	304
6-21	1200	4.18	309								
6-21	1745	4.37	389								
6-21	2245	5.08	710	6-26	0030	5.13	781	7-02	0500	4.12	313
6-21	2400	5.53	914	6-26	2400	4.69	575	7-02	2400	4.06	286
6-22	0930	8.74	2,630	6-27	0045	4.68	571	7-03	1515	4.06	286
6-22	1615	10.04	3,510	6-27	2400	4.44	460	7-03	1645	4.15	327
6-22	2115	12.33	5,430					7-03	2345	4.17	336
6-22	2230	12.25	5,360					7-03	2400	4.16	332
6-22	2400	11.85	4,970	6-28	0045	4.46	470				
				6-28	2400	4.31	401				
								7-04	0100	4.15	327
6-23	0030	11.78	4,900					7-04	2400	3.98	250
6-23	2400	8.06	2,250	6-29	2400	4.47	474				

(408) 01619475 DOG CREEK TRIBUTARY NEAR LOCUST GROVE, MD.

(Crest-stage station)

LOCATION.--Lat 39°27'57", long 77°39'38", at upstream side of culvert at State Highway 67, 1.3 miles north of Locust Grove, Washington County, and 2.8 miles south of Boonsboro.

DRAINAGE AREA.--0.13 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 490 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 30 cfs June 22 (gage height, 5.36 ft).
1966 to May 1972: Discharge, 111 cfs (which probably includes a significant contribution from another stream that normally enters 0.1 mile downstream) Aug. 7, 1967 (gage height, 8.10 ft).

(409) 01619500 ANTIETAM CREEK NEAR SHARPSBURG, MD.

LOCATION.--Lat 39°27'01", long 77°43'52", Washington County, on left bank 400 ft downstream from Burnside Bridge, 1 mile southeast of Sharpsburg, and 4 miles upstream from mouth.

DRAINAGE AREA.--281 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 311.00 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 9,880 cfs 1400 hours June 23 (gage height, 14.30 ft).
1929 to May 1972: Discharge, 12,600 cfs July 20, 1956 (gage height, 16.73 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	574	968	11...	361	611	21...	777	440
2....	477	858	12...	351	584	22...	5,540	429
3....	449	863	13...	352	566	23...	8,520	414
4....	467	836	14...	398	554	24...	5,540	401
5....	504	896	15...	373	527	25...	2,750	392
6....	439	919	16...	366	533	26...	1,920	375
7....	416	805	17...	476	527	27...	1,520	367
8....	393	711	18...	363	489	28...	1,260	368
9....	380	669	19...	371	471	29...	1,150	359
10...	375	635	20...	348	454	30...	1,140	351
						31...		350
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,280	572
RUNOFF,IN INCHES.....							5.08	2.35

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.13	349								
6-21	1315	3.31	435	6-23	1400	14.30	9,880	6-26	1200	6.04	1,890
6-21	1530	3.72	640	6-23	1630	14.11	9,670	6-26	2400	5.67	1,680
6-21	1815	3.53	545	6-23	2400	12.77	8,210				
6-21	2015	4.30	930								
6-21	2200	6.66	2,300					6-27	1200	5.35	1,500
6-21	2400	8.91	4,240	6-24	0015	12.71	8,150	6-27	2400	5.11	1,370
				6-24	1430	9.44	4,750				
				6-24	2400	8.15	3,540				
6-22	0045	9.52	4,830					6-28	1200	4.89	1,250
6-22	1100	10.37	5,690					6-28	2400	4.79	1,190
6-22	1800	10.11	5,420	6-25	1200	7.15	2,670				
6-22	2400	10.90	6,250	6-25	2400	6.58	2,250				
								6-29	2400	4.72	1,160

(410) 01620500 NORTH RIVER NEAR STOKESVILLE, VA.

LOCATION.--Lat 38°20'15", long 79°14'25", Augusta County, on left bank 575 ft upstream from highway bridge, 2.8 miles upstream from city of Staunton dam, 3.8 miles upstream from Broad Run, 5.0 miles west of Stokesville, and 7.8 miles upstream from Skidmore Fork.

DRAINAGE AREA.--17.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 2,054.57 ft above mean sea level. Prior to June 10, 1958, water-stage recorder at site 575 ft downstream at datum 6.0 ft lower.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 900 cfs and by flow-over-dam measurement at 11,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,650 cfs 1300 hours June 21 (gage height, 5.25 ft); maximum gage height, 5.86 ft 1915 hours June 21.
1942, 1947 to May 1972: Discharge, 11,100 cfs June 17, 1949 (gage height, 10.9 ft, from floodmarks, site and datum then in use).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	23	73	11...	7.6	30	21...	1,070	9.0
2....	22	48	12...	7.1	31	22...	486	7.9
3....	18	36	13...	6.6	34	23...	231	7.1
4....	15	29	14...	7.2	25	24...	138	5.7
5....	14	143	15...	7.4	21	25...	77	4.8
6....	12	181	16...	6.6	19	26...	41	4.0
7....	11	126	17...	7.6	18	27...	28	4.1
8....	9.6	82	18...	8.1	15	28...	25	5.7
9....	8.6	53	19...	7.5	12	29...	108	19
10...	8.1	37	20...	19	9.9	30...	115	77
						31...		107
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							85	41
RUNOFF,IN INCHES.....							5.50	2.76

(413) 01624300 MIDDLE RIVER NEAR VERONA, VA.

LOCATION.--Lat 38°14'36", long 79°02'08", Augusta County, on right bank at downstream side of bridge on State Highway 742, 2.7 miles downstream from Moffett Creek, and 3.2 miles northwest of Verona.

DRAINAGE AREA.--178 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,260.78 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,800 cfs

MAXIMUMS.--June-July 1972: Discharge, 6,590 cfs 2230 hours June 21 (gage height, 13.10 ft).
1968 to May 1972: Discharge, 7,220 cfs May 30, 1971 (gage height, 13.79 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	152	435	11...	90	238	21...	3,170	169
2....	136	328	12...	88	270	22...	3,430	178
3....	120	278	13...	88	405	23...	1,000	216
4....	119	242	14...	92	315	24...	585	164
5....	120	1,140	15...	87	260	25...	435	156
6....	114	867	16...	81	242	26...	348	147
7....	111	532	17...	88	240	27...	300	143
8....	99	390	18...	96	201	28...	268	149
9....	96	315	19...	92	192	29...	1,200	409
10...	95	272	20...	119	178	30...	655	1,080
						31...		959
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							449	358
RUNOFF,IN INCHES.....							2.82	2.32

(414) 01624800 CHRISTIANS CREEK NEAR FISHERSVILLE, VA.

LOCATION.--Lat 38°07'42", long 78°59'41", Augusta County, on right bank at upstream side of bridge on State Highway 794, 2.2 miles northwest of Fishersville, and 5.6 miles upstream from mouth.

DRAINAGE AREA.--70.1 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Altitude of gage is 1,230 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,630 cfs 1630 hours June 21 (gage height, 12.50 ft).
1968 to May 1972: Discharge, 3,800 cfs Aug. 20, 1969 (gage height, 12.78 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	68	137	11...	47	112	21...	2,380	92
2....	62	124	12...	46	334	22...	1,220	96
3....	59	126	13...	47	291	23...	455	104
4....	66	113	14...	54	160	24...	313	88
5....	71	562	15...	48	135	25...	244	82
6....	59	223	16...	44	123	26...	204	77
7....	56	168	17...	95	122	27...	190	76
8....	53	143	18...	68	108	28...	178	93
9....	50	130	19...	85	101	29...	211	290
10...	49	120	20...	122	96	30...	156	834
						31...		335
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							227	180
RUNOFF,IN INCHES.....							3.61	2.97

(411) 01621200 WAR BRANCH NEAR HINTON, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°28'28", long 78°59'14", Rockingham County, at bridge on U.S. Highway 33, 1 mile west of Hinton.

DRAINAGE AREA.--9.45 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,340 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 125 cfs, by slope-area measurement at 570 cfs and by contracted-opening measurement at 2,290 cfs.

MAXIMUMS.--June-July 1972: Discharge, 700 cfs 2330 hours June 21 (gage height, 3.70 ft).
1949 to May 1972: Discharge, 2,500 cfs Aug. 15, 1949 (gage height, 6.70).

(412) 01622000 NORTH RIVER NEAR BURKETOWN, VA.

LOCATION.--Lat 38°20'25", long 78°54'50", Rockingham County, on right bank 0.8 mile downstream from Pleasant Run, 2.8 miles northeast of Burketown, and 8.5 miles upstream from Middle River.

DRAINAGE AREA.--379 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,103.49 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 16,000 cfs by slope-area measurement at 43,000 cfs, and by slope-area and contracted-opening measurements at 62,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,900 cfs 0400 hours June 22 (gage height, 16.58 ft).
1852 to May 1972: Discharge, 62,600 cfs June 18, 1949 (gage height, 36.3 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	338	1,530	11...	136	528	21...	2,810	379
2....	334	1,090	12...	130	524	22...	8,580	357
3....	297	824	13...	128	658	23...	4,380	333
4....	258	631	14...	135	472	24...	2,970	296
5....	233	1,610	15...	131	413	25...	1,920	266
6....	210	1,930	16...	123	381	26...	1,180	244
7....	193	1,430	17...	163	373	27...	986	234
8....	174	1,070	18...	151	449	28...	846	248
9....	158	815	19...	137	385	29...	3,500	356
10...	147	638	20...	138	430	30...	2,240	1,070
						31...		1,560
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,100	694
RUNOFF,IN INCHES.....							3.25	2.11

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.21	130	6-22	0400	16.58	12,900				
6-20	1930	2.25	142	6-22	0600	16.09	12,400	6-25	0030	6.21	2,350
6-20	2400	2.41	190	6-22	1530	10.84	6,340	6-25	2400	4.89	1,390
				6-22	2400	9.13	4,300				
6-21	0330	2.53	231					6-26	0030	4.87	1,380
6-21	0500	2.80	328	6-23	0030	9.07	4,740	6-26	2400	4.21	986
6-21	0800	3.00	405	6-23	1100	8.93	4,420				
6-21	1030	4.23	998	6-23	2400	8.05	3,230				
6-21	1530	7.10	3,060					6-27	2000	3.83	785
6-21	2200	12.67	8,290					6-27	2030	3.99	865
6-21	2400	14.72	10,700	6-24	0030	8.00	3,780	6-27	2200	5.69	1,950
				6-24	2400	6.23	2,360	6-27	2400	5.04	1,500

(415) 01625000 MIDDLE RIVER NEAR GROTTOES, VA.

LOCATION.--Lat 38°15'42", long 78°51'44", Augusta County, on left bank at upstream side of bridge on State Highway 769 at Mount Meridian, 1.8 miles upstream from mouth, and 2.0 miles west of Grottoes.

DRAINAGE AREA.--375 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,061.51 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 15,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 16,300 cfs 0500 hours June 22 (gage height, 21.51 ft).
1877 to May 1972: Discharge, 24,500 cfs Mar. 18, 1936 (gage height, 28.57 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	333	844	11...	180	472	21...	3,190	339
2....	276	646	12...	173	522	22...	12,700	339
3....	254	546	13...	171	1,270	23...	2,500	375
4....	229	479	14...	199	718	24...	1,350	356
5....	294	1,570	15...	189	562	25...	979	302
6....	238	1,750	16...	171	489	26...	790	285
7....	222	1,040	17...	192	472	27...	670	273
8....	209	766	18...	273	454	28...	610	282
9....	194	618	19...	217	389	29...	1,350	634
10...	189	526	20...	246	362	30...	1,200	2,050
						31...		2,110
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							993	705
RUNOFF,IN INCHES.....							2.95	2.17

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	4.51	268	6-22	0800	21.30	16,000				
6-20	1730	4.44	248	6-22	2400	13.38	5,780	6-25	0030	6.73	1,120
6-20	2400	4.68	317					6-25	2400	6.18	871
				6-23	0030	12.90	5,310				
6-21	0430	5.12	447	6-23	0330	10.46	3,310	6-26	0030	6.18	871
6-21	0900	6.55	1,040	6-23	1400	8.64	2,120	6-26	2400	5.84	726
6-21	1500	10.56	3,380	6-23	2400	7.82	1,650				
6-21	2130	16.03	8,640								
6-21	2400	19.58	13,400					6-27	0030	5.83	722
				6-24	0030	7.78	1,630	6-27	2400	5.60	630
				6-24	2400	6.74	1,120				
6-22	0500	21.51	16,300								

(416) 01626000 SOUTH RIVER NEAR WAYNESBORO, VA.

LOCATION.--Lat 38°03'27", long 78°54'30", Waynesboro City, on right bank 80 ft downstream from bridge on State Highway 664, 1.3 miles southwest of post office at Waynesboro, and 2.4 miles downstream from Back Creek.

DRAINAGE AREA.--127 sq mi, of which 41 sq mi is above flood-detention structures.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,296.20 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,200 cfs and by contracted-opening measurement at 13,700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 14,400 cfs 1800 hours June 21 (gage height, 14.25 ft).
1928 to May 1972: Discharge, 17,400 cfs Aug. 20, 1969 (gage height, 15.27 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	202	321	11...	100	199	21...	7,430	195
2....	180	241	12...	96	346	22...	7,390	180
3....	163	218	13...	93	897	23...	2,590	185
4....	166	194	14...	102	720	24...	1,530	161
5....	172	412	15...	95	518	25...	1,060	145
6....	145	514	16...	87	406	26...	792	133
7....	137	385	17...	142	334	27...	628	125
8....	125	312	18...	165	288	28...	478	135
9....	116	262	19...	347	246	29...	453	202
10...	107	227	20...	763	216	30...	406	359
						31...		383
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							875	305
RUNOFF,IN INCHES.....							7.69	2.77

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	4.09	442					6-24	2400	5.87	1,250
6-20	1400	4.32	528								
6-20	1700	4.81	725	6-22	0030	13.54	12,500				
6-20	2130	6.34	1,570	6-22	1830	9.18	4,580	6-25	0030	5.85	1,240
6-20	2400	7.10	2,250	6-22	2400	8.38	3,620	6-25	2400	5.14	896
6-21	0600	8.49	3,740	6-23	0030	8.33	3,560	6-26	0100	5.13	892
6-21	1030	8.10	3,310	6-23	2330	6.76	1,930	6-26	2400	4.61	684
6-21	1300	9.70	5,280	6-23	2400	6.74	1,920				
6-21	1700	13.94	13,500								
6-21	1800	14.25	14,400					6-27	0100	4.60	680
6-21	2400	13.61	12,600	6-24	0030	6.71	1,890	6-27	2400	4.28	558

(417) 01627500 SOUTH RIVER AT HARRISTON, VA.

LOCATION.--Lat 38°13'07", long 78°50'13", Augusta County, on left bank 100 ft downstream from bridge on State Highway 778, 0.3 mile northwest of Harriston, 0.6 mile downstream from Paine Run, and 7.2 miles upstream from confluence with North River.

DRAINAGE AREA.--222 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,129.87 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs

MAXIMUMS.--June-July 1972: Discharge, 21,300 cfs 2100 hours June 21 (gage height, 15.25 ft, from high-water mark in gage well).
1924-51, 1969 to May 1972: Discharge, 23,100 cfs Oct. 15, 1942 (gage height, 17.2 ft). Floods in 1870 and 1877 reached a stage of about 18.8 ft, from information by observer in 1925.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	341	630	11...	180	380	21...	10,400	330
2....	296	520	12...	170	540	22...	12,300	320
3....	272	400	13...	165	1,400	23...	4,800	315
4....	249	370	14...	185	1,100	24...	2,980	285
5....	296	670	15...	175	900	25...	2,200	260
6....	243	840	16...	162	680	26...	1,640	245
7....	228	670	17...	231	560	27...	1,310	240
8....	210	530	18...	279	480	28...	1,050	270
9....	198	440	19...	404	420	29...	860	370
10...	190	400	20...	857	360	30...	750	570
						31...		620
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,450	520
RUNOFF,IN INCHES.....							7.65	2.83

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	3.92	580	6-21	1700	13.60	16,500	6-23	2400	7.55	3,640
				6-21	1800	14.65	19,400				
				6-21	1900	15.10	21,000				
6-20	0600	3.94	590	6-21	2100	15.25	21,300	6-24	0600	7.25	3,200
6-20	1200	4.15	700	6-21	2400	14.85	20,000	6-24	1200	6.98	2,980
6-20	1800	4.40	850					6-24	1800	6.75	2,770
6-20	2100	5.22	1,380					6-24	2400	6.55	2,520
6-20	2400	6.18	2,200	6-22	0300	14.10	17,900				
				6-22	0600	13.28	15,600				
				6-22	1200	11.96	11,900	6-25	0600	6.34	2,240
6-21	0300	7.38	3,420	6-22	1800	10.65	8,500	6-25	1200	6.17	2,160
6-21	0600	8.18	4,380	6-22	2400	9.65	6,530	6-25	1800	5.98	2,020
6-21	0900	8.80	5,200					6-25	2400	5.80	1,840
6-21	1200	9.90	7,080								
6-21	1400	10.80	8,940	6-23	0600	8.98	5,500				
6-21	1500	11.50	10,600	6-23	1200	8.42	4,640	6-26	1200	5.57	1,640
6-21	1600	12.40	13,000	6-23	1800	7.90	4,000	6-26	2400	5.25	1,415

(420) 01629400 SOUTH FORK SHENANDOAH RIVER TRIBUTARY NEAR LURAY, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°38'35", long 78°33'20", Page County, at culvert on U.S. Highway 211, 5.5 miles southwest of Luray.

DRAINAGE AREA.--0.54 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 790 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 99 cfs 0045 hours June 22 (gage height, 6.48 ft).
1966 to May 1972: Discharge, 102 cfs July 2, 1967 (gage height, 6.60 ft).

(421) 01631000 SOUTH FORK SHENANDOAH RIVER AT FRONT ROYAL, VA.

LOCATION.--Lat 38°54'50", long 78°12'40", Warren County, on left bank 0.7 mile downstream from bridge on State Highway 619, 1.0 mile west of Front Royal, and 3.5 miles upstream from confluence with North Fork.

DRAINAGE AREA.--1,642 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 469.38 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 92,000 cfs and by slope-area measurement at 130,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 75,100 cfs 1645 hours June 22 (gage height, 23.98 ft).
1870 to May 1972: Discharge, 130,000 cfs Oct. 16, 1942 (gage height, 34.8 ft, from floodmark in gage well).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,450	7,020	11...	890	2,320	21...	2,510	1,560
2....	1,560	5,100	12...	850	2,080	22...	54,200	1,510
3....	1,470	3,940	13...	800	2,020	23...	57,000	1,430
4....	1,340	3,090	14...	780	3,870	24...	19,300	1,380
5....	1,330	2,770	15...	800	3,120	25...	10,400	1,370
6....	1,220	4,970	16...	850	2,470	26...	7,320	1,210
7....	1,240	5,830	17...	820	2,130	27...	5,350	1,130
8....	1,060	4,390	18...	820	1,950	28...	4,570	1,090
9....	1,010	3,400	19...	960	1,820	29...	5,710	1,070
10...	930	2,740	20...	1,050	1,710	30...	9,980	1,280
						31...		3,870
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							6,590	2,700
RUNOFF,IN INCHES.....							4.47	1.89

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.95	1,090	6-22	1615	23.95	75,000	6-25	0015	8.49	13,000
6-20	0730	2.01	1,150	6-22	1645	23.98	75,100	6-25	2400	6.53	8,560
6-20	2400	1.87	1,010	6-22	2400	23.83	74,400				
								6-26	0015	6.51	8,520
6-21	0715	2.26	1,430	6-23	0115	23.86	74,500	6-26	2400	5.29	6,120
6-21	1645	2.97	2,230	6-23	1615	18.16	47,900				
6-21	1900	3.67	3,260	6-23	2400	13.92	31,200				
6-21	2315	6.30	8,100					6-27	0015	5.28	6,100
6-21	2400	7.11	9,720					6-27	2400	4.56	4,810
				6-24	0015	13.78	30,700				
				6-24	1030	10.42	19,000				
6-22	0900	18.11	47,700	6-24	2400	8.52	13,100				

(418) 01628500 SOUTH FORK SHENANDOAH RIVER NEAR LYNNWOOD, VA.

LOCATION.--Lat 38°19'20", long 78°45'30", Rockingham County, on left bank 1.2 miles northeast of Lynnwood, and 3.3 miles downstream from confluence of North and South Rivers.

DRAINAGE AREA.--1,084 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,013.17 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 20,000 cfs and by flow-over-dam measurements at 53,600 cfs and 80,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 50,700 cfs 0900 hours June 22 (gage height, 23.45 ft). 1870 to May 1972: Discharge, 80,000 cfs Oct. 15, 1942 (gage height, 27.2 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,070	3,250	11...	486	1,480	21...	6,950	1,110
2....	973	2,450	12...	468	1,530	22...	41,500	1,060
3....	879	1,970	13...	456	3,270	23...	15,100	1,060
4....	778	1,630	14...	494	2,520	24...	8,180	1,010
5....	855	3,580	15...	540	1,920	25...	5,290	872
6....	722	4,730	16...	475	1,600	26...	3,770	810
7....	655	3,380	17...	520	1,450	27...	2,830	761
8....	597	2,610	18...	750	1,420	28...	2,600	792
9....	550	2,090	19...	640	1,260	29...	5,780	1,170
10...	518	1,730	20...	750	1,190	30...	4,490	3,530
						31...		4,760
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,660	2,000
RUNOFF,IN INCHES.....							3.76	2.13

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0300	3.70	1,420	6-22	1800	21.88	42,400	6-24	2400	8.64	6,230
6-21	0900	5.60	3,140	6-22	2400	18.61	28,600				
6-21	1300	7.90	5,340								
6-21	1700	10.80	9,400					6-25	1200	7.82	5,250
6-21	2100	14.00	15,500	6-23	0400	16.10	20,800	6-25	2400	7.01	4,410
6-21	2400	16.70	22,600	6-23	0800	14.01	15,500				
				6-23	1200	12.73	12,800				
				6-23	1800	12.02	11,400	6-26	1200	6.25	3,720
6-22	0100	17.80	25,900	6-23	2400	11.44	10,400	6-26	2400	5.78	3,300
6-22	0200	18.90	29,600								
6-22	0300	20.00	34,000								
6-22	0400	21.07	38,400	6-24	0600	10.69	9,240	6-27	1200	5.20	2,780
6-22	0900	23.45	50,700	6-24	1200	9.97	8,160	6-27	2400	5.05	2,640

(419) 01628600 CUB RUN TRIBUTARY AT MONTEVIDEO, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°22'15", long 78°47'00", Rockingham County, at culvert on U.S. Highway 33, 1.0 mile northwest of Montevideo.

DRAINAGE AREA.--0.42 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,190 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 91 cfs 2130 hours June 21 (gage height, 5.12 ft). 1966 to May 1972: Discharge, 92 cfs July 12, 1969 (gage height, 5.15 ft).

(422) 01632000 NORTH FORK SHENANDOAH RIVER AT COOTES STORE, VA.

LOCATION.--Lat 38°38'13", long 78°51'11", Rockingham County, on right bank at Cootes Store, 300 ft upstream from bridge on State Highway 259, and 3.7 miles upstream from Linville Creek.

DRAINAGE AREA.--210 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,051.8 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,000 cfs and by contracted-opening measurement at 50,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 13,900 cfs 0045 hours June 22 (gage height, 14.98 ft). 1836 to May 1972: Discharge, 50,000 cfs Oct. 15, 1942 (gage height, 25.3 ft, from floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	203	962	11...	32	145	21...	3,580	80
2....	137	544	12...	29	119	22...	6,780	62
3....	103	377	13...	27	111	23...	5,130	53
4....	82	252	14...	28	83	24...	1,890	43
5....	72	572	15...	27	67	25...	821	37
6....	61	830	16...	24	71	26...	503	32
7....	53	577	17...	27	117	27...	336	31
8....	45	393	18...	26	95	28...	358	31
9....	39	270	19...	52	81	29...	4,010	38
10...	36	191	20...	42	128	30...	2,630	295
						31...		360
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							906	227
RUNOFF,IN INCHES.....							4.81	1.25

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	2.66	42	6-22	0045	14.98	13,900	6-24	2400	5.03	1,080
6-20	0930	2.64	39	6-22	0800	11.72	8,150				
6-20	2130	2.67	43	6-22	1615	8.46	3,830				
6-20	2400	2.88	79	6-22	2400	7.07	2,480	6-25	0015	5.02	1,070
								6-25	2400	4.11	615
6-21	0300	3.18	190	6-23	0445	6.99	2,410				
6-21	0500	3.51	335	6-23	0630	8.21	3,560	6-26	0015	4.11	615
6-21	0745	4.60	860	6-23	1130	11.89	8,420	6-26	2400	3.65	398
6-21	1300	5.79	1,530	6-23	1215	11.97	8,550				
6-21	1600	7.72	3,070	6-23	2400	8.12	3,470				
6-21	1830	10.91	6,870					6-27	0030	3.65	398
6-21	2400	14.88	13,700					6-27	2400	3.38	276
				6-24	0015	8.06	3,410				
				6-24	1130	6.14	1,760				

(423) 01632900 SMITH CREEK NEAR NEW MARKET, VA.

LOCATION.--Lat 38°41'36", long 78°38'35", Shenandoah County, on left bank 25 ft upstream from bridge on State Highway 616, 3.6 miles north of New Market, and 4.4 miles upstream from mouth.

DRAINAGE AREA.--93.2 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 881.50 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2300 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,280 cfs 0230 hours June 22 (gage height, 13.22 ft). 1961 to May 1972: Discharge, 2,860 cfs Feb. 13, 1971 (gage height, 9.96 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	62	305	11...	42	114	21...	544	78
2....	56	215	12...	41	112	22...	3,280	74
3....	54	180	13...	40	118	23...	971	74
4....	52	160	14...	42	104	24...	409	70
5....	56	255	15...	41	96	25...	266	66
6....	50	222	16...	38	94	26...	208	62
7....	49	165	17...	42	105	27...	172	62
8....	46	147	18...	42	94	28...	327	64
9....	45	135	19...	37	86	29...	1,090	68
10...	43	123	20...	39	80	30...	625	110
						31...		103
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							294	121
RUNOFF,IN INCHES							3.52	1.49

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.77	49	6-22	0100	12.91	5,920	6-23	0300	5.52	620
				6-22	0200	13.16	6,280	6-23	0600	6.46	875
				6-22	0230	13.22	6,280	6-23	0900	7.51	1,220
6-21	0600	2.09	80	6-22	0400	13.07	6,160	6-23	1200	8.04	1,450
6-21	1200	2.41	115	6-22	0500	12.79	5,800	6-23	1500	7.94	1,400
6-21	1400	2.86	165	6-22	0600	12.48	5,440	6-23	1800	6.73	935
6-21	1500	3.26	215	6-22	0800	11.72	4,550	6-23	2100	5.76	695
6-21	1600	3.85	305	6-22	1000	10.97	3,820	6-23	2400	5.26	580
6-21	1700	4.75	472	6-22	1200	10.29	3,120				
6-21	1800	5.73	670	6-22	1400	9.56	2,500				
6-21	1900	6.65	905	6-22	1600	8.76	1,900	6-24	0600	4.69	463
6-21	2000	7.40	1,180	6-22	1800	7.70	1,310	6-24	1200	4.35	396
6-21	2100	8.06	1,500	6-22	2000	6.43	845	6-24	1800	4.09	350
6-21	2200	8.55	1,780	6-22	2200	5.90	720	6-24	2400	3.89	314
6-21	2300	10.00	2,860	6-22	2400	5.62	645				
6-21	2400	12.15	5,080	6-22							

(424) 01632950 CROOKED RUN TRIBUTARY NEAR CONICVILLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°47'55", long 78°43'25", Shenandoah County, at culvert on State Highway 42, 2.7 miles southwest of Conicville.

DRAINAGE AREA.--0.31 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,210 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 34 cfs 0030 hours June 22 (gage height, 4.72 ft).
1966 to May 1972: Discharge, 26 cfs Mar. 7, 1967 (gage height, 4.32 ft).

(425) 01633000 NORTH FORK SHENANDOAH RIVER AT MOUNT JACKSON, VA.

LOCATION.--Lat 38°44'44", long 78°38'21", Shenandoah County, on downstream side near center of span of bridge on State Highway 698 at Mount Jackson, 0.3 mile downstream from Mill Creek.

DRAINAGE AREA.--506 sq mi.

GAGE-HEIGHT RECORD.--Canfield wire weight read twice daily and crest-stage gage. Datum of gage is 838.55 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 18,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 21,200 cfs June 22 (gage height, 16.08 ft).
1942 to May 1972: Discharge, about 80,000 cfs October 1942 (gage height, 20.2 ft, from floodmarks), from rating curve extended above 18,000 cfs on basis of records for nearby stations.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	661	4,060	11...	316	858	21...	786	591
2....	724	2,290	12...	301	765	22...	15,300	535
3....	592	1,840	13...	291	714	23...	15,700	485
4....	525	1,390	14...	288	700	24...	9,460	455
5....	493	1,330	15...	287	629	25...	3,770	424
6....	464	1,990	16...	292	607	26...	2,260	396
7....	420	1,930	17...	284	652	27...	1,630	378
8....	388	1,460	18...	284	981	28...	1,290	367
9....	360	1,220	19...	289	738	29...	2,100	374
10...	338	1,010	20...	303	572	30...	6,820	398
						31...		656
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							2,230	993
RUNOFF,IN INCHES							3.25	1.49

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	2.31	291	6-22	2300	20.88	25,100				
6-20	2400	2.35	313	6-22	2400	20.84	25,000				
								6-25	0015	8.16	5,180
								6-25	2400	5.77	2,790
6-21	0715	2.52	407	6-23	0015	20.86	25,100				
6-21	1415	2.71	518	6-23	1530	13.04	11,300				
6-21	1715	3.36	932	6-23	2400	13.28	11,600	6-26	0015	5.73	2,760
6-21	2200	4.67	1,900					6-26	2400	4.64	1,870
6-21	2400	5.68	2,710								
				6-24	0800	13.58	12,000				
				6-24	1215	12.44	10,400	6-27	0015	4.64	1,870
6-22	0230	8.08	5,090	6-24	2200	8.59	5,650	6-27	2400	4.05	1,420
6-22	0830	13.98	12,600	6-24	2400	8.20	5,220				

(429) 01634500 CEDAR CREEK NEAR WINCHESTER, VA.

LOCATION.--Lat 39°04'52", long 78°19'47", Frederick County, on left bank 0.2 mile upstream from Fawcett Run, 0.3 mile upstream from bridge on State Highway 628, 1.3 miles downstream from Froman Run, and 11.4 miles southwest of Winchester.

DRAINAGE AREA.--103 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 22 to July 6. Datum of gage is 647.09 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 15,000 cfs and by slope-area measurement at 20,300 cfs.

MAXIMUMS.--June-July 1972: Discharge, 20,300 cfs June 22 (gage height, 23.19 ft).
1936 to May 1972: Discharge, 22,000 cfs Oct. 15, 1942 (gage height, 27.0 ft, from floodmarks).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	214	260	11...	48	85	21...	970	110
2....	146	230	12...	44	79	22...	9,500	85
3....	116	200	13...	39	84	23...	3,800	70
4....	124	160	14...	42	70	24...	1,500	61
5....	166	210	15...	40	69	25...	840	52
6....	100	230	16...	38	78	26...	500	46
7....	84	164	17...	44	996	27...	330	43
8....	69	139	18...	37	663	28...	250	49
9....	60	120	19...	41	233	29...	300	43
10...	56	98	20...	37	150	30...	380	54
						31...		65
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							664	161
RUNOFF,IN INCHES							7.19	1.80

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	412	2,070	11...	146	513	21...	1,270	324
2....	324	1,300	12...	140	460	22...	11,100	282
3....	263	980	13...	134	460	23...	7,700	282
4....	240	800	14...	143	389	24...	4,130	263
5....	237	1,080	15...	137	345	25...	1,790	237
6....	207	1,590	16...	99	345	26...	1,160	218
7....	193	1,160	17...	131	510	27...	860	211
8....	179	860	18...	140	412	28...	1,300	233
9....	166	710	19...	122	345	29...	6,560	237
10...	159	565	20...	156	412	30...	4,880	565
						31...		710
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,480	609
RUNOFF, IN INCHES.....							3.27	1.39

(426) 01633500 STONY CREEK AT COLUMBIA FURNACE, VA.

(Crest-stage station)

LOCATION.--Lat 38°51'55", long 78°37'45", Shenandoah County, at foot bridge 0.8 mile south of Columbia Furnace.

DRAINAGE AREA.--79.4 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Datum of gage is 895.29 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by slope-area measurement at 4,290 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,850 cfs June 22 (gage height, 9.17 ft).
1947 to May 1972: Discharge, 6,900 cfs Sept. 30, 1959 (gage height, 9.20 ft).
Flood in October 1942 reached a stage of 11.5 ft, from information by local resident.

(427) 01633700 PUGH RUN TRIBUTARY NEAR COLUMBIA FURNACE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°51'17", long 78°31'22", Shenandoah County, at culvert on State Highway 623, 7 miles northeast of Columbia Furnace.

DRAINAGE AREA.--0.56 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,030 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 98 cfs 0145 hours June 22 (gage height, 4.96 ft).
1966 to May 1972: Discharge, 84 cfs July 29, 1971 (gage height, 4.54 ft).

(428) 01634000 NORTH FORK SHENANDOAH RIVER NEAR STRASBURG, VA.

LOCATION.--Lat 38°58'36", long 78°20'11", Warren County, on right bank at downstream side of bridge on State Highway 55, 1.5 miles southeast of Strasburg, 2.2 miles upstream from Cedar Creek, and 10 miles upstream from confluence with South Fork.

DRAINAGE AREA.--768 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 494.03 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 46,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 25,100 cfs 2300 hours June 22 (gage height, 20.88 ft).
1870 to May 1972: Discharge, 100,000 cfs Oct. 16, 1942 (gage height, 31.2 ft, from floodmark in gage well).

(430) 01635200 NORTH FORK SHENANDOAH RIVER TRIBUTARY NEAR WATERLICK, VA.

(Crest-stage station)

LOCATION.--Lat 38°58'25", long 78°18'30", Warren County, at culvert on State Highway 55, 1.3 miles west of Waterlick.

DRAINAGE AREA.--0.48 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 570 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 63 cfs June 21 (gage height, 4.86 ft).
1966 to May 1972: Discharge, 29 cfs May 30, 1971 (gage height, 3.89 ft).

(431) 01635500 PASSAGE CREEK NEAR BUCKTON, VA.

LOCATION.--Lat 38°57'29", long 78°16'01", Warren County, on right bank 350 ft upstream from bridge on State Highway 55, 1.2 miles south of Buckton (R. R. station), 1.4 miles upstream from mouth, and 4.2 miles west of Riverton.

DRAINAGE AREA.--87.8 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 21-23. Datum of gage is 525.14 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 13,100 cfs June 22 (gage height, 13.56 ft, from floodmarks).
1933 to May 1972: Discharge, 21,000 cfs Oct. 15, 1942 (gage height, 15.5 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	61	132	11...	17	43	21...	327	17
2....	49	111	12...	16	37	22...	7,830	16
3....	40	120	13...	16	44	23...	7,520	14
4....	37	82	14...	16	38	24...	856	17
5....	42	130	15...	17	29	25...	356	15
6....	35	149	16...	16	26	26...	215	14
7....	31	102	17...	16	33	27...	161	12
8....	26	78	18...	16	29	28...	132	11
9....	22	63	19...	16	23	29...	168	12
10...	20	52	20...	17	19	30...	178	17
						31...		37
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							609	49
RUNOFF, IN INCHES.....							7.74	0.64

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	3.55	21	6-22	0200	8.17	2,450	6-23	0900	12.61	9,670
				6-22	0400	8.97	3,140	6-23	1200	11.81	7,300
				6-22	0600	9.81	3,900	6-23	1500	10.75	5,150
6-21	0200	3.76	42	6-22	0800	10.63	4,840	6-23	1800	9.71	3,800
6-21	0400	3.76	42	6-22	1000	11.47	6,550	6-23	2100	8.71	2,870
6-21	0600	3.83	52	6-22	1200	12.24	8,430	6-23	2400	7.77	2,130
6-21	0800	4.07	96	6-22	1400	12.70	9,990				
6-21	1000	4.14	111	6-22	1600	13.04	11,000				
6-	1200	4.19	123	6-22	1800	13.25	11,700	6-24	0600	6.33	1,070
6-21	1400	4.29	147	6-22	2000	13.39	12,400	6-24	1200	5.72	700
6-21	1600	4.45	186	6-22	2200	13.49	12,800	6-24	1800	5.42	560
6-21	1800	4.90	340	6-22	2400	13.56	13,100	6-24	2400	5.20	460
6-21	2000	5.62	650								
6-21	2200	6.50	1,170								
6-21	2400	7.38	1,810	6-23	0300	13.43	12,400	6-25	1200	4.94	356
				6-23	0600	13.14	11,300	6-25	2400	4.69	262

(432) 01636210 HAPPY CREEK AT FRONT ROYAL, VA.

LOCATION.--Lat 38°54'20", long 78°11'10", Warren County, on left bank 30 ft upstream from highway bridge, 1.0 mile south of Front Royal, 2.3 miles upstream from Leach Run, and 2.9 miles upstream from mouth.

DRAINAGE AREA.--14.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 610.12 ft above mean sea level. Prior to Oct. 1, 1949, nonrecording gage at site 0.3 mile downstream at different datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 460 cfs and by slope-area measurement at 1,490 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,600 cfs 0315 hours June 22 (gage height, 6.13 ft). 1949 to May 1972: Discharge, 2,490 cfs Oct. 5, 1948 (gage height, 6.40 ft, site and datum then in use).
Flood in October 1942 reached a stage of about 14 ft, site and datum in use 1948-49, from information by local residents.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	15	32	11...	7.2	13	21...	205	7.2
2...	13	31	12...	6.9	13	22...	604	7.2
3...	12	28	13...	6.9	17	23...	276	6.2
4...	12	21	14...	8.4	12	24...	129	5.5
5...	13	33	15...	7.6	11	25...	80	5.2
6...	12	28	16...	7.2	11	26...	59	4.6
7...	11	24	17...	8.0	11	27...	47	5.2
8...	8.9	21	18...	7.2	9.3	28...	39	5.8
9...	8.4	17	19...	6.5	8.0	29...	46	6.5
10...	8.0	15	20...	8.9	7.6	30...	42	12
						31...		8.0
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							57	14
RUNOFF, IN INCHES							4.56	1.16

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.52	5.2	6-21	1900	3.88	496	6-23	2400	2.98	174
6-20	0730	1.55	6.2	6-21	2215	4.12	604				
6-20	1645	1.63	9.3	6-21	2400	4.55	805				
6-20	1845	1.77	16					6-24	0030	2.97	172
6-20	2400	1.73	14					6-24	2215	2.62	99
				6-22	0215	5.67	1,370	6-24	2400	2.60	96
				6-22	0315	6.13	1,600				
6-21	0130	1.84	21	6-22	0345	5.94	1,500				
6-21	0200	1.98	29	6-22	0545	4.69	875	6-25	0015	2.60	96
6-21	0215	2.09	37	6-22	0930	3.98	541	6-25	2400	2.37	67
6-21	0315	2.58	93	6-22	1800	3.38	293				
6-21	0530	2.47	78	6-22	2400	3.40	300				
6-21	0845	2.30	59					6-26	0130	2.37	67
6-21	1245	2.16	44					6-26	2400	2.22	52
6-21	1400	2.27	56	6-23	0745	3.54	356				
6-21	1430	2.56	90	6-23	0945	3.57	368				
6-21	1530	2.59	95	6-23	1200	3.41	304	6-27	0715	2.22	52
6-21	1615	2.97	172	6-23	2145	3.02	184	6-27	2400	2.11	42

(433) 01636500 SHENANDOAH RIVER AT MILLVILLE, W. VA.

LOCATION.--Lat 39°16'55", long 77°47'22", Jefferson County, on left bank 0.4 mile downstream from Cattail Run, 1.0 mile upstream from Millville, 5.0 miles upstream from Harpers Ferry, and at mile 5.0.

DRAINAGE AREA.--3,040 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 293.00 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 171,000 cfs and by slope-area measurement at 230,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 103,000 cfs 1200 hours June 23 (gage height, 21.89 ft). 1870, 1896-98, 1900-1901, 1903-1908, 1924, 1929 to May 1972: Discharge, 230,000 cfs Oct. 16, 1942 (gage height, 32.4 ft, from floodmarks).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0200	1.91	13	6-21	2100	5.28	1,610	6-22	2330	3.44	391
6-20	2400	1.94	16	6-21	2200	5.00	1,360	6-22	2400	3.43	387
				6-21	2300	4.57	1,020				
				6-21	2400	4.17	757				
6-21	0200	1.98	19					6-23	0200	3.12	277
6-21	0400	2.05	28					6-23	0400	3.05	255
6-21	0800	2.09	34	6-22	0100	5.06	1,410	6-23	0800	2.98	234
6-21	1000	2.41	97	6-22	0200	4.47	949	6-23	1200	2.85	196
6-21	1200	2.71	160	6-22	0400	3.76	535	6-23	2400	2.60	135
6-21	1400	2.49	113	6-22	0600	3.24	319				
6-21	1600	2.38	91	6-22	0700	3.29	336				
6-21	1800	2.69	155	6-22	0800	3.18	298	6-24	1200	2.46	107
6-21	1830	3.62	469	6-22	1000	2.90	209	6-24	2400	2.37	89
6-21	1900	4.78	1,170	6-22	1200	2.78	177				
6-21	1915	5.19	1,530	6-22	1800	2.66	148				
6-21	1930	5.10	1,450	6-22	2000	2.93	218	6-25	1200	2.32	79
6-21	1945	5.21	1,550	6-22	2100	3.03	249	6-25	2400	2.25	65
6-21	2000	5.64	1,960								

(435) 01637500 CATOCTIN CREEK NEAR MIDDLETOWN, MD.

LOCATION.--Lat 39°25'35", long 77°33'25", Frederick County, on right bank 300 ft downstream from bridge on State Highway 17, 1.3 miles south of Middletown, 2.2 miles downstream from Little Catoctin Creek, and 14.8 miles upstream from mouth.

DRAINAGE AREA.--66.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except July 8-17. Altitude of gage is 385 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,500 cfs and slope-area measurement at 7,760 cfs. Discharge July 8-17 estimated on basis of records for Little Catoctin Creek at Harmony.

MAXIMUMS.--June-July 1972: Discharge, 11,200 cfs 0230 hours June 22 (gage height, 12.28 ft). 1948 to May 1972: Discharge, 7,760 cfs July 18, 1949 (gage height, 11.18 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	156	208	11...	46	80	21...	1,260	50
2...	107	170	12...	41	85	22...	4,320	44
3...	89	213	13...	39	75	23...	2,570	42
4...	90	189	14...	49	65	24...	1,100	39
5...	136	272	15...	41	60	25...	685	36
6...	91	195	16...	41	110	26...	462	33
7...	79	160	17...	68	120	27...	327	31
8...	67	130	18...	74	73	28...	277	34
9...	60	100	19...	78	64	29...	403	33
10...	54	90	20...	53	58	30...	303	33
						31...		34
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							439	94
RUNOFF, IN INCHES							7.32	1.63

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.47	56	6-21	2400	9.15	4,450				
6-20	0200	1.47	56					6-24	0030	4.48	1,430
6-20	2200	1.45	52					6-24	2400	3.26	820
6-20	2400	1.46	54	6-22	0030	8.99	4,290				
				6-22	0100	10.01	5,460				
				6-22	0230	12.28	11,200	6-25	0100	3.25	815
6-21	0730	1.56	75	6-22	0730	9.72	5,070	6-25	2400	2.75	545
6-21	1030	1.65	96	6-22	1430	6.62	2,540				
6-21	1100	1.73	110	6-22	1830	5.30	1,840				
6-21	1330	2.30	325	6-22	2400	7.26	2,930	6-26	0100	2.74	540
6-21	1800	2.78	560					6-26	2400	2.40	370
6-21	1830	3.00	680								
6-21	1900	4.48	1,430	6-23	0500	7.79	3,300				
6-21	2000	8.66	3,990	6-23	0930	7.43	3,050	6-27	0100	2.40	370
6-21	2130	10.90	7,070	6-23	2400	4.48	1,430	6-27	2400	2.18	272
6-21	2200	10.90	7,070								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,690	16,500	11...	1,610	4,450	21...	2,330	3,000
2....	2,730	10,400	12...	1,520	3,930	22...	37,600	2,820
3....	2,740	8,170	13...	1,430	3,620	23...	97,300	2,640
4....	2,470	6,520	14...	1,460	3,950	24...	57,200	2,460
5....	2,350	5,590	15...	1,450	5,070	25...	22,300	2,370
6....	2,360	5,980	16...	1,400	4,240	26...	13,900	2,310
7....	2,130	9,280	17...	1,510	4,260	27...	9,830	2,130
8....	2,020	7,600	18...	1,440	4,240	28...	7,580	2,050
9....	1,770	6,140	19...	1,400	4,350	29...	8,120	1,960
10...	1,700	5,170	20...	1,490	3,430	30...	17,500	1,960
						31...		2,490
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							10,400	4,810
RUNOFF, IN INCHES							3.81	1.82

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	2.51	1,390	6-24	0015	20.30	88,700				
6-20	0945	2.55	1,430	6-24	2000	13.39	38,100				
6-20	1045	1.74	725	6-24	2400	12.53	33,400	6-30	0645	8.00	13,500
6-20	1100	1.79	763					6-30	1630	10.13	21,600
6-20	1245	2.76	1,660					6-30	2400	9.49	19,000
6-20	1430	2.86	1,770	6-25	0015	12.48	33,100				
6-20	2400	2.76	1,660	6-25	1845	9.37	18,600				
				6-25	2400	8.89	16,700	7-01	0015	9.46	18,900
								7-01	2400	7.70	12,500
6-21	1700	2.84	1,740								
6-21	2030	3.54	2,630	6-26	0015	8.87	16,600				
6-21	2115	4.00	3,380	6-26	2400	7.37	11,400	7-02	0015	7.68	12,400
6-21	2345	6.64	9,250					7-02	2400	6.43	8,680
6-21	2400	6.75	9,570								
				6-27	0015	7.36	11,400				
				6-27	2400	6.32	8,390	7-03	0015	6.42	8,650
6-22	0630	3.49	15,200					7-03	2400	5.86	7,280
6-22	2400	13.55	81,900								
				6-28	0015	6.31	8,970				
				6-28	2400	5.67	6,860	7-04	0015	5.84	7,240
6-23	1200	21.89	103,000					7-04	2400	5.17	5,810
6-23	1600	21.73	102,000								
6-23	2400	20.27	88,400	6-29	1815	6.34	8,440				
				6-29	2345	8.13	14,000	7-05	0045	5.17	5,810
				6-29	2400	8.12	13,900	7-05	2400	5.14	5,750

(434) 01637000 LITTLE CATOCTIN CREEK AT HARMONY, MD.

(Flood-hydrograph station; gaging station discontinued 1958)

LOCATION.--Lat 39°28'54", long 77°32'17", Frederick County, on right bank at abandoned county highway bridge, 0.9 mile southwest of Harmony, 2.6 miles north of Middletown, and 2.8 miles upstream from mouth.

DRAINAGE AREA.--8.83 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Altitude of gage is 540 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and by slope-area measurements at 720 cfs and 1,960 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,960 cfs 2000 hours June 21 (gage height, 5.64 ft in gage well; 6.34 ft, from floodmark).
1948 to May 1972: Discharge, 5,400 cfs Aug. 20, 1952 (gage height, 8.49 ft), from rating curve extended above 220 cfs on basis of slope-area measurements at 372, 1,260, 2,240 cfs, and contracted-opening measurement at 5,660 cfs.

(436) 01637600 HOLLOW ROAD CREEK NEAR MIDDLETOWN, MD.

(Crest-stage station)

LOCATION.--Lat 39°26'07", long 77°31'15", at upstream side of culvert at Alternate U.S. Highway 40, 1.4 miles southeast of Middletown, Frederick County, and 4.5 miles west of Frederick.

DRAINAGE AREA.--2.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 580 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 50 cfs, by slope-area measurement at 299 cfs, and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 815 cfs June 21 (gage height, 9.4 ft, from floodmarks).
1965 to May 1972: Discharge, 440 cfs Oct. 25, 1971 (gage height, 6.28 ft).

(437) 01638500 POTOMAC RIVER AT POINT OF ROCKS, MD.

LOCATION.--Lat 39°16'25", long 77°32'35", Frederick County, on left bank at downstream side of bridge on U. S. Highway 15 at Point of Rocks, 0.3 mile downstream from Catoctin Creek (Virginia), 6 miles upstream from Monocacy River, and at mile 159.5.

DRAINAGE AREA.--9,651 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 200.54 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 300,000 cfs and extended on basis of adjustment of figure of peak flow of Mar. 19, 1936, at station near Washington, D. C., for inflow and storage, and slope-area measurement at 480,000 cfs.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained one or more times daily except June 9, 10, July 2, 12-17, 19, 26.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined except for days of no samples. Concentration graph estimated June 9, 10, July 2, 19, 26. Sediment discharge estimated July 12-17.

MAXIMUMS.--June-July 1972: Discharge, 347,000 cfs 2330 hours June 23 (gage height, 37.43 ft); daily sediment concentration, 878 mg/l June 23; daily sediment discharge, 689,000 tons June 23.
1889 to May 1972: Discharge, 480,000 cfs Mar. 19, 1936 (gage height, 41.03 ft).
1961 to May 1972: Daily sediment concentration, 1,180 mg/l Feb. 20, 1961; daily sediment discharge, 340,000 tons Mar. 8, 1967.

MEAN DISCHARGE, SEDIMENT CONCENTRATION, AND SEDIMENT DISCHARGE, 1972

DAY	JUNE DISCHARGE (CFS)	JUNE SUSPENDED SEDIMENT CONCENTRATION (MG/L)	JUNE SUSPENDED SEDIMENT TONS PER DAY	DAY	JULY DISCHARGE (CFS)	JULY SUSPENDED SEDIMENT CONCENTRATION (MG/L)	JULY SUSPENDED SEDIMENT TONS PER DAY
1	12,400	18	602	1	47,600	275	35,700
2	12,400	16	536	2	34,700	150	14,100
3	11,200	18	544	3	25,700	85	5,900
4	9,700	18	471	4	22,000	65	3,860
5	9,340	16	403	5	18,900	52	2,650
6	9,270	21	526	6	19,500	46	2,920
7	8,370	18	407	7	27,400	66	4,880
8	7,430	23	461	8	28,000	64	4,840
9	6,720	24	435	9	21,700	45	2,640
10	6,110	22	363	10	17,900	30	1,450
11	5,720	19	293	11	15,700	28	1,190
12	5,280	15	214	12	15,100	28	1,140
13	5,070	19	260	13	12,700	27	925
14	5,190	26	364	14	11,300	25	762
15	5,170	31	433	15	12,100	28	915
16	5,180	27	378	16	11,400	18	554
17	5,820	32	503	17	11,500	16	497
18	6,930	34	636	18	10,900	15	441
19	6,790	31	568	19	11,800	18	573
20	6,690	26	469	20	10,300	21	584
21	12,100	168	14,100	21	9,090	12	294
22	108,000	805	256,000	22	7,970	12	258
23	296,000	878	689,000	23	7,410	14	280
24	296,000	365	301,000	24	6,880	19	353
25	157,000	182	79,700	25	6,500	33	579
26	60,300	114	18,900	26	6,090	36	592
27	40,200	69	7,490	27	5,680	33	552
28	30,600	58	4,790	28	5,390	26	378
29	26,200	64	5,290	29	5,170	21	293
30	34,900	200	18,800	30	5,140	19	264
				31	5,470	30	443
TOTAL	1,212,100		1,403,936		456,990		90,305
MEAN	40,400		46,800		14,740		2,910
INCHES	4.67				1.76		
AC-FT	2,404,165		[a]921		906,426		[a]59.2

a Computed on basis of 70 lb/cu ft deposited unit weight.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.62	6,840								
6-21	1830	3.03	8,400								
6-21	1900	3.29	9,440	6-26	0030	15.80	85,400	7-01	1230	11.00	50,500
6-21	2400	9.77	43,100	6-26	1700	11.34	52,700	7-01	1900	10.47	47,300
				6-26	2400	10.42	47,000	7-01	2400	9.72	42,800
6-22	0600	14.61	75,900								
6-22	1400	18.08	104,000	6-27	0030	10.37	46,700	7-02	0030	9.65	42,400
6-22	2400	27.03	190,000	6-27	2400	8.43	35,100	7-02	2400	7.41	29,300
6-23	2100	37.37	346,000	6-28	0030	8.39	34,800	7-03	0030	7.36	29,000
6-23	2330	37.43	347,000	6-28	2400	7.07	27,400	7-03	2400	6.42	23,900
6-24	0030	37.33	345,000	6-29	2030	6.91	26,500	7-04	0200	6.41	23,900
6-24	2400	30.77	237,000	6-29	2400	7.78	31,300	7-04	2400	5.67	20,100
6-25	0030	30.57	234,000	6-30	1900	8.75	37,000	7-05	0030	5.66	20,000
6-25	2400	16.03	87,200	6-30	2400	9.73	42,900	7-05	2400	5.34	18,500

(438) 01638900 WHITE RUN NEAR GETTYSBURG, PA.

(Crest-stage station)

LOCATION.--Lat 39°47'45", long 77°11'50", Adams County, at concrete bridge on U.S. Highway 140, 1 mile above mouth, and 2.5 miles southeast of Gettysburg.

DRAINAGE AREA.--12.4 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Datum of gage is 414.65 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 450 cfs and by contracted-opening measurements at 2,760 and 4,360 cfs.

(441) 01639500 BIG PIPE CREEK AT BRUCEVILLE, MD.

LOCATION.--Lat 39°36'45", long 77°14'10", Carroll County, on left bank 300 ft downstream from bridge on State Highway 194, 800 ft downstream from Bruceville, 3.5 miles upstream from Detour, and confluence with Little Pipe Creek.

DRAINAGE AREA.--102 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 340 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,500 cfs and by contracted-opening measurement at 22,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 22,800 cfs 0830 hours June 22 (gage height, 17.86 ft).
1948 to May 1972: Discharge, 9,500 cfs July 12, 1949 (gage height, 11.92 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	311	348	11...	74	204	21...	794	172
2...	122	312	12...	72	194	22...	14,400	160
3...	105	318	13...	76	303	23...	4,630	149
4...	109	292	14...	125	215	24...	1,400	140
5...	117	451	15...	90	184	25...	930	132
6...	95	317	16...	83	360	26...	616	122
7...	96	274	17...	83	621	27...	493	120
8...	84	248	18...	83	325	28...	421	130
9...	80	235	19...	85	213	29...	494	123
10...	78	220	20...	76	188	30...	507	121
						31...		126
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							891	236
RUNOFF, IN INCHES							9.75	2.67

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.38	79	6-22	0830	17.86	22,800				
6-21	1000	1.44	90	6-22	1030	17.24	20,500				
6-21	1230	1.60	122	6-22	1500	15.20	13,800	6-25	0030	4.85	1,150
6-21	1300	1.70	144	6-22	2300	12.65	8,170	6-25	2400	3.75	700
6-21	1430	2.30	288	6-22	2400	12.56	8,010				
6-21	1730	2.44	328								
6-21	1900	2.44	328					6-26	0030	3.74	696
6-21	1930	2.58	372	6-23	0100	12.46	7,830	6-26	2400	3.27	525
6-21	2000	2.99	518	6-23	0830	10.71	5,150				
6-21	2030	4.08	1,010	6-23	2400	6.91	2,220				
6-21	2200	9.07	4,370					6-27	0030	3.27	525
6-21	2400	11.77	7,300					6-27	2400	3.01	434
				6-24	0030	6.78	2,140				
				6-24	1400	5.03	1,240				
6-22	0230	14.80	12,700	6-24	2200	4.68	1,080	6-28	1330	3.02	437
6-22	0600	17.26	20,600	6-24	2400	4.85	1,150	6-28	2400	2.86	381

(442) 01640000 LITTLE PIPE CREEK AT AVONDALE, MD.

(Crest-stage station; gaging station discontinued 1956)

LOCATION.--Lat 39°33'40", long 77°02'38", Carroll County, at private bridge, 0.1 mile downstream from Copps Branch, 0.5 mile northwest of Avondale, and 3 miles southwest of Westminster.

DRAINAGE AREA.--8.10 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 525 ft (from topographic map).

DISCHARGE RECORD.--Maximum discharge by computation of flow through culvert at site 0.6 mile upstream, adjusted for flow from intervening area.

MAXIMUMS.--June-July 1972: Discharge, 2,400 cfs June 22 (gage height, 10.45 ft).
1948-56, 1959-64, 1967 to May 1972: Discharge, 1,880 cfs July 4, 1956 (gage height, 8.47 ft), from rating curve extended above 130 cfs on basis of slope-area measurements at 286 cfs and 687 cfs, and contracted-opening measurement at 1,410 cfs.

(439) 01639000 MONOCACY RIVER AT BRIDGEPORT, MD.

LOCATION.--Lat 39°40'43", long 77°14'06", Frederick County, on right bank 60 ft downstream from bridge on State Highway 97 at Bridgeport, 0.9 mile upstream from Cattail Branch, 3.4 miles northwest of Taneytown, 4.8 miles downstream from confluence of Rock and Marsh Creeks at Pennsylvania-Maryland State line, and 52 miles (revised) upstream from mouth.

DRAINAGE AREA.--173 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 340.83 ft above mean sea level (Corps of Engineers bench mark). Prior to May 3, 1946, at site 0.3 mile downstream at datum 0.98 ft lower.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,000 cfs and extended on basis of slope-conveyance study.

MAXIMUMS.--June-July 1972: Discharge, 21,300 cfs 1600 hours June 22 (gage height, 24.05 ft).
1943 to May 1972: Discharge, 15,000 cfs May 21, 1943 (gage height, 20.53 ft, former sight and datum).
Flood of Aug. 24, 1933, reached a stage of about 25 ft, present site and datum from floodmarks; stage exceeded that of June 1889.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	410	253	11...	43	127	21...	727	64
2...	128	187	12...	36	102	22...	16,700	55
3...	91	160	13...	36	254	23...	8,220	49
4...	344	297	14...	69	141	24...	1,450	43
5...	392	332	15...	71	93	25...	780	38
6...	109	349	16...	49	80	26...	495	34
7...	87	375	17...	52	143	27...	327	31
8...	66	203	18...	46	291	28...	247	32
9...	52	162	19...	63	116	29...	232	34
10...	45	135	20...	53	79	30...	544	31
						31...		31
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,070	139
RUNOFF, IN INCHES							6.87	0.93

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.61	47					6-25	2400	4.60	620
6-21	1100	2.63	49								
6-21	1400	2.90	88	6-23	0030	20.79	14,700				
6-21	1500	3.01	113	6-23	1200	15.53	7,830	6-26	0030	4.58	612
6-21	1600	3.36	200	6-23	2400	9.27	2,960	6-26	2400	3.98	393
6-21	2000	5.55	1,000								
6-21	2100	7.21	1,790								
6-21	2330	13.12	5,700	6-24	0030	8.96	2,780	6-27	0030	3.96	386
6-21	2400	13.75	6,200	6-24	0500	7.29	1,830	6-27	2400	3.64	282
				6-24	1900	5.60	1,020				
				6-24	2400	5.26	884				
6-22	0930	22.54	17,900					6-28	0030	3.63	279
6-22	1600	24.05	21,300					6-28	2400	3.45	225
6-22	1900	23.60	20,200	6-25	0030	5.23	872				
6-22	2400	21.08	15,200	6-25	2300	4.66	644				

(440) 01639095 PINEY CREEK TRIBUTARY AT TANEYTOWN, MD.

(Crest-stage station)

LOCATION.--Lat 39°39'53", long 77°09'59", at upstream side of culvert under Penn-Central Railroad track, 0.6 mile northeast of Taneytown, Carroll County, and 3.8 miles south of Pennsylvania State line.

DRAINAGE AREA.--0.62 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 460 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert and by slope-area measurement of maximum flow.

MAXIMUMS.--June-July 1972: Discharge, 278 cfs June 22 (gage height, 11.64 ft, from floodmarks).
1967 to May 1972: Discharge, 210 cfs Sept. 3, 1969 (gage height, 10.22 ft, from floodmarks).

(443) 01640500 OWENS CREEK AT LANTZ, MD.

LOCATION.--Lat 39°40'36", long 77°27'50", Frederick County, on right bank 0.5 mile west of Lantz Post Office (Deerfield station on Western Maryland Railway), 1.5 miles south of Sabillasville, 4.5 miles northwest of Thurmont, and 14.2 miles upstream from mouth.

DRAINAGE AREA.--5.93 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 965 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 750 cfs and by slope-area measurements at 839 cfs and 1,510 cfs.

MAXIMUMS.--June-July 1972: Discharge, 940 cfs 0200 hours June 22 (gage height, 5.14 ft).
1932 to May 1972: Discharge, 3,270 cfs Dec. 1, 1934 (gage height, 8.4 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	13	28	11...	5.7	14	21...	150	6.4
2...	11	23	12...	5.4	13	22...	482	5.8
3...	9.7	23	13...	6.8	12	23...	251	5.5
4...	11	21	14...	9.0	11	24...	105	5.0
5...	9.8	38	15...	6.0	9.7	25...	72	4.5
6...	8.8	29	16...	6.8	9.3	26...	52	4.1
7...	7.9	22	17...	6.6	8.9	27...	40	4.4
8...	6.8	19	18...	5.6	8.2	28...	35	4.6
9...	6.4	17	19...	5.5	7.6	29...	47	4.5
10...	6.4	15	20...	5.2	7.0	30...	39	4.5
						31...		4.9
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							48	13
RUNOFF, IN INCHES							8.95	2.45

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.83	10	6-21	2400	5.10	920	6-22	2400	4.01	440
6-21	0345	2.11	24								
6-21	0845	2.36	48								
6-21	1045	2.67	93	6-22	0115	4.92	830	6-23	0015	3.96	422
6-21	1215	2.95	143	6-22	0200	5.14	940	6-23	0500	3.62	308
6-21	1530	2.56	76	6-22	0245	5.02	880	6-23	1130	3.49	269
6-21	1815	2.48	64	6-22	0630	3.94	414	6-23	1800	3.09	170
6-21	1945	2.72	101	6-22	0745	3.81	369	6-23	2400	2.92	137
6-21	2100	3.30	218	6-22	0900	4.42	598				
6-21	2115	3.40	244	6-22	1045	3.56	290				
6-21	2145	4.23	523	6-22	1315	3.47	264	6-24	0030	2.91	135
6-21	2200	4.85	795	6-22	1715	3.92	407	6-24	2245	2.62	85
6-21	2245	5.13	935	6-22	2100	3.96	422	6-24	2400	2.61	84
6-21	2300	5.07	905	6-22	2315	4.18	504				

(444) 01640700 OWENS CREEK TRIBUTARY NEAR ROCKY RIDGE, MD.

(Crest-stage station)

LOCATION.--Lat 39°37'16", long 77°20'26", at upstream side of culvert at Appolds Crossing Road, 1.6 miles northwest of Rocky Ridge, Frederick County, and 3.7 miles east of Thurmont.

DRAINAGE AREA.--1.2 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 350 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurement at 60 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 363 cfs June 22 (gage height, 12.29 ft, from floodmarks).
1967 to May 1972: Discharge, 383 cfs July 9, 1970 (gage height, 13.40 ft, from floodmarks).

(445) 01641000 HUNTING CREEK AT JIMTOWN, MD.

LOCATION.--Lat 39°35'40", long 77°23'50", Frederick County, on right bank just downstream from highway bridge, 0.4 mile southwest of Jimtown, about 2.2 miles southeast of Thurmont, 2.2 miles upstream from Little Hunting Creek, and 5.2 miles upstream from mouth.

DRAINAGE AREA.--18.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 355 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 500 cfs and extended by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,330 cfs 0330 hours June 22 (gage height, 5.26 ft).
1950 to May 1972: Discharge, 1,170 cfs Sept. 1, 1952 (gage height, 4.94 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	59	58	11...	17	35	21...	293	20
2....	38	47	12...	16	33	22...	1,100	18
3....	31	68	13...	20	31	23...	700	17
4....	33	65	14...	20	29	24...	320	17
5....	29	102	15...	17	26	25...	110	16
6....	26	77	16...	19	41	26...	68	15
7....	24	60	17...	20	31	27...	136	15
8....	20	50	18...	18	26	28...	91	15
9....	19	45	19...	17	23	29...	86	14
10...	18	40	20...	16	20	30...	89	14
						31...		14
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							116	35
RUNOFF,IN INCHES							7.01	2.19

(446) 01641500 FISHING CREEK NEAR LEWISTOWN, MD.

LOCATION.--Lat 39°31'35", long 77°28'00", Frederick County, on left bank immediately upstream from Fishing Creek Reservoir, 50 ft downstream from Little Fishing Creek, 2.8 miles west of Lewistown, and 9.9 miles upstream from mouth.

DRAINAGE AREA.--7.29 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 735 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and by slope-area measurement at 500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 610 cfs 2230 hours June 21 (gage height, 4.01 ft).
1948 to May 1972: Discharge, 500 cfs July 12, 1949 (gage height, 3.73 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	26	31	11...	13	21	21...	114	12
2....	21	28	12...	12	20	22...	299	11
3....	19	30	13...	14	19	23...	221	10
4....	20	27	14...	13	17	24...	117	9.5
5....	21	32	15...	12	16	25...	80	9.1
6....	18	29	16...	12	20	26...	58	8.5
7....	17	27	17...	11	17	27...	46	8.4
8....	15	26	18...	11	15	28...	40	8.3
9....	15	24	19...	11	13	29...	42	7.9
10...	14	22	20...	10	13	30...	38	7.9
						31...		8.0
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							45	18
RUNOFF,IN INCHES							6.94	2.79

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.56	13					6-23	0030	3.07	283
6-21	0900	1.80	32					6-23	1300	2.87	226
6-21	1200	2.04	61	6-22	0130	3.90	566	6-23	2230	2.57	150
6-21	1730	1.91	45	6-22	0700	3.26	342	6-23	2400	2.56	148
6-21	1830	2.02	59	6-22	1730	2.66	171				
6-21	2000	2.53	142	6-22	2130	2.84	218				
6-21	2200	3.92	574	6-22	2400	3.07	283	6-24	0030	2.55	146
6-21	2230	4.01	610					6-24	2400	2.28	94
6-21	2400	3.95	586								

(449) 01643000 MONOCACY RIVER AT JUG BRIDGE NEAR FREDERICK, MD.

LOCATION.--Lat 39°24'13", long 77°21'58", Frederick County, on right bank 0.2 mile upstream from Jug Bridge on U. S. Highway 40, 0.4 mile downstream from Linganore Creek, 2 miles east of Frederick, and 16.9 miles (revised) upstream from mouth.

DRAINAGE AREA.--817 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 0300 hours June 22, when recorder was overtopped by flood, to 1500 hours June 25 for which graph was reconstructed on basis of numerous outside-gage readings, located at site 0.2 mile downstream.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained one or more times daily except June 1, 10-16, 18, 24, 25, 30, July 1-3, 11, 19, 25, 30.

SEDIMENT-DISCHARGE RECORD.--Concentration graph fairly well defined except for days of no samples. Concentration graph estimated for days of no sample.

MAXIMUMS.--June-July 1972: Discharge, 81,600 cfs 0600 hours June 23 (gage height, 35.9 ft, from floodmarks); daily sediment concentration, 942 mg/l June 22; daily sediment discharge, 134,000 tons June 22.
1930 to May 1972: Discharge, 51,000 cfs Aug. 24, 1933 (gage height, 28.1 ft).
Flood in June 1889 reached a stage of 30 ft, from floodmarks (discharge, 56,000 cfs).
1961 to May 1972: Daily sediment concentration, 2,000 mg/l July 10, 1970; daily sediment discharge, 67,000 tons July 10, 1970.

MEAN DISCHARGE, SEDIMENT CONCENTRATION, AND SEDIMENT DISCHARGE, 1972

DAY	JUNE			DAY	JULY		
	DISCHARGE (CFS)	SUSPENDED SEDIMENT			DISCHARGE (CFS)	SUSPENDED SEDIMENT	
		CONCENTRATION (MG/L)	TONS PER DAY			CONCENTRATION (MG/L)	TONS PER DAY
1	2,460	309	2,070	1	2,680	349	2,580
2	1,180	155	494	2	2,060	153	846
3	841	75	170	3	1,920	90	467
4	763	45	93	4	2,080	110	618
5	3,630	522	5,920	5	2,410	139	1,020
6	1,210	174	584	6	2,770	120	934
7	920	65	161	7	2,110	41	234
8	793	47	101	8	1,760	32	152
9	721	38	74	9	1,490	24	97
10	682	34	63	10	1,350	36	131
11	647	30	52	11	1,240	40	134
12	619	28	47	12	1,150	21	65
13	600	25	41	13	1,170	40	126
14	650	22	39	14	1,480	64	268
15	729	21	41	15	1,040	26	73
16	703	23	44	16	1,000	32	91
17	675	27	49	17	2,010	700	3,950
18	668	35	63	18	1,260	230	782
19	676	38	69	19	1,120	70	212
20	651	33	58	20	884	38	91
21	2,810	370	5,340	21	807	35	76
22	52,000	942	134,000	22	746	43	87
23	74,000	375	77,000	23	697	40	75
24	30,000	215	17,400	24	655	26	46
25	7,500	200	4,050	25	615	20	33
26	4,680	190	2,400	26	580	23	36
27	3,410	75	690	27	550	31	46
28	2,770	47	352	28	555	34	51
29	2,860	167	1,720	29	560	34	51
30	4,940	733	10,500	30	550	30	45
				31	550	23	34
TOTAL	204,788		263,644		39,849		13,451
MEAN	6,828		8,790		1,285		434
INCHES	9.32				1.81		
AC-FT	406,191		[a]173		79,039		[a]8.82

a Computed on basis of 70 lb/cu ft deposited unit weight.

(447) 01642400 DOLLYHYDE CREEK AT LIBERTYTOWN, MD.

(Crest-stage station)

LOCATION.--Lat 39°28'55", long 77°13'38", at upstream side of culvert at State Highway 26, 0.9 mile east of Libertytown, Frederick County, and 11 miles northeast of Frederick.

DRAINAGE AREA.--2.7 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 440 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 110 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,620 cfs June 21 (gage height, 13.20 ft, from floodmarks).
1967 to May 1972: Discharge, 760 cfs July 20, 1969 (gage height, 8.88 ft, from floodmarks).

(448) 01642500 LINGANORE CREEK NEAR FREDERICK, MD.

LOCATION.--Lat 39°24'55", long 77°20'00", Frederick County, on left bank 2.4 miles upstream from mouth and 4 miles east of Frederick.

DRAINAGE AREA.--82.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 0100 hours June 22, when recorder was overtopped by flood, to 1330 hours June 27, for which graph was reconstructed on basis of floodmarks and shape of graph for Big Pipe Creek at Bruceville. Altitude of gage is 270 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,500 cfs and by slope-area measurement at 3,260 cfs and by contracted-opening measurement at 20,100 cfs at site 2.6 miles upstream, adjusted for flow from intervening area. Discharge June 22-27 computed on basis of reconstructed graph, weather records, and records for Big Pipe Creek at Bruceville.

MAXIMUMS.--June-July 1972: Discharge, 20,100 cfs about 0400 hours June 22 (gage height, 19.46 ft, from high-water mark in gage house).
1933 to May 1972: Discharge, 4,130 cfs Aug. 13, 1955 (gage height, 11.39 ft); maximum gage height, 12.22 ft June 2, 1946.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	589	372	11...	92	151	21...	961	100
2....	160	290	12...	89	143	22...	11,500	96
3....	133	266	13...	89	157	23...	3,200	93
4....	142	240	14...	108	137	24...	1,100	89
5....	359	360	15...	96	128	25...	800	87
6....	133	261	16...	94	121	26...	550	81
7....	123	248	17...	94	114	27...	440	80
8....	108	191	18...	105	114	28...	335	83
9....	102	176	19...	105	108	29...	657	82
10...	96	163	20...	88	103	30...	1,380	81
						31...		82
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							794	155
RUNOFF,IN INCHES.....							10.77	2.17

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.76	82								
								6-24	1200	5.45	940
				6-22	0100	15.94	11,500	6-24	2000	5.25	840
6-21	0200	2.79	86	6-22	0200	17.9	16,000	6-24	2400	5.40	920
6-21	0800	2.84	92	6-22	0400	19.46	20,100				
6-21	1200	3.27	159	6-22	0800	17.7	15,500				
6-21	1400	3.67	242	6-22	1200	15.8	11,200	6-25	2400	4.85	650
6-21	1600	3.43	191	6-22	2400	11.65	4,890				
6-21	1700	3.57	219								
6-21	1800	4.18	388					6-26	2400	4.36	451
6-21	1900	4.46	486	6-23	1200	9.55	3,270				
6-21	2000	5.58	1,010	6-23	2400	6.80	1,680				
6-21	2200	10.65	3,960					6-27	2400	4.04	342
6-21	2400	14.55	8,990								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0200	2.87	665	6-22	0400	24.9	40,500				
6-20	2400	2.83	645	6-22	1000	26.9	46,500	6-25	1200	9.5	7,050
				6-22	1600	30.0	58,000	6-25	2400	8.22	5,590
				6-22	2400	34.5	76,000				
6-21	1000	2.83	645								
6-21	1400	2.94	702					6-26	1200	7.33	4,610
6-21	1500	3.00	735	6-23	0400	35.6	80,400	6-26	2400	6.71	3,870
6-21	1600	3.09	784	6-23	0600	35.9	81,600				
6-21	1700	3.19	840	6-23	1200	35.2	78,800				
6-21	1900	5.70	2,810	6-23	1800	32.7	68,800	6-27	1200	6.23	3,330
6-21	2000	7.56	4,870	6-23	2400	29.0	54,000	6-27	2400	5.94	3,040
6-21	2200	12.01	10,400								
6-21	2400	17.10	19,600								
				6-24	1200	21.2	29,500	6-28	1200	5.62	2,740
				6-24	2400	12.6	11,300	6-28	2400	5.36	2,500
6-22	0200	22.44	33,100								

(450) 01643500 BENNETT CREEK AT PARK MILLS, MD.

LOCATION.--Lat 39°17'40", long 77°24'30", Frederick County, on left bank 75 ft downstream from highway bridge, 0.2 mile south of Park Mills, 1.8 miles upstream from mouth, and 3.7 miles southwest of Urbana.

DRAINAGE AREA.--62.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 2300 hours June 21 to 1200 hours June 27. Graph reconstructed for June 21 on basis of floodmark. Altitude of gage is 240 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,700 cfs and by contracted-opening measurements at 7,350, 13,000, and 32,200 cfs. Discharge June 22-27 estimated on basis of floodmarks, normal recession curve, and weather records.

MAXIMUMS.--June-July 1972: Discharge, 32,200 cfs about 2400 hours June 21 (gage height, 22.1 ft, from floodmarks).
1949 to May 1972: Discharge, 13,000 cfs Sept. 12, 1971 (gage height, 14.33 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	262	279	11...	58	97	21...	3,200	67
2....	103	236	12...	56	94	22...	5,500	65
3....	88	212	13...	57	106	23...	1,400	63
4....	97	164	14...	64	94	24...	360	60
5....	106	206	15...	63	85	25...	280	59
6....	81	166	16...	67	83	26...	260	55
7....	77	137	17...	65	85	27...	250	55
8....	69	121	18...	70	78	28...	217	58
9....	65	112	19...	66	74	29...	748	57
10...	62	104	20...	57	70	30...	1,080	58
						31...		60
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							498	105
RUNOFF,IN INCHES.....							8.84	1.93

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	1.49	66	6-21	1400	2.91	504	6-21	2100	10.43	6,040
6-21	0800	1.57	81	6-21	1600	2.53	360	6-21	2200	15.60	15,700
6-21	1000	1.80	131	6-21	1800	2.96	524	6-21	2300	21.0	29,300
6-21	1200	2.99	536	6-21	2000	8.06	3,090	6-21	2400	22.1	32,200
6-21	1230	3.26	644								

(451) 01643700 GOOSE CREEK NEAR MIDDLEBURG, VA.

LOCATION.--Lat 38°59'11", long 77°47'49", Loudoun County, on right bank 250 ft upstream from bridge on State Highway 611, 2.0 miles downstream from Panther Skin Creek, and 3.4 miles northwest of Middleburg.

DRAINAGE AREA.--123 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 21-25. Datum of gage is 329.80 ft above mean sea level. October 1965 to September 1967 at site 300 ft downstream at datum 0.73 ft lower.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,900 cfs and by slope-area measurement at 19,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 19,200 cfs June 22 (gage height, 27.46 ft, from floodmarks).
1966-67, 1970 to May 1972: Discharge, 6,920 cfs Aug. 25, 1967 (gage height, 14.44 ft, site and datum then in use).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	178	695	11...	77	176	21...	3,630	101
2....	130	561	12...	76	167	22...	6,270	91
3....	116	574	13...	74	193	23...	1,470	83
4....	105	423	14...	100	154	24...	1,080	71
5....	174	408	15...	113	135	25...	780	65
6....	117	351	16...	91	262	26...	570	58
7....	123	288	17...	97	366	27...	420	56
8....	95	250	18...	95	230	28...	390	65
9....	88	222	19...	119	141	29...	1,050	64
10...	83	200	20...	87	115	30...	1,560	85
						31...		91
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							645	217
RUNOFF, IN INCHES.....							5.85	2.04

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	3.00	93	6-22	0100	27.46	19,200	6-22	1800	10.05	2,430
				6-22	0200	26.90	18,500	6-22	2000	9.52	2,160
				6-22	0300	25.70	16,900	6-22	2200	9.18	1,990
6-21	0600	3.07	101	6-22	0400	23.25	13,700	6-22	2400	8.93	1,870
6-21	1200	3.48	172	6-22	0500	20.50	10,600				
6-21	1400	3.48	172	6-22	0600	16.90	7,020				
6-21	1500	3.55	188	6-22	0700	15.00	5,450	6-23	0300	8.60	1,740
6-21	1600	4.65	495	6-22	0800	14.15	4,860	6-23	0600	8.32	1,630
6-21	1700	9.25	2,020	6-22	0900	13.45	4,390	6-23	0900	8.07	1,530
6-21	1800	12.70	3,920	6-22	1000	12.95	4,060	6-23	1200	7.85	1,455
6-21	1900	16.50	6,680	6-22	1100	12.37	3,720	6-23	1500	7.65	1,400
6-21	2000	20.30	10,300	6-22	1200	11.90	3,440	6-23	1800	7.46	1,340
6-21	2100	24.50	15,400	6-22	1300	11.50	3,220	6-23	2100	7.29	1,290
6-21	2200	26.60	18,100	6-22	1400	11.15	3,030	6-23	2400	7.13	1,240
6-21	2400	27.43	19,200	6-22	1500	10.80	2,840				
				6-22	1600	10.55	2,700				
				6-22	1700	10.30	2,560	6-24	1200	6.55	1,060
								6-24	2400	6.06	918

(452) 01644000 GOOSE CREEK NEAR LEESBURG, VA.

LOCATION.--Lat 39°01'10", long 77°34'40", Loudoun County, on left bank 400 ft upstream from bridge on State Highway 621 at Evergreen Mills, 1.4 miles downstream from Little River, 6.7 miles south of Leesburg, and 10.9 miles upstream from mouth.

DRAINAGE AREA.--332 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 248.93 ft above mean sea level. Jan. 21, 1930, to Nov. 28, 1938, nonrecording gage at site 400 ft downstream at datum 4.20 ft lower.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs and by slope-area measurement at 78,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 78,100 cfs 0800 hours June 22 (gage height, 30.59 ft, from high-water mark in gage house).
1910-12, 1930 to May 1972: Discharge, 35,600 cfs Aug. 26, 1937 and Oct. 16, 1942; gage height, 26.86 ft Aug. 26, 1937, from floodmarks, site and datum then in use.
Flood in May or June 1889 reached a stage of about 29 ft (discharge, about 45,000 cfs), site and datum in use 1930-38, from information by local residents.

(455) 01644250 SOUTH FORK BROAD RUN NEAR ARCOLA, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°56'30", long 77°33'05", Loudoun County, at culvert on U.S. Highway 50, 1.2 miles southwest of Arcola.

DRAINAGE AREA.--4.12 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph except 1430 hours to 2200 hours June 21. Altitude of gage is 290 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 4,180 cfs June 21 (gage height, 16.80 ft from floodmarks).
1966 to May 1972: Discharge, 1,070 cfs Aug. 24, 1967 gage height, 10.80 ft).

(456) 01644264 FRYING PAN BRANCH NEAR HERNDON, VA.

(Miscellaneous site)

LOCATION.--Lat 38°56'30", long 77°24'51", Fairfax County, at Centreville Road, 0.6 mile above mouth, and 2.5 miles southwest of Herndon.

DRAINAGE AREA.--1.50 sq mi.

MAXIMUMS.--June-July 1972: Discharge 1,840 cfs June 21, from flow-through-culvert and flow-over-road measurement. Water-surface elevation, 302.63 ft above mean sea level.

(457) 01644271 HORSEPEN RUN AT SULLY ROAD, NEAR HERNDON, VA.

(Miscellaneous site)

LOCATION.--Lat 38°56'47", long 77°25'47", Fairfax County, at Sully Road, just within Dulles Airport boundary, 0.5 mile upstream from Loudoun County line, and 2.9 miles southwest of Herndon.

DRAINAGE AREA.--7.20 sq mi.

MAXIMUMS.--June-July 1972: Discharge 8,250 cfs June 21, from contracted-opening measurement. Water-surface elevation, 287.38 ft above mean sea level.

(458) 01644272 MERRYBROOK RUN AT SULLY ROAD, NEAR HERNDON, VA.

(Miscellaneous site)

LOCATION.--Lat 38°57'28", long 77°25'45", Fairfax County, at Sully Road, at northeast corner Dulles Airport property, and 2.5 miles southwest of Herndon.

DRAINAGE AREA.--1.43 sq mi.

MAXIMUMS.--June-July 1972: Discharge 1,330 cfs June 21, from flow-through-culvert measurement. Water-surface elevation 281.15 ft above mean sea level.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	813	1,790	11...	197	481	21...	5,270	288
2....	397	1,330	12...	190	442	22...	53,600	263
3....	326	1,920	13...	190	479	23...	7,300	243
4....	284	1,140	14...	231	439	24...	3,050	219
5....	368	991	15...	275	367	25...	1,750	204
6....	304	970	16...	230	394	26...	1,250	190
7....	284	792	17...	256	626	27...	1,000	178
8....	248	690	18...	256	845	28...	950	202
9....	228	614	19...	316	397	29...	1,180	194
10...	215	536	20...	252	327	30...	5,400	219
						31...		263
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							2,890	582
RUNOFF, IN INCHES							9.70	2.02

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.38	272	6-22	0100	26.35	51,800	6-23	0530	13.00	9,140
6-21	1600	2.62	392	6-22	0500	30.10	74,700	6-23	1000	11.00	7,270
6-21	1700	3.06	682	6-22	0800	30.59	78,100	6-23	1300	10.00	6,470
6-21	1730	3.51	1,040	6-22	1100	29.25	68,800	6-23	1800	8.40	5,210
6-21	1800	4.56	2,040	6-22	1500	26.38	51,900	6-23	2400	7.20	4,340
6-21	1930	11.96	8,090	6-22	1900	22.30	33,200				
6-21	2030	16.30	13,900	6-22	2100	19.90	24,000				
6-21	2200	20.56	26,300	6-22	2400	17.20	15,800	6-24	0600	6.20	3,540
6-21	2400	25.03	45,200					6-24	1200	5.63	3,050
								6-24	1800	5.00	2,480
				6-23	0230	15.00	11,700	6-24	2400	4.50	1,980

(453) 01644100 SOUTH FORK SYCOLIN CREEK NEAR LEESBURG, VA.

(Flood-hydrograph station)

LOCATION.--Lat 39°04'15", long 77°36'35", Loudoun County, at culvert on U.S. Highway 15, 3.9 miles southwest of Leesburg.

DRAINAGE AREA.--2.05 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 380 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,130 cfs 1900 hours June 21 (gage height, 12.33 ft).
1966 to May 1972: Discharge, 550 cfs July 22, 1969 (gage height, 8.00 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1630	3.50	110	6-21	2030	11.00	940	6-22	0030	7.20	462
6-21	1700	5.70	300	6-21	2100	10.62	887	6-22	0100	6.41	375
6-21	1730	7.20	462	6-21	2130	10.33	846	6-22	0130	5.50	280
6-21	1800	10.20	828	6-21	2200	9.75	768	6-22	0200	5.02	237
6-21	1830	11.80	1,050	6-21	2230	9.00	670	6-22	0230	4.50	190
6-21	1900	12.33	1,130	6-21	2300	8.68	632	6-22	0300	4.21	164
6-21	1930	11.90	1,070	6-21	2330	8.55	616	6-22	0330	4.02	147
6-21	2000	11.25	975	6-21	2400	7.92	541	6-22	0400	3.93	140

(454) 01644200 LENAH RUN AT LENAH, VA.

(Crest-stage station)

LOCATION.--Lat 38°57'06", long 77°34'37", Loudoun County, at bridge on U.S. Highway 50 at Lenah.

DRAINAGE AREA.--1.09 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 315 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation not defined.

MAXIMUMS.--June-July 1972: Stage, 8.46 ft June 21.
1962 to May 1972: Stage, 4.34 ft Sept. 3, 1969.

(459) 01644291 STAVE RUN NEAR RESTON, VA.

LOCATION.--Lat 38°56'56", long 77°22'16", Fairfax County, on left bank 0.31 mile upstream from mouth and 1.4 miles southwest of Sunset Hills in Reston.

DRAINAGE AREA.--0.08 sq mi (49.1 acres).

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water stage recorder graph. Datum of gage is 367.25 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 41 cfs and extended above by logarithmic plotting.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained 3 to 39 times daily except for the following baseflow periods: June 1-3, 5-12, 14-16, 18-19, 24-28, July 1-2, 4-31.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined except for days of no samples.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily mean concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 21, 1930 hours	87	1.84	--	--
June 21	--	--	6,240	459
June 29, 1930 hours	73	1.75	--	--
June 29,	--	--	1,200	89
June 30, 1545 hours	38	1.45	--	--
June 30	--	--	865	22
July 3, 1645 hours	59	1.64	--	--
July 3	--	--	660	39
1967 to May 1972:				
October 25, 1972	55	1.61	--	--
October 25, 1972	--	--	5,330	105

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	June			July		
	Mean discharge (cfs)	Suspended sediment Mean concentration (mg/l)	Suspended sediment Tons per day	Mean discharge (cfs)	Suspended sediment Mean concentration (mg/l)	Suspended sediment Tons per day
1	.05	20	0	.04	30	0
2	.05	10	0	.05	30	.01
3	.05	10	0	.74	660	39
4	.10	364	.85	.03	30	0
5	.05	20	0	.03	10	0
6	.04	10	0	.03	9	0
7	.04	10	0	.03	7	0
8	.04	10	0	.02	6	0
9	.04	5	0	.02	5	0
10	.04	5	0	.02	4	0
11	.04	5	0	.02	3	0
12	.04	5	0	.02	2	0
13	.15	617	3.9	.02	2	0
14	.04	20	0	.02	2	0
15	.04	5	0	.02	2	0
16	.04	5	0	.02	2	0
17	.12	180	.20	.01	2	0
18	.05	20	0	.01	2	0
19	.04	10	0	.01	2	0
20	.15	530	1.0	.01	2	0
21	12	6,240	459	.01	2	0
22	3.7	2,050	26	.01	2	0
23	1.7	850	7.4	.01	2	0
24	.10	60	.02	.01	2	0
25	.05	30	0	.01	2	0
26	.05	20	0	.01	2	0
27	.05	10	0	.01	2	0
28	.04	5	0	.01	2	0
29	1.9	1,200	89	.01	2	0
30	.82	865	22	.03	10	0
31	--	--	--	.02	5	0
Total	21.62		609.37	1.31	--	39.01
Mean	.72			.04		
Inches	10.05			.61		
Ac-ft	42.88		a .40	2.60		a .03

a Computed on basis of 70 lb/cu ft deposited unit weight.

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second
June 20					June 21				
1600	.03	.04	10	--	1815	1.16	20	12,000	.008
1730	.14	.37	1,200	--	1845	.88	11	6,600	.002
1800	.28	1.2	9,000	.0003	1900	1.40	33	10,000	.01
1830	.18	.57	3,000	--	1925	1.78	77	23,700	.06
2000	.10	.21	800	--	2000	1.62	56	22,000	.04
2100	.17	.51	1,700	--	2100	1.53	46	18,000	.03
2300	.10	.21	400	--	2200	1.36	31	8,100	.008
2400	.12	.29	1,000	--	2300	1.29	26	7,300	.006
					2400	.97	14	3,400	.001
June 21									
0545	.08	.57	200	--	June 22				
0600	.41	2.4	25,500	.002	0100	.85	10	3,500	.001
0615	.82	9.6	23,000	.007	0300	.63	5.6	2,500	.0004
0630	.42	2.5	9,200	.0007	0500	.52	3.8	1,500	.0002
0700	.36	1.9	5,700	.0003	0700	.70	7.0	3,200	.0007
0800	.25	1.0	2,700	.0001	0800	.51	3.7	1,200	.0001
0900	.20	.68	1,400	--	1300	.30	1.4	900	--
0930	.55	4.3	15,000	.002	1530	.36	1.9	1,200	.0001
1000	.40	2.3	6,500	.0005	1900	.40	2.3	1,200	.0001
1100	.23	.88	2,500	.0001	2030	.46	3.0	2,800	.0003
1430	.18	.57	800	--	2200	.63	5.6	5,200	.0009
1500	.33	1.6	4,000	.0002	2400	.55	4.3	3,200	.0004
1530	.55	4.3	11,000	.002					
1600	1.10	18	19,000	.011	June 23				
1630	.87	11	10,000	.003	0600	.53	4.0	2,400	.0003
1645	1.29	26	12,000	.01	0900	.40	2.3	800	.0001
1715	1.51	44	20,500	.03	1200	.25	1.0	400	--
1745	1.14	20	9,000	.006	2400	.19	.62	200	--

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Percent in size class indicated, in millimeters: Sand (greater than .062)	Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 21	0720	--	1.0	170	2,150	5.8	5	36
June 21	1455	20.5	2.0	235	4,240	23	2	43
June 21	1625	--	10	81	10,800	292	22	48
June 21	1627	--	10	84	8,970	242	7	54
June 21	1805	--	22	37	7,930	471	10	54
June 21	1928	--	88	43	24,300	5,770	10	60
June 21	2355	--	12	--	3,630	118	8	49

Gage height, discharge, sediment concentration, and sediment discharge, at indicated time, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second
June 20					June 22				
1530	3.03	.12	15	0	0030	4.37	69	450	.001
1630	3.06	.16	140	0	0100	4.30	61	470	.0009
1700	3.10	.24	180	.000001	0130	4.25	55	520	.0009
1800	3.17	.43	300	.000004	0200	4.18	48	720	.001
1830	3.30	1.0	460	.00001	0230	4.06	36	740	.0008
1900	3.33	1.2	600	.00002	0330	4.01	31	480	.0005
1930	3.39	1.7	750	.00004	0400	3.93	23	420	.0003
2000	3.36	1.5	740	.00004	0500	3.84	16	380	.0002
2030	3.31	1.1	530	.00002	0530	3.86	17	440	.0002
2200	3.27	.85	380	.00001	0600	3.97	27	570	.0005
2400	3.24	.68	310	.000007	0630	4.11	41	630	.0008
					0700	4.18	48	660	.001
June 21					0730	4.14	44	760	.001
0600	3.21	.56	250	.000004	0800	3.99	29	560	.0005
0615	3.37	1.5	600	.00003	0830	3.78	12	340	.0001
0630	3.55	4.1	1,850	.0002	0900	3.81	14	380	.0002
0700	3.63	6.1	2,750	.0005	1000	3.76	11	350	.0001
0730	3.62	5.8	2,625	.0005	2030	3.68	7.7	200	.00005
0800	3.54	3.9	1,550	.0002	2100	3.69	8.1	180	.00005
0830	3.49	3.0	870	.00008	2130	3.74	10	270	.00008
0930	3.45	2.3	540	.00004	2300	3.84	16	470	.0002
1000	3.54	3.9	2,000	.0002	2400	3.80	13	300	.0001
1030	3.55	4.1	2,225	.0003					
1100	3.53	3.7	875	.0001	June 23				
1200	3.47	2.6	600	.00005	0100	3.77	11	270	.00009
1500	3.38	1.6	390	.00002	0230	3.79	12	310	.0001
1530	3.41	1.9	980	.00006	0330	3.77	11	290	.0001
1600	3.65	6.7	2,430	.0005	0430	3.80	13	330	.0001
1630	4.08	38	3,450	.004	0530	3.80	13	280	.0001
1715	4.28	51	3,420	.005	0630	3.76	11	210	.00007
1730	4.63	99	3,680	.01	0800	3.70	8.5	160	.00004
1800	4.67	104	3,570	.01	1100	3.65	6.7	110	.00002
1900	4.47	77	1,430	.003	1300	3.61	5.6	80	.00001
1915	4.52	86	940	.003	1800	3.54	3.9	75	.000009
1930	5.06	149	1,190	.006	2400	3.47	2.6	60	.000005
2000	5.67	217	2,670	.02					
2030	5.50	198	1,475	.009					
2100	5.45	192	1,110	.007					
2200	5.14	158	770	.004					
2300	5.11	154	670	.003					
2400	4.46	80	460	.001					

Instantaneous suspended sediment and particle size, 1972

Date of collection	Hour	Water temp. (°C)	Discharge (cfs)	Specific conductance (micromhos at 25°C)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second	Percent in size class indicated, in millimeters: Sand (greater than .062)	Percent in size class indicated, in millimeters: Silt and clay (less than .062)
June 21	0715	--	6.[illegible]	47	3,130	52	5	37
June 21	2037	--	200	26	1,150	621	7	39
June 21	2215	--	161	28	766	333	4	39

(461) 01644370 SUGARLAND RUN NEAR DRANESVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 39°00'47", long 77°22'12", Fairfax County, at bridge on Leesburg Turnpike (Route 7), 0.2 mile upstream from Loudoun County line, and 1.5 miles northeast of Dranesville, Va.

DRAINAGE AREA.--13.4 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 227.58 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by theoretical rating.

MAXIMUMS.--June-July 1972: Discharge, 8,800 cfs June 21 (gage height 8.69 ft).
1960 to May 1972: Maximum stage, 4.68 ft July 1969.

(460) 01644295 SMILAX BRANCH AT RESTON, VA.

LOCATION.--Lat 38°57'10", long 77°22'04", Fairfax County, on right bank 100 ft upstream from Dulles Airport Road, 0.4 mile upstream from mouth, 1.6 miles southwest of Reston, and 4.3 miles east of Dulles International Airport.

DRAINAGE AREA.--0.32 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage recorder graph. Datum of gage is 356.59 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 79 cfs and by computation of flow through culvert.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained for June 21-22, no samples for the following periods: June 1-20, 23-30, July 1-31.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined for June 21-22 and estimated for days of no samples.

MAXIMUMS.--Given in the following table.

Date		Discharge (cfs)	Gage height (feet)	Daily mean concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:					
June 21	2015 hours	230	5.79	--	--
June 21		--	--	1080	173
June 29	2015 hours	71	4.38	--	--
June 29		--	--	--	7.2
June 30		--	--	180	--
1967 to May 1972					
May 13, 1971		70	4.38	130	15.5

Mean discharge, sediment concentration, and sediment discharge, 1972

Day	Suspended sediment			Suspended sediment		
	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day	Mean discharge (cfs)	Mean concentration (mg/l)	Tons per day
1	.22	50	.03	1.5	60	.30
2	.12	15	.01	.76	60	.27
3	.09	10	0	1.5	100	1.3
4	.31	70	.33	.81	20	.04
5	.21	50	.04	.57	15	.02
6	.13	15	.01	.46	12	.01
7	.12	10	0	.35	10	.01
8	.08	7	0	.28	10	.01
9	.07	5	0	.25	10	.01
10	.07	5	0	.22	10	.01
11	.07	5	0	.17	10	0
12	.07	5	0	.19	10	.01
13	.24	50	.13	.20	10	.01
14	.16	20	.01	.16	10	0
15	.11	10	0	.13	10	0
16	.08	7	0	.14	10	0
17	.27	110	.16	.14	10	0
18	.18	20	.01	.12	10	0
19	.12	10	0	.11	10	0
20	.34	150	.36	.10	10	0
21	42	1,080	173	.08	8	0
22	19	350	23	.07	8	0
23	6.8	140	3.3	.06	5	0
24	1.5	45	.19	.06	5	0
25	.92	40	.13	.05	5	0
26	.91	75	.28	.04	5	0
27	.45	20	.02	.05	5	0
28	.42	20	.02	.06	5	0
29	3.9	140	7.2	.06	5	0
30	3.8	180	3.1	.10	15	0
31	--	--	--	.09	12	0
Total	82.76	--	211.33	8.88	--	2.00
Mean	2.76	--	--	.29	--	--
Inches	9.62	--	--	1.03	--	--
Ac-ft	164	--	a 0.14	17.6	--	a 0.001

a Computed on basis of 70 lb/cu ft deposited unit weight

(462) 01644420 BUCKLODGE BRANCH TRIBUTARY NEAR BARNESVILLE, MD.

(Crest-stage station)

LOCATION.--Lat 39°12'42", long 77°21'02", at upstream side of culvert at Barnesville Road, 1.6 miles southeast of Barnesville, Montgomery County, and 4.0 miles northwest of Germantown.

DRAINAGE AREA.--0.27 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 460 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 396 cfs June 21 (gage height, 13.75 ft, from flood-marks).
1967 to May 1972: Discharge, 153 cfs Sept. 3, 1969 (gage height, 11.60 ft, from flood-marks).

(463) 01645000 SENECA CREEK AT DAWSONVILLE, MD.

LOCATION.--Lat 39°07'41", long 77°20'13", Montgomery County, on right bank 60 ft downstream from bridge on State Highway 28, 150 ft downstream from mouth of Great Seneca Creek, 0.5 mile east of Dawsonville, and 5.8 miles upstream from mouth.

DRAINAGE AREA.--101 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2300 hours June 21 to 1130 hours June 25. Graph reconstructed for June 21, 22 on basis of high-water mark in gage house and fragmentary record for flood of Sept. 12, 1971. Datum of gage is 214.15 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,000 cfs and by contracted-opening and flow-over-road measurements at 7,330 cfs (at gage) and 25,900 cfs (at site 5.0 miles downstream, adjusted for flow from intervening area). Discharge June 23-25 estimated on basis of weather records and normal recession curve.

MAXIMUMS.--June-July 1972: Discharge, 26,100 cfs about 0200 hours June 22 (gage height, 16.4 ft, from high-water mark in gage house).
1931 to May 1972: Discharge, 25,900 cfs Sept. 12, 1971 (gage height, 16.32 ft, from high-water mark in gage house).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	303	361	11...	124	211	21...	2,840	174
2...	175	569	12...	124	206	22...	9,900	158
3...	159	784	13...	126	376	23...	2,400	145
4...	158	321	14...	147	229	24...	600	136
5...	214	311	15...	134	206	25...	440	132
6...	156	292	16...	128	244	26...	364	125
7...	153	269	17...	135	266	27...	322	121
8...	139	251	18...	136	200	28...	294	127
9...	134	239	19...	142	187	29...	689	127
10...	131	224	20...	129	179	30...	1,500	131
						31...		137
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							747	240
RUNOFF, IN INCHES							8.25	2.74

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.38	142	6-21	2000	8.76	4,430	6-22	0300	16.0	25,100
				6-21	2100	11.22	11,800	6-22	0400	14.6	21,500
				6-21	2200	12.51	15,600	6-22	0800	11.6	12,900
6-21	0600	2.42	155	6-21	2300	13.04	17,100	6-22	1200	9.4	6,150
6-21	1200	2.75	275	6-21	2400	14.8	22,000	6-22	1600	8.1	3,240
6-21	1400	3.30	501					6-22	2000	7.2	2,220
6-21	1600	3.42	551					6-22	2400	7.5	2,510
6-21	1800	4.07	794	6-22	0200	16.4	26,100				

(464) 01645200 WATTS BRANCH AT ROCKVILLE, MD.

LOCATION.--Lat 39°05'03", long 77°10'38", Montgomery County, on left bank 0.2 mile south of State Highway 28, 1.3 miles west of post office in Rockville, and 9.4 miles upstream from mouth.

DRAINAGE AREA.--3.70 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 330 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 170 cfs and by combination of flow through culvert and slope-area measurement of tributary inflow at 2,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,900 cfs 2245 hours June 21 (gage height, 7.22 ft in well, 7.83 ft outside).
1958 to May 1972: Discharge, 1,220 cfs Aug. 14, 1970 (gage height, 6.55 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	7.4	8.8	11...	1.9	5.0	21...	312	3.6
2....	5.0	42	12...	2.0	5.0	22...	183	3.2
3....	3.8	19	13...	3.9	9.0	23...	64	3.1
4....	11	8.0	14...	2.3	5.5	24...	8.9	3.0
5....	3.0	12	15...	2.0	5.0	25...	7.9	3.0
6....	2.1	8.0	16...	2.1	20	26...	5.9	2.8
7....	2.0	6.5	17...	4.7	5.8	27...	5.2	2.9
8....	1.8	10	18...	2.4	4.9	28...	5.5	3.0
9....	1.9	7.0	19...	2.3	4.3	29...	56	2.8
10...	1.9	6.0	20...	3.2	3.7	30...	15	2.9
						31...		2.8
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							24	7.4
RUNOFF, IN INCHES							7.34	2.30

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.28	2.1	6-21	0815	2.05	44				
6-20	1600	1.30	2.5	6-21	0900	1.78	24				
6-20	1630	1.35	3.7	6-21	0930	1.82	27	6-22	0015	7.02	2,080
6-20	1645	1.42	6.0	6-21	1000	2.34	60	6-22	0115	6.42	630
6-20	1700	1.42	6.0	6-21	1015	2.38	62	6-22	0230	5.89	278
6-20	1715	1.49	8.6	6-21	1045	1.84	28	6-22	0415	5.61	239
6-20	2015	1.37	4.3	6-21	1145	1.79	24	6-22	0515	4.33	157
6-20	2145	1.39	4.9	6-21	1315	1.57	12	6-22	0600	3.37	109
6-20	2315	1.35	3.7	6-21	1445	1.48	8.2	6-22	0630	3.66	123
6-20	2345	1.41	5.6	6-21	1515	1.51	9.4	6-22	0645	4.16	148
6-20	2400	1.56	12	6-21	1545	1.90	33	6-22	0745	5.75	257
				6-21	1645	4.98	191	6-22	0830	5.64	243
				6-21	1715	5.32	214	6-22	0945	3.78	129
6-21	0030	1.64	16	6-21	1800	6.09	345	6-22	1030	2.77	82
6-21	0115	1.50	9.0	6-21	1815	6.10	350	6-22	1145	2.12	48
6-21	0200	1.45	7.0	6-21	1845	6.45	675	6-22	1415	1.78	24
6-21	0245	1.49	8.6	6-21	2030	6.04	320	6-22	1745	1.64	16
6-21	0415	1.41	5.6	6-21	2100	5.89	278	6-22	1915	1.64	16
6-21	0600	1.41	5.6	6-21	2200	6.70	1,100	6-22	2015	1.77	23
6-21	0630	1.50	9.0	6-21	2230	7.16	2,640	6-22	2245	3.00	92
6-21	0700	1.71	19	6-21	2245	7.22	2,900	6-22	2345	3.15	98
6-21	0745	2.04	43	6-21	2400	7.07	2,280	6-22	2400	3.37	109

(465) 01645895 DIFFICULT RUN AT WASHINGTON AND OLD DOMINION RAILROAD, NEAR VIENNA, VA.

(Miscellaneous site)

LOCATION.--Lat 38°55'52", long 77°17'55", Fairfax County, at Washington and Old Dominion Railroad bridge and 1.1 miles northwest of Vienna.

DRAINAGE AREA.--24.7 sq mi.

MAXIMUMS.--June-July 1972: Discharge 12,000 cfs June 22 from contracted-opening measurement. Water-surface elevation, 227.0 ft above mean sea level.

(470) 01646500 POTOMAC RIVER NEAR WASHINGTON, D. C.

LOCATION.--Lat 38°56'58", long 77°07'40", Montgomery County, on left bank just above Little Falls Dam, 1 mile upstream from District of Columbia boundary line, 1.2 miles upstream from Chain Bridge, 1.8 miles east of Langley, Fairfax County, Virginia, and at mile 117.4.

DRAINAGE AREA.--11,560 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 37.95 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 359,000 cfs 0330 hours June 24 (gage height, 22.03 ft).
1931 to May 1972: Discharge, 484,000 cfs Mar. 19, 1936 (gage height, 28.1 ft, at site 1 mile upstream on right bank at same datum).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	13,900	49,700	11...	6,310	18,000	21...	17,000	10,800
2....	14,900	43,600	12...	5,980	15,600	22...	172,000	9,520
3....	17,900	35,700	13...	5,620	14,300	23...	268,000	8,800
4....	11,200	27,900	14...	5,600	13,000	24...	334,000	8,170
5....	11,000	23,300	15...	5,730	12,700	25...	200,000	7,720
6....	12,600	23,000	16...	5,790	13,000	26...	79,800	7,180
7....	10,000	25,800	17...	5,810	13,000	27...	47,600	6,920
8....	8,690	32,500	18...	6,400	13,600	28...	35,600	6,600
9....	7,800	26,100	19...	7,490	12,900	29...	30,700	6,440
10...	6,680	21,200	20...	7,160	12,100	30...	47,500	6,440
						31...		6,440
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							46,600	17,200
RUNOFF, IN INCHES							4.50	1.71

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.70	7,000					7-03	0030	6.43	40,800
6-21	1645	3.89	8,710	6-27	0015	7.40	56,500	7-03	2400	5.67	29,500
6-21	2115	4.66	16,400	6-27	2400	6.35	39,600				
6-21	2215	5.58	28,200								
6-21	2400	8.39	74,000					7-04	0030	5.67	29,500
				6-28	0015	6.34	39,400	7-04	2400	5.32	24,600
				6-28	2400	5.79	31,200				
6-22	0400	13.40	170,000								
6-22	1000	14.36	190,000					7-05	0045	5.32	24,600
6-22	2400	14.02	182,000	6-29	2045	5.80	31,300	7-05	2400	5.09	21,600
				6-29	2400	6.03	34,800				
6-23	2400	21.76	352,000					7-06	2400	5.18	22,700
				6-30	1300	7.09	51,200				
				6-30	1330	7.08	51,100				
6-24	0330	22.03	359,000	6-30	2400	6.69	44,700	7-07	1800	5.52	27,400
6-24	2400	18.49	278,000					7-07	2400	5.81	31,500
				7-01	2000	7.11	51,600				
6-25	0015	18.44	277,000	7-01	2400	7.04	50,400	7-08	0815	5.93	33,300
6-25	2400	10.85	120,000					7-08	2400	5.62	28,800
				7-02	0015	7.04	50,400				
6-26	0015	10.77	119,000	7-02	2230	6.35	39,600	7-09	0030	5.62	28,800
6-26	1545	8.00	67,000	7-02	2400	6.41	40,500	7-09	2400	5.17	22,600
6-26	2400	7.42	56,800								

(471) 01646550 LITTLE FALLS BRANCH NEAR BETHESDA, MD.

LOCATION.--Lat 38°57'27", long 77°06'31", Montgomery County, on left bank at downstream side of bridge on Massachusetts Avenue, 0.3 mile downstream from Willett Branch, 1.7 miles upstream from mouth, and 2.0 miles southwest of Bethesda.

DRAINAGE AREA.--4.1 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 169.32 ft above mean sea level (Maryland State Highway Administration bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 630 cfs and by slope-area measurement at 2,120 cfs and velocity-area studies.

MAXIMUMS.--June-July 1972: Discharge, 2,540 cfs 2300 hours June 21 (gage height, 6.62 ft).
1945 to May 1972: Discharge, 2,680 cfs Sept. 14, 1966 (gage height, 6.82 ft).

(466) 01645950 PINEY RUN AT RESTON, VA.

(Miscellaneous site)

LOCATION.--Lat 38°58'49", long 77°19'09", Fairfax County, at culvert on Leesburg Turnpike, 1.5 miles northeast of Lake Anne Village in Reston and 2.1 miles upstream from Captain Hickory Run.

DRAINAGE AREA.--2.06 sq mi.

MAXIMUMS.--June-July 1972: Discharge 1,270 cfs June 21 from flow-through-culvert measurement. Water-surface elevation, 300.60 ft above mean sea level.

(467) 01645975 ROCK RUN NEAR GREAT FALLS, VA.

(Crest-stage station)

LOCATION.--Lat 38°58'16", long 77°14'49", Fairfax County, at bridge on Towlston Road, 0.4 mile upstream from mouth and 1.9 miles southeast of Great Falls.

DRAINAGE AREA.--3.22 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 180.1 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,360 cfs June 21 (gage height, 5.9 ft).
1961 to May 1972: Discharge, 1,200 cfs Sept. 10, 1968 (gage height, 5.2 ft).

(468) 01646000 DIFFICULT RUN NEAR GREAT FALLS, VA.

LOCATION.--Lat 38°58'33", long 77°14'46", Fairfax County, on right bank 300 ft downstream from Rocky Run, 0.7 mile upstream from mouth, and 1.5 miles southeast of Great Falls.

DRAINAGE AREA.--57.9 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 22-27. Datum of gage is 151.30 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,600 cfs and by slope-area measurement at 32,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 32,200 cfs June 22 (gage height, 21.40 ft, from floodmarks).
1935 to May 1972: Discharge, 6,610 cfs Aug. 25, 1967 (gage height, 13.18 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	103	332	11...	44	70	21...	2,520	57
2....	64	128	12...	43	70	22...	25,000	56
3....	56	183	13...	45	82	23...	4,200	54
4....	59	141	14...	67	76	24...	900	52
5....	97	113	15...	52	66	25...	500	49
6....	63	101	16...	46	88	26...	400	46
7....	62	91	17...	52	103	27...	300	46
8....	52	85	18...	56	65	28...	251	48
9....	49	79	19...	50	60	29...	321	47
10...	46	75	20...	52	57	30...	753	54
						31...		57
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,210	85
RUNOFF, IN INCHES							23.32	1.69

(469) 01646200 SCOTT RUN NEAR MCLEAN, VA.

(Crest-stage station)

LOCATION.--Lat 38°57'32", long 77°12'21", Fairfax County, on left bank at bridge on Old Georgetown Pike, 0.8 mile upstream from mouth, and 2.3 miles northwest of McLean.

DRAINAGE AREA.--4.69 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 145.75 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by contracted-opening measurements at 2,800 and 3,560 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,800 cfs June 21 (gage height, 25.0 ft, from highwater profile).
1961 to May 1972: Discharge, 3,560 cfs Sept. 14, 1966 (gage height, 23.30 ft, in gage well; 25.6 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.8	2.4	11...	1.3	1.7	21...	219	1.3
2....	1.9	10	12...	1.3	2.1	22...	95	1.3
3....	1.7	10	13...	4.1	6.0	23...	30	1.2
4....	5.7	2.4	14...	1.6	1.7	24...	3.5	1.2
5....	1.9	3.5	15...	1.4	1.5	25...	3.1	2.0
6....	3.3	2.1	16...	1.4	12	26...	2.6	1.1
7....	1.6	2.1	17...	2.0	1.8	27...	3.8	1.2
8....	1.5	2.3	18...	6.1	1.3	28...	10	1.4
9....	1.5	1.7	19...	1.6	1.3	29...	29	1.3
10...	1.3	1.7	20...	5.3	1.3	30...	7.6	2.2
						31...		2.4
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							15	2.8
RUNOFF, IN INCHES							4.11	0.78

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.62	7.0	6-22	0045	4.21	1,010	6-22	2115	1.98	46
6-21	0130	1.66	9.0	6-22	0100	3.65	725	6-22	2300	2.09	71
6-21	0500	1.57	5.0	6-22	0115	2.57	237	6-22	2345	1.94	39
6-21	0645	1.53	3.6	6-22	0130	2.10	73	6-22	2400	1.93	37
6-21	0945	1.66	9.0	6-22	0200	1.97	45				
6-21	1100	1.71	12	6-22	0215	2.36	151				
6-21	1345	1.69	11	6-22	0230	2.44	181	6-23	0230	2.01	52
6-21	1530	1.65	8.5	6-22	0245	2.04	59	6-23	0245	2.01	52
6-21	1630	1.74	14	6-22	0300	2.07	66	6-23	0315	2.18	95
6-21	1645	1.78	17	6-22	0315	1.98	46	6-23	0430	2.13	81
6-21	1700	1.87	28	6-22	0330	2.23	109	6-23	0500	2.19	97
6-21	1715	2.21	103	6-22	0345	2.31	134	6-23	0515	2.18	95
6-21	1730	2.26	118	6-22	0400	2.25	115	6-23	0645	2.07	66
6-21	1745	2.05	62	6-22	0430	2.21	103	6-23	0730	2.06	64
6-21	1800	1.97	45	6-22	0515	2.03	57	6-23	0900	1.89	31
6-21	1815	1.96	43	6-22	0545	1.98	46	6-23	1100	1.77	17
6-21	1830	2.22	106	6-22	0615	2.15	87	6-23	1345	1.67	9.5
6-21	1930	1.96	43	6-22	0630	2.28	124	6-23	1515	1.64	8.0
6-21	2015	1.98	46	6-22	0645	2.60	250	6-23	1800	1.59	5.5
6-21	2030	2.04	59	6-22	0700	2.01	52	6-23	2300	1.55	4.0
6-21	2045	2.19	97	6-22	0730	2.15	87	6-23	2400	1.54	3.7
6-21	2130	2.02	55	6-22	0745	1.96	43				
6-21	2145	3.81	805	6-22	0815	1.98	46				
6-21	2200	6.24	2,280	6-22	0830	2.36	151	6-24	0915	1.52	3.1
6-21	2215	5.98	2,100	6-22	0845	2.26	118	6-24	1815	1.49	2.5
6-21	2245	6.49	2,450	6-22	0915	2.16	89	6-24	2130	1.49	2.5
6-21	2300	6.62	2,540	6-22	1000	1.98	46	6-24	2145	1.52	3.1
6-21	2330	6.03	2,130	6-22	1100	1.86	27	6-24	2200	1.71	12
6-21	2345	5.06	1,490	6-22	1215	1.79	18	6-24	2230	1.59	5.5
6-21	2400	4.66	1,250	6-22	1515	1.68	10	6-24	2245	1.56	4.5
				6-22	1815	1.64	8.0	6-24	2315	1.56	4.5
				6-22	1915	1.68	10	6-24	2330	1.74	14
6-22	0015	4.62	1,220	6-22	2000	1.74	14	6-24	2345	1.75	15
6-22	0030	4.06	930	6-22	2045	1.90	32	6-24	2400	1.68	10

(472) 01647685 WILLIAMSBURG RUN NEAR OLNEY, MD.

LOCATION.--Lat 39°08'32", long 77°05'48", Montgomery County, on right bank 200 ft downstream from vehicle bridge on golf course of Norbeck Country Club, 0.2 mile downstream from Cashell Road, 0.5 mile upstream from mouth, and 1.8 miles southwest of Olney.

DRAINAGE AREA.--2.25 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2330 hours June 21 to 0800 hours June 22, for which graph was reconstructed on basis of high-water mark and one staff-gage reading. Altitude of gage is 390 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 300 cfs and by slope-area measurements at 1,140 and 3,110 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,110 cfs 2400 hours June 21 (gage height, 8.26 ft, from high-water mark in gage house).
1967 to May 1972: Discharge, 1,140 cfs Aug. 3, 1971 (gage height, 5.90 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3.9	4.6	11...	1.7	3.0	21...	293	1.8
2....	2.6	72	12...	1.7	2.6	22...	250	1.7
3....	2.2	15	13...	1.7	6.0	23...	46	1.6
4....	9.2	6.0	14...	2.0	3.5	24...	7.0	1.5
5....	3.8	4.0	15...	1.8	2.8	25...	5.4	1.5
6....	2.5	3.2	16...	1.7	14	26...	3.9	1.5
7....	2.4	2.8	17...	2.1	4.4	27...	2.9	1.6
8....	2.0	13	18...	2.1	2.8	28...	2.6	1.5
9....	1.9	4.0	19...	2.0	2.2	29...	49	1.5
10...	1.8	3.4	20...	2.2	2.0	30...	11	1.5
						31...		1.5
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							24	6.1
RUNOFF,IN INCHES.....							11.94	3.12

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.51	8.4	6-21	1900	5.08	676	6-22	0200	5.41	830
				6-21	2000	4.38	414	6-22	0400	4.76	538
				6-21	2100	3.59	230	6-22	0600	2.76	113
6-21	0200	1.50	7.8	6-21	2200	6.19	1,300	6-22	0700	1.96	38
6-21	0400	1.42	4.0	6-21	2230	7.60	2,440	6-22	0800	2.69	106
6-21	0600	1.39	2.8	6-21	2300	7.61	2,450	6-22	0900	2.90	129
6-21	0800	1.48	6.9	6-21	2330	7.81	2,640	6-22	1000	2.58	97
6-21	1000	1.92	36	6-21	2400	8.26	3,110	6-22	1200	1.91	34
6-21	1200	1.69	19					6-22	1400	1.72	21
6-21	1400	1.57	12					6-22	1600	1.64	15
6-21	1500	1.52	8.9	6-22	0015	8.20	3,040	6-22	2000	1.58	12
6-21	1600	1.68	19	6-22	0045	7.20	2,090	6-22	2200	1.80	26
6-21	1700	2.62	101	6-22	0100	6.55	1,570	6-22	2400	2.41	82
6-21	1800	3.55	224								

(473) 01647720 NORTH BRANCH ROCK CREEK NEAR NORBECK, MD.

LOCATION.--Lat 39°06'59", long 77°06'09", Montgomery County, on left bank 550 ft downstream from bridge on Muncaster Mill Road (State Highway 115), 0.7 mile upstream from Manor Run, 1.5 miles northwest of Norbeck, and 2 miles upstream from mouth.

DRAINAGE AREA.--9.73 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 12 to June 19 and 2300 hours June 21 when recorder was submerged to July 11. Gage submerged by backwater from Lake Frank June 22-25. Altitude of gage is 320 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 400 cfs and computation of flow through culvert and flow over road at 10,100 cfs. Discharge June 12-19 and June 22 to July 11 estimated on basis of records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 10,100 cfs about 0100 hours June 22 (gage height, 14.1 ft, from floodmarks).
1967 to May 1972: Discharge, 1,030 cfs Feb. 13, 1971 (gage height, 5.86 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	18	22	11...	7.0	13	21...	388	9.0
2....	12	110	12...	6.6	13	22...	1,540	8.5
3....	9.7	120	13...	7.6	22	23...	200	8.0
4....	20	26	14...	8.4	14	24...	41	7.8
5....	18	20	15...	7.0	13	25...	25	7.5
6....	10	18	16...	6.8	62	26...	20	7.2
7....	9.8	16	17...	8.4	26	27...	16	7.0
8....	8.4	30	18...	10	15	28...	18	7.0
9....	7.7	17	19...	8.6	11	29...	90	7.4
10...	7.2	14	20...	8.7	9.5	30...	108	7.4
						31...		7.0
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							88	22
RUNOFF,IN INCHES.....							10.11	2.58

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	153	309	11...	56	139	21...	950	75
2....	103	366	12...	53	121	22...	5,000	67
3....	93	940	13...	55	162	23...	1,200	63
4....	99	332	14...	75	106	24...	900	59
5....	154	281	15...	51	92	25...	860	56
6....	85	252	16...	49	238	26...	820	53
7....	77	227	17...	66	256	27...	600	52
8....	69	216	18...	104	126	28...	330	54
9....	66	189	19...	59	104	29...	682	51
10...	61	166	20...	60	86	30...	744	55
						31...		51
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							456	172
RUNOFF,IN INCHES.....							8.18	3.20

(476) 01649100 PAINT BRANCH AT INTERSTATE HIGHWAY 495 NEAR COLLEGE PARK, MD.
(Miscellaneous site)

LOCATION.--Lat 39°01'15", long 76°56'45", Prince Georges County, at culvert on eastbound Interstate Highway 495 (Capital Beltway), 1.2 miles upstream from Little Paint Branch, 2.5 miles southwest of Beltsville, and 2.8 miles northwest of College Park.

DRAINAGE AREA.--16.5 sq mi.

DISCHARGE RECORD.--Maximum discharge by computation of flow through culvert.

MAXIMUM.--June-July 1972: Discharge, 6,410 cfs.

(477) 01649500 NORTHEAST BRANCH ANACOSTIA RIVER AT RIVERDALE, MD.

LOCATION.--Lat 38°57'37", long 76°55'34", Prince Georges County, on right bank 200 ft downstream from bridge on Riverdale Road, in Riverdale, 1.8 miles downstream from Indian Creek, and 1.8 miles upstream from confluence with Northwest Branch.

DRAINAGE AREA.--72.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 12.68 ft above mean sea level (Washington Suburban Sanitary Commission bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,800 cfs and by contracted-opening and slope-area measurements at 10,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 10,600 cfs 0530 hours June 22 (gage height, 9.52 ft).
1933 to May 1972: Discharge, 10,500 cfs Aug. 23 or 24, 1933 (gage height, about 15.5 ft, from floodmarks, at site 200 ft upstream at datum 14.00 ft above mean sea level).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	144	327	11...	38	67	21...	781	66
2....	64	215	12...	38	64	22...	4,700	59
3....	53	422	13...	42	289	23...	1,350	51
4....	91	313	14...	52	98	24...	362	51
5....	214	152	15...	43	73	25...	256	52
6....	95	122	16...	40	263	26...	145	49
7....	71	103	17...	47	265	27...	111	44
8....	52	101	18...	91	102	28...	338	46
9....	45	90	19...	69	79	29...	399	47
10...	43	76	20...	57	75	30...	747	54
						31...		55
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							353	125
RUNOFF,IN INCHES.....							5.40	1.98

(474) 01647725 MANOR RUN NEAR NORBECK, MD.

LOCATION.--Lat 36°06'36", long 77°06'00", Montgomery County, on left bank 100 ft downstream from ford on farm lane, 0.5 mile upstream from mouth, and 1.2 miles west of Norbeck.

DRAINAGE AREA.--1.01 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2300 hours June 21 to 1800 hours June 27. Gage-height graph for June 21 reconstructed on basis of staff-gage readings. Altitude of gage is 330 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 220 cfs and by slope-area measurement of peak flow. Discharge June 23-27 estimated on basis of records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 909 cfs 2230 hours June 21 (gage height, 5.12 ft).
1967 to May 1972: Discharge, 536 cfs Aug. 3, 1971 (gage height, 4.67 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	.83	1.5	11...	.49	.74	21...	102	.72
2....	.68	37	12...	.49	.75	22...	59	.67
3....	.62	3.2	13...	.57	2.2	23...	15	.66
4....	4.8	1.3	14...	.53	.85	24...	2.5	.66
5....	1.0	1.5	15...	.53	.78	25...	1.5	.64
6....	.68	1.3	16...	.49	17	26...	1.0	.61
7....	.62	1.1	17...	.83	1.8	27...	.81	.61
8....	.53	.96	18...	.68	.97	28...	.89	.58
9....	.53	.92	19...	.57	.82	29...	29	.57
10...	.49	.82	20...	.83	.73	30...	6.8	.57
						31...		.57
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							7.8	2.7
RUNOFF,IN INCHES							8.66	3.06

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	0.89	2.2	6-21	1700	1.91	70	6-22	0100	4.12	346
				6-21	1730	1.99	78	6-22	0200	2.85	160
				6-21	1800	2.77	152	6-22	0230	2.95	169
6-21	0100	0.97	4.3	6-21	1830	3.87	289	6-22	0300	2.80	155
6-21	0300	0.88	2.0	6-21	1845	4.02	320	6-22	0400	2.05	84
6-21	0500	0.83	1.2	6-21	1900	3.66	251	6-22	0500	1.65	46
6-21	0700	0.81	1.0	6-21	2000	1.99	78	6-22	0600	1.50	33
6-21	0800	0.82	1.2	6-21	2100	1.62	44	6-22	0700	2.00	79
6-21	0900	0.96	4.0	6-21	2130	3.58	238	6-22	0800	2.10	89
6-21	1000	1.35	22	6-21	2200	4.91	679	6-22	0900	1.65	46
6-21	1100	1.11	8.6	6-21	2230	5.12	909	6-22	1000	1.40	25
6-21	1300	0.99	4.9	6-21	2300	5.00	760	6-22	1200	1.15	10
6-21	1500	0.91	2.7	6-21	2400	4.93	697	6-22	1600	1.05	6.7
6-21	1600	1.12	9.1					6-22	2000	0.98	4.6
6-21	1630	1.99	78					6-22	2400	0.93	3.2

(475) 01648000 ROCK CREEK AT SHERRILL DRIVE, WASHINGTON, D. C.

LOCATION.--Lat 38°58'21", long 77°02'25", District of Columbia, on left bank 125 ft downstream from new Sherrill Drive Bridge in Rock Creek Park in Washington, and 7.5 miles upstream from mouth.

DRAINAGE AREA.--62.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2330 hours June 21 to 1100 hours June 27. Graph reconstructed for June 21 on basis of floodmark.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,400 cfs and by contracted-opening measurements at 7,220 and 12,500 cfs. Discharge June 22-27 estimated on basis of floodmark, normal recession curve, records for station below Lake Frank and weather records.

MAXIMUMS.--June-July 1972: Discharge, 12,500 cfs about 0300 hours June 22 (gage height, 16.2 ft, from floodmark).
1930 to May 1972: Discharge, 7,220 cfs July 21, 1956 (gage height, 13.19 ft).

REMARKS.--Flow affected by two reservoirs upstream; Needwood Lake on Rock Creek since Sept. 1966 and Bernard Frank Lake on North Branch Rock Creek since Feb. 1968. Total drainage area above lakes about 25 sq mi.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.71	102	6-22	0745	8.08	6,880	6-28	0715	1.68	94
6-21	0645	1.62	78	6-22	1845	4.79	2,150	6-28	0730	1.97	179
6-21	0715	1.70	99	6-22	2230	4.27	1,630	6-28	0745	2.38	337
6-21	0730	1.67	91	6-22	2400	4.39	1,750	6-28	0800	2.44	364
6-21	0800	1.86	143					6-28	0830	3.46	972
6-21	0845	1.86	143					6-28	1015	3.17	771
6-21	0915	1.90	155	6-23	0415	4.71	2,070	6-28	1145	2.82	559
6-21	0930	2.16	248	6-23	0545	4.59	1,950	6-28	2115	2.15	244
6-21	1000	2.04	203	6-23	1745	3.37	909	6-28	2400	2.08	218
6-21	1100	2.18	255	6-23	2400	2.94	629				
6-21	1145	2.36	329								
6-21	1230	2.36	329					6-29	0430	2.02	196
6-21	1545	2.25	283	6-24	0015	2.94	629	6-29	0815	2.09	221
6-21	1645	2.63	457	6-24	1115	2.38	337	6-29	1045	2.11	229
6-21	1715	3.10	725	6-24	2230	2.14	240	6-29	1630	2.33	316
6-21	1730	3.11	732	6-24	2400	2.14	240	6-29	2030	2.15	244
6-21	1900	5.01	2,370					6-29	2045	2.71	499
6-21	2045	4.56	1,920					6-29	2115	3.10	725
6-21	2200	5.24	2,620	6-25	0045	2.37	333	6-29	2145	3.68	1,130
6-21	2315	5.79	3,280	6-25	0530	2.38	337	6-29	2245	4.45	1,810
6-21	2400	5.99	3,540	6-25	0900	2.26	287	6-29	2300	4.49	1,850
				6-25	2400	1.94	169	6-29	2400	4.14	1,520
6-22	0145	7.58	5,880								
6-22	0245	7.72	6,140	6-26	0130	1.94	169	6-30	0015	4.20	1,570
6-22	0345	8.48	7,790	6-26	2400	1.79	122	6-30	0415	3.24	818
6-22	0400	7.52	5,780					6-30	1645	2.58	431
6-22	0530	9.52	10,600					6-30	1745	3.16	764
6-22	0545	8.81	8,610	6-27	0215	1.79	122	6-30	1830	3.85	1,270
6-22	0600	9.23	9,740	6-27	2400	1.69	96	6-30	2030	3.06	701
6-22	0615	8.51	7,860					6-30	2400	2.81	554
6-22	0715	8.70	8,320								

(478) 01650050 NORTHWEST BRANCH ANACOSTIA RIVER AT NORWOOD, MD.

LOCATION.--Lat 39°07'36", long 77°01'15", Montgomery County, on left bank 20 ft downstream from bridge on Ednor Road, 0.2 mile downstream from tributary, 0.4 mile east of Norwood, 1.6 miles south of Sandy Spring, and 19 miles upstream from confluence with Northeast Branch.

DRAINAGE AREA.--2.45 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2245 hours June 21 to 0030 hours June 22, for which graph was reconstructed on basis of high-water mark in gage well. Altitude of gage is 360 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 280 cfs and by flow-through-culvert and flow-over-road measurements at 1,500 and 3,750 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,750 cfs about 2300 hours June 21 (gage height, 6.24 ft, from high-water mark in gage well).
1967 to May 1972: Discharge, 1,500 cfs Aug. 3, 1971 (gage height, 5.43 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3.0	4.7	11...	1.5	2.4	21...	265	2.1
2....	2.2	44	12...	1.5	2.3	22...	274	2.0
3....	1.9	13	13...	1.6	7.2	23...	75	1.7
4....	13	4.7	14...	1.8	2.9	24...	6.5	1.6
5....	4.4	4.1	15...	1.6	2.3	25...	5.1	1.6
6....	2.6	3.7	16...	1.5	70	26...	3.5	1.6
7....	2.3	3.2	17...	2.3	8.6	27...	2.8	1.6
8....	1.8	20	18...	2.0	4.0	28...	2.7	1.6
9....	1.7	4.4	19...	2.0	2.9	29...	52	1.6
10...	1.6	3.1	20...	1.7	2.3	30...	14	1.6
						31...		1.7
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							25	7.4
RUNOFF,IN INCHES							11.42	3.47

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	0.80	2.4	6-21	1930	3.90	428	6-22	0400	4.01	457
				6-21	2000	3.01	264	6-22	0600	2.16	170
				6-21	2100	1.66	118	6-22	0700	1.81	137
6-21	0200	0.82	2.9	6-21	2200	4.24	529	6-22	0800	2.49	201
6-21	0400	0.83	3.2	6-21	2230	5.86	2,400	6-22	0900	2.43	195
6-21	0600	0.82	2.9	6-21	2245	6.15	3,300	6-22	1000	1.76	131
6-21	0800	0.84	3.5	6-21	2300	6.24	3,750	6-22	1200	1.34	55
6-21	1000	1.06	16	6-21	2330	6.07	3,010	6-22	1400	1.19	29
6-21	1200	1.12	21	6-21	2400	6.10	3,100	6-22	1600	1.13	22
6-21	1400	0.98	10					6-22	1800	1.08	18
6-21	1600	0.95	8.6					6-22	2000	1.03	14
6-21	1700	1.45	80	6-22	0030	5.90	2,500	6-22	2200	1.17	27
6-21	1800	2.24	178	6-22	0100	5.48	1,570	6-22	2400	2.24	178
6-21	1900	3.70	382	6-22	0200	4.87	849				

(479) 01650085 NURSERY RUN AT CLOVERLY, MD.

LOCATION.--Lat 39°07'05", long 77°00'24", Montgomery County, on left bank 300 ft upstream from culvert on Bryants Nursery Road, 350 ft upstream from mouth, 0.8 mile northwest of Cloverly, and 2.4 miles southeast of Sandy Spring.

DRAINAGE AREA.--0.35 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 400 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 30 cfs and computation of flow through culvert and flow-over-road at 260 cfs and by slope-area measurement at 695 cfs.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph June 21-22 based on numerous samples.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined June 21 and poorly defined June 22.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily mean concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 21, 2315 hours	695	4.85	-	-
June 21	-	-	462	167
1967 to May 1972 (Sediment, partial record, maximum observed):				
June 18, 1969	-	-	428	-
Aug. 3, 1971	260	3.56	-	76

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	.56	.78	11...	.32	.51	21...	43	.46
2....	.41	2.3	12...	.31	.55	22...	26	.44
3....	.37	1.2	13...	.35	.88	23...	3.8	.42
4....	.96	.79	14...	.37	.55	24...	.98	.39
5....	.65	.80	15...	.33	.50	25...	.98	.39
6....	.48	.73	16...	.30	1.7	26...	.80	.37
7....	.42	.64	17...	.47	.80	27...	.65	.39
8....	.37	.75	18...	.48	.58	28...	.68	.41
9....	.34	.62	19...	.40	.52	29...	2.8	.42
10...	.33	.56	20...	.38	.48	30...	1.2	.42
						31...		.41
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							3.0	.67
RUNOFF, IN INCHES							9.51	2.21

(481) 01650450 BEL PRE CREEK AT LAYHILL, MD.

LOCATION.--Lat 39°05'27", long 77°03'11", Montgomery County, on right bank 130 ft upstream from bridge on Bel Pre Road, 0.5 mile west of Layhill, 1.2 miles upstream from Lutes Run, 1.8 miles southeast of Norbeck, and 2.9 miles upstream from mouth.

DRAINAGE AREA.--1.69 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2200 hours June 21 to 1400 hours June 25. Gage-height graph for June 21-22 reconstructed on basis of high-water mark in gage house and several staff-gage readings. Altitude of gage is 350 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 210 cfs and computations of flow through culvert at 1,030 and 1,930 cfs.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph June 21-22 based on numerous samples.

SEDIMENT-DISCHARGE RECORD.--Concentration graph fairly well defined June 21-22.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily mean concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 21, about 2300 hours	1,930	a 10.47	-	-
June 21	-	-	1,540	2,400
1963 to May 1972 (Sediment, partial record, maximum observed):				
Aug. 26, 1965	-	-	-	893
Aug. 3, 1971	1,030	8.49	-	-
Sept. 11, 1971	-	-	3,350	-

a From high-water mark in gage house.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1.7	2.6	11...	.44	.66	21...	197	.61
2....	.75	35	12...	.44	.66	22...	184	.62
3....	.66	21	13...	1.5	5.6	23...	3.0	.52
4....	7.4	4.2	14...	2.9	.78	24...	1.5	.49
5....	2.4	2.4	15...	.65	.64	25...	4.0	.67
6....	.81	1.6	16...	.78	21	26...	3.4	.52
7....	.65	1.4	17...	1.3	3.7	27...	2.3	.52
8....	.50	1.3	18...	1.5	.79	28...	2.6	.66
9....	.44	1.2	19...	.66	.62	29...	34	.74
10...	.44	.94	20...	1.8	.60	30...	15	1.0
						31...		1.2
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							16	3.7
RUNOFF, IN INCHES							10.44	2.51

GAGE HEIGHT, DISCHARGE, SEDIMENT CONCENTRATION, AND SEDIMENT DISCHARGE, AT INDICATED TIME, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second
June 20					June 21				
2400	1.89	11	20	.000007	2230	9.60	1,540	6,750	.33
					2300	10.47	1,930	4,850	.29
June 21					2330	10.10	1,770	3,750	.21
0200	1.75	6.8	20	.000004	2400	10.30	1,860	4,450	.26
0400	1.62	3.5	15	.000002					
0600	1.58	2.7	10	.0000008	June 22				
0700	1.59	2.9	10	.0000009	0030	10.25	1,850	4,000	.23
0800	1.80	8.3	1,200	.0003	0100	9.65	1,580	3,150	.16
0900	2.05	17	1,650	.0008	0200	6.75	416	2,200	.03
1000	2.15	22	950	.0006	0300	5.23	180	1,870	.01
1030	2.20	24	1,400	.001	0400	5.10	167	1,450	.007
1200	1.93	13	670	.0003	0500	4.35	100	950	.003
1400	1.77	7.4	270	.00006	0600	4.10	81	750	.002
1500	1.73	6.2	170	.00003	0700	4.50	112	1,500	.005
1600	2.23	25	1,100	.0008	0800	4.80	137	1,150	.005
1630	2.96	71	2,850	.006	0900	4.75	132	850	.004
1700	3.79	140	2,500	.01	1000	4.35	100	650	.002
1730	3.95	152	5,000	.02	1200	3.75	57	400	.0007
1800	4.46	189	4,650	.03	1400	3.50	42	250	.0003
1900	5.51	267	4,300	.03	1600	3.25	29	170	.0002
1930	4.74	206	3,400	.02	1800	3.05	19	100	.00006
2000	4.37	182	2,550	.01	2000	2.90	12	50	.00002
2030	4.31	178	1,900	.01	2100	2.80	7.8	50	.00001
2100	4.46	188	1,450	.008	2200	2.95	15	40	.00002
2130	5.40	257	2,400	.02	2300	3.65	50	400	.0006
2200	8.08	816	6,300	.16	2400	4.15	85	500	.001

GAGE HEIGHT, DISCHARGE, SEDIMENT CONCENTRATION, AND SEDIMENT DISCHARGE, AT INDICATED TIME, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment: Concentration (mg/l)	Suspended sediment: Tons per second
June 20					June 21				
2400	1.76	.59	5	.0000001	2230	4.13	430	2,150	.03
June 21					2315	4.85	700	1,060	.02
0200	1.79	.80	10	.0000002	2400	4.16	441	900	.01
0700	1.76	.59	5	.0000001	June 22				
0800	1.78	.72	15	.0000004	0030	4.39	522	1,700	.03
0900	1.92	2.1	400	.00003	0100	3.07	124	880	.003
1000	1.89	1.8	250	.00001	0020	2.37	28	400	.0003
1030	1.96	2.6	300	.00002	0300	2.42	32	600	.0005
1200	1.85	1.4	170	.000007	0600	2.07	8.8	150	.00002
1600	1.83	1.2	60	.000002	0700	2.05	7.4	230	.00003
1700	2.06	4.2	950	.0001	0730	2.17	13	500	.0001
1730	2.06	4.2	600	.0001	0900	2.17	13	190	.00004
1830	2.39	24	2,200	.001	1200	1.93	3.5	70	.000005
1930	2.15	6.6	525	.0001	2000	1.84	1.3	9	.0000004
2100	2.01	3.3	210	.00002	2100	1.86	1.7	10	.0000005
2130	2.31	15	1,050	.0005	2200	1.93	3.5	30	.000002
2200	2.96	103	4,300	.01	2400	1.95	4.0	25	.000002
2215	3.54	242	5,000	.04					

(480) 01650190 BATCHELLORS RUN AT OAKDALE, MD.

(Flood-hydrograph station)

LOCATION.--Lat 39°07'21", long 77°03'37", Montgomery County, on right bank 70 ft downstream from culvert on Batchellors Forest Road, 0.2 mile upstream from small tributary, 0.8 mile southeast of Oakdale, and 1.2 miles northeast of Norbeck.

DRAINAGE AREA.--0.47 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 400 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and slope-area measurement at 240 cfs.

MAXIMUMS: June-July 1972: Discharge, 550 cfs 2345 hours June 21 (gage height, 4.09 ft). 1967 to May 1972: Discharge, 240 cfs Aug. 9, 1969 (gage height, 2.83 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.09	0.5					6-22	2315	1.36	4.0
6-21	0745	1.05	0.4	6-22	0015	3.96	508	6-22	2330	1.41	5.2
6-21	0815	1.11	0.5	6-22	0030	3.28	320	6-22	2345	1.55	11
6-21	0845	1.20	1.2	6-22	0045	3.30	325	6-22	2400	1.78	26
6-21	0915	1.22	1.5	6-22	0130	2.42	124				
6-21	1045	1.19	1.1	6-22	0200	2.15	75				
6-21	1145	1.16	0.8	6-22	0245	2.02	55	6-23	0015	2.06	61
6-21	1345	1.12	0.6	6-22	0330	2.25	91	6-23	0030	2.12	70
6-21	1530	1.11	0.5	6-22	0400	2.05	60	6-23	0130	1.71	21
6-21	1600	1.15	0.7	6-22	0445	1.80	28	6-23	0145	1.62	14
6-21	1615	1.20	1.2	6-22	0515	1.67	18	6-23	0200	1.56	11
6-21	1630	1.35	3.8	6-22	0630	1.51	8.8	6-23	0315	1.56	11
6-21	1645	1.52	9.2	6-22	0700	1.51	8.8	6-23	0400	1.63	15
6-21	1700	1.67	18	6-22	0730	1.62	14	6-23	0500	1.75	24
6-21	1800	1.85	34	6-22	0815	1.80	28	6-23	0600	1.67	18
6-21	1815	1.93	43	6-22	0900	1.77	26	6-23	0700	1.58	12
6-21	1830	2.08	64	6-22	0945	1.57	12	6-23	0830	1.51	8.8
6-21	1845	2.42	124	6-22	1030	1.42	5.5	6-23	0945	1.39	4.6
6-21	2015	1.96	47	6-22	1115	1.34	3.6	6-23	1145	1.28	2.5
6-21	2100	1.70	20	6-22	1245	1.25	2.0	6-23	1345	1.23	1.7
6-21	2115	1.68	19	6-22	1315	1.23	1.7	6-23	1630	1.18	1.0
6-21	2130	1.90	39	6-22	1345	1.23	1.7	6-23	1945	1.16	0.8
6-21	2145	2.16	76	6-22	1515	1.18	1.0	6-23	2400	1.14	0.7
6-21	2200	3.25	313	6-22	1715	1.16	0.8				
6-21	2230	3.97	511	6-22	2000	1.14	0.7				
6-21	2315	3.70	430	6-22	2045	1.16	0.8	6-24	0015	1.14	0.7
6-21	2345	4.09	550	6-22	2130	1.22	1.5	6-24	1500	1.09	0.5
6-21	2400	3.98	514	6-22	2230	1.31	3.0	6-24	2400	1.09	0.5
				6-22	2245	1.35	3.8				

(482) 01650470 LUTES RUN AT LUTES, MD.

(Flood-hydrograph station)

LOCATION.--Lat 39°04'24", long 77°03'08", Montgomery County, on left bank at outlet of stream enclosure, 70 ft downstream from Lutes Lane, 0.2 mile upstream from mouth, and 2.7 miles west of Colesville.

DRAINAGE AREA.--0.47 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 330 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 53 cfs and slope-area measurement at 571 cfs.

MAXIMUMS.--June-July 1972: Discharge, 571 cfs 2200 hours, June 21 (gage height, 5.92 ft from digital punch, 6.53 ft by extending slope-area profile upstream 14 ft to gage). 1967-69, 1971 to May 1972: Discharge, about 570 cfs, Aug. 24, 1967 (gage height, 4.60 ft at same site at different datum).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.72	0.2	6-21	2115	3.51	152	6-22	0600	2.42	21
6-21	0915	1.72	0.2	6-21	2130	4.27	268	6-22	0630	2.78	55
6-21	0930	2.44	33	6-21	2145	5.28	449	6-22	0700	2.99	80
6-21	0945	2.03	13	6-21	2200	5.92	571	6-22	0730	3.05	88
6-21	1000	1.85	7.0	6-21	2245	5.49	487	6-22	0815	2.92	71
6-21	1545	1.95	9.7	6-21	2330	5.61	509	6-22	0845	2.60	36
6-21	1600	2.32	25	6-21	2345	5.48	485	6-22	0900	2.46	24
6-21	1615	2.74	57	6-21	2400	5.62	511	6-22	0915	2.37	17
6-21	1645	2.31	25					6-22	0930	2.29	13
6-21	1700	2.59	44					6-22	1000	2.18	7.2
6-21	1715	2.58	43	6-22	0015	5.53	494	6-22	1030	2.10	4.6
6-21	1730	3.02	84	6-22	0030	4.64	334	6-22	1045	2.08	4.2
6-21	1745	2.97	79	6-22	0045	4.10	240	6-22	2000	2.09	4.4
6-21	1800	3.24	112	6-22	0130	3.30	120	6-22	2015	2.12	5.3
6-21	1815	4.41	293	6-22	0145	3.06	89	6-22	2030	2.22	9.0
6-21	1830	3.54	156	6-22	0200	2.90	69	6-22	2100	2.48	25
6-21	1845	2.80	62	6-22	0215	3.14	99	6-22	2130	2.59	35
6-21	1900	2.41	31	6-22	0230	3.29	119	6-22	2145	2.61	37
6-21	1915	2.19	19	6-22	0300	3.25	114	6-22	2215	2.44	22
6-21	1930	2.28	23	6-22	0330	2.95	75	6-22	2230	2.36	17
6-21	1945	2.22	20	6-22	0345	2.85	63	6-22	2300	2.25	11
6-21	2000	2.07	14	6-22	0400	2.67	43	6-22	2330	2.27	12
6-21	2015	1.98	11	6-22	0415	2.57	33	6-22	2345	2.31	14
6-21	2030	2.03	13	6-22	0445	2.43	21	6-22	2400	2.39	18
6-21	2045	2.27	23	6-22	0500	2.38	18				
6-21	2100	3.62	168	6-22	0545	2.29	13				

(483) 01650500 NORTHWEST BRANCH ANACOSTIA RIVER NEAR COLESVILLE, MD.

LOCATION.--Lat 39°03'55", long 77°01'48", Montgomery County, on right bank 400 ft upstream from bridge on State Highway 183, 1.5 miles southwest of Colesville, 3 miles upstream from Burnt Mills, 10 miles upstream from Sligo Creek, and 12.5 miles upstream from confluence with Northeast Branch.

DRAINAGE AREA.--21.1 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals and water-stage-recorder graph except 2300 hours June 21 to 1600 hours June 23 for which graph was reconstructed from several staff-gage readings. Datum of gage is 264.85 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by contracted-opening and flow-over-road measurement at 4,910 cfs and computation of flow over Burnt Mills Dam, 3 miles downstream, adjusted for flow from intervening area at 11,000 cfs.

SEDIMENT-CONCENTRATION RECORD.--Concentration graph based on data obtained 1 to 10 times daily except for the following baseflow periods: June 2-3, 6, 8-11, 13-15, 19-20, 24, 27, July 1, 4, 6-7, 9, 11-12, 14-15, 18-24, 26-31.

SEDIMENT-DISCHARGE RECORD.--Concentration graph well defined except for June 17-18, July 8, and for days of no samples.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)	Daily mean concentration (mg/l)	Daily sediment discharge (tons)
June-July 1972:				
June 21	-	-	1,090	-
June 22, 0100 hours	11,000	a 15.89	-	-
June 22	-	-	-	7,340
1924 to May 1972 (Sediment, 1962 to May 1972):				
Aug. 8, 1953	4,910	10.99	-	-
Mar. 5, 1965	-	-	-	4,670
Aug. 25, 1965	-	-	4,340	-

a From high-water mark in gage house.

MEAN DISCHARGE, SEDIMENT CONCENTRATION, SEDIMENT DISCHARGE, 1972

DAY	JUNE DISCHARGE (CFS)	JUNE SUSPENDED SEDIMENT CONCENTRATION (MG/L)	JUNE SUSPENDED SEDIMENT TONS PER DAY	DAY	JULY DISCHARGE (CFS)	JULY SUSPENDED SEDIMENT CONCENTRATION (MG/L)	JULY SUSPENDED SEDIMENT TONS PER DAY
1	32	54	5.3	1	45	25	3.0
2	21	10	.57	2	194	563	1,250
3	19	5	.26	3	239	604	641
4	47	421	333	4	56	60	9.1
5	75	618	391	5	41	25	2.8
6	24	30	1.9	6	35	15	1.4
7	22	17	1.0	7	29	10	.78
8	19	10	.51	8	47	100	25
9	17	9	.41	9	31	15	1.3
10	16	8	.35	10	25	10	.68
11	16	7	.30	11	23	10	.62
12	15	6	.24	12	22	10	.59
13	17	15	.69	13	48	123	28
14	21	10	.57	14	27	20	1.5
15	17	10	.46	15	23	10	.62
16	16	9	.39	16	160	551	903
17	20	96	7.0	17	85	160	82
18	24	107	11	18	31	15	1.3
19	20	35	1.9	19	26	10	.70
20	19	40	2.1	20	22	7	.42
21	625	1,090	5,480	21	21	5	.28
22	2,370	476	7,340	22	20	3	.16
23	200	272	169	23	19	3	.15
24	66	50	8.9	24	17	2	.09
25	56	30	4.5	25	17	2	.09
26	37	17	1.7	26	15	2	.08
27	31	15	1.3	27	15	2	.08
28	30	14	1.1	28	17	3	.14
29	159	340	364	29	17	3	.14
30	193	287	400	30	18	4	.19
				31	18	4	.19
TOTAL	4,244		14,529.45		1,403		2,955.40
MEAN	141		484		45.3		95.3
INCHES	7.48				2.47		
AC-FT	8,418		a 9.53		2,780		a 1.94

a Computed on basis of 70 lb/cu ft deposited unit weight.

GAGE HEIGHT, DISCHARGE, SEDIMENT CONCENTRATION, AND SEDIMENT DISCHARGE, AT INDICATED TIME, 1972

Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons Per second	Date and hour	Gage height (ft)	Discharge (cfs)	Suspended sediment Concentration (mg/l)	Suspended sediment Tons per second
June 20					June 22				
2400	2.26	52	15	.00002	0800	9.2	1,780	720	.04
June 21					1000	8.6	1,400	540	.02
0200	2.29	57	15	.00003	1200	6.4	740	250	.006
0400	2.20	44	15	.00002	1400	5.2	524	160	.003
0600	2.15	38	10	.00001	1600	4.3	383	120	.001
0800	2.15	38	10	.00001	1800	3.7	293	100	.0009
1000	2.61	94	300	.0009	2000	3.35	237	60	.0004
1200	2.65	119	1,160	.004	2200	3.15	205	40	.0003
1400	2.76	139	680	.003	2400	3.0	180	20	.0001
1600	2.55	101	600	.002	June 23				
1800	4.98	489	2,640	.04	0200	3.4	245	145	.001
1900	7.12	900	2,860	.08	0400	3.62	280	350	.003
2000	7.42	976	2,140	.07	0600	3.7	293	520	.005
2100	7.60	1,030	1,800	.06	0800	3.64	283	510	.005
2200	8.36	1,294	3,540	.14	1000	3.48	258	420	.003
2300	11.8	5,980	4,100	.77	1200	3.30	229	325	.002
2400	13.0	7,700	3,600	.85	1400	3.1	197	260	.001
June 22					1600	2.86	156	220	.001
0100	15.89	11,000	1,600	.54	1800	2.71	130	180	.0007
0200	15.6	10,700	1,270	.42	2000	2.62	114	140	.0005
0400	11.6	5,660	620	.11	2200	2.55	101	110	.0003
0600	10.1	2,730	440	.04	2400	2.50	92	90	.0003

(486) 01652400 LONG BRANCH AT ARLINGTON, VA.

(Crest-stage station)

LOCATION.--Lat 38°51'31", long 77°07'37", Fairfax County, on right bank at South Carlyn Springs Road, 500 ft downstream from Arlington County line, 1.8 miles southeast of Seven Corners.

DRAINAGE AREA.--0.94 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 184.0 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 980 cfs June 21 (gage height, 24.68 ft).
1963 to May 1972: Discharge, 1,280 cfs July 22, 1969 (gage height, 26.9 ft).

(487) 01652430 DOCTORS RUN AT ARLINGTON, VA.

(Crest-stage station)

LOCATION.--Lat 38°51'42", long 77°06'09", Arlington County, at 8th Street, 0.6 mile west of Glebe Road, Arlington.

DRAINAGE AREA.--0.90 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 137.0 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 700 cfs June 21 (gage height, 5.44 ft).
1966 to May 1972: Discharge, 1,780 cfs July 22, 1969 (gage height, 8.6 ft).

(488) 01652470 LUCKY RUN AT ARLINGTON, VA.

(Crest-stage station)

LOCATION.--Lat 38°50'33", long 77°06'16", Arlington County, at Dinwiddie Street and Walter Reed Drive, Arlington.

DRAINAGE AREA.--1.22 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 96.0 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 1,250 cfs June 21 (gage height, 8.22 ft).
1966 to May 1972: Discharge, 1,900 cfs July 22, 1969 (gage height, 9.5 ft).

(489) 01652500 FOURMILE RUN AT ALEXANDRIA, VA.

(Crest-stage station)

LOCATION.--Lat 38°50'36", long 77°04'46", Alexandria City, on left bank 100 ft upstream from East Glebe Road, 2.1 miles upstream from mouth.

DRAINAGE AREA.--14.4 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 17.84 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by slope-area measurements.

MAXIMUMS.--June-July 1972: Discharge, 10,000 cfs June 21 (gage height, 12.4 ft).
1951 to May 1972: Discharge, 14,600 cfs July 22, 1969 (gage height, 11.6 ft, at same site at different datum).

(490) 01652610 HOLMES RUN NEAR ANNANDALE, VA.

(Crest-stage station)

LOCATION.--Lat 38°50'47", long 77°10'28", Fairfax County, 150 ft downstream from Sleepy Hollow Road, 0.5 mile upstream from Lake Barcroft, and 1.6 miles northeast of Annandale.

DRAINAGE AREA.--7.10 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 215 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 570 cfs, by slope-area measurement at 2,700 cfs and by contracted-opening measurement at 3,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,000 cfs June 21 (gage height, 9.2 ft).
1960 to May 1972: Discharge, 2,700 cfs Aug. 24, 1967 (gage height, 8.7 ft).

(484) 01650990 SLIGO CREEK AT GREEN MEADOWS, MD.
(Miscellaneous site)

LOCATION.--Lat 38°58'13", long 76°58'49", Prince Georges County, about 300 ft downstream from Riggs Road (Md. State Highway 212) at Green Meadows, 0.9 mile upstream from confluence with N.W. Branch Anacostia River, 1.1 miles southeast of Takoma Park, and 2.3 miles northwest of Hyattsville.

DRAINAGE AREA.--13 sq mi, approximately.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 6,990 cfs June 22.

(485) 01651000 NORTHWEST BRANCH ANACOSTIA RIVER NEAR HYATTSVILLE, MD.

LOCATION.--Lat 38°57'09", long 76°58'00", Prince Georges County, on right bank at downstream side of bridge on Queens Chapel Road (State Highway 500), 0.8 mile downstream from Sligo Branch, 1 mile west of Hyattsville, and 1.6 miles upstream from mouth.

DRAINAGE AREA.--49.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2400 hours June 23 to 1000 hours June 26 for which graph was reconstructed on basis of gage reading after damaged intake was removed. Record for June 26 to July 31 affected at times by plugged intakes.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs and by average of step-backwater and slope-area measurements at 18,000 cfs. Discharge June 26 to July 31 partly estimated on basis of three discharge measurements and records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 18,000 cfs 0130 hours June 22 (gage height, 14.47 ft).
1939 to May 1972: Discharge, 7,000 cfs Sept. 14, 1966 (gage height, 13.50 ft).
Flood of Aug. 24, 1933, reached a stage of about 13.5 ft, discharge unknown.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	75	80	11...	23	40	21...	801	36
2....	36	200	12...	23	38	22...	3,500	34
3....	32	500	13...	28	150	23...	750	32
4....	36	100	14...	38	50	24...	130	28
5....	147	70	15...	25	40	25...	100	28
6....	47	60	16...	23	190	26...	70	24
7....	36	50	17...	32	200	27...	55	24
8....	28	100	18...	69	60	28...	100	28
9....	26	55	19...	38	44	29...	370	28
10...	25	46	20...	34	38	30...	420	30
						31...		30
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							237	78
RUNOFF,IN INCHES							5.36	1.83

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	3.18	26	6-21	1545	4.00	230	6-22	0530	13.54	7,180
6-20	1230	3.15	23	6-21	1600	4.10	265	6-22	0545	14.02	11,000
6-20	1730	3.21	29	6-21	1700	5.37	855	6-22	0615	13.10	5,860
6-20	1900	3.29	41	6-21	1945	7.69	1,920	6-22	0730	11.31	3,750
6-20	1945	3.30	42	6-21	2130	7.75	1,940	6-22	1115	8.99	2,450
6-20	2045	3.42	64	6-21	2345	12.62	5,130	6-22	1715	6.67	1,470
6-20	2130	3.38	56	6-21	2400	13.02	5,720	6-22	1945	5.36	850
6-20	2330	3.48	78					6-22	2230	5.50	920
6-20	2400	3.61	110					6-22	2400	5.85	1,100
				6-22	0030	13.47	6,880				
				6-22	0100	14.20	13,300				
6-21	0345	3.59	105	6-22	0130	14.47	18,000	6-23	0145	6.15	1,230
6-21	0815	3.52	87	6-22	0145	14.37	16,000	6-23	0815	6.62	1,440
6-21	0915	3.57	100	6-22	0200	13.62	7,570	6-23	1015	6.42	1,350
6-21	1045	3.93	206	6-22	0215	13.81	8,890	6-23	1615	5.20	770
6-21	1200	4.18	297	6-22	0300	13.36	6,480	6-23	2130	4.46	412
6-21	1315	3.95	213	6-22	0415	12.95	5,600	6-23	2400	4.28	337

(491) 01653000 CAMERON RUN AT ALEXANDRIA, VA.

LOCATION.--Lat 38°48'23", long 77°06'35", Alexandria City, on left bank 25 ft downstream from bridge on Southern Railway at Alexandria, 800 ft downstream from confluence of Holmes Run and Backlick Run, 0.5 mile east of the U.S. Army Quartermaster Depot, and 3.4 miles upstream from mouth.

DRAINAGE AREA.--33.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 36.51 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,500 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 19,900 cfs 0030 hours June 22 (gage height, 18.14 ft).
1953, 1955 to May 1972: Discharge, 9,300 cfs Sept. 14, 1966 (gage height, 14.14 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	38	76	11...	11	17	21...	2,160	9.0
2....	27	34	12...	9.9	15	22...	3,680	9.0
3....	15	26	13...	18	47	23...	734	9.0
4....	69	24	14...	24	19	24...	88	8.0
5....	50	18	15...	13	13	25...	57	7.0
6....	26	26	16...	11	32	26...	49	6.2
7....	19	34	17...	20	82	27...	46	6.0
8....	14	21	18...	160	17	28...	46	6.0
9....	33	19	19...	23	12	29...	59	6.0
10...	33	19	20...	34	10	30...	385	17
						31...		13
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							265	21
RUNOFF,IN INCHES							8.78	0.73

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.80	17	6-21	0600	2.95	154	6-22	0030	18.14	19,900
6-20	0945	1.79	16	6-21	0615	3.95	478	6-22	0045	17.99	19,400
6-20	1115	1.81	18	6-21	0830	3.16	202	6-22	0200	15.67	10,300
6-20	1130	1.89	23	6-21	0845	3.15	200	6-22	0600	11.01	5,510
6-20	1145	2.09	39	6-21	0900	3.32	243	6-22	0815	9.88	4,720
6-20	1215	2.16	45	6-21	0915	3.75	389	6-22	1045	6.34	2,210
6-20	1500	2.06	37	6-21	1000	3.54	312	6-22	1400	4.90	1,040
6-20	1515	2.03	34	6-21	1015	3.80	410	6-22	1700	4.07	532
6-20	1530	2.12	42	6-21	1415	3.25	225	6-22	2000	3.64	346
6-20	1545	2.05	36	6-21	1500	3.53	308	6-22	2215	3.70	368
6-20	1630	2.16	45	6-21	1515	3.87	442	6-22	2400	4.14	565
6-20	1700	2.15	45	6-21	1530	4.45	738				
6-20	1800	2.41	71	6-21	1545	5.11	1,190				
6-20	1830	2.38	68	6-21	1600	6.59	2,390	6-23	0500	4.83	991
6-20	1900	2.48	80	6-21	1715	9.38	4,370	6-23	0730	5.08	1,170
6-20	2200	2.17	42	6-21	2000	7.22	2,850	6-23	0800	5.00	1,110
6-20	2300	2.20	49	6-21	2045	8.96	4,070	6-23	1200	4.12	555
6-20	2400	2.14	44	6-21	2200	14.94	8,970	6-23	1715	3.45	292
				6-21	2330	16.85	13,600	6-23	1745	3.25	225
				6-21	2400	17.79	18,200	6-23	2030	2.85	134
6-21	0045	2.10	40					6-23	2330	2.61	96
6-21	0130	2.22	51					6-23	2400	2.58	92
6-21	0545	2.14	44	6-22	0015	17.79	18,200				

(492) 01653500 HENSON CREEK AT OXON HILL, MD.

LOCATION.--Lat 38°47'16", long 76°58'42", Prince Georges County, on left bank 100 ft downstream from bridge on Tucker Road, 1.0 mile south of Oxon Hill, and 1.4 miles upstream from Carey Branch and mouth.

DRAINAGE AREA.--16.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 62 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 520 cfs and by slope-area measurements at 2,200 and 2,920 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,450 cfs 0245 hours June 22 (gage height, 6.89 ft).
1949 to May 1972: Discharge, 3,440 cfs Aug. 4, 1971 (gage height, 7.63 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	14	30	11...	7.7	8.5	21...	163	16
2....	12	20	12...	8.1	9.4	22...	1,060	12
3....	11	26	13...	10	420	23...	243	11
4....	11	20	14...	13	41	24...	50	9.4
5....	17	33	15...	9.0	28	25...	38	8.7
6....	16	19	16...	8.2	28	26...	29	7.5
7....	14	15	17...	11	28	27...	23	7.8
8....	9.8	14	18...	13	19	28...	30	8.6
9....	9.0	12	19...	9.5	21	29...	70	9.7
10...	8.8	10	20...	11	22	30...	83	21
						31...		13
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							67	31
RUNOFF,IN INCHES.....							4.48	2.11

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	0.64	7.6								
6-20	1530	0.66	8.7					6-25	0530	1.26	50
6-20	1615	0.77	15	6-22	0215	6.81	2,370	6-25	0630	1.24	47
6-20	1715	0.75	14	6-22	0245	6.89	2,450	6-25	2030	1.08	31
6-20	2215	0.74	13	6-22	1015	5.47	1,360	6-25	2400	1.08	31
6-20	2300	0.83	19	6-22	1300	4.26	804				
6-20	2330	0.91	25	6-22	1545	2.68	335				
6-20	2400	0.91	25	6-22	1745	2.08	192	6-26	1600	1.03	27
				6-22	2300	1.87	148	6-26	1615	1.01	25
				6-22	2400	1.97	168	6-26	1645	1.12	35
6-21	0115	0.97	29					6-26	1715	1.11	34
6-21	0300	0.88	23					6-26	1745	0.95	20
6-21	0630	0.85	21	6-23	0230	2.36	255	6-26	1800	0.91	17
6-21	0930	0.92	25	6-23	0430	3.13	448	6-26	1815	1.06	29
6-21	1115	1.05	35	6-23	0715	3.23	473	6-26	1830	1.05	29
6-21	1245	1.09	38	6-23	0915	2.98	410	6-26	1845	1.12	35
6-21	1500	1.04	34	6-23	1300	2.08	192	6-26	1930	1.01	25
6-21	1530	1.15	43	6-23	2015	1.56	90	6-26	2400	1.00	24
6-21	1615	1.69	112	6-23	2400	1.43	70				
6-21	1715	2.57	308								
6-21	1830	2.75	353					6-27	1115	1.02	26
6-21	1945	2.60	315	6-24	0030	1.42	69	6-27	1500	0.99	23
6-21	2130	3.42	526	6-24	2245	1.16	39	6-27	1815	0.94	19
6-21	2345	4.27	808	6-24	2400	1.16	39	6-27	2400	0.95	20
6-21	2400	4.49	896								

(493) 01653600 PISCATAWAY CREEK AT PISCATAWAY, MD.

LOCATION.--Lat 38°42'20", long 76°58'00", Prince Georges County, on left bank 70 ft upstream from bridge on State Highway 223, at Piscataway, 0.4 mile upstream from Tinker Creek, and 4.8 miles upstream from mouth.

DRAINAGE AREA.--39.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 10 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 250 cfs and by contracted-opening and flow-over-road measurement at 4,900 cfs at site 0.5 mile downstream, adjusted for flow from intervening area.

MAXIMUMS.--June-July 1972: Discharge, 4,900 cfs 1230 hours June 22 (gage height, 9.80 ft).
1966 to May 1972: Discharge, 1,180 cfs Aug. 28, 1971 (gage height, 7.19 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	40	77	11...	20	35	21...	116	46
2....	31	60	12...	19	34	22...	2,340	33
3....	27	54	13...	17	464	23...	1,060	28
4....	25	55	14...	23	110	24...	385	25
5....	34	105	15...	20	56	25...	142	23
6....	54	79	16...	17	46	26...	105	20
7....	72	55	17...	20	101	27...	84	19
8....	31	48	18...	73	67	28...	82	21
9....	25	44	19...	75	46	29...	125	21
10...	21	39	20...	28	43	30...	93	30
						31...		31
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							173	62
RUNOFF,IN INCHES.....							4.90	1.80

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	32	37	11...	12	16	21...	2,240	14
2....	16	26	12...	12	17	22...	3,300	13
3....	15	28	13...	18	26	23...	100	12
4....	32	23	14...	23	17	24...	50	12
5....	32	27	15...	14	15	25...	35	11
6....	17	22	16...	12	187	26...	28	10
7....	14	20	17...	18	132	27...	25	10
8....	14	19	18...	14	23	28...	24	11
9....	14	18	19...	12	18	29...	58	11
10...	12	18	20...	26	18	30...	150	23
						31...		15
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							212	27
RUNOFF,IN INCHES.....							10.08	1.34

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.15	42	6-21	1700	8.62	1,790	6-22	0700	12.65	5,610
				6-21	1800	8.58	1,790	6-22	0800	11.80	4,520
				6-21	1900	10.64	3,200	6-22	0900	11.20	3,800
6-21	0300	2.07	37	6-21	2000	13.00	6,200	6-22	1000	10.50	3,100
6-21	0600	2.38	61	6-21	2100	14.10	8,090	6-22	1100	10.00	2,700
6-21	0800	3.78	235	6-21	2200	14.85	9,480	6-22	1200	8.20	1,580
6-21	1000	3.26	159	6-21	2400	15.60	11,200	6-22	1300	7.00	1,000
6-21	1200	3.53	198					6-22	1400	6.00	687
6-21	1300	3.12	141					6-22	1500	5.30	508
6-21	1400	4.00	269	6-22	0200	15.96	12,000	6-22	1600	4.95	435
6-21	1500	6.50	835	6-22	0400	15.55	11,200	6-22	1800	4.65	380
6-21	1600	7.80	1,380	6-22	0600	13.70	7,350	6-22	2400	4.17	294

(498) 01655112 ACCOTINK CREEK NEAR NEWINGTON, VA.

(Miscellaneous site)

LOCATION.--Lat 38°43'21", long 77°12'16", Fairfax County, at Richmond, Fredericksburg and Potomac Railroad, just below Shirley Highway, 1.5 miles southwest of Newington.

DRAINAGE AREA.--39.9 sq mi.

MAXIMUMS.--June-July 1972: Discharge 19,000 cfs June 22 from flow-through-culvert measurement. Water-surface elevation, 68.8 ft above mean sea level.

(499) 01655500 CEDAR RUN NEAR WARRENTON, VA.

LOCATION.--Lat 38°44'25", long 77°47'16", Fauquier County, on right bank at downstream side of bridge on State Highway 672, 1.9 miles north of Warrenton, and 14.5 miles upstream from Licking Run.

DRAINAGE AREA.--12.3 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 419.40 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 600 cfs and extended above on basis of areal study of flood of 1942.

MAXIMUMS.--June-July 1972: Discharge, 7,840 cfs 1630 hours June 21 (gage height, 12.87 ft).
1951 to May 1972: Discharge, 3,100 cfs June 8, 1955 (gage height, 9.59 ft).
Flood in October 1942 reached a stage of about 13 ft, from information by local residents.

REMARKS.--Records computed and furnished by the State of Virginia.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.87	29	6-22	0700	8.65	2,480				
6-21	0600	2.94	36	6-22	0900	9.29	3,680	6-23	0030	7.31	1,250
6-21	1330	3.14	56	6-22	1100	9.52	4,200	6-23	2400	6.44	842
6-21	1700	3.43	95	6-22	1230	9.80	4,900				
6-21	1830	3.72	144	6-22	1300	9.75	4,780				
6-21	2400	5.37	538	6-22	1700	8.41	2,160	6-24	0030	6.42	836
				6-22	2030	7.56	1,400	6-24	1230	4.56	335
				6-22	2400	7.33	1,260	6-24	2330	4.02	204
6-22	0400	7.27	1,220					6-24	2400	4.01	202

(494) 01653950 LONG BRANCH AT VIENNA, VA.

(Crest-stage station)

LOCATION.--Lat 38°52'23", long 77°14'34", Fairfax County, on left bank at downstream side of culvert on Lee Highway, 0.5 mile upstream from Arlington Boulevard, and 0.5 mile southeast of Vienna.

DRAINAGE AREA.--1.18 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 300.06 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,280 cfs June 21 (gage height, 5.85 ft).
1960 to May 1972: Discharge, 2,000 cfs July 22, 1969 (gage height, 6.5 ft).

(495) 01653960 LONG BRANCH AT ARLINGTON BOULEVARD, NEAR VIENNA, VA.

(Miscellaneous site)

LOCATION.--Lat 38°51'54", long 77°14'19", Fairfax County, at culvert on Arlington Boulevard, 1.0 mile south of Vienna.

DRAINAGE AREA.--2.12 sq mi.

MAXIMUMS.--June-July 1972: Discharge 1,800 cfs June 21 from flow-through-culvert and flow-over-road measurement. Water-surface elevation, 290.73 ft above mean sea level.

(496) 01653987 ACCOTINK CREEK AT KING ARTHUR ROAD, NEAR ANNANDALE, VA.

(Miscellaneous site)

LOCATION.--Lat 38°50'33", long 77°13'51", Fairfax County, at King Arthur Road, 1.8 miles northwest of Annandale.

DRAINAGE AREA.--18.2 sq mi.

MAXIMUMS.--June-July 1972: Discharge 11,500 cfs June 22 from contracted-opening measurement. Water-surface elevation, 255.24 ft above mean sea level.

(497) 01654000 ACCOTINK CREEK NEAR ANNANDALE, VA.

LOCATION.--Lat 38°48'46", long 77°13'43", Fairfax County, on left bank 800 ft upstream from bridge on State Highway 620, 0.2 mile upstream from Long Branch, and 2.3 miles southwest of Annandale.

DRAINAGE AREA.--23.5 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 22-25. Datum of gage is 190.91 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs, by contracted-opening measurements at 2,120, 2,560, and 3,950 cfs, by flow-over-dam measurement at 7,820 cfs, and by contracted-opening and flow-over-road measurement at 12,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,000 cfs June 22 (gage height, 15.96 ft, from high-water mark in gage house).
1947 to May 1972: Discharge, 7,870 cfs Aug. 24, 1967 and July 22, 1969; gage height, 11.85 ft July 22, 1969.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	13	39	11...	4.3	9.0	21...	1,500	9.5
2....	9.2	33	12...	4.9	9.0	22...	927	8.1
3....	7.9	37	13...	5.1	8.7	23...	229	7.4
4....	7.4	23	14...	8.1	5.8	24...	107	6.7
5....	7.9	23	15...	7.1	4.9	25...	70	5.8
6....	7.1	20	16...	6.2	9.0	26...	49	5.1
7....	6.7	18	17...	6.9	44	27...	37	5.5
8....	5.8	14	18...	9.5	35	28...	36	6.2
9....	5.8	12	19...	9.8	16	29...	52	6.0
10...	5.3	9.8	20...	8.4	11	30...	65	10
						31...		10
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							107	15
RUNOFF, IN INCHES							9.73	1.40

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.75	10	6-22	0400	9.04	2,460	6-23	0800	5.84	304
				6-22	0600	8.27	1,650	6-23	1000	5.55	260
				6-22	0800	7.58	1,000	6-23	1200	5.25	220
6-21	0600	2.83	13	6-22	1000	6.89	530	6-23	1400	5.05	196
6-21	1200	2.90	17	6-22	1200	6.15	355	6-23	1600	4.85	176
6-21	1300	2.96	20	6-22	1400	5.70	282	6-23	1800	4.69	161
6-21	1400	3.45	56	6-22	1600	5.37	232	6-23	2000	4.56	147
6-21	1500	5.65	274	6-22	1800	5.17	207	6-23	2200	4.46	139
6-21	1630	12.87	7,840	6-22	2000	5.15	207	6-23	2400	4.38	135
6-21	1700	11.74	5,950	6-22	2200	5.27	220				
6-21	1800	10.50	4,250	6-22	2400	5.41	239				
6-21	2000	9.84	3,360					6-24	0600	4.16	115
6-21	2200	9.73	3,240					6-24	1200	3.99	103
6-21	2400	9.32	2,760	6-23	0200	5.81	297	6-24	1800	3.85	91
				6-23	0400	6.12	346	6-24	2400	3.79	86
				6-23	0600	5.99	328				
6-22	0200	9.21	2,640								

(500) 01656000 CEDAR RUN NEAR CATLETT, VA.

LOCATION.--Lat 38°38'12", long 77°37'31", Fauquier County, on right bank 100 ft downstream from bridge on State Highway 806, 0.9 mile downstream from Licking Run, and 1.4 miles southeast of Catlett.

DRAINAGE AREA.--93.4 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 21-25. Datum of gage is 199.15 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,000 cfs and by contracted-opening measurement at 36,800 cfs at site 2 miles upstream.

MAXIMUMS.--June-July 1972: Discharge, 38,600 cfs June 22 (gage height, 27.66 ft, from floodmarks).
1951 to May 1972: Discharge, 7,300 cfs June 8, 1955 (gage height, 17.25 ft).
Flood of Oct. 15, 1942, reached a stage of about 22 ft, from information by local residents.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	79	150	11...	12	43	21...	4,460	28
2....	36	103	12...	10	41	22...	18,500	25
3....	28	103	13...	11	54	23...	2,060	22
4....	24	79	14...	21	43	24...	614	23
5....	40	77	15...	24	36	25...	300	15
6....	28	83	16...	17	40	26...	197	13
7....	25	72	17...	17	51	27...	144	11
8....	20	80	18...	34	95	28...	190	14
9....	17	69	19...	52	45	29...	255	15
10...	15	53	20...	31	36	30...	235	27
						31...		40
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							917	51
RUNOFF, IN INCHES							10.95	0.63

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.93	45	6-22	0200	27.62	38,100	6-23	0600	10.54	2,650
				6-22	0300	27.66	38,600	6-23	0900	9.55	2,200
				6-22	0400	27.59	38,100	6-23	1200	8.81	1,810
6-21	0600	3.03	57	6-22	0500	27.45	37,100	6-23	1500	8.20	1,570
6-21	1200	3.13	70	6-22	0600	27.15	36,100	6-23	1800	7.67	1,390
6-21	1300	3.31	98	6-22	0700	26.24	31,100	6-23	2100	7.21	1,220
6-21	1400	5.00	507	6-22	0800	25.00	26,100	6-23	2400	6.75	1,080
6-21	1500	7.20	1,220	6-22	0900	22.90	19,400				
6-21	1600	9.15	2,000	6-22	1000	21.50	16,000				
6-21	1700	10.93	2,850	6-22	1100	20.68	14,200	6-24	0600	5.91	774
6-21	1800	13.58	4,680	6-22	1200	20.00	12,700	6-24	1200	5.10	535
6-21	1900	16.42	7,480	6-22	1400	18.40	10,000	6-24	1800	4.74	437
6-21	2000	18.94	10,800	6-22	1600	17.08	8,270	6-24	2400	4.53	382
6-21	2100	20.93	14,600	6-22	1800	16.09	7,150				
6-21	2200	23.02	19,600	6-22	2000	15.21	6,160				
6-21	2300	25.00	26,100	6-22	2200	14.20	5,220	6-25	0600	4.37	330
6-21	2400	26.54	32,600	6-22	2400	12.92	4,130	6-25	1200	4.25	305
								6-25	1800	4.09	267
								6-25	2400	3.91	223
6-22	0100	27.52	37,600	6-23	0300	11.63	3,260				

(501) 01656200 BROAD RUN NEAR WARRENTON, VA.

(Crest-stage station)

LOCATION.--Lat 38°48'25", long 77°48'47", Fauquier County, at bridge on State Highway 17, 7 miles north of Warrenton.

DRAINAGE AREA.--2.94 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 610 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 22 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 276 cfs June 21 (gage height, 7.86 ft).
1950 to May 1972: Discharge, 200 cfs Aug. 24, 1967 (gage height, 6.99 ft).

(502) 01656500 BROAD RUN AT BUCKLAND, VA.

LOCATION.--Lat 38°46'50", long 77°40'22", Prince William County, on right bank at downstream side of bridge on U.S. Highway 29 at Buckland, 1.1 miles upstream from South Run.

DRAINAGE AREA.--50.5 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 284.58 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,200 cfs and by slope-area measurement at 11,600 and 16,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,800 cfs 2200 hours June 21 (gage height, 13.92 ft).
1951 to May 1972: Discharge, 11,600 cfs July 20, 1956 (gage height, 13.08 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	63	134	11...	21	52	21...	3,590	46
2....	42	126	12...	20	51	22...	3,960	52
3....	36	455	13...	21	59	23...	1,340	45
4....	32	136	14...	27	48	24...	478	33
5....	37	120	15...	27	42	25...	248	30
6....	33	106	16...	24	50	26...	168	27
7....	33	83	17...	32	101	27...	140	27
8....	26	66	18...	39	232	28...	136	28
9....	24	59	19...	48	55	29...	156	30
10...	23	55	20...	34	44	30...	356	40
						31...		39
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							374	80
RUNOFF, IN INCHES							8.26	1.82

(505) 01656725 BULL RUN NEAR CATHARPIN, VA.

LOCATION.--Lat 38°53'21", long 77°34'14", Prince William County, on right bank 20 ft downstream from bridge on State Highway 705, 0.7 mile downstream from Chestnut Lick, 2.5 miles north of Catharpin, and 6.7 miles northeast of Gainesville.

DRAINAGE AREA.--25.8 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph to June 19; station destroyed by flood. Datum of gage is 237.78 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,000 cfs and by slope-area measurement at 39,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 39,400 cfs June 22 (gage height, 18.92 ft, from floodmarks).
1969 to May 1972: Discharge, 2,940 cfs Sept. 5, 1969 (gage height, 8.52 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	23	90	11...	3.2	10	21...	1,000	6.6
2....	12	30	12...	3.6	8.0	22...	9,500	4.9
3....	8.8	80	13...	3.8	10	23...	3,000	4.2
4....	7.2	45	14...	5.8	10	24...	800	3.8
5....	8.5	24	15...	5.8	8.5	25...	270	3.5
6....	8.2	22	16...	4.4	11	26...	60	2.9
7....	8.5	18	17...	8.2	15	27...	34	2.3
8....	5.5	19	18...	8.5	10	28...	18	3.8
9....	4.4	18	19...	9.0	8.0	29...	31	4.5
10...	4.2	13	20...	9.4	7.0	30...	150	7.0
						31...		7.9
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							501	16
RUNOFF, IN INCHES							21.64	0.73

(506) 01656800 CUB RUN NEAR CHANTILLY, VA.

(Crest-stage station)

LOCATION.--Lat 38°54'30", long 77°28'01", Fairfax County at culvert on Jackson Memorial Highway, 2.2 miles northwest of Chantilly.

DRAINAGE AREA.--7.13 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 239.80 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 270 cfs and by step backwater profile computations.

MAXIMUMS.--June-July 1972: Discharge, 8,300 cfs June 21 (gage height, 10.68 ft).
1963 to May 1972: Discharge, 443 cfs Aug. 24, 1967 (gage height, 6.22 ft).

(507) 01656850 CAIN BRANCH NEAR CHANTILLY, VA.

(Miscellaneous site)

LOCATION.--Lat 38°54'08", long 77°27'06", Fairfax County, at culvert on Jackson Memorial Highway, 1.2 miles west of Chantilly.

DRAINAGE AREA.--1.67 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 2,200 cfs June 21 from flow through-culvert measurement. Water-surface elevation 266.51 ft above mean sea level.

(508) 01656910 FLATLICK BRANCH AT SULLY ROAD, NEAR CHANTILLY, VA.

(Miscellaneous site)

LOCATION.--Lat 38°52'41", long 77°26'57", Fairfax County, at Sully Road, 1.4 miles southwest of Chantilly.

DRAINAGE AREA.--5.92 sq mi.

MAXIMUMS.--June-July 1972: Discharge 6,600 cfs June 21 from flow-through-culvert measurement. Water-surface elevation 253.44 ft above mean sea level.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.86	37	6-21	2300	13.63	14,500	6-22	2200	5.89	1,420
				6-21	2400	13.05	11,200	6-22	2400	5.91	1,420
6-21	0600	1.95	45	6-22	0200	11.94	8,000	6-23	0600	6.29	1,660
6-21	1200	2.01	52	6-22	0400	11.27	6,800	6-23	1200	6.04	1,510
6-21	1400	2.21	78	6-22	0600	10.94	6,050	6-23	1800	5.33	1,120
6-21	1500	2.57	133	6-22	0800	10.12	4,850	6-23	2400	4.71	800
6-21	1600	6.01	1,480	6-22	1000	9.09	3,730				
6-21	1700	8.17	2,930	6-22	1200	8.12	2,850				
6-21	1800	9.10	3,730	6-22	1400	7.46	2,420	6-24	0600	4.29	595
6-21	1900	11.93	8,000	6-22	1600	7.00	2,080	6-24	1200	4.00	450
6-21	2000	13.50	13,800	6-22	1800	6.55	1,840	6-24	1800	3.76	354
6-21	2100	13.83	16,000	6-22	2000	6.14	1,540	6-24	2400	3.64	306
6-21	2200	13.92	16,800								

(503) 01656600 BROAD RUN TRIBUTARY AT BUCKLAND, VA.

(Crest-stage station)

LOCATION.--Lat 38°46'50", long 77°40'15", Prince William County, at culvert on U.S. Highway 29, 0.2 mile east of Buckland.

DRAINAGE AREA.--0.79 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 300 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 575 cfs June 21 (gage height, 16.20 ft).
1966 to May 1972: Discharge, 310 cfs June 12, 1968 (gage height, 9.10 ft).

(504) 01656700 OCCOQUAN RIVER NEAR MANASSAS, VA.

LOCATION.--Lat 38°42'19", long 77°26'46", Prince William County, on right bank 200 ft downstream from bridge on State Highway 234 at Lake Jackson, 3.3 miles southeast of Manassas, and 3.7 miles upstream from Bull Run.

DRAINAGE AREA.--343 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 21-25. Datum of gage is 119.53 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 56,400 cfs June 22 (gage height, 50.31 ft, from floodmarks).
1969 to May 1972: Discharge, 16,900 cfs Feb. 14, 1971 (gage height, 14.64 ft).
Flood of Aug. 25, 1967, reached a stage of about 16 ft.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	253	645	11...	57	163	21...	3,800	144
2....	204	417	12...	41	144	22...	50,900	91
3....	137	452	13...	30	151	23...	35,400	82
4....	105	480	14...	45	168	24...	11,800	75
5....	103	346	15...	60	141	25...	1,370	61
6....	123	324	16...	61	325	26...	755	49
7....	170	292	17...	63	385	27...	530	40
8....	114	256	18...	67	295	28...	480	32
9....	71	282	19...	127	256	29...	480	34
10...	58	197	20...	124	155	30...	805	54
						31...		88
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,610	214
RUNOFF,IN INCHES.....							11.75	0.72

(509) 01656940 CUB RUN NEAR CENTREVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 38°49'59", long 77°27'50", Fairfax County, at bridge on U.S. Highway 29 & 211, 0.4 mile upstream from Big Rocky Run, and 1.9 miles west of Centreville.

DRAINAGE AREA.--39.6 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 197.42 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by step backwater computations.

MAXIMUMS.--June-July 1972: Discharge, 36,000 cfs June 22 (gage height, 23.9 ft).
1961 to May 1972: Discharge, 2,300 cfs Feb. 14, 1971 (gage height, 11.44 ft).

(510) 01656945 BIG ROCKY RUN AT SULLY ROAD, NEAR CENTREVILLE, VA.

(Miscellaneous site)

LOCATION.--Lat 38°51'07", long 77°25'59", Fairfax County, at culvert on Sully Road (Route 28), and 1.0 mile northwest of Centreville.

DRAINAGE AREA.--6.10 sq mi.

MAXIMUMS.--June-July 1972: Discharge 7,100 cfs June 21 from flow-through-culvert measurement. Water-surface elevation, 247.62 ft above mean sea level.

(511) 01657000 BULL RUN NEAR MANASSAS, VA.

LOCATION.--Lat 38°47'50", long 77°27'28", Fairfax County, on left bank at upstream side of bridge on State Highway 616, 0.5 mile downstream from Cub Run, and 3.2 miles north of Manassas.

DRAINAGE AREA.--148 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 22-25. Datum of gage is 138.76 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,200 cfs and by slope-area measurement at 76,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 76,100 cfs June 22 (gage height, 37.80 ft, from floodmarks).
1951 to May 1972: Discharge, 13,000 cfs Aug. 25, 1967 (gage height, 19.27 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	111	746	11...	22	59	21...	5,450	29
2....	60	202	12...	20	50	22...	54,500	26
3....	42	618	13...	20	56	23...	9,600	23
4....	35	246	14...	32	56	24...	1,460	20
5....	47	147	15...	32	39	25...	428	13
6....	39	148	16...	30	80	26...	238	16
7....	36	114	17...	31	115	27...	165	15
8....	34	127	18...	42	56	28...	134	16
9....	26	120	19...	47	40	29...	320	17
10...	24	75	20...	47	31	30...	1,170	28
						31...		32
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,470	108
RUNOFF,IN INCHES.....							18.66	0.84

(512) 01658000 MATTAWOMAN CREEK NEAR POMONKEY, MD.

LOCATION.--Lat 38°35'45", long 77°03'25", Charles County, on left bank 50 ft downstream from bridge on State Highway 227, 80 ft downstream from Old Womans Run, 1.2 miles southeast of Pomonkey, and 12.6 miles upstream from mouth.

DRAINAGE AREA.--57.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except July 1-31. Altitude of gage is 40 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,000 cfs. Discharge July 1-31 estimated on basis of weather records.

MAXIMUMS.--June-July 1972: Discharge, 7,350 cfs 0200 hours June 22 (gage height, 7.10 ft).
1950 to May 1972: Discharge, 9,300 cfs Aug. 13, 1955 (gage height, 7.52 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	29	110	11...	16	34	21...	207	30
2....	25	70	12...	15	32	22...	4,770	22
3....	20	60	13...	14	300	23...	2,120	17
4....	18	55	14...	14	200	24...	809	15
5....	41	95	15...	15	80	25...	456	13
6....	45	110	16...	15	50	26...	235	12
7....	126	70	17...	24	70	27...	128	12
8....	55	50	18...	40	90	28...	97	13
9....	27	40	19...	54	60	29...	118	13
10...	20	36	20...	44	40	30...	145	17
						31...		19
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							325	59
RUNOFF,IN INCHES.....							6.28	1.18

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.86	49	6-21	2230	4.51	597				
6-20	1600	1.81	35	6-21	2300	4.78	820				
6-20	1800	1.83	42	6-21	2330	5.12	1,350	6-23	0030	6.02	3,360
6-20	2300	1.90	54	6-21	2400	5.63	2,350	6-23	1900	5.19	1,470
6-20	2400	1.92	56					6-23	2400	5.04	1,200
				6-22	0030	6.05	3,450				
6-21	0900	2.11	76	6-22	0130	6.99	6,860	6-24	0030	5.02	1,170
6-21	1600	2.60	129	6-22	0200	7.10	7,350	6-24	1800	4.60	660
6-21	2030	3.91	343	6-22	1730	6.08	3,540	6-24	2400	4.47	572
6-21	2200	4.33	495	6-22	2400	6.04	3,420				

(513) 01658500 SOUTH FORK QUANTICO CREEK NEAR INDEPENDENT HILL, VA.

LOCATION.--Lat 38°35'14", long 77°25'44", Prince William County, on left bank at upstream side of bridge on State Highway 619, 3.4 miles south of Independent Hill, 5.6 miles west of Dumfries, and 6.5 miles upstream from mouth.

DRAINAGE AREA.--7.64 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 238.88 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 750 cfs and by contracted-opening measurement at 3,940 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,940 cfs 2315 hours June 21 (gage height, 11.35 ft).
1952 to May 1972: Discharge, 1,040 cfs Aug. 3, 1969 (gage height, 8.40 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6.5	20	11...	1.5	2.1	21...	423	.65
2....	4.1	10	12...	1.7	2.2	22...	770	.59
3....	3.2	19	13...	1.6	4.5	23...	95	.48
4....	2.6	10	14...	1.9	2.6	24...	28	.38
5....	2.7	6.0	15...	2.0	1.6	25...	17	.36
6....	3.9	4.5	16...	1.7	1.1	26...	11	.35
7....	4.7	3.6	17...	1.7	.98	27...	7.7	.30
8....	2.9	7.1	18...	2.2	.95	28...	9.9	.46
9....	2.3	5.9	19...	2.4	.85	29...	13	.52
10...	1.9	2.9	20...	3.0	.75	30...	35	1.7
						31...		2.7
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							49	3.7
RUNOFF,IN INCHES.....							7.13	0.56

(515) 01660900 WOLF DEN BRANCH NEAR CEDARVILLE, MD.

(Crest-stage station)

LOCATION.--Lat 38°38'29", long 76°49'02", at upstream side of culvert at Forest Road, Charles County, 100 ft south of Prince Georges county line, 1.6 miles southwest of Cedarville, and 2.5 miles southwest of Boden.

DRAINAGE AREA.--2.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 160 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 90 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 255 cfs June 22 (gage height, 6.59 ft).
1966 to May 1972: Discharge, 140 cfs Aug. 3, 1969 (gage height, 5.42 ft).

(516) 01660930 CLARK RUN NEAR BEL ALTON, MD.

(Crest-stage station)

LOCATION.--Lat 38°28'21", long 76°57'22", at downstream side of bridge at Newtown Road, 1.5 miles northeast of Bel Alton, Charles County, and 4.0 miles southeast of La Plata.

DRAINAGE AREA.--10.4 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 50 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 210 cfs and by contracted-opening and flow-over-road measurement of maximum flow.

MAXIMUMS.--June-July 1972: Discharge, 4,820 cfs June 22 (gage height, 8.91 ft, from flood-marks).
1966 to May 1972: Discharge, 320 cfs Oct. 26, 1971 (gage height, 7.00 ft).

(517) 01661000 CHAPTICO CREEK AT CHAPTICO, MD.

LOCATION.--Lat 38°22'45", long 76°46'56", St. Marys County, on right bank at downstream side of highway culvert, 0.8 mile north of Chaptico, and 0.8 mile upstream from Chaptico Bay.

DRAINAGE AREA.--10.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 15 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 410 cfs and by slope-area measurement at 7,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,600 cfs 0700 hours June 22 (gage height, 6.63 ft).
1948 to May 1972: Discharge, 7,800 cfs Sept. 10, 1950 (gage height, 8.56 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	46	47	11...	6.2	18	21...	48	17
2....	12	26	12...	6.0	20	22...	672	14
3....	8.7	22	13...	5.4	165	23...	112	12
4....	6.9	20	14...	8.0	36	24...	53	11
5....	17	29	15...	7.5	25	25...	39	10
6....	19	27	16...	8.6	22	26...	32	9.0
7....	34	21	17...	52	23	27...	26	7.7
8....	12	36	18...	32	21	28...	26	9.2
9....	9.2	36	19...	19	22	29...	32	10
10...	8.4	21	20...	20	18	30...	49	27
						31...		25
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							48	26
RUNOFF,IN INCHES.....							4.96	2.80

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	2.19	2.5	6-21	2315	11.35	3,940	6-24	2015	2.68	20
6-20	0515	2.18	2.5	6-21	2400	11.27	3,830	6-24	2400	2.66	19
6-20	1015	2.17	2.2								
6-20	1430	2.16	2.1								
6-20	1530	2.22	3.1	6-22	0015	11.20	3,740	6-25	0830	2.70	20
6-20	1930	2.26	4.0	6-22	0345	8.77	1,290	6-25	1300	2.66	18
6-20	2400	2.29	4.5	6-22	0545	8.39	1,050	6-25	2345	2.55	13
				6-22	0830	8.16	930	6-25	2400	2.55	13
				6-22	1100	6.98	445				
6-21	0615	2.32	5.3	6-22	1645	4.18	124				
6-21	1015	2.33	5.6	6-22	2015	3.50	76	6-26	1100	2.53	12
6-21	1345	2.35	6.2	6-22	2345	3.40	69	6-26	1400	2.51	11
6-21	1415	2.42	8.7	6-22	2400	3.42	70	6-26	2100	2.44	8.0
6-21	1445	2.63	19					6-26	2400	2.45	8.3
6-21	1515	2.97	39								
6-21	1630	4.06	115	6-23	0930	4.59	150				
6-21	1900	4.76	166	6-23	1000	4.57	149	6-27	0815	2.45	8.3
6-21	2015	6.31	317	6-23	1730	3.43	69	6-27	0830	2.38	6.0
6-21	2045	7.12	486	6-23	2400	3.06	43	6-27	1545	2.41	6.8
6-21	2115	8.24	970					6-27	1700	2.46	8.7
6-21	2145	9.69	2,020					6-27	1830	2.46	8.7
6-21	2230	11.17	3,700	6-24	0015	3.05	42	6-27	2400	2.44	8.0

(514) 01660400 AQUIA CREEK NEAR GARRISONVILLE, VA.

LOCATION.--Lat 38°29'25", long 77°26'02", Stafford County, on right bank at bridge on State Highway 641, 1.1 miles northwest of Garrisonville, and 3.0 miles upstream from Beaver Dam Run.

DRAINAGE AREA.--34.9 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Altitude of gage is 118 ft (from topographic map).

DISCHARGE RECORD.--Stage discharge relation defined by current-meter measurements below 406 cfs and by contracted-opening measurement at 11,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 11,600 cfs 0200 hours June 22 (gage height 16.32 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	29	90	11...	14	17	21...	1,210	8.1
2....	24	65	12...	13	22	22...	3,900	7.6
3....	19	75	13...	12	30	23...	458	7.0
4....	16	50	14...	14	25	24...	250	7.6
5....	30	35	15...	16	20	25...	170	7.6
6....	105	27	16...	23	15	26...	105	5.2
7....	77	22	17...	31	12	27...	70	4.0
8....	35	44	18...	20	10	28...	72	4.6
9....	23	35	19...	22	9.5	29...	85	4.6
10...	17	28	20...	22	8.6	30...	140	16
						31...		28
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							234	24
RUNOFF,IN INCHES.....							7.48	0.79

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	0.96	25	6-21	2200	10.00	4,860	6-22	1200	7.60	2,800
				6-21	2300	12.50	7,400	6-22	1300	6.90	2,270
				6-21	2400	15.50	10,600	6-22	1400	6.15	1,790
6-21	0600	0.98	28					6-22	1600	5.15	1,310
6-21	1200	1.00	30					6-22	1800	4.40	974
6-21	1400	1.50	107	6-22	0100	16.05	11,200	6-22	2000	3.80	746
6-21	1500	2.00	210	6-22	0200	16.32	11,600	6-22	2200	3.55	656
6-21	1600	2.45	320	6-22	0300	14.60	9,600	6-22	2400	3.52	638
6-21	1700	3.15	527	6-22	0400	13.65	8,560				
6-21	1800	5.20	1,310	6-22	0500	12.75	7,720				
6-21	1900	6.85	2,200	6-22	0600	11.85	6,660	6-23	0600	4.02	818
6-21	2000	7.85	2,950	6-22	0800	10.30	5,140	6-23	1200	3.88	782
6-21	2100	8.60	3,600	6-22	1000	9.00	3,960	6-23	1800	3.35	587
								6-23	2400	2.94	467

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-17	0100	3.16	62					6-22	0530	5.90	840
6-17	0230	3.83	104	6-20	0330	1.99	13	6-22	0630	6.55	1,480
6-17	0300	3.84	105	6-20	0400	2.00	14	6-22	0700	6.63	1,600
6-17	1000	3.01	56	6-20	1530	2.02	14	6-22	0800	6.56	1,490
6-17	1430	2.41	32	6-20	2000	2.38	31	6-22	1600	5.52	610
6-17	2130	2.18	22	6-20	2230	2.74	46	6-22	2200	4.29	183
6-17	2400	2.30	27	6-20	2400	2.64	42	6-22	2400	3.98	125
6-18	0300	2.81	48	6-21	0330	2.52	37	6-23	0430	3.84	105
6-18	0800	2.32	28	6-21	0800	2.80	48	6-23	1230	4.12	149
6-18	2300	2.32	28	6-21	1430	2.50	36	6-23	1300	4.10	145
6-18	2400	2.29	27	6-21	1830	2.99	56	6-23	2100	3.56	80
				6-21	2400	3.73	93	6-23	2400	3.37	71
6-19	0030	2.27	26								
6-19	2030	2.00	14	6-22	0100	3.91	115	6-24	0030	3.35	70
6-19	2100	1.99	13	6-22	0200	4.22	169	6-24	2330	2.66	42
6-19	2400	1.98	13	6-22	0300	5.23	474	6-24	2400	2.66	42
				6-22	0500	5.56	630				

(518) 01661050 ST. CLEMENT CREEK NEAR CLEMENTS, MD.

LOCATION.--Lat 38°28'00", long 76°43'31", St. Marys County, on left bank 60 ft downstream from bridge on State Highway 242, 0.5 mile north of Clements, 2.3 miles upstream from mouth, and 5.7 miles northwest of Leonardtown.

DRAINAGE AREA.--18.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 8 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 420 cfs and by contracted-opening and flow-over-road measurement at 4,350 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,350 cfs 0730 hours June 22 (gage height, 6.55 ft). 1969 to May 1972: Discharge, 1,500 cfs July 23, 1969 (gage height, 5.55 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	270	41	11...	12	20	21...	77	18
2....	63	31	12...	12	22	22...	1,580	16
3....	26	26	13...	11	191	23...	290	14
4....	19	23	14...	13	58	24...	145	13
5....	26	33	15...	12	28	25...	72	14
6....	24	40	16...	10	22	26...	51	12
7....	35	28	17...	136	45	27...	41	11
8....	19	28	18...	137	31	28...	36	12
9....	15	57	19...	213	22	29...	40	13
10...	14	26	20...	45	19	30...	42	39
						31...		44
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							116	32
RUNOFF,IN INCHES.....							7.01	2.00

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-17	0100	1.44	21	6-19	2330	1.79	55	6-22	0300	4.51	505
6-17	0100	1.55	31	6-19	2400	1.77	53	6-22	0400	5.07	856
6-17	0300	2.41	124					6-22	0430	5.39	1,230
6-17	0730	3.10	179					6-22	0500	6.09	2,770
6-17	0800	3.10	179	6-20	0800	1.62	37	6-22	0630	6.46	3,990
6-17	2400	2.32	114	6-20	1730	1.62	37	6-22	0730	6.55	4,350
				6-20	1830	1.73	48	6-22	0800	6.48	4,070
				6-20	2000	1.91	68	6-22	1500	5.34	1,160
6-18	0800	1.71	46	6-20	2330	1.91	68	6-22	1830	4.81	666
6-18	0900	1.79	55	6-20	2400	1.89	66	6-22	2400	4.30	420
6-18	1000	2.06	85								
6-18	1130	2.66	147								
6-18	1830	3.13	182	6-21	0400	1.91	68	6-23	0030	4.27	411
6-18	2300	3.53	230	6-21	1200	1.88	65	6-23	1300	3.76	272
6-18	2330	3.79	278	6-21	1600	1.87	64	6-23	2400	3.36	206
6-18	2400	4.05	345	6-21	2130	2.23	104				
				6-21	2400	2.44	127				
								6-24	0030	3.32	201
								6-24	2400	2.11	90
6-19	0130	4.27	411								
6-19	1030	3.58	238	6-22	0100	2.82	158				
6-19	1830	2.12	91	6-22	0200	3.72	263				

(519) 01661430 GLEBE BRANCH AT VALLEY LEE, MD.

(Crest-stage station)

LOCATION.--Lat 38°11'40", long 76°31'13", at upstream side of culvert at private road, 200 ft downstream from culvert at State Highway 244, and 0.3 mile west of Valley Lee, St. Marys County.

DRAINAGE AREA.--0.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 20 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 29 cfs June 22 (gage height, 4.56 ft).
1968 to May 1972: Discharge, 100 cfs Aug. 20, 1969 (gage height, 8.66 ft).

(520) 01661500 ST. MARYS RIVER AT GREAT MILLS, MD.

LOCATION.--Lat 38°14'36", long 76°30'13", St. Marys County, on left bank at downstream side of bridge on State Highway 471 in Great Mills, 0.3 mile downstream from Western Branch, and 12.0 miles upstream from mouth.

DRAINAGE AREA.--24.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 10 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,500 cfs and by contracted-opening measurement at 4,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,890 cfs 1230 hours June 22 (gage height, 9.75 ft).
1947 to May 1972: Discharge, 7,950 cfs Aug. 20, 1969 (gage height, 13.34 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	204	58	11...	11	17	21...	15	9.1
2....	57	28	12...	9.8	16	22...	836	8.5
3....	26	20	13...	9.4	35	23...	233	7.9
4....	18	17	14...	10	24	24...	92	7.4
5....	20	37	15...	9.3	16	25...	47	7.2
6....	17	39	16...	8.3	13	26...	28	6.7
7....	21	22	17...	12	12	27...	21	6.4
8....	14	34	18...	16	11	28...	61	7.2
9....	12	58	19...	22	10	29...	43	7.7
10...	12	24	20...	14	9.3	30...	153	22
						31...		26
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							68	20
RUNOFF, IN INCHES							3.18	0.96

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.59	13								
6-21	1800	1.64	16	6-25	0100	2.06	60				
6-21	2230	1.69	19	6-25	2400	1.85	34	6-30	0100	3.31	214
6-21	2400	1.73	22					6-30	0130	3.43	228
								6-30	0430	3.13	194
				6-26	0200	1.84	32	6-30	0830	3.29	212
6-22	0130	1.78	26	6-26	2400	1.74	23	6-30	1600	2.45	114
6-22	0200	1.84	32					6-30	2400	2.24	86
6-22	0230	2.01	53								
6-22	0300	2.31	95	6-27	0030	1.74	23				
6-22	0530	5.28	459	6-27	2400	1.67	18	7-01	0030	2.23	84
6-22	0930	7.70	915					7-01	2400	1.86	35
6-22	1230	9.75	1,890								
6-22	1300	9.75	1,890	6-28	0330	1.66	17				
6-22	2130	6.32	606	6-28	0530	1.76	25	7-02	0030	1.86	35
6-22	2400	5.20	449	6-28	0630	2.04	58	7-02	2400	1.71	21
				6-28	0800	1.96	47				
				6-28	1230	2.37	103				
6-23	0030	5.02	426	6-28	1400	2.38	104	7-03	1230	1.71	21
6-23	0530	3.86	279	6-28	2330	2.00	52	7-03	1900	1.67	18
6-23	2400	2.60	133	6-28	2400	2.00	52	7-03	2400	1.65	17
6-24	0030	2.57	129	6-29	2230	1.83	31	7-04	1200	1.67	18
6-24	2400	2.06	60	6-29	2300	1.90	39	7-04	2030	1.64	16
				6-29	2400	2.36	102	7-04	2400	1.63	16

(522) 01662000 RAPPAHANNOCK RIVER NEAR WARRENTON, VA.

LOCATION.--Lat 38°41'05", long 77°54'15", Fauquier County, on left bank 50 ft downstream from bridge on U.S. Highway 211, 0.9 mile downstream from Carter Run, 6.2 miles southwest of Warrenton, 15 miles upstream from Hazel River, and at mile 53.0.

DRAINAGE AREA.--195 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 312.57 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 24,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 21,900 cfs 0230 hours June 22 (gage height, 20.87 ft).
1942 to May 1972: Discharge, 32,000 cfs Oct. 15, 1942 (gage height, 23.5 ft, from flood-mark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	308	796	11...	122	250	21...	3,890	170
2....	216	532	12...	118	235	22...	14,300	155
3....	191	1,550	13...	116	287	23...	3,600	145
4....	181	584	14...	141	270	24...	1,650	135
5....	287	483	15...	145	225	25...	920	125
6....	191	469	16...	126	195	26...	664	115
7....	178	382	17...	154	424	27...	522	105
8....	152	354	18...	171	410	28...	483	125
9....	141	302	19...	150	239	29...	620	125
10...	132	275	20...	130	195	30...	2,180	160
						31...		228
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,070	324
RUNOFF, IN INCHES							6.14	1.92

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.61	138	6-22	0230	20.87	21,900	6-24	2400	5.36	1,120
6-20	1930	2.58	132	6-22	0800	19.78	18,600				
6-20	2400	2.64	145	6-22	2300	12.19	5,320				
				6-22	2400	11.68	4,900	6-25	0030	5.35	1,120
								6-25	2400	4.55	780
6-21	0900	2.86	198								
6-21	1230	3.08	255	6-23	0030	11.44	4,710				
6-21	1530	3.61	424	6-23	0630	10.06	3,650	6-26	0030	4.53	772
6-21	1600	4.01	564	6-23	2000	9.32	3,150	6-26	2400	4.08	592
6-21	1630	5.55	1,210	6-23	2400	8.19	2,500				
6-21	1730	10.95	4,320								
6-21	1900	13.40	6,450					6-27	0030	4.07	588
6-21	2030	18.15	13,800	6-24	0030	8.07	2,440	6-27	2400	3.78	483
6-21	2400	20.44	20,600	6-24	2130	5.51	1,190				

(523) 01662300 THORNTON RIVER TRIBUTARY NEAR THORNTON GAP, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°40'08", long 78°17'30", Rappahannock County, at culvert on U.S. Highway 211, 1.8 miles east of Thornton Gap.

DRAINAGE AREA.--1.38 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,390 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 140 cfs 0215 hours June 22 (gage height, 9.90 ft).
1967 to May 1972: Discharge, 64 cfs Sept. 12, 1971 (gage height, 8.34 ft).

GREAT WIOCOMICO RIVER BASIN

(521) 01661800 BUSH MILL STREAM NEAR HEATHSVILLE, VA.

LOCATION.--Lat 37°52'36", long 76°29'42", Northumberland County, on right bank 12 ft upstream from bridge on State Highway 601, 2.2 miles northwest of Howland, 3.0 miles southwest of Heathsville, and 3.5 miles upstream from mouth.

DRAINAGE AREA.--6.82 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 23.78 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 63 cfs.

MAXIMUMS.--June-July 1972: Discharge, 165 cfs 0730 hours June 22 (gage height, 5.42 ft).
1964 to May 1972: Discharge, about 450 cfs Aug. 20, 1969 (gage height, 6.13 ft, from flood-marks).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	22	13	11...	5.6	6.6	21...	10	4.6
2....	9.6	9.2	12...	5.1	9.8	22...	91	4.3
3....	7.9	8.3	13...	5.0	14	23...	26	4.1
4....	7.0	8.3	14...	7.5	8.5	24...	16	3.9
5....	8.3	15	15...	5.4	6.6	25...	12	3.8
6....	8.9	12	16...	4.6	5.8	26...	10	3.8
7....	11	8.3	17...	5.0	5.4	27...	8.9	3.8
8....	7.5	8.3	18...	17	5.2	28...	8.2	4.1
9....	6.3	9.2	19...	8.9	4.8	29...	8.8	5.5
10...	6.2	7.2	20...	6.8	4.7	30...	20	7.9
						31...		7.9
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							13	7.2
RUNOFF,IN INCHES							2.05	1.22

(524) 01662500 RUSH RIVER AT WASHINGTON, VA.

LOCATION.--Lat 38°42'50", long 78°09'05", Rappahannock County, on left bank 20 ft upstream from bridge on old U.S. Highways 211 and 522 and 0.5 mile east of Washington.

DRAINAGE AREA.--14.7 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 597.97 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,300 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,460 cfs 0230 hours June 22 (gage height, 6.44 ft).
1954 to May 1972: Discharge, 2,500 cfs Aug. 18, 1955 (gage height, 8.14 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	24	41	11...	8.3	10	21...	334	10
2....	19	28	12...	7.9	10	22...	613	11
3....	16	26	13...	8.3	12	23...	242	10
4....	15	23	14...	11	10	24...	158	10
5....	17	24	15...	9.4	9.5	25...	106	10
6....	13	19	16...	8.7	10	26...	67	9.8
7....	12	16	17...	11	9.8	27...	48	10
8....	11	14	18...	11	10	28...	43	9.5
9....	9.4	12	19...	8.7	10	29...	60	9.5
10...	9.0	10	20...	17	10	30...	55	12
						31...		66
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							66	16
RUNOFF,IN INCHES							4.99	1.22

(525) 01662800 BATTLE RUN NEAR LAUREL MILLS, VA.

LOCATION.--Lat 38°39'20", long 78°04'27", Rappahannock County, on left bank just upstream from bridge on State Highway 729, 0.8 mile upstream from mouth, and 1.0 mile northeast of Laurel Mills.

DRAINAGE AREA.--27.6 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 374.62 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,230 cfs 1900 hours June 21 (gage height, 11.53 ft).
1958 to May 1972: Discharge, 1,120 cfs May 21, 1960 (gage height, 11.37 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	36	39	11...	21	22	21...	317	24
2....	32	40	12...	21	22	22...	404	23
3....	30	40	13...	21	24	23...	122	21
4....	30	32	14...	23	22	24...	68	20
5....	30	34	15...	21	20	25...	51	19
6....	26	32	16...	21	26	26...	43	18
7....	24	29	17...	25	99	27...	38	18
8....	22	27	18...	23	43	28...	37	19
9....	22	25	19...	21	32	29...	47	20
10...	21	23	20...	22	27	30...	58	28
						31...		33
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							56	29
RUNOFF,IN INCHES							2.26	1.21

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	3.08	28	6-21	2300	9.43	760	6-22	1100	5.96	276
				6-21	2400	9.46	780	6-22	1200	5.63	241
								6-22	1400	5.20	196
6-21	0600	3.30	39					6-22	1600	4.92	167
6-21	1200	3.13	30	6-22	0100	9.67	820	6-22	1800	4.74	154
6-21	1400	3.29	38	6-22	0200	10.10	900	6-22	2000	4.63	144
6-21	1500	3.70	65	6-22	0300	10.72	1,030	6-22	2200	4.57	136
6-21	1600	6.25	297	6-22	0400	10.35	960	6-22	2400	4.59	140
6-21	1700	8.30	570	6-22	0500	9.65	800				
6-21	1800	10.85	1,060	6-22	0600	9.05	680				
6-21	1900	11.53	1,230	6-22	0700	8.35	585	6-23	0600	4.60	140
6-21	2000	11.15	1,160	6-22	0800	7.60	467	6-23	1200	4.58	140
6-21	2100	10.20	920	6-22	0900	6.90	376	6-23	1800	4.16	101
6-21	2200	9.58	800	6-22	1000	6.34	308	6-23	2400	3.98	86

(526) 01663500 HAZEL RIVER AT RIXEYVILLE, VA.

LOCATION.--Lat 38°35'30", long 77°57'55", Culpeper County, on right bank at downstream side of bridge on State Highway 229, 0.4 mile upstream from Waterford Run, 1.1 miles northeast of Rixeyville, 2.8 miles downstream from Thornton River, and 9.1 miles upstream from mouth.

DRAINAGE AREA.--287 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 288.30 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 27,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 25,000 cfs 0530 hours June 22 (gage height, 23.40 ft). 1937, 1942 to May 1972: Discharge, 60,000 cfs Oct. 15, 1942 (gage height, 31.8 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	554	1,080	11...	201	363	21...	4,670	269
2....	365	826	12...	195	345	22...	19,800	249
3....	323	766	13...	191	493	23...	4,690	233
4....	290	622	14...	219	385	24...	2,380	222
5....	332	601	15...	217	323	25...	1,630	203
6....	288	628	16...	197	300	26...	1,190	188
7....	283	532	17...	217	403	27...	934	176
8....	244	478	18...	283	610	28...	1,010	199
9....	228	442	19...	222	333	29...	1,450	212
10...	217	393	20...	203	288	30...	1,470	323
						31...		430
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,480	417
RUNOFF,IN INCHES.....							5.77	1.67

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	3.14	199					6-24	0030	9.70	3,040
6-20	2230	3.15	201					6-24	2400	7.53	1,860
6-20	2400	3.18	207	6-22	0530	23.40	25,000				
				6-22	0630	23.37	24,900				
				6-22	2000	19.20	13,900	6-25	0030	7.50	1,850
6-21	0400	3.42	260	6-22	2400	16.89	9,510	6-25	2400	6.45	1,350
6-21	0700	3.82	371								
6-21	0800	4.31	518								
6-21	1100	7.23	1,720	6-23	0030	16.50	8,880	6-26	0030	6.42	1,340
6-21	1530	8.24	2,230	6-23	0430	13.53	5,370	6-26	2400	5.69	1,030
6-21	1630	10.12	3,270	6-23	1430	11.64	4,180				
6-21	1700	12.76	4,860	6-23	2400	9.78	3,080				
6-21	1800	17.19	10,000					6-27	0030	5.68	1,020
6-21	2400	20.89	18,000					6-27	2400	5.20	830

(527) 01664000 RAPPAHANNOCK RIVER AT REMINGTON, VA.

LOCATION.--Lat 38°31'50", long 77°48'50", Fauquier County, on left bank 80 ft upstream from bridge on U.S. Highway 29 at Remington, 0.3 mile upstream from Tinpot Run, 0.4 mile downstream from Ruffans Run, 2.5 miles downstream from Hazel River, and at mile 35.2.

DRAINAGE AREA.--620 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 252.53 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 43,000 cfs and by slope-area measurement at 90,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 52,900 cfs 1030 hours June 22 (gage height, 24.82 ft). 1828 to May 1972: Discharge, 90,000 cfs Oct. 16, 1942 (gage height, 30.0 ft, from flood-marks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	47	71	11...	6.5	10	21...	555	9.3
2....	20	65	12...	6.5	12	22...	331	8.5
3....	14	53	13...	6.5	14	23...	218	8.0
4....	12	18	14...	7.6	11	24...	200	7.6
5....	13	16	15...	7.8	9.3	25...	200	7.2
6....	11	17	16...	7.6	8.5	26...	189	6.3
7....	10	15	17...	8.7	25	27...	184	6.0
8....	8.7	13	18...	15	27	28...	119	6.1
9....	8.0	12	19...	11	14	29...	96	7.4
10...	7.6	11	20...	10	11	30...	81	14
						31...		14
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							80	17
RUNOFF,IN INCHES.....							5.64	1.23

(530) 01665200 ROCK RUN TRIBUTARY NEAR GOLDVEIN, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°27'45", long 77°40'10", Fauquier County, at culvert on U.S. Highway 17, 1.5 miles northwest of Goldvein.

DRAINAGE AREA.--1.00 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 280 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 536 cfs 1915 hours June 21 (gage height, 7.37 ft). 1966 to May 1972: Discharge, 200 cfs Aug. 24, 1967 (gage height, 4.70 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1700	2.90	45	6-21	2000	6.28	379	6-22	0030	3.75	100
6-21	1730	3.12	57	6-21	2030	5.25	250	6-22	0100	3.62	90
6-21	1800	4.10	130	6-21	2100	4.77	197	6-22	0200	3.46	78
6-21	1830	5.93	332	6-21	2200	4.98	218	6-22	0300	3.67	94
6-21	1900	7.32	528	6-21	2300	4.67	187	6-22	0400	4.00	120
6-21	1915	7.37	536	6-21	2330	4.29	149	6-22	0500	3.70	96
6-21	1950	6.75	445	6-21	2400	4.00	120	6-22	0600	2.87	44

(531) 01665300 RAPIDAN RIVER NEAR STANARDSVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 38°21'13", long 78°22'29", Madison County, at bridge on State Highway 230, 5.3 miles northeast of Stanardsville.

DRAINAGE AREA.--37.6 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 575 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation not defined.

MAXIMUMS.--June-July 1972: Stage, 18.28 ft June 21. 1967 to May 1972: Stage, 17.0 ft Oct. 24, 1971.

(532) 01665400 CONWAY RIVER NEAR STANARDSVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 38°19'58", long 78°23'53", Madison County, at bridge on State Highway 230, 3.4 miles northeast of Stanardsville.

DRAINAGE AREA.--25.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 580 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation not defined.

MAXIMUMS.--June-July 1972: Stage, 20.43 ft June 21. 1967 to May 1972: Stage, 17.33 ft May 30, 1971.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,260	2,720	11...	394	720	21...	7,160	495
2....	764	1,820	12...	361	664	22...	45,800	452
3....	651	2,420	13...	353	808	23...	17,500	412
4....	581	1,640	14...	398	757	24...	7,010	386
5....	784	1,250	15...	445	621	25...	3,850	351
6....	631	1,400	16...	398	552	26...	2,730	329
7....	575	1,100	17...	400	726	27...	2,060	303
8....	495	963	18...	582	1,250	28...	1,910	331
9....	452	872	19...	548	693	29...	2,660	357
10...	425	781	20...	439	556	30...	3,970	476
						31...		748
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,520	871
RUNOFF,IN INCHES.....							6.33	1.62

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	3.99	474					6-24	2400	9.54	4,610
6-20	0045	3.99	474	6-22	0915	24.79	52,700				
6-20	2400	3.92	432	6-22	1030	24.82	52,900				
				6-22	2400	20.84	31,300	6-25	0015	9.51	4,580
								6-25	2400	7.82	3,220
6-21	1030	4.17	586								
6-21	1230	4.42	748	6-23	0015	20.75	30,900				
6-21	1515	6.08	1,910	6-23	1415	16.22	14,200	6-26	0015	7.80	3,200
6-21	1615	7.51	2,980	6-23	2400	14.64	10,300	6-26	2400	6.69	2,370
6-21	1815	15.48	12,200								
6-21	1845	17.38	17,800								
6-21	2400	21.74	35,700	6-24	0015	14.61	10,200	6-27	0015	6.67	2,350
				6-24	2000	10.08	5,070	6-27	2400	5.98	1,840

(528) 01664800 HARPERS RUN NEAR MORRISVILLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°31'00", long 77°43'05", Fauquier County, at culvert on U.S. Highway 17, 1.7 miles northwest of Morrisville.

DRAINAGE AREA.--2.28 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 285 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,900 cfs 1930 hours June 21 (gage height, 12.53 ft). 1966 to May 1972: Discharge, 460 cfs July 28, 1969 (gage height, 5.65 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1530	3.00	80	6-21	2100	7.40	810	6-22	0130	4.50	260
6-21	1600	5.45	421	6-21	2130	6.40	610	6-22	0200	4.30	232
6-21	1630	5.90	510	6-21	2200	6.00	530	6-22	0330	4.25	225
6-21	1700	6.25	580	6-21	2230	6.10	550	6-22	0400	4.85	316
6-21	1730	6.45	620	6-21	2300	6.45	620	6-22	0430	4.97	335
6-21	1800	6.50	630	6-21	2330	6.50	630	6-22	0500	4.75	300
6-21	1830	8.50	1,030	6-21	2400	6.40	610	6-22	0530	4.40	246
6-21	1900	10.90	1,530					6-22	0600	4.00	190
6-21	1930	12.53	1,900					6-22	0630	3.60	142
6-21	2000	11.20	1,590	6-22	0030	5.80	490	6-22	0700	3.30	110
6-21	2030	9.00	1,130	6-22	0100	5.00	340	6-22	0830	3.00	80

(529) 01665000 MOUNTAIN RUN NEAR CULPEPER, VA.

LOCATION.--Lat 38°28'50", long 78°03'10", Culpeper County, on left bank 30 ft upstream from bridge on State Highway 641, 3.0 miles west of Culpeper, and 14.5 miles upstream from Jonas Run.

DRAINAGE AREA.--15.9 sq mi, of which 10.9 sq mi are above flood-detention structures.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 389.46 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 910 cfs and by slope-area measurement at 5,440 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,040 cfs 1645 hours June 21 (gage height, 9.86 ft). 1950 to May 1972: Discharge, 5,440 cfs Aug. 18, 1955; gage height, 11.20 ft Dec. 4, 1950.

REMARKS.--Records computed and furnished by the State of Virginia.

(533) 01665500 RAPIDAN RIVER NEAR RUCKERSVILLE, VA.

LOCATION.--Lat 38°16'50", long 78°20'25", Madison County, on left bank at upstream side of bridge on U.S. Highway 29, 0.2 mile downstream from Elk Run, 1.7 miles upstream from White Run, 2.1 miles downstream from South River, 3.6 miles northeast of Ruckersville, and at mile 63.5.

DRAINAGE AREA.--114 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 439.44 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,000 cfs and by slope-area measurement at 20,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 17,600 cfs 1930 hours June 21 (gage height, 16.87 ft). 1942 to May 1972: Discharge, 30,700 cfs Oct. 15, 1942 (gage height, 20.8 ft, from floodmark in gage house).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	305	720	11...	90	183	21...	5,770	127
2....	206	547	12...	86	223	22...	6,720	117
3....	171	451	13...	83	304	23...	2,470	111
4....	150	374	14...	90	220	24...	1,450	101
5....	143	367	15...	84	185	25...	1,020	94
6....	131	325	16...	77	188	26...	740	88
7....	122	280	17...	100	203	27...	564	85
8....	109	248	18...	102	180	28...	495	89
9....	103	220	19...	87	156	29...	1,340	121
10...	96	200	20...	121	138	30...	977	203
						31...		220
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							800	228
RUNOFF,IN INCHES.....							7.83	2.31

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.19	76	6-21	2030	16.54	16,800	6-24	2400	4.09	1,180
6-20	1500	1.25	85	6-21	2400	14.57	12,300				
6-20	1730	1.39	107								
6-20	2200	1.93	233					6-25	0100	4.07	1,170
6-20	2300	2.25	315	6-22	0030	14.41	12,000	6-25	2400	3.48	840
6-20	2400	2.80	480	6-22	1430	8.94	4,750				
				6-22	2300	6.76	2,980				
				6-22	2400	6.72	2,950	6-26	0030	3.46	830
6-21	0200	3.76	993					6-26	2400	3.03	615
6-21	0630	5.68	2,230								
6-21	1300	5.87	2,360	6-23	0030	6.68	2,930				
6-21	1430	7.38	3,450	6-23	2400	5.02	1,760	6-27	0100	3.03	615
6-21	1600	10.42	6,160					6-27	2400	2.73	487
6-21	1800	15.93	15,200								
6-21	1930	16.87	17,600	6-24	0030	5.01	1,760				

(534) 01666500 ROBINSON RIVER NEAR LOCUST DALE, VA.

(Published as Robertson River prior to 1966)

LOCATION.--Lat 38°19'30", long 78°05'45", Madison County, on right bank 100 ft upstream from bridge on State Highway 614, 1.1 miles upstream from Great Run, 1.7 miles upstream from mouth, 2.0 miles southeast of Locust Dale, and 3.4 miles downstream from Crooked Run.

DRAINAGE AREA.--179 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 283.70 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,100 cfs and extended above on basis of records for other stations in Rappahannock River basin.

MAXIMUMS.--June-July 1972: Discharge, 24,500 cfs 0300 hours June 22 (gage height, 20.92 ft). 1942 to May 1972: Discharge, about 44,000 cfs Oct. 15, 1942 (gage height, 23.9 ft, from floodmarks).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.81	125	6-22	0300	20.92	24,500	6-25	0430	5.36	1,100
6-20	2030	1.89	138	6-22	0530	20.57	22,800	6-25	2400	4.32	774
6-20	2400	2.11	178	6-22	1900	15.32	7,360				
				6-22	2400	12.71	4,250				
								6-26	0030	4.30	768
6-21	0230	2.40	237					6-26	2400	3.71	588
6-21	0400	2.80	333	6-23	0030	12.48	4,090				
6-21	0530	4.05	690	6-23	1500	8.95	2,380				
6-21	0830	6.58	1,520	6-23	2400	7.29	1,770	6-27	0030	3.70	585
6-21	1500	8.17	2,080					6-27	2400	3.37	488
6-21	1600	11.71	3,640								
6-21	1930	16.78	10,600	6-24	0030	7.22	1,750				
6-21	2400	20.33	21,700	6-24	2400	5.25	1,070				

(535) 01667500 RAPIDAN RIVER NEAR CULPEPER, VA.

LOCATION.--Lat 38°21'01", long 77°58'31", Culpeper County, on left bank 0.7 mile upstream from Cedar Run and bridge on U.S. Highway 522, 8.5 miles south of Culpeper, and at mile 29.6.

DRAINAGE AREA.--472 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 241.36 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 43,000 cfs and by slope-area measurement at 58,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 55,600 cfs 0930 hours June 22 (gage height, 29.53 ft, from high-water mark in gage house).
1931 to May 1972: Discharge, 58,100 cfs Oct. 16, 1942 (gage height, 30.3 ft, from floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	1,290	1,820	11...	327	555	21...	5,740	433
2...	702	1,430	12...	313	576	22...	43,100	404
3...	576	1,160	13...	303	1,060	23...	10,200	381
4...	495	992	14...	332	723	24...	3,430	353
5...	562	976	15...	337	590	25...	2,430	332
6...	476	960	16...	308	520	26...	1,870	313
7...	445	816	17...	318	604	27...	1,630	288
8...	404	730	18...	470	751	28...	1,430	303
9...	376	667	19...	404	548	29...	2,680	348
10...	359	604	20...	364	470	30...	2,460	660
						31...		786
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							2,800	682
RUNOFF, IN INCHES							6.63	1.67

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.59	392	6-22	0930	29.53	55,600				
6-20	2145	1.53	359	6-22	1745	25.80	40,700				
6-20	2400	1.61	404	6-22	2400	21.06	23,700	6-25	0030	4.40	2,750
								6-25	2400	3.65	2,120
6-21	0630	1.88	576	6-23	0015	20.81	22,900				
6-21	0800	2.33	904	6-23	0815	15.23	11,600	6-26	0030	3.64	2,110
6-21	1200	4.41	2,730	6-23	1645	8.83	5,880	6-26	2400	3.31	1,820
6-21	1500	6.44	4,210	6-23	2400	6.96	4,570				
6-21	2300	20.05	20,700								
6-21	2400	21.19	24,200					6-27	0245	3.31	1,820
				6-24	0015	6.89	4,550	6-27	2400	2.97	1,510
				6-24	2330	4.43	2,780				
6-22	0730	29.15	54,100	6-24	2400	4.41	2,760				

(539) 01668300 FARMERS HALL CREEK NEAR CHAMPLAIN, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°00'05", long 76°58'40", Essex County, at culvert on U.S. Highway 17, 1.2 miles southeast of Champlain.

DRAINAGE AREA.--2.18 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph except 0015 to 1045 June 22. Altitude of gage is 50 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 452 cfs June 22 (gage height, 15.72 ft, from floodmarks).
1966 to May 1972: Discharge, 510 cfs Aug. 20, 1969 (gage height, 19.20 ft, from floodmarks).

(540) 01668500 CAT POINT CREEK NEAR MONTROSS, VA.

LOCATION.--Lat 38°02'23", long 76°49'38", Richmond County, on right bank 10 ft upstream from bridge on State Highway 637, 1.7 miles west of Farmers Fork, 3.8 miles south of Montross, and 11.4 miles upstream from mouth.

DRAINAGE AREA.--45.6 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 22. Datum of gage is 2.93 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,350 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,200 cfs June 22 (gage height, 9.33 ft from high-water mark in gage well).
1935, 1944 to May 1972: Discharge, 6,820 cfs Aug. 20, 1969 (gage height, 10.45 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	280	243	11...	60	54	21...	97	52
2...	206	168	12...	53	57	22...	2,260	48
3...	94	112	13...	49	106	23...	842	45
4...	66	89	14...	64	117	24...	426	48
5...	61	116	15...	58	92	25...	262	56
6...	109	160	16...	50	70	26...	195	50
7...	392	125	17...	44	63	27...	154	43
8...	145	82	18...	133	60	28...	130	41
9...	88	65	19...	186	58	29...	126	47
10...	70	59	20...	97	56	30...	174	70
						31...		74
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							232	81
RUNOFF, IN INCHES							5.69	2.06

(541) 01668800 HOSKINS CREEK NEAR TAPPAHANNOCK, VA.

LOCATION.--Lat 37°55'38", long 76°57'16", Essex County, at bridge on State Highway 717, 0.4 mile upstream from Criddlin Swamp, 2.9 miles downstream from site of Hutchinson Mill Pond (destroyed by flood of August 1969), and 5.0 miles west of Tappahannock.

DRAINAGE AREA.--15.5 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 34.30 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 120 cfs.

MAXIMUMS.--June-July 1972: Discharge, 289 cfs 0430 hours June 22 (gage height, 5.99 ft).
1965 to May 1972: Discharge, 1,380 cfs Aug. 20, 1969 (gage height, 10.23 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

(536) 01667600 CEDAR RUN TRIBUTARY NEAR CULPEPER, VA.

(Crest-stage station)

LOCATION.--Lat 38°23'50", long 78°00'25", Culpeper County, at culvert on U.S. Highway 522, 5 miles south of Culpeper.

DRAINAGE AREA.--0.58 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 325 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 125 cfs June 21 (gage height, 6.63 ft).
1966 to May 1972: Discharge, 117 cfs May 19, 1966 (gage height, 6.43 ft).

(537) 01668000 RAPPAHANNOCK RIVER NEAR FREDERICKSBURG, VA.

LOCATION.--Lat 38°19'20", long 77°31'05", Spotsylvania County, on right bank 1.6 miles upstream from dam of Virginia Electric & Power Co., 2.2 miles downstream from Motts Run, 3.8 miles upstream from Fredericksburg, and at mile 4.4.

DRAINAGE AREA.--1,596 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals, except 0700 hours June 22 to 1400 hours June 29. Datum of gage is 55.18 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current meter measurements below 7,500 cfs and by slope-area and flow-over-dam measurements at 140,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 107,000 cfs June 22 (gage height, 22.56 ft, from floodmarks).
1889 to May 1972: Discharge, 140,000 cfs Oct. 16, 1942 (gage height, 26.9 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,770	6,200	11...	821	1,650	21...	6,380	1,180
2....	2,230	4,120	12...	754	1,530	22...	84,200	1,060
3....	1,570	3,780	13...	727	2,200	23...	44,500	957
4....	1,330	3,520	14...	747	2,260	24...	18,200	892
5....	1,320	2,980	15...	881	1,690	25...	7,410	832
6....	1,610	3,080	16...	853	1,400	26...	5,100	757
7....	1,370	2,620	17...	780	1,310	27...	4,600	705
8....	1,150	2,250	18...	870	2,070	28...	4,800	665
9....	971	2,030	19...	1,480	1,980	29...	6,000	734
10...	888	1,830	20...	1,090	1,380	30...	7,960	971
						31...		1,750
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							7,110	1,950
RUNOFF,IN INCHES							4.97	1.41

(538) 01668200 GINGOTEAGUE RUN NEAR PORT ROYAL, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°12'40", long 77°09'10", King George County, at culvert on State Highway 623, 3.5 miles northeast of Port Royal.

DRAINAGE AREA.--2.82 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph except 2100 hours June 21 to 0900 hours June 22. Altitude of gage is 50 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 388 cfs June 22 (gage height, 9.94 ft, from floodmarks).
1966 to May 1972: Discharge, 130 cfs Aug. 20, 1969 (gage height, 8.4 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	90	67	11...	17	35	21...	53	27
2....	55	51	12...	16	38	22...	242	26
3....	33	41	13...	16	69	23...	138	24
4....	26	37	14...	19	59	24...	104	22
5....	25	57	15...	18	41	25...	82	21
6....	28	71	16...	16	35	26...	69	20
7....	35	53	17...	15	39	27...	61	18
8....	26	43	18...	35	36	28...	55	18
9....	21	49	19...	53	31	29...	59	23
10...	19	41	20...	35	28	30...	71	40
						31...		42
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							51	39
RUNOFF,IN INCHES							3.68	2.88

(542) 01669000 PISCATAWAY CREEK NEAR TAPPAHANNOCK, VA.

LOCATION.--Lat 37°52'37", long 76°54'03", Essex County, on right bank at upstream side of bridge on State Highway 691, 0.6 mile south of Henley Fork, 2.3 miles downstream from Sturgeon Swamp, and 4.2 miles southwest of Tappahannock.

DRAINAGE AREA.--28.0 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 2.50 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,090 cfs 1300 hours June 22 (gage height, 6.04 ft).
1952 to May 1972: Discharge, 2,380 cfs Aug. 20, 1969 (gage height, 7.52 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	183	92	11...	41	59	21...	99	44
2....	118	76	12...	40	66	22...	714	40
3....	77	69	13...	38	132	23...	324	38
4....	65	62	14...	43	109	24...	197	36
5....	59	91	15...	44	70	25...	147	34
6....	62	148	16...	38	60	26...	124	33
7....	76	86	17...	34	61	27...	108	31
8....	62	73	18...	46	63	28...	92	32
9....	48	75	19...	138	52	29...	92	37
10...	44	66	20...	92	47	30...	98	70
						31...		71
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							111	65
RUNOFF,IN INCHES							4.44	2.69

PLANKATANK RIVER BASIN

(543) 01669500 DRAGON SWAMP NEAR CHURCH VIEW, VA.

LOCATION.--Lat 37°41'05", long 76°43'37", Middlesex County, on left bank at downstream side of bridge on State Highway 602, 0.9 mile upstream from Briery Swamp, 1.8 miles downstream from Tim Branch Swamp, 2.6 miles west of Church View, and 2.9 miles east of Dragonville.

DRAINAGE AREA.--84.9 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 34.00 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,610 cfs 1000 hours June 24 (gage height, 7.81 ft).
1944 to May 1972: Discharge, 3,990 cfs June 4, 1963 (gage height, 10.00 ft).
Flood in September 1935 reached a stage of 17 ft, from information by local residents.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	234	147	11...	96	153	21...	91	125
2....	340	120	12...	74	136	22...	410	102
3....	280	102	13...	62	150	23...	1,040	90
4....	210	100	14...	56	171	24...	1,550	80
5....	186	107	15...	55	180	25...	1,250	74
6....	153	133	16...	52	174	26...	860	68
7....	125	147	17...	48	162	27...	560	66
8....	107	153	18...	52	133	28...	312	66
9....	96	162	19...	65	100	29...	210	73
10...	98	168	20...	76	109	30...	165	85
						31...		94
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							297	120
RUNOFF, IN INCHES							3.90	1.63

WARE RIVER BASIN

(544) 01670000 BEAVERDAM SWAMP NEAR ARK, VA.

LOCATION.--Lat 37°28'14", long 76°33'48", Gloucester County, on right bank 300 ft downstream from bridge on State Highway 606, 1.4 miles upstream from Beech Swamp, 2.3 miles north of Ark, and 4.3 miles northwest of Gloucester.

DRAINAGE AREA.--6.63 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 36.43 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 140 cfs.

MAXIMUMS.--June-July 1972: Discharge, 84 cfs 1030 hours June 22 (gage height, 3.39 ft).
1950 to May 1972: Discharge, 570 cfs Sept. 12, 1950 (gage height, 5.88 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	18	2.9	11...	3.0	1.1	21...	3.8	.94
2....	10	2.2	12...	2.8	2.7	22...	46	.89
3....	5.0	1.8	13...	3.0	12	23...	11	.84
4....	3.2	1.6	14...	4.1	4.1	24...	7.4	.80
5....	3.4	1.8	15...	3.9	2.6	25...	4.0	.86
6....	3.7	3.3	16...	2.9	1.9	26...	3.0	1.2
7....	3.8	2.4	17...	3.0	1.5	27...	2.6	1.5
8....	3.3	1.9	18...	6.0	1.3	28...	2.5	1.9
9....	3.2	1.5	19...	3.6	1.1	29...	3.1	3.0
10...	3.0	1.2	20...	2.9	.96	30...	3.4	12
						31...		8.4
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							6.0	2.7
RUNOFF, IN INCHES							1.00	0.46

YORK RIVER BASIN

(545) 01670100 MOUNTAIN RUN TRIBUTARY NEAR GORDONSVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 38°09'45", long 78°09'45", Orange County, at culvert on U.S. Highway 15, 2.2 miles northeast of Gordonsville.

DRAINAGE AREA.--0.50 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 425 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 147 cfs June 21 gage height, 11.13 ft).
1966 to May 1972: Discharge, 118 cfs Oct. 25, 1971 (gage height, 8.50 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	162	138	11...	47	64	21...	315	52
2....	104	110	12...	45	90	22...	6,410	48
3....	91	89	13...	41	230	23...	4,840	45
4....	76	70	14...	43	435	24...	1,350	41
5....	83	87	15...	45	382	25...	605	37
6....	87	130	16...	43	152	26...	350	34
7....	83	135	17...	42	93	27...	194	30
8....	69	112	18...	43	70	28...	151	30
9....	60	85	19...	48	62	29...	272	36
10...	52	72	20...	54	57	30...	170	80
						31...		130
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							533	104
RUNOFF, IN INCHES							5.55	1.12

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.60	55	6-22	1000	9.29	6,950	6-23	1200	8.06	4,890
				6-22	1200	9.58	7,580	6-23	1500	7.60	4,120
				6-22	1300	9.69	7,810	6-23	1800	7.14	3,480
6-21	0600	2.64	62	6-22	1400	9.76	8,050	6-23	2100	6.74	2,940
6-21	1200	2.69	70	6-22	1500	9.82	8,050	6-23	2400	6.36	2,420
6-21	1500	2.70	72	6-22	1600	9.86	8,300				
6-21	1800	3.11	158	6-22	1700	9.88	8,300				
6-21	2000	4.76	880	6-22	1800	9.84	8,050	6-24	0600	5.74	1,720
6-21	2200	5.37	1,340	6-22	2000	9.78	8,050	6-24	1200	5.25	1,250
6-21	2400	5.84	1,840	6-22	2200	9.67	7,810	6-24	1800	4.89	980
				6-22	2400	9.54	7,350	6-24	2400	4.64	820
6-22	0200	6.51	2,610	6-23	0300	9.23	6,760				
6-22	0400	7.59	3,970	6-23	0600	8.89	6,220	6-25	0600	4.45	708
6-22	0600	8.24	5,050	6-23	0900	8.49	5,530	6-25	1200	4.25	605
6-22	0800	8.84	6,040					6-25	1800	4.07	515
								6-25	2400	3.91	440

(548) 01671500 BUNCH CREEK NEAR BOSWELLS TAVERN, VA.

LOCATION.--Lat 38°01'54", long 78°11'30", Louisa County, on right bank at upstream side of bridge on U.S. Highway 15, 2.7 miles south of Boswells Tavern, 4.8 miles north of Zion Crossroads, 5.0 miles upstream from mouth, and 10 miles west of Louisa.

DRAINAGE AREA.--4.37 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 377.14 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 340 cfs and by contracted-opening measurement at 2,750 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,580 cfs 1800 hours June 21 (gage height, 10.44 ft).
1949 to May 1972: Discharge, 2,750 cfs Aug. 20, 1969 (gage height, 10.64 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	7.0	4.4	11...	1.8	2.2	21...	331	1.6
2....	3.4	3.5	12...	1.8	3.5	22...	122	1.4
3....	2.6	3.0	13...	1.8	6.1	23...	26	1.5
4....	2.6	2.7	14...	2.4	3.5	24...	12	1.6
5....	5.4	8.7	15...	2.4	2.7	25...	7.6	1.5
6....	3.0	5.2	16...	2.1	2.4	26...	4.9	1.3
7....	2.6	3.8	17...	2.4	2.2	27...	4.4	1.2
8....	2.1	3.0	18...	6.0	2.1	28...	4.1	1.4
9....	2.0	2.7	19...	18	1.8	29...	8.4	5.5
10...	1.9	2.4	20...	6.0	1.6	30...	4.4	16
						31...		5.2
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							20	3.4
RUNOFF, IN INCHES							5.12	0.90

(546) 01671000 NORTH ANNA RIVER NEAR DOSWELL, VA.

LOCATION.--Lat 37°53'15", long 77°29'15", Caroline County, on left bank 1.5 miles upstream from bridge on U.S. Highway 1, 2.5 miles northwest of Doswell, and 4.4 miles upstream from Bull Run.

DRAINAGE AREA.--441 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 55.66 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 23,300 cfs 2300 hours June 22 (gage height, 31.58 ft).
1927 to May 1972: Discharge, 24,800 cfs Aug. 21, 1969: gage height, 33.7 ft Aug. 12, 1928, from floodmarks.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	315	319	11...	216	242	21...	1,500	242
2....	262	284	12...	213	438	22...	15,700	236
3....	245	262	13...	213	3,020	23...	13,800	234
4....	234	251	14...	221	3,020	24...	1,210	229
5....	251	294	15...	221	595	25...	511	251
6....	242	358	16...	218	333	26...	358	221
7....	236	315	17...	218	284	27...	311	218
8....	231	274	18...	221	265	28...	501	221
9....	226	259	19...	254	358	29...	760	242
10...	221	251	20...	236	251	30...	401	353
						31...		410
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,320	469
RUNOFF,IN INCHES.....							3.35	1.23

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.82	245	6-22	1230	23.41	13,400	6-24	1730	2.90	720
6-20	0130	1.82	245	6-22	2200	31.54	23,300	6-24	2400	2.69	615
6-20	2400	1.80	239	6-22	2300	31.58	23,300				
				6-22	2400	31.50	23,200				
								6-25	0030	2.68	610
6-21	1700	1.95	284					6-25	2400	2.28	414
6-21	1800	2.07	326	6-23	0030	31.42	23,100				
6-21	1830	2.26	405	6-23	1630	19.39	9,720				
6-21	1900	2.73	635	6-23	2100	12.28	4,150	6-26	0030	2.27	410
6-21	1930	4.94	1,410	6-23	2400	9.17	2,760	6-26	2400	2.07	326
6-21	2230	17.88	8,360								
6-21	2400	19.81	10,100								
				6-24	0030	8.77	2,620	6-27	0100	2.07	326
				6-24	0730	4.86	1,390	6-27	2400	1.99	297

(547) 01671100 LITTLE RIVER NEAR DOSWELL, VA.

LOCATION.--Lat 37°52'21", long 77°30'48", Hanover County, on left bank at downstream side of bridge on State Highway 685, 0.8 mile southwest of Verdon, 2.9 miles west of Doswell, and 9.6 miles upstream from mouth.

DRAINAGE AREA.--107 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 132.30 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,600 cfs and by contracted-opening measurement at 12,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 8,300 cfs 1700 hours June 22 (gage height, 9.88 ft).
1962 to May 1972: Discharge, 12,000 cfs Aug. 21, 1969 (gage height, 11.09 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.68	11	6-21	1400	4.50	281	6-22	0300	4.67	301
				6-21	1500	5.00	362	6-22	0600	4.17	215
				6-21	1600	5.80	524	6-22	0900	3.46	102
6-21	0300	1.78	14	6-21	1700	7.25	900	6-22	1200	3.16	65
6-21	0600	1.81	15	6-21	1800	10.44	2,580	6-22	1500	2.99	46
6-21	0900	1.82	15	6-21	1900	8.90	1,680	6-22	1800	2.87	34
6-21	1000	1.97	20	6-21	2000	6.50	670	6-22	2100	2.79	27
6-21	1100	2.52	41	6-21	2100	5.82	508	6-22	2400	2.74	24
6-21	1200	3.37	109	6-21	2200	5.57	472				
6-21	1300	3.50	142	6-21	2300	5.27	409				
				6-21	2400	5.12	382				

(549) 01671750 HARRIS CREEK NEAR TREVILIANS, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°01'02", long 78°03'06", Louisa County, at culvert on State Highway 632, 2.7 miles southeast of Trevilians.

DRAINAGE AREA.--3.31 sq mi.

GAGE-HEIGHT RECORD.--Floodmarks only. Altitude of gage is 395 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 2,310 cfs June 21 (gage height, 14.54 ft, from floodmarks).
1969 to May 1972: Discharge, 3,300 cfs Aug. 20, 1969 (gage height, 16.7 ft, from floodmarks).

(550) 01672400 SOUTH ANNA RIVER TRIBUTARY NEAR ASHLAND, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°48'40", long 77°34'20", Hanover County, at culvert on State Highway 54, 5.5 miles northwest of Ashland.

DRAINAGE AREA.--0.33 sq mi.

GAGE-HEIGHT RECORD.--Floodmarks only. Altitude of gage is 175 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 414 cfs June 21 (gage-height, 9.93 ft, from floodmarks).
1966 to May 1972: Discharge, 360 cfs Aug. 20, 1969 (gage height, 9.3 ft, from floodmarks).

(551) 01672500 SOUTH ANNA RIVER NEAR ASHLAND, VA.

LOCATION.--Lat 37°47'48", long 77°32'57", Hanover County, on right bank at downstream side of bridge on State Highway 54, 4.5 miles northwest of Ashland, and 7.6 miles upstream from Newfound River.

DRAINAGE AREA.--394 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 83.74 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,600 cfs 2400 hours June 21 (gage height, 21.90 ft).
1928, 1931 to May 1972: Discharge, 17,100 cfs Aug. 23, 1969 (gage height, 24.99 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,290	493	11...	205	241	21...	2,180	198
2....	558	381	12...	195	284	22...	11,100	182
3....	408	330	13...	182	659	23...	7,630	170
4....	307	289	14...	175	961	24...	10,100	159
5....	286	481	15...	169	485	25...	10,900	156
6....	281	671	16...	170	318	26...	7,680	157
7....	363	584	17...	168	276	27...	2,530	147
8....	269	384	18...	169	232	28...	530	146
9....	238	306	19...	204	326	29...	556	162
10...	219	268	20...	354	222	30...	538	298
						31...		569
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,000	340
RUNOFF,IN INCHES.....							5.66	0.99

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.81	204								
6-20	0800	3.06	252	6-22	0030	21.89	12,500	6-25	0230	21.13	11,600
6-20	2330	4.27	543	6-22	1130	21.12	11,500	6-25	2400	19.50	9,650
6-20	2400	4.27	543	6-22	2400	18.87	8,970				
								6-26	0030	19.45	9,600
6-21	1730	4.00	475	6-23	0030	18.71	8,810	6-26	2400	14.73	5,510
6-21	1830	4.51	608	6-23	1630	17.08	7,270				
6-21	1900	5.76	991	6-23	2400	18.03	8,130				
6-21	1930	9.45	2,530					6-27	0030	14.56	5,390
6-21	2030	16.52	6,900					6-27	1630	6.09	1,070
6-21	2330	21.80	12,500	6-24	2330	21.07	11,500	6-27	2130	4.86	683
6-21	2400	21.90	12,600	6-24	2400	21.04	11,400	6-27	2400	4.66	623

(552) 01673000 PAMUNKEY RIVER NEAR HANOVER, VA.

LOCATION.--Lat 37°46'03", long 77°19'57", Hanover-King William County line, near center of span on downstream side of bridge on State Highway 614, 0.3 mile upstream from Mechumps Creek, 2.0 miles east of Hanover, and 7.0 miles upstream from Millpond Creek.

DRAINAGE AREA.--1,081 sq mi.

GAGE-HEIGHT RECORD.--Wire-weight gage read twice daily. Datum of gage is 14.72 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 21,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 29,900 cfs June 25 (gage height, 29.22 ft, from floodmarks).
1942 to May 1972: Discharge, 40,300 cfs Aug. 23, 1969 (gage height, 31.12 ft, from floodmarks).
Flood in August 1928 reached a stage of 32.6 ft, from information by local residents.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,740	1,520	11...	581	705	21...	2,370	893
2....	2,570	1,160	12...	545	775	22...	7,680	735
3....	1,120	895	13...	555	1,680	23...	25,000	581
4....	980	743	14...	584	3,570	24...	24,300	550
5....	850	1,040	15...	517	4,140	25...	16,300	512
6....	825	1,260	16...	475	3,430	26...	12,900	478
7....	895	1,280	17...	496	1,940	27...	9,480	443
8....	970	995	18...	536	1,320	28...	6,370	434
9....	965	865	19...	567	1,050	29...	3,590	526
10...	745	765	20...	1,090	955	30...	2,200	795
						31...		1,040
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4,290	1,200
RUNOFF,IN INCHES.....							4.43	1.28

(553) 01673500 TOTOPOTOMOY CREEK NEAR ATLEE, VA.

LOCATION.--Lat 37°40'09", long 77°22'58", Hanover County, on right bank at upstream side of bridge on U.S. Highway 301, 0.7 mile upstream from Opossum Creek, and 1.6 miles northeast of Atlee.

DRAINAGE AREA.--5.89 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 116.33 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 308 cfs 0300 hours June 22 (gage height, 6.88 ft).
1945, 1949 to May 1972: Discharge, 748 cfs Aug. 13, 1955 (gage height, 8.62 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

(555) 01674000 MATTAPONI RIVER NEAR BOWLING GREEN, VA.

LOCATION.--Lat 38°03'42", long 77°23'10", Caroline County, on left bank 0.1 mile upstream from bridge on State Highway 605, 2.2 miles northwest of Bowling Green, 2.4 miles upstream from South River, and 7.1 miles downstream from confluence of Matta and Poni Rivers.

DRAINAGE AREA.--257 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 85.14 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 8,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 13,400 cfs 0600 hours June 23 (gage height, 18.95 ft).
1942 to May 1972: Discharge, 10,400 cfs Oct. 17, 1942 (gage height, 17.45 ft).
Flood in August 1928 reached a stage of 19.5 ft, based on relative difference in stage between this flood and flood of Oct. 17, 1942, at Milford 4 miles downstream (discharge, 15,000 cfs).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	292	608	11...	150	186	21...	474	220
2....	284	428	12...	127	190	22...	4,820	190
3....	244	300	13...	114	805	23...	12,200	168
4....	212	244	14...	122	4,990	24...	5,120	154
5....	205	228	15...	133	3,600	25...	3,150	138
6....	220	316	16...	133	1,260	26...	1,300	127
7....	284	341	17...	135	608	27...	778	111
8....	324	332	18...	134	341	28...	498	107
9....	244	260	19...	140	284	29...	528	132
10...	186	212	20...	157	260	30...	630	236
						31...		428
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,110	574
RUNOFF,IN INCHES.....							4.82	2.58

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	3.67	171	6-22	2100	17.49	10,600	6-25	0600	12.44	3,960
				6-22	2400	18.37	12,200	6-25	1200	11.44	3,060
								6-25	1800	10.55	2,420
6-21	0600	3.77	186					6-25	2400	9.73	1,850
6-21	1200	3.88	205	6-23	0300	18.80	13,000				
6-21	1800	4.19	252	6-23	0600	18.95	13,400				
6-21	2000	5.00	388	6-23	0900	18.88	13,200	6-26	0600	9.05	1,500
6-21	2200	6.36	674	6-23	1200	18.72	12,800	6-26	0200	8.49	1,300
6-21	2400	7.35	950	6-23	1500	18.43	12,200	6-26	1800	7.98	1,130
				6-23	1800	18.08	11,600	6-26	2400	7.55	1,010
				6-23	2100	17.67	10,900				
6-22	0300	8.31	1,220	6-23	2400	17.23	10,000				
6-22	0600	9.15	1,600					6-27	0600	7.14	860
6-22	0900	10.19	2,140					6-27	1200	6.75	778
6-22	1200	11.60	3,240	6-24	0600	16.33	8,650	6-27	1800	6.36	674
6-22	1500	13.94	5,490	6-24	1200	15.35	7,360	6-27	2400	6.01	588
6-22	1800	15.85	7,920	6-24	1800	14.36	6,080				
				6-24	2400	13.40	4,940				

(556) 01674500 MATTAPONI RIVER NEAR BEULAHVILLE, VA.

LOCATION.--Lat 37°53'18", long 77°09'48", King William County, on right bank 0.4 mile upstream from bridge on State Highway 628, 2.4 miles north of Beulahville, and 2.7 miles downstream from Maracossic Creek.

DRAINAGE AREA.--601 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals, except June 24 to July 5. Datum of gage is 12.43 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,900 cfs June 25 (gage height, 23.97 ft, from floodmarks).
1928, 1942 to May 1972: Discharge, 12,300 cfs Aug. 23, 1969 (gage height, 24.04 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	45	7.2	11...	2.2	5.4	21...	30	4.2
2....	18	5.4	12...	2.0	12	22...	173	3.7
3....	9.5	4.7	13...	1.8	18	23...	37	3.2
4....	3.8	3.9	14...	2.0	10	24...	22	3.0
5....	4.0	54	15...	1.9	6.5	25...	14	2.7
6....	5.1	30	16...	1.8	5.7	26...	9.5	2.4
7....	4.0	14	17...	1.6	6.7	27...	7.5	2.5
8....	3.5	9.2	18...	2.3	5.7	28...	12	2.5
9....	3.0	7.0	19...	2.8	4.9	29...	14	3.7
10...	2.5	6.2	20...	2.2	4.7	30...	8.9	8.9
						31...		8.9
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							15	8.6
RUNOFF,IN INCHES							2.82	1.69

(554) 01673800 PO RIVER NEAR SPOTSYLVANIA, VA.

LOCATION.--Lat 38°10'17", long 77°35'42", Spotsylvania County, on right bank at upstream side of bridge on State Highway 208, 1.6 miles north of Snell, 2.0 miles south of Spotsylvania, 4.8 miles downstream from Gladys Run, and 4.9 miles upstream from U.S. Highway 1.

DRAINAGE AREA.--77.4 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 183.76 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 10,900 cfs 1600 hours June 22 (gage height, 19.03 ft).
1963 to May 1972: Discharge, 4,480 cfs Aug. 20, 1969 (gage height, 14.00 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	62	81	11...	33	40	21...	733	39
2....	62	64	12...	30	75	22...	8,160	36
3....	51	53	13...	28	1,400	23...	3,500	34
4....	44	46	14...	33	451	24...	540	30
5....	73	58	15...	40	111	25...	186	28
6....	76	106	16...	37	73	26...	119	26
7....	86	74	17...	36	58	27...	96	23
8....	59	57	18...	40	53	28...	112	23
9....	44	49	19...	48	48	29...	156	31
10...	38	45	20...	49	44	30...	124	97
						31...		131
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							490	112
RUNOFF,IN INCHES							7.06	1.67

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.62	53	6-22	0600	15.46	6,200	6-23	0800	13.76	4,240
				6-22	0800	16.50	7,350	6-23	1000	13.04	3,440
				6-22	1000	17.54	8,650	6-23	1200	12.29	2,850
6-21	0600	2.68	58	6-22	1200	18.38	10,000	6-23	1400	11.66	2,400
6-21	1200	2.76	64	6-22	1400	18.87	10,800	6-23	1600	11.09	2,040
6-21	1400	3.16	100	6-22	1600	19.03	10,900	6-23	1800	10.50	1,740
6-21	1600	3.79	174	6-22	1800	18.82	10,600	6-23	2000	9.71	1,420
6-21	1800	6.97	660	6-22	2000	18.39	10,000	6-23	2200	9.00	1,180
6-21	2000	11.95	2,620	6-22	2200	17.74	8,950	6-23	2400	8.33	960
6-21	2200	12.80	3,260	6-22	2400	16.97	7,980				
6-21	2400	13.01	3,440								
								6-24	0600	7.14	680
				6-23	0200	16.12	6,890	6-24	1200	6.60	580
6-22	0200	13.67	4,130	6-23	0400	15.30	5,970	6-24	1800	5.64	415
6-22	0400	14.43	4,940	6-23	0600	14.48	5,050	6-24	2400	4.67	280

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,230	2,300	11...	551	779	21...	721	881
2....	1,690	1,800	12...	462	703	22...	2,740	641
3....	1,650	1,400	13...	408	1,010	23...	5,730	541
4....	1,310	1,000	14...	400	1,370	24...	10,000	479
5....	902	1,090	15...	431	1,720	25...	16,200	427
6....	738	1,210	16...	460	2,520	26...	15,800	401
7....	713	1,310	17...	427	4,460	27...	12,000	374
8....	732	1,280	18...	471	4,000	28...	10,000	357
9....	739	1,120	19...	727	2,870	29...	4,900	370
10...	673	952	20...	703	1,710	30...	3,000	574
						31...		879
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							3,220	1,310
RUNOFF,IN INCHES							5.97	2.51

(557) 01674700 AYLETT CREEK AT AYLETT, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°47'05", long 77°06'23", King William County, at culvert on U.S. Highway 360, 2.8 miles upstream from mouth.

DRAINAGE AREA.--6.17 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 30 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 625 cfs 0430 hours June 22 (gage height, 4.75 ft).
1969 to May 1972: Discharge, 320 cfs Aug. 20, 1969 (gage height, 4.50 ft).

JAMES RIVER BASIN

(558) 02011500 BACK CREEK NEAR MOUNTAIN GROVE, VA.

LOCATION.--Lat 38°04'10", long 79°53'50", Bath County, on left bank 0.3 mile downstream from Cummings Run, 0.8 mile downstream from bridge on State Highway 39, and 2.1 miles south of Mountain Grove.

DRAINAGE AREA.--134 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 11-21, 23-30, July 1-5, 8-13, 16-31. Datum of gage is 1,701.45 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,000 cfs and by slope-area measurements at 4,370, 7,940, and 8,630 cfs.

MAXIMUMS.--June-July 1972: Discharge, 8,270 cfs 1400 hours June 21 (gage height, 9.25 ft).
1951 to May 1972: Discharge, 12,700 cfs Mar. 7, 1967 (gage height, 10.77 ft).
Flood in March 1913 reached a stage of 17 ft, from information by local residents.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	84	120	11...	36	160	21...	5,340	78
2....	73	110	12...	33	125	22...	2,010	85
3....	64	140	13...	44	105	23...	792	60
4....	58	771	14...	52	88	24...	467	50
5....	53	4,370	15...	44	80	25...	316	45
6....	50	1,440	16...	47	70	26...	234	42
7....	48	636	17...	55	65	27...	180	65
8....	45	382	18...	68	60	28...	140	120
9....	42	273	19...	55	56	29...	170	350
10...	40	202	20...	500	67	30...	135	800
						31...		420
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							376	369
RUNOFF,IN INCHES							3.13	3.17

(559) 02012500 JACKSON RIVER AT FALLING SPRING, VA.

LOCATION.--Lat 37°52'36", long 79°58'39", Alleghany County, on right bank 20 ft upstream from Smith Bridge, 0.8 mile south of town of Falling Spring, 1.6 miles downstream from Falling Spring Creek, and 5.5 miles north of Covington.

DRAINAGE AREA.--411 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,333.49 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 17,000 cfs and extended above on basis of records for other stations in James River basin.

MAXIMUMS.--June-July 1972: Discharge, 16,100 cfs 1700 hours June 21 (gage height, 12.72 ft).
1926, to May 1972: Discharge, 24,700 cfs Mar. 17, 1936 (gage height, 14.74 ft).
Flood in March 1913 reached a stage of about 20 ft (discharge, about 50,000 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	355	590	11...	200	548	21...	9,620	306
2....	321	527	12...	190	482	22...	7,330	317
3....	296	468	13...	183	450	23...	2,300	338
4....	275	422	14...	200	401	24...	1,450	269
5....	257	4,930	15...	231	363	25...	1,040	240
6....	243	3,670	16...	216	340	26...	798	223
7....	241	1,700	17...	252	331	27...	638	215
8....	228	1,130	18...	336	312	28...	581	368
9....	215	837	19...	266	284	29...	722	2,390
10...	210	656	20...	282	269	30...	621	3,300
						31...		1,970
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,000	924
RUNOFF,IN INCHES.....							2.72	2.59

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	3.65	250								
6-20	2400	3.95	346	6-22	0030	12.32	14,500				
				6-22	1330	9.25	5,600	6-25	0030	5.66	1,200
				6-22	2300	8.00	3,120	6-25	2400	5.18	908
6-21	0330	4.46	534	6-22	2400	7.90	3,020				
6-21	0430	4.90	740								
6-21	0530	5.92	1,380					6-26	0100	5.17	902
6-21	0800	8.96	4,910	6-23	0030	7.86	2,980	6-26	2400	4.84	710
6-21	1100	11.49	11,500	6-23	2400	6.47	1,770				
6-21	1700	12.72	16,100								
6-21	1900	12.68	15,900					6-27	0030	4.83	705
6-21	2400	12.41	14,800	6-24	0030	6.45	1,760	6-27	2400	4.57	582
				6-24	2400	5.67	1,210				

(560) 02013000 DUNLAP CREEK NEAR COVINGTON, VA.

LOCATION.--Lat 37°48'10", long 80°02'50", Alleghany County, on right bank 20 ft downstream from bridge on U.S. Highway 60, 2.2 miles downstream from Ogle Creek, and 3.0 miles west of Covington.

DRAINAGE AREA.--164 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,294.70 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,500 cfs and by contracted-opening and slope-area measurements at 10,300 and 12,200 cfs, respectively.

MAXIMUMS.--June-July 1972: Discharge, 13,400 cfs 1230 hours June 21 (gage height, 15.65 ft).
1929 to May 1972: Discharge, 10,300 cfs Aug. 20, 1969 (gage height, 13.13 ft).
Flood of March 1913 reached a stage of 18 ft, from information by local residents.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.46	117	6-21	2400	10.09	7,380	6-24	2400	4.61	793
6-20	1100	2.64	146								
6-20	1800	3.08	245								
6-20	2400	4.01	559	6-22	0030	9.97	7,140	6-25	0130	4.60	775
				6-22	1100	7.78	3,790	6-25	2400	4.29	543
				6-22	2400	6.32	2,240				
6-21	0100	4.48	798								
6-21	0200	5.32	1,430					6-26	0100	4.28	536
6-21	0300	6.94	2,860	6-23	0030	6.29	2,210	6-26	2400	4.06	382
6-21	0500	10.06	7,320	6-23	2400	5.16	1,220				
6-21	0900	12.23	12,200								
6-21	1030	12.33	12,400					6-27	0030	4.06	382
6-21	2130	10.72	8,700	6-24	0030	5.14	1,210	6-27	2400	3.90	280

(562) 02015700 BULLPASTURE RIVER AT WILLIAMSVILLE, VA.

LOCATION.--Lat 38°12'00", long 79°34'21", Bath County, on right bank 324 ft upstream from bridge on State Highway 614 at Williamsville, and 0.75 mile upstream from Cowpasture River.

DRAINAGE AREA.--110 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,621.98 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,300 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,720 cfs 1700 hours June 21 (gage height, 4.54 ft).
1961 to May 1972: Discharge, 6,230 cfs Mar. 7, 1967 (gage height, 5.91 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	102	222	11...	63	171	21...	2,020	102
2....	94	171	12...	60	147	22...	1,150	91
3....	88	147	13...	63	147	23...	525	88
4....	77	135	14...	77	124	24...	338	77
5....	77	1,850	15...	74	116	25...	244	71
6....	74	764	16...	69	112	26...	200	69
7....	77	420	17...	94	112	27...	171	66
8....	71	299	18...	80	98	28...	171	102
9....	69	233	19...	71	91	29...	321	334
10...	66	200	20...	74	91	30...	266	568
						31...		365
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							231	245
RUNOFF,IN INCHES.....							2.34	2.56

(563) 02016000 COWPASTURE RIVER NEAR CLIFTON FORGE, VA.

LOCATION.--Lat 37°47'30", long 79°45'35", Alleghany County, on left bank 100 ft downstream from highway bridge, 2.5 miles upstream from confluence with Jackson River, and 4.0 miles southeast of Clifton Forge.

DRAINAGE AREA.--461 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,006.93 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 13,000 cfs, by slope-area measurement at 25,000 cfs, and extended above on basis of records for other stations in James River basin.

MAXIMUMS.--June-July 1972: Discharge, 15,700 cfs 0830 hours June 22 (gage height, 12.63 ft).
1926 to May 1972: Discharge, 34,200 cfs Mar. 18, 1936 (gage height, 18.62 ft).
Flood in March 1913 reached a stage of 20.8 ft, from floodmarks (discharge, about 45,000 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	84	130	11...	45	130	21...	8,080	58
2....	77	112	12...	43	117	22...	2,820	59
3....	71	101	13...	43	107	23...	1,170	76
4....	66	97	14...	51	95	24...	592	59
5....	62	2,060	15...	54	85	25...	352	52
6....	58	1,380	16...	46	77	26...	246	48
7....	54	553	17...	99	77	27...	188	46
8....	50	297	18...	224	92	28...	160	68
9....	48	203	19...	129	77	29...	175	1,270
10...	47	158	20...	119	65	30...	146	2,310
						31...		1,030
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							513	358
RUNOFF,IN INCHES							3.49	2.51

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.00	105					6-24	2400	3.46	436
6-20	1500	2.08	123								
6-20	2400	2.24	167	6-22	0030	8.45	5,140				
				6-22	0930	6.34	2,980	6-25	0100	3.45	430
				6-22	2400	4.93	1,680	6-25	2400	3.16	289
6-21	0130	2.49	252								
6-21	0230	2.84	383								
6-21	0300	3.48	746	6-23	0030	4.89	1,640	6-26	0030	3.15	285
6-21	0400	5.21	2,040	6-23	2230	4.00	840	6-26	2400	2.94	212
6-21	0500	7.72	4,360	6-23	2400	3.96	808				
6-21	0630	11.17	8,130								
6-21	1230	15.65	13,400					6-27	0030	2.94	212
6-21	2400	8.68	5,390	6-24	0030	3.95	800	6-27	2400	2.77	168

(561) 02014000 POTTS CREEK NEAR COVINGTON, VA.

LOCATION.--Lat 37°43'44", long 80°02'33", Alleghany County, on left bank at downstream side of bridge on State Highway 18, 0.8 mile downstream from Blue Spring Creek, and 5.2 miles southwest of Covington.

DRAINAGE AREA.--153 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,273.93 ft above mean sea level. Prior to Sept. 30, 1956, non-recording gage at site 1.3 miles downstream at different datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 12,400 cfs 1030 hours June 21 (gage height, 12.33 ft). 1929-56, 1966 to May 1972: Discharge, 7,510 cfs Jan. 23, 1935 (gage height, 10.10 ft, site and datum then in use).
Flood in March 1913 reached a stage of 12.5 ft, from information by local residents.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	122	153	11...	62	109	21...	8,870	45
2....	111	118	12...	58	98	22...	3,990	46
3....	100	102	13...	59	94	23...	1,630	52
4....	92	97	14...	63	79	24...	988	48
5....	86	725	15...	63	70	25...	658	39
6....	81	708	16...	61	65	26...	461	35
7....	80	427	17...	138	61	27...	327	35
8....	74	280	18...	195	62	28...	244	40
9....	69	189	19...	130	55	29...	241	59
10...	67	136	20...	208	49	30...	181	619
						31...		762
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							650	176
RUNOFF,IN INCHES							4.74	1.33

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	403	861	11...	161	534	21...	9,990	198
2....	336	660	12...	152	461	22...	12,900	235
3....	293	523	13...	148	473	23...	3,480	469
4....	259	434	14...	234	405	24...	1,750	278
5....	237	4,790	15...	220	332	25...	1,080	208
6....	220	5,660	16...	185	299	26...	775	177
7....	212	2,200	17...	266	304	27...	611	162
8....	201	1,280	18...	313	282	28...	510	572
9....	187	872	19...	308	242	29...	1,280	3,130
10...	174	671	20...	601	215	30...	1,220	6,760
						31...		3,930
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,290	1,210
RUNOFF,IN INCHES							3.12	3.03

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.51	275	6-21	2400	12.20	14,600	6-24	0030	5.05	2,270
6-20	0800	2.59	311					6-24	2400	4.12	1,340
6-20	1200	3.02	532								
6-20	1400	3.58	876	6-22	0830	12.63	15,700				
6-20	2100	3.64	922	6-22	1400	11.90	13,900	6-25	0030	4.10	1,320
6-20	2400	4.07	1,290	6-22	2300	7.81	6,020	6-25	2400	3.59	883
				6-22	2400	7.54	5,610				
6-21	0230	4.46	1,640					6-26	0030	3.59	883
6-21	0330	5.12	2,350	6-23	0030	7.42	5,430	6-26	2400	3.27	682
6-21	0700	9.44	8,840	6-23	1330	5.73	3,140				
6-21	1500	11.72	13,500	6-23	2400	5.07	2,290				
6-21	2000	12.61	15,600					6-27	0030	3.26	676
6-21	2300	12.26	14,800					6-27	2400	3.02	532

(564) 02016500 JAMES RIVER AT LICK RUN, VA.

LOCATION.--Lat 37°46'25", long 79°47'05", Botetourt County, on right bank at community of Lick Run, 1,000 ft downstream from bridge on U.S. Highway 220, 0.9 mile downstream from confluence of Cowpasture and Jackson Rivers, 1.8 miles south of Iron Gate, and at mile 338.9.

DRAINAGE AREA.--1,373 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 978.30 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 66,300 cfs 1900 hours June 21 (gage height, 27.01 ft). 1924, 1926 to May 1972: Discharge, 66,600 cfs Mar. 18, 1936 (gage height, 25.65 ft).
Flood in November 1877 reached a stage of about 33 ft (discharge, about 120,000).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,160	2,790	11...	561	2,090	21...	39,800	868
2....	1,010	2,340	12...	535	1,820	22...	35,200	945
3....	899	1,980	13...	518	1,770	23...	11,200	1,390
4....	827	1,700	14...	798	1,560	24...	6,520	1,020
5....	765	10,500	15...	807	1,330	25...	4,590	816
6....	716	14,200	16...	649	1,200	26...	3,500	696
7....	701	6,490	17...	920	1,150	27...	2,800	633
8....	650	4,280	18...	1,540	1,130	28...	2,430	1,210
9....	612	3,180	19...	1,160	1,020	29...	3,870	6,270
10...	591	2,510	20...	1,760	903	30...	3,390	16,400
						31...		9,520
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							4,350	3,350
RUNOFF,IN INCHES							3.53	2.81

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	3.03	1,000	6-22	0030	25.54	58,100	6-25	0030	6.44	5,310
6-20	0900	3.29	1,200	6-22	2300	12.60	17,000	6-25	2400	5.56	3,990
6-20	1530	4.19	2,130	6-22	2400	12.32	16,400				
6-20	2400	4.87	3,000								
								6-26	0030	5.54	3,960
				6-23	0030	12.12	16,000	6-26	2300	4.80	2,900
6-21	0200	5.64	4,110	6-23	1530	9.00	9,650	6-26	2400	4.98	3,150
6-21	0330	7.88	7,700	6-23	2400	8.12	8,100				
6-21	1400	24.59	53,300								
6-21	1900	27.01	66,300					6-27	0030	4.96	3,120
6-21	2130	26.54	63,600	6-24	0030	8.08	8,040	6-27	2100	4.40	2,380
6-21	2400	25.60	58,400	6-24	2400	6.40	5,250	6-27	2400	4.50	2,500

(565) 02017300 CRAIG CREEK NEAR NEW CASTLE, VA.

(Crest-stage station)

LOCATION.--Lat 37°30'06", long 80°06'18", Craig County, at bridge on State Highway 616, at New Castle.

DRAINAGE AREA.--112 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,245 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by step-backwater computations.

MAXIMUMS.--June-July 1972: Discharge, 16,500 cfs June 21 (gage height, 17.09 ft).
1967 to May 1972: Discharge, 3,600 cfs Dec. 31, 1969 (gage height, 10.49 ft).

(566) 02017400 JOHNS CREEK TRIBUTARY NEAR NEW CASTLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°30'30", long 80°11'20", Craig County, at culvert on State Highway 311, 4.2 miles west of New Castle.

DRAINAGE AREA.--1.57 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph except 0800 hours to 1700 hours June 21. Altitude of gage is 1,550 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 354 cfs June 21 (gage height, 8.48 ft, from floodmarks).
1967 to May 1972: Discharge, 75 cfs May 30, 1971 (gage height, 4.32 ft).

(567) 02017500 JOHNS CREEK AT NEW CASTLE, VA.

LOCATION.--Lat 37°30'22", long 80°06'25", Craig County, on right bank 20 ft downstream from bridge on State Highway 615 at New Castle and 1,700 ft upstream from mouth.

DRAINAGE AREA.--104 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals and water-stage-recorder graph. Datum of gage is 1,254.30 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,200 cfs and by slope-area measurement at 8,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 7,960 cfs 1030 hours June 21 (gage height, 12.48 ft).
1927 to May 1972: Discharge, 8,000 cfs Jan. 23, 1935 (gage height, 10.80 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	87	204	11...	34	93	21...	6,040	36
2....	77	141	12...	33	83	22...	2,120	60
3....	68	107	13...	31	70	23...	1,070	59
4....	60	93	14...	32	70	24...	753	39
5....	55	321	15...	37	63	25...	592	32
6....	51	284	16...	36	60	26...	449	28
7....	49	223	17...	175	52	27...	395	27
8....	44	181	18...	222	48	28...	364	28
9....	41	134	19...	187	43	29...	327	72
10...	37	110	20...	420	40	30...	257	456
						31...		343
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							471	116
RUNOFF, IN INCHES							5.06	1.29

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	4.63	338	6-21	1200	12.00	7,470	6-22	1600	10.46	5,980
				6-21	1400	13.01	8,800	6-22	1800	9.81	5,340
				6-21	1600	14.26	10,800	6-22	2000	9.37	4,740
6-20	0600	4.63	338	6-21	1800	15.77	13,600	6-22	2200	9.05	4,210
6-20	1200	4.74	390	6-21	2000	17.50	17,200	6-22	2400	8.81	3,960
6-20	1800	4.97	514	6-21	2200	18.73	19,400				
6-20	2000	5.24	664	6-21	2400	19.29	20,200				
6-20	2200	5.75	995					6-23	0600	8.23	3,250
6-20	2400	6.18	1,340					6-23	1200	7.87	2,920
				6-22	0200	18.59	19,200	6-23	1800	7.55	2,610
				6-22	0400	17.74	17,600	6-23	2400	7.31	2,310
6-21	0200	6.79	1,830	6-22	0600	16.55	15,400				
6-21	0400	7.88	2,920	6-22	0800	15.47	13,600				
6-21	0600	9.03	4,210	6-22	1000	14.10	11,000	6-24	0600	7.11	2,110
6-21	0800	10.00	5,180	6-22	1200	12.74	8,800	6-24	1200	6.94	1,960
6-21	1000	10.87	6,140	6-22	1400	11.40	6,960	6-24	1800	6.68	1,730
								6-24	2400	6.51	1,550

(570) 02018500 CATAWBA CREEK NEAR CATAWBA, VA.

LOCATION.--Lat 37°28'05", long 80°00'20", Botetourt County, on right bank 40 ft downstream from highway bridge, 1.0 mile downstream from Little Catawba Creek, 1.9 miles west of Haymakertown, and 8.2 miles northeast of Catawba.

DRAINAGE AREA.--34.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. The maximum gage height was determined from high-water mark in well. Datum of gage is 1,299.96 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,100 cfs and by slope-area measurement at 7,740 cfs.

MAXIMUMS.--June-July 1972: Discharge, 7,740 cfs 0900 hours June 21 (gage height, 10.35 ft).
1944 to May 1972: Discharge, 2,780 cfs Mar. 1, 1954 (gage height, 6.58 ft).
Flood in August 1940 reached a stage of 13.26 ft, from information by observer.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	27	44	11...	16	31	21...	2,970	16
2....	25	39	12...	15	29	22...	520	19
3....	24	35	13...	15	27	23...	228	24
4....	22	33	14...	15	25	24...	137	16
5....	22	159	15...	16	25	25...	97	14
6....	21	75	16...	14	21	26...	77	12
7....	20	54	17...	36	20	27...	61	12
8....	19	44	18...	22	19	28...	74	11
9....	18	37	19...	20	17	29...	63	19
10...	17	34	20...	128	17	30...	50	46
						31...		77
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							160	34
RUNOFF, IN INCHES							5.19	1.14

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.85	23	6-21	0745	9.82	6,950				
6-20	0515	1.86	23	6-21	0900	10.35	7,740	6-24	0015	2.90	170
6-20	0915	2.04	35	6-21	0915	9.96	7,140	6-24	2400	2.67	111
6-20	1100	2.33	64	6-21	1515	6.44	2,640				
6-20	1330	2.80	142	6-21	1945	5.12	1,460				
6-20	1715	2.86	159	6-21	2400	4.50	960	6-25	0115	2.67	111
6-20	2015	3.20	265					6-25	2400	2.53	85
6-20	2315	3.69	456								
6-20	2345	4.09	655	6-22	0015	4.48	944				
6-20	2400	4.37	856	6-22	0800	3.91	565	6-26	0115	2.53	85
				6-22	2330	3.33	312	6-26	2400	2.42	67
				6-22	2400	3.31	304				
6-21	0045	4.86	1,250								
6-21	0130	5.55	1,800					6-27	0115	2.42	67
6-21	0315	5.46	1,730	6-23	0030	3.31	304	6-27	2400	2.33	55
6-21	0615	5.87	2,070	6-23	2400	2.90	170				
6-21	0700	7.33	3,600								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	4.36	175								
6-20	0800	4.57	214	6-22	0030	9.50	3,630				
6-20	1400	5.35	405	6-22	0930	8.01	2,110	6-25	0030	5.90	645
6-20	2130	6.50	812	6-22	2400	7.13	1,390	6-25	2400	5.54	496
6-20	2400	7.30	1,210								
				6-23	0030	7.10	1,370	6-26	0030	5.53	492
6-21	0400	11.16	5,790	6-23	2400	6.35	873	6-26	2400	5.33	416
6-21	1030	12.48	7,960								
6-21	1300	12.39	7,780								
6-21	2400	9.66	3,830	6-24	0100	6.34	867	6-27	0330	5.32	412
				6-24	2400	5.89	641	6-27	2400	5.21	374

(568) 02017700 CRAIG CREEK TRIBUTARY NEAR NEW CASTLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°33'21", long 79°59'52", Craig County, at culvert on State Highway 606, 7.1 miles northeast of New Castle.

DRAINAGE AREA.--2.05 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,180 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 372 cfs 0300 hours June 21 (gage height, 7.85 ft).
1968 to May 1972: Discharge, 252 cfs Oct. 31, 1970 (gage height, 6.38 ft).

(569) 02018000 CRAIG CREEK AT PARR, VA.

LOCATION.--Lat 37°39'57", long 79°54'42", Botetourt County, on right bank 12 ft upstream from Chesapeake and Ohio Railway bridge, 700 ft downstream from Stony Run, 0.2 mile northeast of Horton, 0.4 mile northwest of Parr, and 12 miles upstream from mouth.

DRAINAGE AREA.--329 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 992.50 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 18,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 20,200 cfs 2400 hours June 21 (gage height, 19.29 ft).
1926 to May 1972: Discharge, 19,100 cfs Jan. 23, 1935 (gage height, 17.0 ft, from graph based on gage readings).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	274	560	11...	121	280	21...	9,000	135
2....	245	430	12...	113	249	22...	10,400	129
3....	222	350	13...	111	230	23...	3,060	192
4....	199	293	14...	117	214	24...	1,900	208
5....	183	601	15...	117	195	25...	1,350	150
6....	172	820	16...	111	187	26...	1,020	127
7....	162	584	17...	143	174	27...	792	118
8....	152	470	18...	487	169	28...	714	118
9....	138	377	19...	352	157	29...	1,090	135
10...	130	322	20...	504	146	30...	708	610
						31...		799
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,140	307
RUNOFF,IN INCHES.....							3.85	1.08

(571) 02018800 NORTH FORK NEAR FINCASTLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°32'07", long 79°56'03", Botetourt County, at culvert on State Highway 606, 3.9 miles northwest of Fincastle.

DRAINAGE AREA.--4.17 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,255 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 620 cfs 0600 hours June 21 (gage height, 7.00 ft).
1968 to May 1972: Discharge, 304 cfs Oct. 19, 1968 and Feb. 13, 1971 (gage height, 5.15 ft).

(572) 02019400 MILL CREEK NEAR BUCHANAN, VA.

(Crest-stage station)

LOCATION.--Lat 37°29'48", long 79°45'28", Botetourt County, at bridge on State Highway 636, 5 miles southwest of Buchanan.

DRAINAGE AREA.--29.6 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 950 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 50 cfs and by contracted-opening measurements at 6,990 and 7,680 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,370 cfs June 21 (gage height, 9.08 ft).
1950 to May 1972: Discharge, 7,200 cfs Oct. 15, 1954 and Aug. 25, 1961; gage height, 10.83 ft Aug. 25, 1961.
Flood in August 1928 reached a stage of 14 ft, from information by local residents.

(573) 02019500 JAMES RIVER AT BUCHANAN, VA.

LOCATION.--Lat 37°31'50", long 79°40'45", Botetourt County, on left bank at Chesapeake & Ohio Railway station at Buchanan, 300 ft upstream from bridge on U.S. Highway 11, 1,000 ft upstream from Purgatory Creek, 1.5 miles downstream from Looney Creek, and at mile 301.2.

DRAINAGE AREA.--2,075 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 802.90 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 110,000 cfs and extended above.

MAXIMUMS.--June-July 1972: Discharge, 111,000 cfs 0900 hours June 22 (gage height, 30.49 ft).
1870 to May 1972: Discharge, 142,000 cfs November 1877 (gage height, 34.9 ft, from flood-marks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,730	3,850	11...	916	2,760	21...	44,400	1,310
2....	1,610	3,230	12...	874	2,400	22...	92,200	1,300
3....	1,470	2,760	13...	838	2,260	23...	23,700	1,460
4....	1,360	2,400	14...	853	2,090	24...	10,800	1,660
5....	1,270	6,510	15...	1,380	1,850	25...	7,110	1,400
6....	1,190	19,000	16...	1,040	1,700	26...	5,290	1,300
7....	1,140	9,140	17...	1,270	1,610	27...	4,130	1,200
8....	1,090	5,630	18...	1,980	1,570	28...	3,480	1,100
9....	1,030	4,100	19...	2,130	1,500	29...	5,870	2,500
10...	961	3,280	20...	2,110	1,400	30...	4,970	20,000
						31...		11,000
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							7,610	3,980
RUNOFF,IN INCHES.....							4.09	2.21

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	3.95	1,860	6-22	0900	30.49	111,000				
6-20	1630	4.08	2,020	6-22	1245	29.45	105,000				
6-20	2100	4.76	2,900	6-22	2400	20.11	51,600	6-25	0015	7.80	8,460
6-20	2400	5.58	4,140					6-25	2400	6.61	6,020
				6-23	0015	19.85	50,300				
6-21	0400	7.00	6,800	6-23	0700	13.83	25,900	6-26	0015	6.60	6,000
6-21	0715	8.61	10,300	6-23	1930	10.58	15,400	6-26	2400	5.85	4,630
6-21	0730	10.46	15,100	6-23	2400	9.99	13,800				
6-21	1815	23.59	70,200								
6-21	2400	27.22	91,300					6-27	0030	5.84	4,610
				6-24	0015	9.96	13,700	6-27	2400	5.32	3,710
				6-24	2400	7.82	8,500				

(574) 02020500 CALFPASTURE RIVER ABOVE MILL CREEK, AT GOSHEN, VA.

LOCATION.--Lat 37°59'16", long 79°29'38", Rockbridge County, on left bank 20 ft upstream from bridge on State Highway 42 at Goshen, and 400 ft upstream from Mill Creek.

DRAINAGE AREA.--144 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,384.84 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,200 cfs and by slope-area measurement at 16,600.

MAXIMUMS.--June-July 1972: Discharge, 13,700 cfs 0100 hours June 22 (gage height, 11.43 ft). 1939 to May 1972: Discharge, 16,600 cfs May 30, 1971; gage height, 12.14 ft, June 18, 1949.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	101	400	11...	32	155	21...	4,820	59
2....	90	274	12...	30	149	22...	5,980	62
3....	78	211	13...	28	288	23...	1,030	61
4....	67	175	14...	32	211	24...	488	50
5....	60	2,270	15...	31	158	25...	315	49
6....	56	1,480	16...	28	123	26...	238	48
7....	53	578	17...	32	119	27...	193	47
8....	46	349	18...	39	100	28...	168	71
9....	41	248	19...	52	80	29...	629	323
10...	37	193	20...	80	65	30...	588	1,370
						31...		1,150
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							515	352
RUNOFF,IN INCHES.....							3.99	2.82

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.70	85					6-24	2400	3.45	371
6-20	1800	2.65	75	6-22	0100	11.43	13,700				
6-20	2400	2.78	103	6-22	0600	10.26	9,700				
				6-22	1100	7.75	4,330	6-25	0030	3.44	367
				6-22	1700	6.18	2,540	6-25	2400	3.18	267
6-21	0130	2.91	138	6-22	2400	5.25	1,890				
6-21	0330	3.20	225								
6-21	0530	3.35	278					6-26	0030	3.18	267
6-21	0630	3.78	465	6-23	0030	5.19	1,670	6-26	2400	3.02	213
6-21	0800	4.42	849	6-23	1830	4.15	758				
6-21	1100	6.24	2,600	6-23	2400	3.96	625				
6-21	2100	10.77	11,200					6-27	0130	3.01	210
6-21	2400	11.35	13,400					6-27	2400	2.89	174
				6-24	0030	3.95	620				

(575) 02021500 MAURY RIVER AT ROCKBRIDGE BATHS, VA.

LOCATION.--Lat 37°54'26", long 79°25'20", Rockbridge County, on right bank at Rockbridge Baths, 700 ft upstream from bridge on State Highway 39, and 1.0 mile upstream from Hays Creek.

DRAINAGE AREA.--329 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,100.33 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 16,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 19,000 cfs 0300 hours June 22 (gage height, 10.81 ft). 1929 to May 1972: Discharge, 33,000 cfs Mar. 17, 1936 (gage height, 13.07 ft).

(577) 02023300 SOUTH RIVER NEAR STEELES TAVERN, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°55'50", long 79°09'55", Augusta County, at bridge on State Highway 608, 3 miles east of Steeles Tavern.

DRAINAGE AREA.--15.7 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,600 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 360 cfs and by slope-area measurements at 2,770 and 4,700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,040 cfs 1630 hours June 21 (gage height, 5.80 ft). 1951 to May 1972: Discharge, 4,700 cfs Aug. 20, 1969 (gage height, 8.70 ft).

(578) 02024000 MAURY RIVER NEAR BUENA VISTA, VA.

LOCATION.--Lat 37°45'45", long 79°23'30", Rockbridge County, on right bank 0.5 mile downstream from South River, and 2.8 miles northwest of Buena Vista.

DRAINAGE AREA.--646 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 846.58 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 17,000 cfs and by slope-area measurement at 105,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 27,800 cfs 2300 hours June 21 (gage height, 17.10 ft). 1936 to May 1972: Discharge, 105,000 cfs Aug. 20, 1969 (gage height, 31.23 ft, from flood-marks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	588	1,170	11...	257	719	21...	14,100	449
2....	508	928	12...	240	756	22...	17,500	442
3....	457	867	13...	233	1,450	23...	4,610	613
4....	415	635	14...	240	1,100	24...	2,620	490
5....	384	4,560	15...	247	825	25...	1,660	422
6....	356	4,300	16...	240	695	26...	1,400	380
7....	340	2,180	17...	382	670	27...	1,010	354
8....	312	1,460	18...	408	603	28...	925	747
9....	290	1,050	19...	784	532	29...	1,440	1,850
10...	277	861	20...	972	482	30...	1,570	5,790
						31...		4,510
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,830	1,350
RUNOFF,IN INCHES.....							3.15	2.41

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	3.18	788	6-21	2400	17.06	27,700	6-24	0200	6.05	3,160
6-20	1200	3.12	752					6-24	2400	4.78	1,950
6-20	1730	3.63	1,070								
6-20	2200	4.42	1,670	6-22	0030	17.01	27,500				
6-20	2400	5.06	2,200	6-22	1300	13.50	16,600	6-25	0030	4.75	1,930
				6-22	2000	10.06	9,010	6-25	2400	4.30	1,570
				6-22	2400	9.03	7,200				
6-21	0230	6.08	3,190								
6-21	0430	8.05	5,680					6-26	0100	4.31	1,620
6-21	0630	9.10	7,320	6-23	0030	8.90	6,990	6-26	2400	3.66	1,130
6-21	1000	9.54	8,070	6-23	1800	6.28	3,410				
6-21	1430	13.31	16,100	6-23	2400	5.91	3,010				
6-21	2100	16.94	27,300					6-27	0030	3.66	1,130
6-21	2300	17.10	27,800					6-27	2400	3.33	908

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	295	746	11...	87	352	21...	7,940	157
2....	240	567	12...	81	357	22...	10,900	157
3....	206	437	13...	78	809	23...	2,450	257
4....	180	280	14...	85	496	24...	1,370	190
5....	159	3,430	15...	90	394	25...	838	150
6....	146	3,100	16...	84	311	26...	630	126
7....	141	1,440	17...	101	289	27...	430	111
8....	122	837	18...	131	24,	28...	432	159
9....	109	576	19...	126	193	29...	1,120	1,320
10...	100	450	20...	288	169	30...	990	3,980
						31...		2,940
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							998	807
RUNOFF,IN INCHES.....							3.39	2.83

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.67	141					6-24	2400	3.08	876
6-20	1230	1.90	215	6-22	0300	10.81	19,000				
6-20	1400	1.90	215	6-22	0730	10.30	16,500				
6-20	1500	2.15	325	6-22	1030	8.71	10,300	6-25	1600	2.91	757
6-20	1700	2.16	330	6-22	1800	7.01	5,610	6-25	1700	3.22	976
6-20	1730	2.44	477	6-22	2400	6.07	3,940	6-25	2400	3.01	827
6-20	2400	2.54	534								
				6-23	0030	6.01	3,850	6-26	0030	3.00	820
6-21	0330	3.26	1,010	6-23	0900	4.93	2,530	6-26	1330	2.74	654
6-21	0500	4.06	1,680	6-23	1330	4.36	1,950	6-26	1500	2.49	505
6-21	0800	5.49	3,140	6-23	2000	4.10	1,720	6-26	2400	2.41	461
6-21	1030	6.25	4,220	6-23	2200	4.40	2,000				
6-21	1230	7.54	6,750	6-23	2400	4.29	1,890				
6-21	1630	8.98	11,200					6-27	2230	2.29	395
6-21	2200	10.64	18,200					6-27	2330	2.58	558
6-21	2330	10.73	18,700	6-24	0030	4.26	1,860	6-27	2400	2.57	552
6-21	2400	10.71	18,600	6-24	1630	3.60	1,280				
				6-24	1800	3.22	976				

(576) 02022500 KERRS CREEK NEAR LEXINGTON, VA.

LOCATION.--Lat 37°49'32", long 79°26'36", Rockbridge County, on right bank 0.2 mile upstream from bridge on State Highway 602, 1.4 miles upstream from mouth, and 2.9 miles north of Lexington.

DRAINAGE AREA.--35.0 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 980.32 ft above mean sea level. Jan. 27, 1927, to Sept. 30, 1953, nonrecording gage at site 1,000 ft downstream at different datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,100 cfs and by contracted-opening and slope-area measurement at 23,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,300 cfs 1500 hours June 21 (gage height, 7.92 ft). 1927 to May 1972: Discharge, 23,000 cfs Sept. 10, 1950 (gage height, 13.8 ft, site and datum then in use).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	37	43	11...	18	37	21...	1,960	24
2....	31	37	12...	17	61	22...	348	37
3....	33	31	13...	17	58	23...	147	30
4....	26	48	14...	18	41	24...	94	24
5....	24	422	15...	17	33	25...	71	21
6....	19	134	16...	16	36	26...	57	19
7....	16	86	17...	28	30	27...	46	23
8....	14	65	18...	24	27	28...	41	234
9....	16	53	19...	23	24	29...	80	702
10...	18	43	20...	120	22	30...	57	390
						31...		250
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							114	100
RUNOFF,IN INCHES.....							3.65	3.28

(579) 02025500 JAMES RIVER AT HOLCOMBS ROCK, VA.

LOCATION.--Lat 37°30'04", long 79°15'46", Bedford County, on right bank at Holcombs Rock, 0.9 mile downstream from Pedlar River, and at mile 263.2.

DRAINAGE AREA.--3,259 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 548.53 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 73,000 cfs and extended above on basis of records for other stations in James River basin.

MAXIMUMS.--June-July 1972: Discharge, 126,000 cfs 1130 hours June 22 (gage height, 32.38 ft). 1900-17, 1927 to May 1972: Discharge, 150,000 cfs Aug. 20, 1969 (gage height, 35.50 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,280	6,260	11...	1,600	4,490	21...	62,100	2,370
2....	3,010	5,130	12...	1,540	4,150	22...	118,000	2,300
3....	2,670	4,600	13...	1,430	4,620	23...	44,500	2,340
4....	2,400	4,000	14...	1,480	4,310	24...	18,300	2,660
5....	2,220	16,300	15...	1,650	4,030	25...	11,800	2,490
6....	2,100	26,800	16...	2,000	3,440	26...	8,620	2,200
7....	2,030	16,400	17...	2,570	3,170	27...	6,630	1,960
8....	1,900	9,670	18...	2,960	3,170	28...	5,530	2,120
9....	1,800	6,810	19...	4,030	2,880	29...	7,780	4,690
10...	1,720	5,390	20...	5,850	2,650	30...	8,250	20,300
						31...		23,200
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							11,300	6,610
RUNOFF,IN INCHES.....							3.88	2.34

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	0030	6.18	3,280	6-21	1145	21.71	56,700				
6-18	0015	6.18	3,280	6-21	2000	29.55	106,000				
6-18	1530	5.94	2,910	6-21	2400	31.02	116,000	6-25	0015	11.11	14,400
6-18	2400	6.14	3,210					6-25	2400	9.42	9,760
				6-22	1130	32.38	126,000				
6-19	0830	6.63	4,000	6-22	1915	30.47	113,000	6-26	0015	9.41	9,740
6-19	1830	6.81	4,290	6-22	2400	27.28	90,500	6-26	2400	8.49	7,530
6-19	2400	6.69	4,090								
				6-23	0015	27.20	90,000	6-27	0015	8.49	7,530
6-20	1215	6.82	4,300	6-23	1115	17.83	38,400	6-27	2400	7.71	5,920
6-20	1600	7.84	6,180	6-23	2400	13.91	23,200				
6-20	2400	10.24	11,900								
								6-28	0015	7.71	5,920
				6-24	0015	13.87	23,100	6-28	2400	7.44	5,390
6-21	0415	12.93	19,900	6-24	2400	11.14	14,500				

(580) 02025800 BURTON CREEK TRIBUTARY NEAR LYNCHBURG, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°21'10", long 79°11'05", Campbell County, at culvert on access road just west of U.S. Highway 29, 0.6 mile south of city limits of Lynchburg.

DRAINAGE AREA.--2.36 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 765 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 790 cfs 1200 hours June 21 (gage height, 7.88 ft). 1966 to May 1972: Discharge, 380 cfs Apr. 2, 1970 (gage height, 5.40 ft).

(581) 02026000 JAMES RIVER AT BENT CREEK, VA.

LOCATION.--Lat 37°32'10", long 78°49'30", Nelson County, on left bank 300 ft upstream from bridge on U.S. Highway 60 at town of Bent Creek, 150 ft downstream from Bent Creek, 1.3 miles southeast of Gladstone, and at mile 222.9.

DRAINAGE AREA.--3,683 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 381.39 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 89,000 cfs and extended above on basis of velocity-area studies and records for other stations in James River basin.

MAXIMUMS.--June-July 1972: Discharge, 176,000 cfs 1900 hours June 21 (gage height, 27.13 ft, from high-water mark in gage house).
1925 to May 1972: Discharge, 144,000 cfs Aug. 20, 1969 (gage height, 24.77 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4,450	7,770	11...	2,200	5,980	21...	69,000	3,010
2....	3,870	6,440	12...	2,720	5,340	22...	130,000	2,720
3....	3,380	4,960	13...	1,520	6,990	23...	63,800	2,830
4....	3,070	4,020	14...	1,620	5,820	24...	22,000	3,080
5....	3,090	17,200	15...	1,870	4,910	25...	14,100	3,260
6....	2,510	24,400	16...	2,510	4,420	26...	11,300	2,730
7....	2,640	20,200	17...	2,420	4,160	27...	8,360	2,450
8....	2,370	11,800	18...	3,800	3,970	28...	6,960	2,520
9....	2,410	8,520	19...	4,640	3,610	29...	6,960	5,020
10...	2,020	6,810	20...	5,230	3,430	30...	9,920	13,300
						31...		24,300
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							13,400	7,290
RUNOFF,IN INCHES							4.05	2.28

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	5.02	5,260	6-22	0200	23.60	129,000	6-23	1800	13.02	38,600
6-21	0600	7.08	11,300	6-22	0400	23.32	126,000	6-23	2400	11.50	30,500
6-21	1000	8.55	16,700	6-22	1200	23.75	131,000				
6-21	1200	11.49	30,400	6-22	1800	24.00	134,000				
6-21	1400	16.89	63,200	6-22	2100	23.70	130,000	6-24	0300	10.96	27,800
6-21	1600	22.81	120,000	6-22	2400	22.85	120,000	6-24	0900	10.00	23,000
6-21	1700	25.00	147,000					6-24	1800	9.00	18,500
6-21	1900	27.13	176,000					6-24	2400	8.55	16,700
6-21	2200	25.75	157,000	6-23	0200	22.00	111,000				
6-21	2400	24.70	143,000	6-23	0600	19.90	89,100				
				6-23	1000	17.00	64,000	6-25	0600	8.18	15,200
				6-23	1400	14.50	47,500	6-25	1200	7.85	14,000
								6-25	2400	7.35	12,200

(582) 02027000 TYE RIVER NEAR LOVINGSTON, VA.

LOCATION.--Lat 37°42'55", long 78°58'55", Nelson County, on right bank at downstream side of bridge on State Highway 158, 3.5 miles downstream from Hat Creek, 4.8 miles upstream from Piney River, and 6.8 miles southwest of Lovingston.

DRAINAGE AREA.--92.8 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 19-21. Datum of gage is 578.39 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,500 cfs and by slope-area measurement at 80,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,200 cfs 1500 hours June 21 (gage height, 14.34 ft).
1934, 1939 to May 1972: Discharge, 80,000 cfs Aug. 20, 1969 (gage height, 29.0 ft, from floodmarks).

REMARKS.--Records computed and furnished by the State of Virginia.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	2400	1.37	92	6-20	1500	4.24	1,400	6-21	1200	8.87	6,940
				6-20	1800	5.18	2,030	6-21	1300	9.59	8,880
				6-20	2000	5.87	2,570	6-21	1400	9.95	10,000
6-19	0200	1.88	220	6-20	2200	6.38	3,010	6-21	1500	9.76	9,440
6-19	0300	3.64	1,040	6-20	2400	6.67	3,300	6-21	1600	9.45	8,320
6-19	0400	4.48	1,560					6-21	1700	9.18	7,760
6-19	0500	5.12	1,960					6-21	1800	9.03	7,210
6-19	0600	5.25	2,030	6-21	0100	6.83	3,400	6-21	1900	8.81	6,660
6-19	0700	5.10	1,960	6-21	0200	7.27	3,980	6-21	2000	8.65	6,160
6-19	0800	4.80	1,760	6-21	0300	7.50	4,240	6-21	2100	8.45	5,760
6-19	1000	4.35	1,470	6-21	0400	7.55	4,360	6-21	2200	8.15	5,360
6-19	1200	4.08	1,310	6-21	0500	7.37	4,110	6-21	2300	7.81	4,660
6-19	1800	3.57	982	6-21	0600	7.23	3,860	6-21	2400	7.60	4,360
6-19	2400	3.25	818	6-21	0700	7.16	3,860				
				6-21	0800	7.12	3,740				
				6-21	0900	7.12	3,740	6-22	0600	6.42	3,010
6-20	0600	3.20	790	6-21	1000	7.37	4,110	6-22	1200	5.67	2,410
6-20	1200	3.40	900	6-21	1100	8.00	4,960	6-22	1800	5.12	1,960
								6-22	2400	4.63	1,630

(584) 02027700 BUFFALO RIVER TRIBUTARY NEAR AMHERST, VA.

(Crest-stage station)

LOCATION.--Lat 37°33'45", long 78°57'35", Amherst County, at culvert on U.S. Highway 60, 5.2 miles southeast of Amherst.

DRAINAGE AREA.--0.46 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 590 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 187 cfs June 21 (gage height, 7.18 ft).
1966 to May 1972: Discharge, 30 cfs May 30, 1971 (gage height, 3.32 ft).

(585) 02027800 BUFFALO RIVER NEAR TYE RIVER, VA.

LOCATION.--Lat 37°36'20", long 78°55'25", Nelson County, on right bank 70 ft downstream from bridge on State Highway 657, 2.1 miles upstream from mouth, and 3.5 miles southeast of town of Tye River.

DRAINAGE AREA.--147 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 444.39 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,400 cfs and by slope-area measurement at 45,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 36,600 cfs 1800 hours June 21 (gage height, 25.22 ft).
1961 to May 1972: Discharge, 45,000 cfs Aug. 20, 1969 (gage height, 27.95 ft, from floodmark).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	160	453	11...	94	322	21...	13,800	245
2....	146	416	12...	91	451	22...	7,350	245
3....	142	433	13...	89	766	23...	3,050	245
4....	134	382	14...	94	382	24...	1,900	222
5....	150	2,960	15...	98	335	25...	1,300	210
6....	127	933	16...	87	322	26...	925	200
7....	123	543	17...	218	322	27...	748	180
8....	111	453	18...	170	447	28...	623	200
9....	105	382	19...	997	284	29...	623	365
10...	102	350	20...	766	263	30...	518	655
						31...		398
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,160	463
RUNOFF,IN INCHES							8.81	3.63

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	136	368	11...	100	254	21...	6,200	214
2....	116	329	12...	94	757	22...	3,610	288
3....	104	315	13...	92	967	23...	1,590	254
4....	118	286	14...	102	625	24...	1,040	195
5....	163	775	15...	90	488	25...	800	171
6....	145	534	16...	87	400	26...	650	155
7....	134	429	17...	291	348	27...	556	145
8....	121	364	18...	177	307	28...	484	210
9....	114	318	19...	1,200	257	29...	513	362
10...	108	280	20...	900	230	30...	433	675
						31...		556
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							676	382
RUNOFF,IN INCHES.....							8.12	4.75

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	2400	2.29	156	6-20	2000	5.00	1,320	6-21	2100	11.48	7,320
				6-20	2200	5.80	1,790	6-21	2200	11.24	6,920
				6-20	2400	6.60	2,300	6-21	2300	11.08	6,780
6-19	0100	2.35	170					6-21	2400	10.65	6,130
6-19	0200	2.90	320								
6-19	0300	5.00	1,320	6-21	0300	7.32	2,790				
6-19	0400	5.72	1,730	6-21	0600	7.25	2,720	6-22	0300	9.55	5,400
6-19	0500	6.20	2,040	6-21	0700	7.10	2,650	6-22	0600	8.74	4,500
6-19	0600	6.40	2,170	6-21	0800	7.50	2,930	6-22	0900	8.02	3,870
6-19	0900	6.39	2,170	6-21	0900	9.45	4,680	6-22	1200	7.37	3,330
6-19	1200	5.10	1,380	6-21	1000	10.00	5,350	6-22	1500	6.80	2,800
6-19	1500	4.55	1,080	6-21	1100	10.83	6,390	6-22	1800	6.42	2,480
6-19	1800	4.07	805	6-21	1200	12.00	8,000	6-22	2100	6.07	2,240
6-19	2100	3.75	658	6-21	1300	13.45	10,300	6-22	2400	5.81	2,000
6-19	2400	3.62	590	6-21	1400	14.07	11,800				
				6-21	1500	14.34	12,200				
				6-21	1600	13.40	10,300	6-23	0600	5.47	1,810
6-20	0600	3.50	545	6-21	1700	12.65	8,900	6-23	1200	5.12	1,590
6-20	1200	3.67	612	6-21	1800	12.25	8,300	6-23	1800	4.70	1,370
6-20	1500	3.93	755	6-21	1900	11.88	7,860	6-23	2400	4.48	1,260
6-20	1800	4.60	1,100	6-21	2000	11.67	7,600				

(583) 02027500 PINEY RIVER AT PINEY RIVER, VA.

LOCATION.--Lat 37°42'08", long 79°01'40", Amherst County, on right bank 20 ft upstream from bridge on State Highway 151, 0.2 mile southwest of Piney River Post Office, 1.7 miles downstream from Indian Creek, and 2.5 miles southeast of Lowesville.

DRAINAGE AREA.--47.6 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 633.58 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,000 cfs and by slope-area measurement at 38,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 10,000 cfs 1400 hours June 21 (gage height, 9.95 ft). 1949 to May 1972: Discharge, 38,000 cfs Aug. 20, 1969 (gage height, 13.8 ft, from floodmarks).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	108	176	11...	58	142	21...	5,620	145
2....	103	160	12...	54	342	22...	2,570	116
3....	97	142	13...	50	492	23...	1,270	103
4....	93	128	14...	52	372	24...	790	86
5....	90	478	15...	48	293	25...	532	76
6....	81	341	16...	50	236	26...	394	72
7....	74	271	17...	163	229	27...	317	70
8....	68	223	18...	95	236	28...	264	100
9....	64	193	19...	1,170	188	29...	242	147
10...	61	165	20...	1,460	168	30...	205	344
						31...		358
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							541	213
RUNOFF,IN INCHES.....							12.69	5.15

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	2400	1.86	146	6-20	1500	3.76	583	6-21	1600	23.00	30,500
				6-20	1800	4.60	870	6-21	1700	24.80	35,400
				6-20	2000	5.75	1,350	6-21	1800	25.22	36,600
6-19	0600	2.05	184	6-20	2200	6.15	1,540	6-21	1900	24.05	33,000
6-19	0700	5.00	1,010	6-20	2400	6.96	2,010	6-21	2000	22.45	29,000
6-19	0800	6.88	1,940					6-21	2100	20.60	24,500
6-19	0900	7.50	2,400					6-21	2200	19.00	21,000
6-19	1000	7.80	2,640	6-21	0300	7.06	2,080	6-21	2300	17.50	18,000
6-19	1100	7.22	2,160	6-21	0600	7.66	2,560	6-21	2400	16.40	15,800
6-19	1200	6.90	1,940	6-21	0700	7.95	2,800				
6-19	1400	5.70	1,300	6-21	0800	8.25	3,000				
6-19	1600	4.95	1,010	6-21	0900	8.75	3,600	6-22	0200	14.50	12,200
6-19	1800	4.62	870	6-21	1000	9.35	4,240	6-22	0400	13.00	10,000
6-19	2400	3.83	616	6-21	1100	10.20	5,120	6-22	0600	12.34	8,950
				6-21	1200	13.50	10,200	6-22	0900	11.30	7,600
				6-21	1300	15.00	13,000	6-22	1200	10.50	6,600
6-20	0600	3.47	496	6-21	1400	16.90	16,800	6-22	1800	9.20	5,040
6-20	1200	3.54	524	6-21	1500	20.00	23,000	6-22	2400	8.20	3,920

(586) 02028500 ROCKFISH RIVER NEAR GREENFIELD, VA.

LOCATION.--Lat 37°52'10", long 78°49'25", Nelson County, on left bank 50 ft downstream from bridge on State Highway 634, 2.8 miles downstream from confluence of North and South Forks, and 4.1 miles south of Greenfield.

DRAINAGE AREA.--94.6 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 530.29 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 8,200 cfs and by slope-area measurement at 70,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 17,500 cfs 1600 hours June 21 (gage height, 18.11 ft). 1943 to May 1972: Discharge, 70,000 cfs Aug. 20, 1969 (gage height, 31.2 ft, from floodmarks).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	154	368	11...	70	290	21...	6,940	240
2....	136	323	12...	66	496	22...	3,390	200
3....	125	299	13...	64	850	23...	1,290	170
4....	118	280	14...	77	550	24...	815	140
5....	126	596	15...	67	450	25...	690	125
6....	110	565	16...	60	360	26...	635	119
7....	101	425	17...	157	300	27...	522	117
8....	90	368	18...	107	250	28...	450	130
9....	84	338	19...	291	225	29...	530	265
10...	78	306	20...	620	190	30...	459	433
						31...		380
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							614	327
RUNOFF,IN INCHES.....							7.24	3.99

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	2.07	206	6-21	0300	7.22	3,080	6-21	2200	12.10	8,460
				6-21	0400	7.34	3,180	6-21	2300	11.55	7,850
				6-21	0500	7.40	3,280	6-21	2400	11.25	7,370
6-20	0600	2.09	210	6-21	0600	7.38	3,280				
6-20	1200	2.43	285	6-21	0800	7.12	2,980				
6-20	1500	2.80	408	6-21	1000	7.42	3,280	6-22	0300	9.72	5,650
6-20	1800	3.76	789	6-21	1100	7.92	3,780	6-22	0600	8.50	4,330
6-20	1900	4.18	988	6-21	1200	8.78	4,680	6-22	0900	7.60	3,340
6-20	2000	4.88	1,310	6-21	1300	10.00	5,980	6-22	1200	7.09	2,840
6-20	2100	5.46	1,680	6-21	1400	11.66	7,970	6-22	1800	6.30	2,090
6-20	2200	5.78	1,890	6-21	1500	16.35	14,700	6-22	2400	5.76	1,720
6-20	2300	6.05	2,030	6-21	1600	18.11	17,500				
6-20	2400	6.45	2,350	6-21	1700	17.00	15,700				
				6-21	1800	15.75	13,800	6-23	0600	5.43	1,480
				6-21	1900	14.40	11,600	6-23	1200	5.00	1,260
6-21	0100	6.74	2,610	6-21	2000	13.55	10,500	6-23	1800	4.69	1,100
6-21	0200	6.94	2,790	6-21	2100	12.80	9,370	6-23	2400	4.46	965

(587) 02029000 JAMES RIVER AT SCOTTSVILLE, VA.

LOCATION.--Lat 37°47'50", long 78°29'30", Albemarle County, on left bank 1,200 ft downstream from bridge on State Highway 20 at Scottsville, 6.8 miles upstream from Hardware River, and at mile 184.6.

DRAINAGE AREA.--4,584 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, except 2115 hours June 21 to 1300 hours June 27. Datum of gage is 253.18 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 120,000 cfs and by slope-conveyance study of maximum flow. Discharge June 22-27 estimated on basis of floodmarks, occasional gage-height readings, and comparison with upstream station.

MAXIMUMS.--June-July 1972: Discharge, 301,000 cfs 0200 hours June 22 (gage height, 34.02 ft, from floodmarks).
1870 to May 1972: Discharge, about 215,000 cfs October 1870 (gage height, 30.7 ft, from information by local residents).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	5,510	10,700	11...	2,360	7,400	21...	69,000	4,370
2....	5,030	8,630	12...	2,650	7,150	22...	208,000	3,890
3....	4,350	7,530	13...	2,880	11,600	23...	101,000	3,680
4....	4,030	4,770	14...	2,110	8,550	24...	35,700	3,910
5....	3,630	15,600	15...	2,220	7,540	25...	21,100	4,200
6....	3,600	26,900	16...	2,220	6,030	26...	15,200	3,700
7....	3,270	28,200	17...	3,070	5,760	27...	12,000	3,350
8....	3,080	16,200	18...	4,280	5,320	28...	9,810	3,100
9....	2,890	11,200	19...	7,970	5,210	29...	9,090	5,500
10...	2,900	8,810	20...	8,780	4,370	30...	11,200	15,000
						31...		27,800
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							19,000	9,220
RUNOFF,IN INCHES.....							4.62	2.32

(588) 02029400 SOUTH BRANCH NORTH FORK HARDWARE RIVER NEAR NORTH GARDEN, VA.

(Crest-stage station)

LOCATION.--Lat 37°57'21", long 78°39'35", at bridge on U.S. Highway 29 at Crossroads, 1.5 miles northwest of North Garden, Albemarle County.

DRAINAGE AREA.--6.59 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 690 ft (from topographic map).

DISCHARGE RECORD.--Not defined for present conditions.

MAXIMUMS.--June-July 1972: Stage, 8.80 ft June 21.
1949 to May 1972: Discharge 6,200 cfs Aug. 20, 1969 (gage height, 8.7 ft).

(589) 02029450 THOMAS CREEK AT KEENE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°52'25", long 78°33'10", Albemarle County, at culvert on State Highway 20, 0.7 mile north of Keene.

DRAINAGE AREA.--0.28 sq mi.

GAGE-HEIGHT RECORD.--Floodmarks only. Altitude of gage is 470 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 325 cfs June 21 (gage height, 6.96 ft, from floodmarks).
1966 to May 1972: Discharge, 440 cfs Aug. 20, 1969 (gage height, 7.37 ft).

(590) 02030000 HARDWARE RIVER BELOW BRIERY RUN, NEAR SCOTTSVILLE, VA.

LOCATION.--Lat 37°48'45", long 78°27'20", Fluvanna County, on left bank 75 ft upstream from bridge on State Highway 637, 0.8 mile downstream from Briery Run, 2.4 miles northeast of Scottsville, and 10.8 miles upstream from mouth.

DRAINAGE AREA.--116 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 294.96 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 18,000 cfs and by slope-area measurement at 52,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 21,600 cfs 2200 hours June 21 (gage height, 25.50 ft, from high-water mark in well).
1939 to May 1972: Discharge, 52,000 cfs Aug. 20, 1969 (gage height, 31.0 ft, from floodmarks).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	278	216	11...	145	231	21...	9,990	178
2....	222	186	12...	140	480	22...	33,100	173
3....	192	178	13...	138	1,040	23...	10,900	192
4....	178	166	14...	141	426	24...	778	180
5....	178	2,020	15...	160	291	25...	454	163
6....	188	1,990	16...	142	244	26...	351	165
7....	181	508	17...	141	228	27...	269	149
8....	165	353	18...	246	211	28...	229	158
9....	155	286	19...	257	205	29...	300	232
10...	151	253	20...	267	200	30...	247	488
						31...		520
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,010	397
RUNOFF,IN INCHES.....							9.92	2.02

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	4.11	328					6-24	0030	6.07	1,070
6-20	0130	4.14	335					6-24	2400	4.98	618
6-20	1600	3.62	218	6-22	0600	22.51	28,600				
6-20	2400	4.03	308	6-22	1330	25.10	42,200				
				6-22	1430	24.77	40,300	6-25	0030	4.96	635
				6-22	2400	22.09	26,500	6-25	2400	4.47	473
6-21	1000	4.80	530								
6-21	1030	5.08	628								
6-21	1100	5.79	906	6-23	0030	21.93	25,700	6-26	0030	4.47	473
6-21	1230	9.09	2,730	6-23	1300	15.71	9,240	6-26	2400	4.22	398
6-21	1500	14.69	7,670	6-23	1730	11.46	4,270				
6-21	1530	17.25	11,900	6-23	1930	7.60	1,840				
6-21	1600	19.84	18,500	6-23	2100	6.49	1,250	6-27	0030	4.22	356
6-21	1930	22.72	29,600	6-23	2400	6.09	1,050	6-27	0330	4.19	348
6-21	2000	22.64	29,200					6-27	2400	3.83	263
6-21	2400	21.55	24,200								

(593) 02030800 STOCKTON CREEK NEAR AFTON, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°01'48", long 78°48'30", Albemarle County, at culvert on State Highway 6, 1.7 miles east of Afton.

DRAINAGE AREA.--2.80 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 860 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 678 cfs 1600 hours June 21 (gage height, 9.68 ft).
1967 to May 1972: Discharge, 650 cfs Aug. 20, 1969 (gage height, 9.3 ft).

(594) 02030900 POWELLS CREEK NEAR CROZET, VA.

(Crest-stage station)

LOCATION.--Lat 38°04'50", long 78°43'02", Albemarle County, at bridge on State Highway 684, 1.2 miles northwest of Crozet.

DRAINAGE AREA.--2.32 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 770 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation not defined.

MAXIMUMS.--June-July 1972: Stage, 5.21 ft June 21.
1967 to May 1972: Stage, 3.92 ft May 30, 1971.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	174	188	11...	60	117	21...	6,420	89
2....	107	164	12...	60	118	22...	5,680	91
3....	92	157	13...	58	245	23...	755	92
4....	84	143	14...	74	114	24...	486	92
5....	80	280	15...	69	130	25...	378	84
6....	77	211	16...	62	117	26...	312	78
7....	77	167	17...	96	111	27...	264	75
8....	71	151	18...	125	103	28...	239	81
9....	69	138	19...	179	98	29...	264	144
10...	68	127	20...	114	93	30...	215	319
						31...		220
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							560	143
RUNOFF, IN INCHES.....							5.39	1.42

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.83	157	6-21	2300	25.13	20,300	6-22	2000	11.07	2,120
				6-21	2400	24.35	18,300	6-22	2200	10.40	1,770
								6-22	2400	9.35	1,470
6-21	0300	3.34	254								
6-21	0600	4.17	406	6-22	0100	23.51	16,100				
6-21	0800	4.39	454	6-22	0200	22.66	14,500	6-23	0300	7.85	1,120
6-21	1000	4.79	530	6-22	0300	21.85	12,900	6-23	0600	6.87	942
6-21	1100	6.00	762	6-22	0400	20.49	11,200	6-23	0900	6.06	782
6-21	1200	8.62	1,290	6-22	0500	19.30	9,760	6-23	1200	5.67	702
6-21	1300	10.85	1,960	6-22	0600	18.20	8,520	6-23	1500	5.43	644
6-21	1400	12.42	3,140	6-22	0700	17.05	7,400	6-23	1800	5.19	606
6-21	1500	14.80	5,220	6-22	0800	16.03	6,300	6-23	2100	5.00	568
6-21	1600	17.73	8,000	6-22	0900	15.30	5,670	6-23	2400	4.88	549
6-21	1700	20.84	11,600	6-22	1000	14.57	5,040				
6-21	1800	22.70	14,500	6-22	1100	13.96	4,500				
6-21	1900	23.31	15,700	6-22	1200	13.45	3,990	6-24	0600	4.74	511
6-21	2000	24.21	17,800	6-22	1300	13.10	3,740	6-24	1200	4.56	482
6-21	2100	24.85	19,400	6-22	1500	12.49	3,220	6-24	1800	4.44	464
6-21	2200	25.50	21,600	6-22	1800	11.59	2,480	6-24	2400	4.23	426

(591) 02030100 FRISBY BRANCH NEAR BUCKINGHAM, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°31'15", long 78°37'04", Buckingham County, at culvert on State Highway 24, 4 miles southwest of Buckingham.

DRAINAGE AREA.--4.35 sq mi.

GAGE-HEIGHT RECORD.--Floodmarks only. Altitude of gage is 410 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 2,110 cfs 1500 hours June 21 (gage height, 16.50 ft, from floodmarks).
1967 to May 1972: Discharge, 800 cfs May 13, 1971 (gage height, 7.80 ft).

(592) 02030500 SLATE RIVER NEAR ARVONIA, VA.

LOCATION.--Lat 37°42'10", long 78°22'40", Buckingham County, on left bank 100 ft upstream from Bumpers Bridge on State Highway 676, 1.8 miles northwest of Arvonia, 2.9 miles upstream from Hunts Creek, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--226 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 238.78 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,900 cfs and by slope-area measurement at 42,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 42,200 cfs 1330 hours June 22 (gage height, 25.10 ft, from high-water mark in gage house).
1927 to May 1972: Discharge, 26,900 cfs Sept. 6, 1935 (gage height, 22.18 ft, from floodmarks).

(595) 02031500 NORTH FORK MOORMANS RIVER NEAR WHITEHALL, VA.

(Crest-stage station)

LOCATION.--Lat 38°08'25", long 78°45'05", Albemarle County, 0.8 mile upstream from city of Charlottesville dam, and 1.5 miles west of Whitehall.

DRAINAGE AREA.--11.4 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 999 ft (by barometer).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 350 cfs and by slope-area measurements at 2,400 and 7,620 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,190 cfs June 21 (gage height, 7.42 ft).
1952 to May 1972: Discharge, 2,400 cfs Aug. 18, 1955 (gage height, 7.94 ft).
Flood of Oct. 15, 1942, reached a stage of 11.7 ft (discharge, 7,620 cfs).

(596) 02032200 DOYLES RIVER NEAR WHITEHALL, VA.

(Crest-stage station)

LOCATION.--Lat 38°12'10", long 78°40'17", Albemarle County, at bridge on State Highway 810, 5.9 miles north of Whitehall.

DRAINAGE AREA.--6.70 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 928.08 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation not defined.

MAXIMUMS.--June-July 1972: Stage, 12.90 ft June 21.
1967 to May 1972: Stage, 12.04 ft May 30, 1971.

(597) 02032300 MUDDY RUN NEAR STANARDSVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 38°14'05", long 78°37'02", Albemarle County, at bridge on State Highway 810, 11 miles southwest of Stanardsville.

DRAINAGE AREA.--3.36 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 760 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by step backwater computations.

MAXIMUMS.--June-July 1972: Discharge, 3,160 cfs June 21 (gage height, 7.20 ft).
1967 to May 1972: Discharge, 2,500 cfs May 30, 1971 (gage height, 6.77 ft).

(598) 02032530 PARKER BRANCH NEAR STANARDSVILLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°17'10", long 78°30'50", Greene County, at culvert on State Highway 810, 4.3 miles west of Stanardsville.

DRAINAGE AREA.--3.24 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 620 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,270 cfs 1500 hours June 21 (gage height, 8.44 ft).
1967 to May 1972: Discharge, 1,300 cfs July 23, 1969 (gage height, 8.54 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1000	4.24	89	6-21	1600	7.83	1,060	6-21	2230	6.51	594
6-21	1030	4.50	120	6-21	1630	6.77	684	6-21	2300	6.28	524
6-21	1100	5.10	220	6-21	1700	6.65	642	6-21	2330	6.03	449
6-21	1130	5.96	428	6-21	1800	6.63	636	6-21	2400	5.76	368
6-21	1200	6.25	515	6-21	1830	6.60	625				
6-21	1230	6.53	600	6-21	1900	6.78	688				
6-21	1300	7.43	950	6-21	1930	7.20	835	6-22	0030	5.57	318
6-21	1330	8.20	1,180	6-21	2000	7.25	852	6-22	0100	5.30	260
6-21	1400	8.25	1,200	6-21	2030	7.48	933	6-22	0200	5.06	212
6-21	1430	8.27	1,210	6-21	2100	7.67	1,000	6-22	0300	4.76	162
6-21	1500	8.44	1,270	6-21	2130	7.30	870	6-22	0400	4.60	136
6-21	1530	8.02	1,120	6-21	2200	6.85	712	6-22	0500	4.37	104
								6-22	0530	4.24	89

(599) 02032540 HANEYTOWN CREEK NEAR STANARDSVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 38°16'48", long 78°30'50", Greene County, at bridge on State Highway 810, 4.5 miles west of Stanardsville,

DRAINAGE AREA.--4.45 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 620 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by step-backwater computations.

MAXIMUMS.--June-July 1972: Discharge, 1,120 cfs June 21 (gage height, 13.72 ft).
1967 to May 1972: Discharge, 520 cfs May 30, 1971 (gage height, 12.70 ft).

(600) 02032550 LYNCH RIVER NEAR NORTONSVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 38°14'16", long 78°32'32", Albemarle County, at bridge on State Highway 810, 7 miles southwest of Stanardsville.

DRAINAGE AREA.--13.6 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 591.70 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by step backwater computations.

MAXIMUMS.--June-July 1972: Discharge, 18,000 cfs June 21 (gage height, 16.50 ft).
1967 to May 1972: Discharge, 6,500 cfs May 30, 1971 (gage height, 14.35 ft).

(601) 02032600 SWIFT RUN TRIBUTARY NEAR STANARDSVILLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°20'33", long 78°30'37", Greene County, at culvert on U.S. Highway 33, 4.9 miles northwest of Stanardsville.

DRAINAGE AREA.--0.35 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Datum of gage is 1,345.84 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 63 cfs 1530 hours June 21 (gage height, 8.50 ft).
1966 to May 1972: Discharge, 19 cfs May 30, 1971 (gage height, 6.20 ft).

(602) 02032680 NORTH FORK RIVANNA RIVER NEAR PROFFIT, VA.

LOCATION.--Lat 38°05'16", long 78°24'44", Albemarle County, on left bank 50 ft downstream from bridge on State Highway 649, 1.9 miles southeast of Proffit, and 2.2 miles upstream from confluence of North and South Forks.

DRAINAGE AREA.--176 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals, except June 22-30. Datum of gage is 323.43 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,900 cfs and extended above on basis of logarithmetic plotting. Discharge for June 22-30 estimated on basis of records for station at Palmyra.

MAXIMUMS.--June-July 1972: Discharge, 31,800 cfs June 21 (gage height, 30.40 ft, from floodmarks).
1970 to May 1972: Discharge, 5,000 cfs May 30, 1971 (gage height, 16.67 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,680	1,460	11...	364	669	21...	10,700	530
2....	1,010	1,190	12...	342	660	22...	68,000	500
3....	762	1,030	13...	331	1,520	23...	26,800	508
4....	635	907	14...	387	1,260	24...	5,170	461
5....	568	1,130	15...	405	975	25...	2,990	423
6....	530	1,320	16...	370	813	26...	2,200	387
7....	500	1,050	17...	411	771	27...	1,710	364
8....	448	907	18...	643	711	28...	1,190	359
9....	411	813	19...	686	652	29...	2,020	481
10...	393	737	20...	643	575	30...	1,900	1,410
						31...		1,750
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4,470	849
RUNOFF,IN INCHES.....							7.52	1.47

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	3.89	677	6-22	1700	36.90	71,200				
6-20	0800	3.91	694	6-22	2400	33.82	57,100	6-25	0030	7.77	3,590
6-20	2400	3.81	609					6-25	2400	5.96	2,470
				6-23	0030	33.51	55,800				
6-21	1000	4.33	1,120	6-23	1430	22.47	18,200	6-26	0600	6.06	2,540
6-21	1200	5.15	1,840	6-23	2330	14.92	8,820	6-26	2400	5.14	1,830
6-21	1430	9.66	4,720	6-23	2400	14.60	8,500				
6-21	1600	13.47	7,430								
6-21	1700	13.92	7,830					6-27	0130	5.17	1,860
6-21	2400	33.64	56,400	6-24	0030	14.33	8,230	6-27	2230	4.73	1,480
				6-24	1130	9.66	4,720	6-27	2400	4.53	1,300
				6-24	2400	7.82	3,620				
6-22	1330	37.34	73,400								

(606) 02034050 HUNTERS BRANCH NEAR PALMYRA, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°56'48", long 78°14'30", Fluvanna County, at culvert on U.S. Highway 15, 6.1 miles north of Palmyra.

DRAINAGE AREA.--1.63 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 405 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,400 cfs 1800 hours June 21 (gage height, 10.50 ft).
1967 to May 1972: Discharge, 1,500 cfs Aug. 20, 1969 (gage height, 10.82 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1400	3.40	93	6-21	1830	10.00	1,250	6-21	2300	4.70	205
6-21	1500	3.70	116	6-21	1900	9.35	1,060	6-21	2400	4.35	172
6-21	1600	4.80	215	6-21	1930	8.50	815				
6-21	1630	6.50	410	6-21	2000	7.30	545				
6-21	1700	8.45	790	6-21	2030	6.50	410	6-22	0100	4.00	140
6-21	1730	10.20	1,310	6-21	2100	5.90	325	6-22	0200	3.80	124
6-21	1800	10.50	1,400	6-21	2200	5.20	255	6-22	0300	3.45	96

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	600	384	11...	108	157	21...	8,000	146
2....	271	306	12...	105	306	22...	25,000	136
3....	205	259	13...	102	594	23...	9,000	140
4....	175	227	14...	123	334	24...	3,500	127
5....	178	297	15...	118	255	25...	1,600	116
6....	158	273	16...	104	220	26...	900	108
7....	149	227	17...	125	239	27...	550	102
8....	133	202	18...	152	205	28...	350	109
9....	125	184	19...	146	178	29...	550	220
10...	119	169	20...	137	157	30...	500	473
						31...		379
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,780	233
RUNOFF, IN INCHES							11.26	1.53

(603) 02033300 MOORES CREEK NEAR CHARLOTTESVILLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 38°00'25", long 78°34'25", Albemarle County, at culvert on access road, 150 ft north of U.S. Highway 29, and 4 miles southwest of Charlottesville.

DRAINAGE AREA.--3.52 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 510 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 790 cfs 1500 hours June 21 (gage-height, 16.30 ft).
1967 to May 1972: Discharge, 2,000 cfs Aug. 20, 1969 (gage height, 16.85 ft).

(604) 02033700 HENDERSON CREEK NEAR SHADWELL, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°59'05", long 78°24'05", Albemarle County, at culvert on State Highway 729, 2.0 miles south of Shadwell.

DRAINAGE AREA.--1.76 sq mi.

GAGE-HEIGHT RECORD.--Floodmarks only. Datum of gage is 280.20 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Stage, 11.59 ft, from floodmarks June 21.
1966 to May 1972: Discharge, 2,000 cfs Aug. 20, 1969 (gage height, 9.60 ft, from floodmark).

(605) 02034000 RIVANNA RIVER AT PALMYRA, VA.

LOCATION.--Lat 37°51'28", long 78°15'58", Fluvanna County, on left bank 10 ft upstream from bridge on U.S. Highway 15 at Palmyra, 0.5 mile upstream from Cunningham Creek, and 15 miles upstream from mouth.

DRAINAGE AREA.--664 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 210.39 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 76,000 cfs, contracted-opening measurement at 86,000 cfs, and velocity-area study.

MAXIMUMS.--June-July 1972: Discharge, 73,400 cfs 1330 hours June 22 (gage height, 37.34 ft).
1934 to May 1972: Discharge, 86,000 cfs Aug. 20, 1969 (gage height, 39.85 ft).

(607) 02034500 WILLIS RIVER AT FLANAGAN MILLS, VA.

LOCATION.--Lat 37°40'00", long 78°10'00", Cumberland County, on left bank 15 ft upstream from bridge on State Highway 690, 0.4 mile east of Flanagan Mills, 6.9 miles upstream from mouth, and 7.7 miles downstream from Reynolds Creek.

DRAINAGE AREA.--262 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph June 1-21; station inundated by flood. Datum of gage is 178.98 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,800 cfs and extended above on basis of velocity-area studies.

MAXIMUMS.--June-July 1972: Daily discharge, 24,000 cfs June 22; gage height, 29.8 ft June 22, from floodmarks.
1927 to May 1972: Discharge, 9,580 cfs Apr. 27, 1937 (gage height, 23.86 ft, from floodmarks).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	460	280	11...	136	263	21...	4,600	190
2....	410	250	12...	131	338	22...	24,000	180
3....	298	220	13...	124	1,100	23...	7,700	210
4....	207	200	14...	126	600	24...	3,900	180
5....	188	2,300	15...	131	300	25...	1,500	170
6....	175	2,200	16...	126	240	26...	900	165
7....	181	1,800	17...	122	230	27...	500	160
8....	169	1,380	18...	123	220	28...	390	170
9....	152	615	19...	136	210	29...	380	300
10...	147	312	20...	232	200	30...	320	500
						31...		700
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,600	522
RUNOFF, IN INCHES							6.81	2.30

(608) 02035000 JAMES RIVER AT CARTERSVILLE, VA.

LOCATION.--Lat 37°40'15", long 78°05'10", Goochland County, on left bank 200 ft downstream from bridge on State Highway 45 between Pemberton and Cartersville, 1.8 miles downstream from Willis River, and at mile 152.4.

DRAINAGE AREA.--6,257 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals, except 0500 hours June 22 to 1600 hours June 27. Datum of gage is 163.90 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 160,000 cfs and by slope-conveyance measurement at 362,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 362,000 cfs June 22 (gage height, 37.87 ft, from floodmarks).
1899 to May 1972: Discharge, 250,000 cfs Aug. 21, 1969 (gage height, 33.75 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	7,710	14,400	11...	3,700	9,450	21...	28,200	5,350
2....	7,640	11,600	12...	3,320	8,900	22...	280,000	4,910
3....	6,230	9,720	13...	3,540	14,800	23...	258,000	4,710
4....	5,520	8,020	14...	3,340	14,100	24...	103,000	4,790
5....	5,090	10,600	15...	3,080	10,700	25...	52,600	4,670
6....	4,820	33,300	16...	3,120	8,470	26...	29,900	4,690
7....	4,360	33,200	17...	3,270	7,250	27...	18,700	4,320
8....	4,140	23,100	18...	4,800	6,840	28...	13,800	4,020
9....	4,000	15,300	19...	6,230	6,510	29...	12,600	3,990
10...	3,750	11,500	20...	11,700	5,790	30...	13,700	9,010
						31...		24,900
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							30,300	10,900
RUNOFF, IN INCHES							5.41	2.01

(609) 02035400 BIG LICKINGHOLE CREEK TRIBUTARY NEAR FERNCLIFF, VA.

(Crest-stage station)

LOCATION.--Lat 37°49'34", long 77°58'23", Goochland County, at bridge on U.S. Highway 250, 10.1 miles southeast of Ferncliff.

DRAINAGE AREA.--0.55 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 253.68 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by contracted-opening measurements at 150 and 600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 280 cfs June 21 (gage height, 4.93 ft).
1962 to May 1972: Discharge, 600 cfs Aug. 20, 1969 (gage height, 5.55 ft).

(610) 02035450 ROCKETTS CREEK TRIBUTARY NEAR GUM SPRINGS, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°47'15", long 77°54'40", Goochland County, at culvert on U.S. Highway 250, 1.2 miles northwest of Gum Springs.

DRAINAGE AREA.--0.34 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 295 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 187 cfs 1915 hours June 21 (gage height, 9.58 ft).
1966 to May 1972: Discharge, 190 cfs Aug. 20, 1969 (gage height, 9.72 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1630	3.00	14	6-21	1930	8.50	165	6-21	2300	3.62	26
6-21	1700	3.67	27	6-21	2000	8.08	157	6-21	2400	3.42	22
6-21	1730	5.70	84	6-21	2030	5.70	84				
6-21	1800	6.29	104	6-21	2100	4.92	61				
6-21	1830	8.25	160	6-21	2130	4.32	43	6-22	0130	3.22	18
6-21	1915	9.58	187	6-21	2200	4.02	34	6-22	0230	3.00	14

(611) 02036500 FINE CREEK AT FINE CREEK MILLS, VA.

LOCATION.--Lat 37°35'52", long 77°49'12", Powhatan County, on right bank 75 ft downstream from bridge on State Highway 711 at Fine Creek Mills, 0.8 mile upstream from mouth, and 6.7 miles northeast of Powhatan.

DRAINAGE AREA.--22.1 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 156.59 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,140 cfs 0300 hours June 22 (gage height, 6.60 ft).
1945 to May 1972: Discharge, 3,640 cfs Oct. 21, 1961 (gage height, 8.35 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	76	19	11...	12	12	21...	168	9.2
2....	28	15	12...	12	40	22...	896	8.6
3....	19	12	13...	9.8	52	23...	164	7.9
4....	16	11	14...	11	25	24...	68	6.8
5....	14	74	15...	11	16	25...	43	6.8
6....	14	43	16...	9.8	13	26...	35	6.4
7....	18	25	17...	9.2	10	27...	26	7.3
8....	13	18	18...	9.8	9.8	28...	23	9.2
9....	12	15	19...	14	25	29...	33	14
10...	16	13	20...	21	12	30...	23	54
						31...		25
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							61	20
RUNOFF, IN INCHES							3.07	1.03

(613) 02038000 FALLING CREEK NEAR CHESTERFIELD, VA.

LOCATION.--Lat 37°26'37", long 77°31'21", Chesterfield County, on left bank at upstream side of bridge on State Highway 651, 0.8 mile downstream from Licking Creek, 2.8 miles upstream from Pocoshock Creek, and 4.7 miles northwest of Chesterfield.

DRAINAGE AREA.--32.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 126.39 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 614 cfs 1645 hours June 22 (gage height, 8.46 ft).
1955 to May 1972: Discharge, 2,510 cfs Sept. 12, 1960 (gage height, 12.67 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	390	25	11...	22	23	21...	87	18
2....	158	21	12...	18	60	22...	486	18
3....	62	19	13...	16	205	23...	273	16
4....	40	18	14...	17	89	24...	123	15
5....	31	189	15...	17	48	25...	67	14
6....	26	258	16...	15	33	26...	45	13
7....	31	79	17...	13	27	27...	35	12
8....	26	47	18...	13	26	28...	30	13
9....	21	34	19...	42	22	29...	32	27
10...	21	27	20...	28	20	30...	30	87
						31...		54
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							74	50
RUNOFF, IN INCHES							2.51	1.77

(614) 02038800 APPOMATTOX RIVER NEAR APPOMATTOX, VA.

(Crest-stage station)

LOCATION.--Lat 37°22'55", long 78°47'24", Appomattox County, at bridge on State Highway 24, 3.0 miles northeast of Appomattox.

DRAINAGE AREA.--5.79 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 650 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by slope-area measurement at 535 cfs and by contracted-opening measurement at 3,870 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,870 cfs June 21 (gage height, 8.68 ft).
1955 to May 1972: Discharge, 780 cfs May 30, 1971 (gage height, 6.06 ft).

(615) 02038850 HOLIDAY CREEK NEAR ANDERSONVILLE, VA.

(Hydrologic bench-mark station)

LOCATION.--Lat 37°24'55", long 78°38'10", Appomattox County, on right bank 350 ft downstream from bridge on State Highway 614, 1.0 mile upstream from Holiday Lake, and 5.2 miles southwest of Andersonville.

DRAINAGE AREA.--8.53 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, except 1130 hours June 21 to 1445 hours June 26. Stage graph reconstructed from high-water mark, incidental gage readings, and records from recording crest-stage stations upstream. Altitude of gage is 475 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,200 cfs and by slope-area measurement at 9,640 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,640 cfs 1300 hours June 21 (gage height, 14.64 ft, from high-water mark inside gage house).
1967 to May 1972: Discharge, 635 cfs Oct. 23, 1971 (gage height, 5.24 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.24	52	6-21	2200	3.66	434	6-22	1400	3.80	490
				6-21	2300	4.30	730	6-22	1600	3.61	414
				6-21	2400	5.12	1,130	6-22	1800	3.47	364
6-21	0600	2.23	50					6-22	2000	3.36	328
6-21	1200	2.30	63					6-22	2200	3.26	297
6-21	1400	2.37	76	6-22	0200	6.36	1,990	6-22	2400	3.17	270
6-21	1600	2.44	89	6-22	0300	6.60	2,140				
6-21	1700	2.65	135	6-22	0400	6.48	2,060				
6-21	1800	3.00	222	6-22	0600	6.16	1,850	6-23	0600	2.93	204
6-21	1900	3.21	282	6-22	0800	5.00	1,080	6-23	1200	2.75	158
6-21	2000	3.51	378	6-22	1000	4.46	805	6-23	1800	2.60	124
6-21	2100	3.54	388	6-22	1200	4.10	630	6-23	2400	2.49	100

(612) 02037500 JAMES RIVER NEAR RICHMOND, VA.

LOCATION.--Lat 37°33'47", long 77°32'50", Henrico County, on left bank 0.1 mile upstream from Huguenot Memorial Bridge, 0.5 mile west of city limits of Richmond, 1.7 miles downstream from Bosher Dam, 3.3 miles upstream from Powhite Creek, and at mile 111.7.

DRAINAGE AREA.--6,758 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 98.82 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 313,000 cfs 0900 hours June 23 (gage height, 28.62 ft).
1935 to May 1972: Discharge, 222,000 cfs Aug. 21, 1969 (gage height, 24.95 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	7,840	15,400	11...	3,320	10,500	21...	14,300	5,700
2....	8,570	13,100	12...	2,950	9,700	22...	136,000	5,550
3....	6,640	10,900	13...	2,950	12,600	23...	296,000	5,120
4....	5,400	9,510	14...	3,320	17,400	24...	210,000	4,840
5....	4,710	8,940	15...	2,600	12,600	25...	88,700	4,840
6....	4,320	29,100	16...	2,600	10,100	26...	28,700	4,980
7....	4,450	33,000	17...	2,650	8,020	27...	19,900	4,840
8....	3,950	28,400	18...	3,320	7,320	28...	15,900	4,320
9....	3,700	18,400	19...	4,710	6,980	29...	13,500	4,320
10...	3,450	13,500	20...	9,220	6,640	30...	13,500	5,930
						31...		17,800
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							30,900	11,300
RUNOFF,IN INCHES							5.10	1.93

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	5.45	5,700	6-21	2400	12.87	47,400	6-23	2000	27.66	285,000
								6-23	2200	27.36	276,000
								6-23	2400	27.00	265,000
6-20	0600	5.41	5,550	6-22	0200	14.27	59,800				
6-20	0800	5.50	5,850	6-22	0400	15.12	67,600				
6-20	1000	5.85	6,980	6-22	0600	15.77	75,000	6-24	0400	26.24	246,000
6-20	1200	6.48	9,320	6-22	0800	16.63	83,800	6-24	0800	25.36	230,000
6-20	1400	7.00	11,300	6-22	1000	17.54	94,500	6-24	1200	24.50	212,000
6-20	1600	7.28	12,600	6-22	1200	18.50	108,000	6-24	1600	23.47	194,000
6-20	1800	7.37	13,100	6-22	1400	20.36	138,000	6-24	2000	22.34	171,000
6-20	2000	7.36	13,100	6-22	1600	22.40	173,000	6-24	2400	21.10	150,000
6-20	2200	7.27	12,600	6-22	1800	23.96	203,000				
6-20	2400	7.17	12,200	6-22	2000	25.29	228,000				
				6-22	2200	26.23	246,000	6-25	0400	19.81	128,000
				6-22	2400	27.06	268,000	6-25	0800	18.50	108,000
6-21	0300	6.94	10,900					6-25	1200	17.03	88,500
6-21	0600	6.76	10,500					6-25	1600	14.90	65,600
6-21	0900	6.65	9,700	6-23	0300	28.04	293,000	6-25	2000	13.02	48,200
6-21	1200	6.61	9,700	6-23	0600	28.50	310,000	6-25	2400	11.78	38,500
6-21	1500	6.69	10,100	6-23	0800	28.60	313,000				
6-21	1800	7.05	11,300	6-23	0900	28.62	313,000				
6-21	1900	7.54	13,500	6-23	1000	28.60	313,000	6-26	0600	10.80	31,600
6-21	2000	8.40	17,900	6-23	1200	28.53	310,000	6-26	1200	10.20	27,800
6-21	2100	9.52	23,700	6-23	1400	28.42	306,000	6-26	1800	9.74	24,800
6-21	2200	10.58	30,300	6-23	1600	28.22	300,000	6-26	2400	9.27	22,600
6-21	2300	11.92	39,300	6-23	1800	27.94	290,000				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	12	8.8	11...	6.3	7.9	21...	1,740	6.0
2....	9.5	7.4	12...	6.2	20	22...	85	6.0
3....	8.4	7.1	13...	6.2	16	23...	25	6.2
4....	8.0	6.8	14...	6.7	10	24...	17	5.7
5....	9.6	138	15...	6.4	8.3	25...	13	5.5
6....	8.1	26	16...	5.8	8.8	26...	11	5.2
7....	7.6	16	17...	6.2	8.3	27...	9.7	5.5
8....	6.9	12	18...	11	7.1	28...	11	12
9....	6.8	10	19...	18	6.8	29...	13	30
10...	7.1	8.8	20...	11	6.2	30...	12	37
						31...		16
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							70	15
RUNOFF,IN INCHES							9.18	2.07

(616) 02039000 BUFFALO CREEK NEAR HAMPDEN SYDNEY, VA.

LOCATION.--Lat 37°15'25", long 78°29'12", Prince Edward County, on left bank 100 ft upstream from bridge on State Highway 658, 0.8 mile upstream from Locket Creek, 2.0 miles northwest of Hampden Sydney, and 6.0 miles southwest of Farmville.

DRAINAGE AREA.--69.7 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 339.19 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,600 cfs and by slope-area measurement at 8,280 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,160 cfs 2000 hours June 21 (gage height, 12.38 ft).
1947 to May 1972: Discharge, 8,280 cfs Oct. 23, 1971 (gage height, 11.96 ft).
Flood in August 1940 reached a stage of about 15 ft, from information by local resident.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	73	72	11...	47	61	21...	3,220	46
2....	64	62	12...	46	71	22...	2,040	44
3....	59	57	13...	45	82	23...	635	42
4....	55	53	14...	46	67	24...	505	42
5....	73	612	15...	46	58	25...	382	40
6....	61	348	16...	44	53	26...	268	39
7....	62	200	17...	44	50	27...	188	39
8....	55	128	18...	54	47	28...	138	86
9....	52	90	19...	183	52	29...	118	222
10...	50	71	20...	83	51	30...	88	515
						31...		298
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							294	119
RUNOFF,IN INCHES							4.71	1.97

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.64	98	6-21	1200	6.48	860	6-21	2400	11.32	6,970
				6-21	1300	7.58	1,620				
				6-21	1400	8.40	2,320				
6-21	0600	2.72	101	6-21	1500	9.55	3,840	6-22	0200	10.37	5,580
6-21	0700	2.77	104	6-21	1600	10.50	5,460	6-22	0400	9.25	3,860
6-21	0800	2.95	118	6-21	1700	11.35	7,080	6-22	0600	8.30	2,670
6-21	0900	3.85	187	6-21	1800	11.95	8,280	6-22	0900	7.35	1,590
6-21	1000	5.50	425	6-21	2000	12.38	9,160	6-22	1200	6.80	1,120
6-21	1100	5.70	480	6-21	2200	12.06	8,500	6-22	1800	6.30	850
								6-22	2400	6.04	710

(617) 02039500 APPOMATTOX RIVER AT FARMVILLE, VA.

LOCATION.--Lat 37°18'25", long 78°23'20", Cumberland County, on left bank 4 ft downstream from bridge on State Highway 45 at north town limits of Farmville, and 1.1 miles downstream from Buffalo Creek.

DRAINAGE AREA.--303 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals, except June 22-28. Datum of gage is 281.93 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,000 cfs and by contracted-opening measurement at 33,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 33,100 cfs June 22 (gage height, 29.70 ft, from floodmarks).
1927 to May 1972: Discharge, 21,000 cfs Aug. 15, 1940 (gage height, 23.60 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	489	319	11...	188	253	21...	5,300	197
2....	305	281	12...	174	299	22...	28,000	189
3....	250	256	13...	170	698	23...	9,000	186
4....	226	245	14...	171	339	24...	4,500	182
5....	239	1,700	15...	173	260	25...	1,700	176
6....	241	3,320	16...	166	233	26...	1,000	171
7....	228	1,030	17...	160	220	27...	600	169
8....	207	422	18...	167	212	28...	450	176
9....	193	320	19...	349	203	29...	441	382
10...	192	277	20...	337	210	30...	370	1,640
						31...		1,480
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,870	518
RUNOFF,IN INCHES.....							6.87	1.97

(618) 02040000 APPOMATTOX RIVER AT MATTOAX, VA.

LOCATION.--Lat 37°25'17", long 77°51'33", Amelia County, on right bank 75 ft upstream from Southern Railway bridge at Mattoax, 0.3 mile upstream from Skinquarter Creek, and 3.7 miles upstream from Flat Creek.

DRAINAGE AREA.--726 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals, except 0600 hours June 24 to 1400 hours June 30. Wire-weight gage or telemark readings obtained June 24-30. Datum of gage is 174.51 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 20,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 31,100 cfs 0500 hours June 25 (gage height, 34.08 ft, from graph of gage readings).
1901-5, 1927 to May 1972: Discharge, 35,000 cfs Aug. 18, 1940 (gage height, 35.3 ft, from floodmark in gage house).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	857	1,120	11...	381	840	21...	2,260	549
2....	945	921	12...	364	851	22...	8,200	506
3....	689	776	13...	337	1,930	23...	15,000	475
4....	561	686	14...	329	2,300	24...	27,200	452
5....	489	1,290	15...	323	1,230	25...	29,600	434
6....	472	2,730	16...	317	840	26...	21,000	412
7....	518	3,180	17...	307	717	27...	11,200	401
8....	511	3,580	18...	303	627	28...	4,080	399
9....	458	4,020	19...	343	595	29...	1,600	467
10...	406	1,470	20...	624	566	30...	1,390	1,550
						31...		2,500
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4,370	1,240
RUNOFF,IN INCHES.....							6.71	1.97

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	3.22	124	6-22	0700	14.07	5,350	6-23	0600	10.62	3,190
				6-22	0800	15.35	6,330	6-23	0900	9.83	3,030
				6-22	0900	16.15	7,010	6-23	1200	9.20	2,520
6-21	0600	3.70	173	6-22	1000	16.60	7,370	6-23	1800	8.21	1,790
6-21	1200	4.51	282	6-22	1100	16.89	7,640	6-23	2400	7.58	1,460
6-21	1500	5.03	404	6-22	1200	16.93	7,640				
6-21	1800	6.11	773	6-22	1400	16.60	7,370				
6-21	2100	6.88	1,110	6-22	1600	16.10	6,920	6-24	0600	7.10	1,210
6-21	2400	7.28	1,310	6-22	1800	15.40	6,330	6-24	1200	6.73	1,050
				6-22	2000	14.53	5,630	6-24	1800	6.37	873
				6-22	2200	13.70	5,090	6-24	2400	6.11	773
6-22	0200	7.55	1,460	6-22	2400	12.87	4,570				
6-22	0400	8.07	1,740								
6-22	0600	12.25	4,150					6-25	1200	5.63	600
				6-23	0300	11.65	3,790	6-25	2400	5.26	463

(621) 02041650 APPOMATTOX RIVER AT MATOACA, VA.

LOCATION.--Lat 37°13'28", long 77°28'32", Chesterfield County, on left bank at upstream side of bridge on State Highway 600, 0.2 mile south of Matoaca, 2.0 miles upstream from Rohoic Creek, 2.8 miles downstream from Lake Chesdin, and 3.5 miles west of Petersburg.

DRAINAGE AREA.--1,344 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 68.30 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 22,800 cfs 0100 hours June 27 (gage height, 14.60 ft).
1970 to May 1972: Discharge, 22,000 cfs Oct. 25, 1971 (gage height, 14.35 ft).
Flood of Aug. 20, 1940, reached a stage of 15.3 ft (discharge, 28,000 cfs).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,510	2,150	11...	540	1,720	21...	2,040	701
2....	2,560	1,970	12...	482	1,330	22...	8,200	660
3....	1,680	1,140	13...	472	3,810	23...	14,900	604
4....	1,120	888	14...	459	4,360	24...	17,700	566
5....	830	1,320	15...	432	3,500	25...	18,800	525
6....	758	3,440	16...	441	1,820	26...	22,000	492
7....	770	4,360	17...	428	1,210	27...	22,000	474
8....	692	4,360	18...	468	990	28...	18,200	469
9....	668	4,200	19...	477	822	29...	11,700	555
10...	612	4,050	20...	580	758	30...	5,270	1,220
						31...		2,800
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							5,290	1,850
RUNOFF,IN INCHES.....							4.39	1.58

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	3.54	800	6-23	0300	11.04	11,000	6-27	0600	14.56	22,800
				6-23	0600	11.63	12,400	6-27	1200	14.48	22,400
				6-23	1200	12.62	15,600	6-27	1800	14.27	21,700
6-21	0600	3.82	960	6-23	1500	12.97	17,000	6-27	2400	13.99	20,600
6-21	1200	4.24	1,320	6-23	1800	13.10	17,400				
6-21	1400	4.55	1,580	6-23	2100	13.20	17,700				
6-21	1600	4.85	1,880	6-23	2400	13.25	17,700	6-28	0600	13.69	19,600
6-21	1800	6.24	3,380					6-28	1200	13.30	18,400
6-21	1900	6.43	3,640					6-28	1800	12.85	16,800
6-21	2000	6.40	3,640	6-24	0600	13.29	18,100	6-28	2400	12.29	15,200
6-21	2100	6.80	4,160	6-24	1200	13.22	17,700				
6-21	2200	7.10	4,580	6-24	1800	13.20	17,700				
6-21	2400	7.60	5,300	6-24	2400	13.19	17,700	6-29	0600	11.65	13,000
								6-29	1200	10.98	11,600
								6-29	1800	10.19	10,200
6-22	0200	8.11	6,060	6-25	0600	13.30	18,100	6-29	2400	9.33	8,680
6-22	0400	8.57	6,860	6-25	1200	13.51	18,800				
6-22	0600	8.87	7,340	6-25	1800	13.75	19,900				
6-22	0800	9.16	7,840	6-25	2400	14.00	20,600	6-30	0600	8.08	6,760
6-22	1000	9.46	8,350					6-30	1200	7.02	5,000
6-22	1200	9.56	8,520					6-30	1800	6.15	3,750
6-22	1400	9.71	8,690	6-26	0600	14.25	21,300	6-30	2400	5.63	3,000
6-22	1600	9.81	8,860	6-26	1200	14.45	22,000				
6-22	1800	9.92	9,030	6-26	1800	14.58	22,800				
6-22	2000	10.14	9,380	6-26	2400	14.59	22,800	7- 1	0600	5.29	2,540
6-22	2200	10.29	9,740					7- 1	1200	5.00	2,150
6-22	2400	10.49	10,100					7- 1	1800	4.76	1,860
				6-27	0100	14.60	22,800	7- 1	2400	4.61	1,720

(619) 02040600 NIBBS CREEK TRIBUTARY NEAR AMELIA, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°23'45", long 77°58'20", Amelia County, at culvert on State Highway 609, 3.8 miles north of Amelia.

DRAINAGE AREA.--0.35 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph except 1430 to 1630 June 21. Altitude of gage is 225 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 740 cfs 1530 hours June 21 (gage height, 9.48 ft, from floodmarks).
1966 to May 1972: Discharge, 115 cfs July 23, 1969 (gage height, 8.00 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1100	3.00	12	6-21	1515	8.90	335	6-21	1800	5.10	62
6-21	1130	5.45	69	6-21	1530	9.48	740	6-21	1830	4.50	46
6-21	1200	4.80	54	6-21	1545	9.00	376	6-21	1900	4.10	36
6-21	1230	4.30	42	6-21	1600	7.60	108	6-21	2000	3.85	30
6-21	1400	5.40	68	6-21	1630	7.10	100	6-21	2100	3.55	23
6-21	1430	6.50	90	6-21	1700	5.60	72	6-21	2200	3.00	12
6-21	1500	7.60	108	6-21	1730	5.00	59				

(620) 02041000 DEEP CREEK NEAR MANNBORO, VA.

LOCATION.--Lat 37°16'59", long 77°52'22", Amelia County, on left bank 300 ft upstream from bridge on State Highway 153, 0.9 mile upstream from Sweathouse Creek, 3.4 miles northwest of Mannboro, and 7.5 miles southeast of Amelia.

DRAINAGE AREA.--158 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is 177.20 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 7,640 cfs 1200 hours June 22 (gage height, 16.93 ft).
1946 to May 1972: Discharge, 10,200 cfs Oct. 24, 1971 (gage height, 19.53 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	352	174	11...	74	94	21...	475	81
2....	396	133	12...	72	145	22...	5,240	77
3....	138	103	13...	70	507	23...	2,560	71
4....	108	90	14...	70	853	24...	1,040	70
5....	98	327	15...	70	308	25...	600	66
6....	91	793	16...	67	138	26...	382	62
7....	91	638	17...	67	115	27...	221	59
8....	82	180	18...	74	103	28...	214	60
9....	80	128	19...	80	90	29...	221	82
10...	77	108	20...	88	85	30...	258	235
						31...		365
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							449	205
RUNOFF, IN INCHES.....							3.17	1.49

(622) 02042500 CHICKAHOMINY RIVER NEAR PROVIDENCE FORGE, VA.

LOCATION.--Lat 37°26'10", long 77°03'40", New Kent County, on left bank 100 ft downstream from bridge on State Highway 618, 1.1 miles southwest of Providence Forge, and 1.7 miles downstream from Schiminoe Creek.

DRAINAGE AREA.--248 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 6.07 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 3,440 cfs 2000 hours June 25 (gage height, 10.07 ft).
1942 to May 1972: Discharge, 7,710 cfs Aug. 15, 1955 (gage height, 11.67 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	469	595	11...	224	695	21...	818	289
2....	600	504	12...	204	603	22...	994	218
3....	733	409	13...	207	684	23...	1,530	193
4....	760	338	14...	206	652	24...	1,590	168
5....	719	309	15...	186	602	25...	2,800	136
6....	652	345	16...	152	534	26...	2,820	176
7....	582	395	17...	122	481	27...	1,810	128
8....	500	509	18...	117	484	28...	1,220	114
9....	399	613	19...	127	452	29...	870	110
10...	295	783	20...	320	381	30...	688	196
						31...		256
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							757	398
RUNOFF, IN INCHES.....							3.41	1.85

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	0200	3.71	127	6-23	2200	9.07	1,680				
6-19	2400	4.09	165	6-23	2400	9.06	1,660	6-27	0100	9.38	2,250
								6-27	2400	8.76	1,430
6-20	1100	4.88	244	6-24	0100	9.05	1,780				
6-20	2100	7.33	593	6-24	2400	8.80	1,480	6-28	0100	8.75	1,420
6-20	2400	7.75	723					6-28	2400	8.31	1,020
				6-25	1700	10.05	3,400				
6-21	1400	8.17	905	6-25	2000	10.07	3,440	6-29	0100	8.28	1,000
6-21	2400	8.31	987	6-25	2400	10.03	3,360	6-29	2400	7.77	749
6-22	2400	8.55	1,050	6-26	0100	10.02	3,340	6-30	0100	7.76	744
				6-26	2400	9.41	2,290	6-30	2400	7.46	643

CHOWAN RIVER BASIN

(623) 02044000 NOTTOWAY RIVER NEAR BURKEVILLE, VA.

LOCATION.--Lat 37°04'40", long 78°11'50", Nottoway County, on left bank at downstream side of bridge on State Highway 723, 4.0 miles upstream from Modest Creek, 5.6 miles north of Victoria, and 7.5 miles south of Burkeville.

DRAINAGE AREA.--38.7 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 354.58 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,200 cfs and by slope-area measurement at 13,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 11,800 cfs 2300 hours June 21 (gage height, 21.95 ft). 1947 to May 1972: Discharge, 13,400 cfs Oct. 23, 1971 (gage height, 22.33 ft). Maximum stage since at least 1930, 27.4 ft in August 1940, from Corps of Engineers flood-mark.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	39	29	11...	11	14	21...	2,540	12
2....	20	25	12...	10	61	22...	2,710	11
3....	16	21	13...	9.0	498	23...	100	10
4....	14	20	14...	8.4	62	24...	87	9.5
5....	12	167	15...	8.2	61	25...	53	9.0
6....	14	58	16...	7.5	23	26...	43	8.3
7....	34	30	17...	7.3	19	27...	34	8.1
8....	15	21	18...	8.8	16	28...	30	31
9....	13	17	19...	9.0	15	29...	33	118
10...	11	15	20...	11	13	30...	33	152
						31...		110
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							198	54
RUNOFF, IN INCHES							5.71	1.60

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.32	20	6-21	2100	21.33	9,000	6-22	2000	5.82	173
				6-21	2200	21.83	10,800	6-22	2200	5.29	147
				6-21	2300	21.95	11,800	6-22	2400	4.90	127
6-21	0600	2.45	25	6-21	2400	21.79	10,800				
6-21	0800	2.54	29								
6-21	1000	3.14	58					6-23	0600	4.43	104
6-21	1200	5.75	244	6-22	0200	21.01	8,200	6-23	1200	4.25	94
6-21	1300	7.54	400	6-22	0400	19.79	5,850	6-23	1800	4.24	94
6-21	1400	9.14	593	6-22	0600	18.34	3,950	6-23	2400	4.45	104
6-21	1500	13.59	1,740	6-22	0800	16.89	3,000				
6-21	1600	15.00	2,200	6-22	1000	15.44	2,360				
6-21	1700	16.52	2,820	6-22	1200	13.78	1,800	6-24	0600	4.36	100
6-21	1800	17.87	3,650	6-22	1400	11.94	1,230	6-24	1200	4.10	87
6-21	1900	19.22	4,980	6-22	1600	9.44	570	6-24	1800	3.76	71
6-21	2000	20.52	7,080	6-22	1800	6.67	236	6-24	2400	3.59	65

(624) 02044200 FALLS CREEK TRIBUTARY NEAR VICTORIA, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°02'04", long 78°10'26", Lunenburg County, at culvert on State Highway 49, 3.6 miles northeast of Victoria.

DRAINAGE AREA.--0.34 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 410 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 343 cfs 1600 hours June 21 (gage height, 9.15 ft). 1962 to May 1972: Discharge, 138 cfs Oct. 23, 1971 (gage height, 5.75 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	3.38	279	6-22	0800	18.37	16,100	6-23	1800	14.05	8,260
				6-22	0900	18.80	17,000	6-23	2000	13.25	7,020
				6-22	1000	19.13	17,700	6-23	2200	12.55	6,420
6-21	0600	3.48	325	6-22	1100	19.40	18,500	6-23	2400	11.83	5,780
6-21	1200	3.79	471	6-22	1200	19.67	19,200				
6-21	1600	4.28	736	6-22	1300	19.88	19,700				
6-21	1700	4.90	1,060	6-22	1400	20.08	20,200	6-24	0200	11.15	5,300
6-21	1800	5.65	1,450	6-22	1500	20.23	20,500	6-24	0400	10.50	4,760
6-21	1900	6.50	1,990	6-22	1600	20.34	20,800	6-24	0600	9.80	4,240
6-21	2000	6.95	2,290	6-22	1800	20.41	21,100	6-24	0800	9.15	3,790
6-21	2100	7.50	2,620	6-22	2000	20.42	21,100	6-24	1000	8.55	3,360
6-21	2200	8.15	3,080	6-22	2200	20.30	20,800	6-24	1200	7.95	2,940
6-21	2300	9.00	3,640	6-22	2400	20.00	20,000	6-24	1400	7.38	2,550
6-21	2400	9.90	4,320					6-24	1600	6.80	2,170
								6-24	1800	6.18	1,810
				6-23	0200	19.60	19,000	6-24	2000	5.58	1,450
6-22	0100	11.45	5,460	6-23	0400	19.10	17,700	6-24	2200	5.10	1,170
6-22	0200	12.90	6,680	6-23	0600	18.55	16,600	6-24	2400	4.76	979
6-22	0300	14.40	8,900	6-23	0800	17.87	15,100				
6-22	0400	15.55	10,800	6-23	1000	17.15	13,700				
6-22	0500	16.45	12,200	6-23	1200	16.40	12,200	6-25	1200	4.31	736
6-22	0600	17.20	13,700	6-23	1400	15.65	10,800	6-25	2400	4.06	606
6-22	0700	17.85	14,900	6-23	1600	14.83	9,540				

(627) 02045500 NOTTOWAY RIVER NEAR STONY CREEK, VA.

LOCATION.--Lat 36°54'00", long 77°24'00", Sussex County, on left bank 15 ft downstream from upstream bridge on U.S. Highway 301, 1.8 miles upstream from Island Swamp, 3.3 miles south of town of Stony Creek, and 4.4 miles upstream from Stony Creek.

DRAINAGE AREA.--579 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 58.42 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 20,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 8,630 cfs 1600 hours June 24 (gage height, 19.83 ft). 1930 to May 1972: Discharge, 25,200 cfs Aug. 17, 1940 (gage height, 23.66 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	417	905	11...	217	316	21...	385	295
2....	524	635	12...	198	490	22...	3,130	267
3....	470	498	13...	184	2,040	23...	5,000	245
4....	358	408	14...	174	1,890	24...	8,100	226
5....	298	393	15...	169	1,660	25...	7,320	208
6....	265	645	16...	166	770	26...	3,190	198
7....	299	890	17...	161	517	27...	738	191
8....	303	613	18...	179	414	28...	600	215
9....	277	445	19...	333	379	29...	1,550	678
10...	245	363	20...	288	332	30...	1,660	1,080
						31...		1,040
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,240	621
RUNOFF, IN INCHES							2.39	1.24

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	4.11	332	6-22	2400	15.25	4,180	6-25	0100	19.69	8,390
6-20	0030	4.11	332					6-25	2400	17.69	5,730
6-20	2030	3.84	278								
6-20	2400	3.90	290	6-23	1930	17.27	5,920				
				6-23	2400	18.19	7,100	6-26	0030	17.61	5,640
								6-26	2100	9.35	1,210
6-21	1430	4.24	360					6-26	2400	8.13	875
6-21	2200	5.16	590	6-24	0230	18.64	6,930				
6-21	2400	6.30	875	6-24	1600	19.85	8,630				
				6-24	2300	19.75	8,480	6-27	0030	7.96	1,190
				6-24	2400	19.71	8,420	6-27	0930	6.17	718
6-22	0030	6.83	758					6-27	2400	5.49	548
6-22	0630	12.56	2,750								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1430	3.00	21	6-21	1630	7.00	212	6-21	2000	4.15	62
6-21	1500	5.65	132	6-21	1700	5.85	143	6-21	2100	3.55	38
6-21	1530	8.30	292	6-21	1800	5.70	135	6-21	2200	3.25	28
6-21	1600	9.15	343	6-21	1900	4.75	88	6-21	2300	3.00	21

(625) 02044400 HURRICANE BRANCH NEAR BLACKSTONE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°04'47", long 77°58'55", Nottoway County, at culvert on State Highway 40, 0.3 mile east of Blackstone.

DRAINAGE AREA.--1.61 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 325 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert and flow over road.

MAXIMUMS.--June-July 1972: Discharge, 1,340 cfs 1830 hours June 21 (gage height, 13.31 ft). 1967 to May 1972: Discharge, 440 cfs Oct. 23, 1971 (gage height, 9.20 ft).

(626) 02044500 NOTTOWAY RIVER NEAR RAWLINGS, VA.

LOCATION.--Lat 36°59'00", long 77°48'00", Brunswick County, on right bank at downstream side of bridge on State Highway 612 at Harpers Bridge and 2.6 miles northwest of Rawlings.

DRAINAGE AREA.--309 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 184.88 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,100 cfs and extended above on basis of slope-conveyance study.

MAXIMUMS.--June-July 1972: Discharge, 21,100 cfs 2000 hours June 22 (gage height, 20.42 ft). 1940, 1951 to May 1972: Discharge, 23,900 cfs Oct. 24, 1971 (gage height, 21.36 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	352	438	11...	139	227	21...	1,000	176
2....	343	343	12...	131	316	22...	16,700	170
3....	242	288	13...	126	817	23...	12,400	160
4....	198	251	14...	123	1,310	24...	3,050	149
5....	178	325	15...	121	610	25...	736	141
6....	172	709	16...	118	327	26...	514	141
7....	185	505	17...	128	258	27...	409	133
8....	185	343	18...	251	235	28...	399	154
9....	166	283	19...	198	210	29...	1,200	616
10...	150	251	20...	172	188	30...	671	655
						31...		834
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,360	373
RUNOFF,IN INCHES							4.91	1.39

(628) 02046000 STONY CREEK NEAR DINWIDDIE, VA.

LOCATION.--Lat 37°04'01", long 77°36'10", Dinwiddie County, on right bank at upstream side of bridge on U.S. Highway 1, 1.2 miles southwest of Dinwiddie, 1.7 miles downstream from Chamberlains Bed Creek, and 5.7 miles downstream from confluence of White Oak and Butterwood Creeks.

DRAINAGE AREA.--112 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 129.94 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,040 cfs 0700 hours June 23 (gage height, 8.72 ft). 1947 to May 1972: Discharge, 5,030 cfs Oct. 24, 1971 (gage height, 15.07 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	350	74	11...	34	34	21...	139	32
2....	166	59	12...	30	128	22...	685	28
3....	108	47	13...	27	618	23...	901	24
4....	76	39	14...	26	338	24...	427	22
5....	61	64	15...	24	144	25...	188	20
6....	53	92	16...	24	87	26...	120	18
7....	49	83	17...	32	65	27...	89	17
8....	44	67	18...	40	51	28...	80	20
9....	38	51	19...	31	44	29...	129	81
10...	38	40	20...	41	38	30...	89	122
						31...		150
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							138	87
RUNOFF,IN INCHES							1.37	0.90

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.18	67	6-22	0300	6.00	499	6-23	0800	8.70	1,040
				6-22	0600	6.72	587	6-23	1200	8.50	959
				6-22	0900	7.30	680	6-23	1800	7.90	785
6-21	0600	2.35	84	6-22	1200	7.68	748	6-23	2400	7.08	646
6-21	1200	2.60	111	6-22	1800	7.75	765				
6-21	1800	3.02	155	6-22	2400	8.30	889				
6-21	2000	3.45	204					6-24	0600	6.10	511
6-21	2200	4.18	291					6-24	1200	5.27	415
6-21	2400	5.00	379	6-23	0600	8.71	1,040	6-24	1800	4.60	335
				6-23	0700	8.72	1,040	6-24	2400	4.06	274

(629) 02047000 NOTTOWAY RIVER NEAR SEBRELL, VA.

LOCATION.--Lat 36°46'13", long 77°09'59", Southampton County, on right bank 1,000 ft upstream from bridge on State Highway 653, 1 mile downstream from Three Creek, 2.5 miles southwest of Sebrell, and 5.5 miles upstream from Assamoosick Swamp.

DRAINAGE AREA.--1,421 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except June 22 to Aug. 10. Datum of gage is 5.94 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 9,840 cfs June 27 (gage height, 18.58 ft). 1940 to May 1972: Discharge, 48,000 cfs August 1940 (gage height, 29.7 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	984	3,800	11...	518	1,050	21...	602	1,200
2....	1,070	3,400	12...	459	1,100	22...	975	980
3....	1,280	3,100	13...	419	1,300	23...	2,800	860
4....	1,300	2,400	14...	385	2,000	24...	5,000	740
5....	1,100	1,800	15...	361	3,000	25...	8,000	650
6....	824	1,500	16...	338	3,600	26...	9,000	580
7....	672	1,300	17...	326	3,400	27...	9,300	520
8....	616	1,400	18...	336	2,900	28...	8,400	470
9....	606	1,500	19...	348	2,200	29...	5,800	450
10...	562	1,300	20...	493	1,500	30...	4,500	840
						31...		1,300
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							2,250	1,680
RUNOFF,IN INCHES							1.76	1.36

(630) 02047500 BLACKWATER RIVER NEAR DENDRON, VA.

LOCATION.--Lat 37°01'30", long 76°52'30", Surry County, on left bank 10 ft upstream from Walls Bridge on State Highway 617, 1.2 miles downstream from Cypress Swamp, and 3.5 miles southeast of Dendron.

DRAINAGE AREA.--294 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 30.99 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 848 cfs 1000 hours June 24 (gage height, 4.46 ft). 1940 to May 1972: Discharge, 10,000 cfs August 1940 (gage height, 13.1 ft, from Corps of Engineers floodmarks), from rating curve extended above 4,800 cfs.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	188	765	11...	118	55	21...	197	98
2...	170	484	12...	90	95	22...	516	74
3...	163	304	13...	70	194	23...	758	43
4...	150	200	14...	84	246	24...	832	24
5...	124	185	15...	80	349	25...	772	16
6...	104	200	16...	63	263	26...	670	12
7...	158	185	17...	54	188	27...	562	8.7
8...	152	152	18...	102	155	28...	479	10
9...	152	122	19...	94	134	29...	765	19
10...	143	84	20...	113	113	30...	987	32
						31...		80
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							297	158
RUNOFF, IN INCHES							1.13	0.62

(631) 02048000 BLACKWATER RIVER AT ZUNI, VA.

LOCATION.--Lat 36°52'05", long 76°50'07", Isle of Wight County, on left bank at downstream side of bridge on U.S. Highway 460 at Zuni, 1.6 miles downstream from Pope Swamp, and 4.2 miles upstream from Antioch Swamp.

DRAINAGE AREA.--456 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is 8.56 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,010 cfs 0600 hours June 26 (gage height, 8.25 ft). 1940 to May 1972: Discharge, 16,000 cfs August 1940 (gage height, 23.2 ft), from rating curve extended above 5,500 cfs.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	420	1,440	11...	219	199	21...	362	253
2...	362	1,440	12...	204	216	22...	701	209
3...	306	1,210	13...	184	632	23...	820	170
4...	267	920	14...	161	1,140	24...	880	136
5...	240	660	15...	148	1,360	25...	985	99
6...	214	465	16...	152	1,140	26...	1,010	70
7...	204	337	17...	144	880	27...	940	47
8...	199	281	18...	306	690	28...	840	37
9...	219	260	19...	465	498	29...	1,030	103
10...	229	234	20...	390	387	30...	1,210	246
						31...		306
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							460	517
RUNOFF, IN INCHES							1.13	1.31

(635) 02051000 NORTH MEHERRIN RIVER NEAR LUNENBURG, VA.

LOCATION.--Lat 36°59'50", long 78°21'00", Lunenburg County, on right bank at downstream side of bridge on State Highway 40, 0.5 mile downstream from Tusekiah Creek, 4.6 miles upstream from Juniper Creek, and 5.2 miles northwest of Lunenburg.

DRAINAGE AREA.--55.6 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 333.7 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,700 cfs and by slope-area measurement at 14,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,780 cfs 2230 hours June 21 (gage height, 20.65 ft). 1947 to May 1972: Discharge, 14,400 cfs Oct. 23, 1971 (gage height, 28.30 ft). Flood in August 1940 reached a stage of 48 ft, from information by local resident.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	40	24	11...	14	18	21...	1,740	14
2...	23	19	12...	14	131	22...	954	13
3...	20	17	13...	13	258	23...	86	12
4...	18	16	14...	13	47	24...	70	12
5...	19	310	15...	13	28	25...	39	11
6...	20	67	16...	12	21	26...	30	11
7...	38	36	17...	12	19	27...	24	10
8...	19	27	18...	18	17	28...	75	29
9...	16	22	19...	15	17	29...	61	89
10...	16	20	20...	16	16	30...	32	109
						31...		182
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							116	52
RUNOFF, IN INCHES							2.33	1.08

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.72	23	6-21	1600	16.72	3,080	6-22	0300	16.61	3,050
				6-21	1700	17.15	3,260	6-22	0400	14.10	2,390
				6-21	1800	18.05	3,550	6-22	0500	11.00	1,710
6-21	0600	1.77	26	6-21	1900	18.94	3,920	6-22	0600	8.15	1,110
6-21	0700	1.81	29	6-21	2000	19.70	4,290	6-22	0700	6.15	713
6-21	0800	1.95	37	6-21	2100	20.30	4,600	6-22	0800	5.20	513
6-21	0900	3.23	166	6-21	2200	20.57	4,780	6-22	0900	4.78	437
6-21	1000	4.35	356	6-21	2230	20.65	4,780	6-22	1000	4.50	383
6-21	1100	5.92	653	6-21	2400	20.16	4,550	6-22	1200	4.12	311
6-21	1200	6.28	733					6-22	1500	3.63	233
6-21	1300	6.35	753					6-22	1800	3.25	169
6-21	1400	11.00	1,710	6-22	0100	19.30	4,100	6-22	2400	2.78	111
6-21	1500	16.20	2,920	6-22	0200	18.25	3,630				

(636) 02051500 MEHERRIN RIVER NEAR LAWRENCEVILLE, VA.

LOCATION.--Lat 36°43'00", long 77°49'55", Brunswick County, on right bank 50 ft upstream from Gholson Bridge on State Highway 715, 0.6 mile upstream from Allen Creek, and 3 miles southeast of Lawrenceville.

DRAINAGE AREA.--552 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 136.56 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 19,000 cfs and extended above on basis of velocity-area studies and records for Nottoway River near Stony Creek.

MAXIMUMS.--June-July 1972: Discharge, 9,760 cfs 2000 hours June 23 (gage height, 23.96 ft). 1873 to May 1972: Discharge, 38,000 cfs Aug. 17, 1940 (gage height, 42.0 ft, from floodmark).

(632) 02049500 BLACKWATER RIVER NEAR FRANKLIN, VA.

LOCATION.--Lat 36°45'45", long 76°53'55", Southampton County, on right bank 0.4 mile south of Burdette, 0.5 mile upstream from Black Creek, 3.3 miles downstream from Corrowaugh Swamp, and 6 miles north of Franklin.

DRAINAGE AREA.--617 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1.56 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,610 cfs 1300 hours July 2; gage height, 8.74 ft July 16. 1940 to May 1972: Discharge, 21,000 cfs August 1940 (gage height, about 22 ft), from rating curve extended above 9,400 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	544	1,520	11...	237	248	21...	456	438
2....	491	1,600	12...	223	306	22...	610	324
3....	432	1,570	13...	207	700	23...	874	242
4....	373	1,330	14...	190	1,110	24...	1,040	189
5....	318	1,000	15...	172	1,420	25...	1,100	150
6....	274	707	16...	159	1,580	26...	1,120	120
7....	254	533	17...	160	1,470	27...	1,090	97
8....	246	404	18...	202	1,160	28...	995	106
9....	230	331	19...	309	824	29...	1,150	520
10...	234	287	20...	415	590	30...	1,420	610
						31...		526
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							518	710
RUNOFF,IN INCHES							0.94	1.33

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1400	3.50	45	6-21	1600	5.75	238	6-21	1900	4.25	95
6-21	1430	7.00	375	6-21	1630	5.00	160	6-21	1930	4.00	75
6-21	1500	7.65	448	6-21	1700	4.40	107	6-21	2000	3.90	67
6-21	1530	7.00	375	6-21	1800	4.35	103	6-21	2100	3.50	45

(633) 02050400 NORTH MEHERRIN RIVER NEAR BRIERY, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°04'20" long 78°27'45", Charlotte County, at culvert on U.S. Highway 360, 1.3 miles south of Briery, and 2.5 miles northeast of Keysville.

DRAINAGE AREA.--1.19 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 515 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 448 cfs 1500 hours June 21 (gage height, 7.65 ft). 1966 to May 1972: Discharge, 472 cfs Oct. 23, 1971 (gage height, 7.85 ft).

(634) 02050500 NORTH MEHERRIN RIVER NEAR KEYSVILLE, VA.

(Crest-stage station)

LOCATION.--Lat 37°03'05", long 78°25'20", Lunenburg County, at bridge on State Highway 687, 3.5 miles northeast of Keysville.

DRAINAGE AREA.--9.2 sq mi, approximately.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 475 ft (by barometer).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 570 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,720 cfs June 21 (gage height, 8.03 ft). 1949-61, 1966 to May 1972: Discharge, 1,670 cfs Oct. 24, 1971 (gage height, 7.94 ft). Flood in August 1940 reached a stage of 10.3 ft from information by local residents.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	285	453	11...	190	232	21...	1,030	254
2....	290	368	12...	175	245	22...	5,710	242
3....	270	307	13...	165	3,260	23...	8,720	214
4....	255	266	14...	163	2,900	24...	7,240	229
5....	240	306	15...	162	584	25...	1,060	209
6....	250	632	16...	156	393	26...	532	216
7....	290	487	17...	151	333	27...	423	193
8....	260	330	18...	193	353	28...	376	180
9....	230	276	19...	254	281	29...	1,050	243
10...	210	247	20...	213	255	30...	834	316
						31...		375
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,050	490
RUNOFF,IN INCHES							2.11	1.02

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.94	236					6-25	0400	7.86	1,450
6-20	0030	2.94	236					6-25	0730	6.00	899
6-20	2400	2.77	206	6-23	2000	23.96	9,760	6-25	2400	4.81	622
				6-23	2330	23.82	9,640				
				6-23	2400	23.77	9,590				
6-21	1430	3.39	332					6-26	0030	4.78	615
6-21	1530	3.67	385					6-26	2400	4.07	464
6-21	1630	4.84	630	6-24	0030	23.73	9,560				
6-21	1930	10.20	2,290	6-24	2030	16.54	5,020				
6-21	2400	15.20	4,390	6-24	2400	12.81	3,360	6-27	0030	4.07	464
								6-27	2400	3.69	389
6-22	2400	19.98	6,790	6-25	0030	12.20	3,110				

(637) 02051600 GREAT CREEK NEAR COCHRAN, VA.

LOCATION.--Lat 36°48'46", long 77°55'19", Brunswick County, on left bank at upstream side of bridge on State Highway 618, 1.4 miles southwest of Cochran, and 9.5 miles upstream from Roses Creek.

DRAINAGE AREA.--30.7 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 215.72 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 600 cfs and by contracted-opening measurements at 2,680 and 4,810 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,470 cfs 0030 hours June 22 (gage height, 15.34 ft). 1958 to May 1972: Discharge, 4,810 cfs July 10, 1959; gage height, 14.58 ft June 17, 1966.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	26	29	11...	11	14	21...	779	15
2....	18	24	12...	9.6	31	22...	1,820	14
3....	15	20	13...	9.2	199	23...	167	13
4....	13	18	14...	9.2	62	24...	73	12
5....	12	40	15...	9.2	31	25...	45	12
6....	13	32	16...	8.6	24	26...	35	11
7....	17	23	17...	8.2	20	27...	28	10
8....	14	20	18...	14	26	28...	36	11
9....	12	17	19...	12	20	29...	91	17
10...	11	16	20...	11	17	30...	37	24
						31...		27
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							112	27
RUNOFF,IN INCHES							4.08	1.03

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.49	22	6-21	2200	13.10	3,460	6-22	1200	9.16	941
				6-21	2400	15.22	5,370	6-22	1500	8.05	623
								6-22	1800	7.19	507
6-21	0600	2.70	30					6-22	2100	6.57	424
6-21	1200	2.89	40	6-22	0030	15.34	5,470	6-22	2400	6.08	359
6-21	1300	2.92	41	6-22	0200	15.00	5,170				
6-21	1400	3.15	56	6-22	0300	14.50	4,720				
6-21	1500	5.50	282	6-22	0400	13.58	3,910	6-23	0600	4.75	194
6-21	1600	7.75	591	6-22	0500	12.93	3,290	6-23	1200	4.15	134
6-21	1700	8.57	756	6-22	0600	12.27	2,810	6-23	1800	3.93	116
6-21	1800	9.30	976	6-22	0800	11.14	1,950	6-23	2400	3.70	95
6-21	2000	10.40	1,520	6-22	1000	10.12	1,340				

(638) 02052000 MEHERRIN RIVER AT EMPORIA, VA.

LOCATION.--Lat 36°41'24", long 77°32'27", Emporia City, on left bank at downstream side of bridge on U.S. Highway 301 and 1.2 miles upstream from Falling Run.

DRAINAGE AREA.--747 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 67.17 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 9,770 cfs 1300 hours June 24 (gage height, 21.84 ft).
1873 to May 1972: Discharge, about 40,000 cfs Aug. 17, 1940 (gage height, 31.5 ft, from floodmarks), from rating curve extended above 12,000 cfs on basis of record for station near Lawrenceville.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	438	748	11...	335	301	21...	742	290
2....	448	538	12...	307	336	22...	5,780	268
3....	438	440	13...	286	1,820	23...	8,170	250
4....	390	373	14...	265	5,040	24...	9,630	242
5....	358	373	15...	265	1,730	25...	5,620	228
6....	346	594	16...	256	580	26...	1,300	213
7....	400	804	17...	246	440	27...	650	204
8....	428	482	18...	335	412	28...	538	199
9....	390	386	19...	380	412	29...	1,020	255
10...	346	336	20...	390	336	30...	1,480	324
						31...		468
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,400	627
RUNOFF,IN INCHES.....							2.08	0.96

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	4.04	390	6-22	1800	18.73	6,790	6-25	0300	20.80	8,550
				6-22	2400	19.33	7,240	6-25	0600	19.83	7,640
								6-25	0900	18.30	6,510
6-21	0600	4.05	390					6-25	1200	16.48	5,400
6-21	1200	4.30	438	6-23	0600	19.93	7,720	6-25	1500	14.85	4,450
6-21	1500	4.43	468	6-23	1200	20.43	8,160	6-25	1800	13.40	3,780
6-21	1800	5.73	776	6-23	1800	20.83	8,550	6-25	2100	12.00	3,150
6-21	2000	6.72	1,060	6-23	2400	21.32	9,110	6-25	2400	10.68	2,560
6-21	2200	9.41	2,010								
6-21	2400	11.78	3,060								
				6-24	0600	21.72	9,630	6-26	0300	9.36	2,010
				6-24	1300	21.84	9,770	6-26	0600	8.38	1,640
6-22	0300	14.15	4,150	6-24	1800	21.73	9,630	6-26	0900	7.64	1,360
6-22	0600	15.83	4,990	6-24	2400	21.23	8,990	6-26	1200	6.98	1,150
6-22	0900	16.91	5,640					6-26	1800	6.15	916
6-22	1200	17.69	6,120					6-26	2400	5.63	748

ROANOKE RIVER BASIN

(640) 02053800 SOUTH FORK ROANOKE RIVER NEAR SHAWSVILLE, VA.

LOCATION.--Lat 37°08'24", long 80°16'00", Montgomery County, on left bank at bridge on State Highway 637, 0.3 mile downstream from Georges Run, 1.3 miles downstream from Elliott Creek, and 2.0 miles southwest of Shawsville.

DRAINAGE AREA.--110 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,361.87 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,700 cfs and by slope-area measurement at 14,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 14,200 cfs 0900 hours June 21 (gage height, 11.12 ft).
1961 to May 1972: Discharge, 3,340 cfs Mar. 7, 1967 (gage height, 6.35 ft).
Flood of Sept. 30, 1959, reached a stage of 9.89 ft, from information by local resident.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	122	278	11...	77	231	21...	6,840	147
2....	110	242	12...	75	216	22...	1,600	147
3....	102	223	13...	73	216	23...	799	147
4....	97	239	14...	75	180	24...	570	134
5....	95	555	15...	75	170	25...	450	124
6....	90	387	16...	113	160	26...	373	121
7....	90	303	17...	173	163	27...	315	124
8....	84	254	18...	124	160	28...	374	130
9....	84	219	19...	93	160	29...	411	153
10...	81	244	20...	598	156	30...	328	194
						31...		180
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							483	205
RUNOFF,IN INCHES.....							4.90	2.15

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	0.95	90	6-21	0200	6.35	3,340	6-21	2400	5.58	2,700
				6-21	0400	8.13	5,520				
				6-21	0600	9.45	8,650				
6-20	0600	1.11	133	6-21	0700	10.55	12,500	6-22	0300	5.07	2,300
6-20	0900	1.30	193	6-21	0800	10.85	13,200	6-22	0600	4.68	1,980
6-20	1200	2.00	440	6-21	0900	11.12	14,200	6-22	0900	4.34	1,720
6-20	1500	2.50	649	6-21	1000	10.90	13,600	6-22	1200	4.04	1,510
6-20	1800	2.93	885	6-21	1100	10.23	11,100	6-22	1500	3.74	1,310
6-20	2100	3.70	1,340	6-21	1200	9.75	9,800	6-22	1800	3.55	1,180
6-20	2400	5.00	2,250	6-21	1500	8.55	6,550	6-22	2100	3.38	1,090
				6-21	1800	7.41	4,440	6-22	2400	3.25	1,000
				6-21	2100	6.34	3,260				

(641) 02054500 ROANOKE RIVER AT LAFAYETTE, VA.

LOCATION.--Lat 37°14'11", long 80°12'34", Montgomery County, on right bank 120 ft upstream from bridge on State Highway 603 at Lafayette, 0.4 mile downstream from confluence of North and South Forks, and 1.1 miles upstream from Cove Hollow.

DRAINAGE AREA.--257 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,174.47 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,200 cfs and by slope-area measurement at 24,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 24,500 cfs 1300 hours June 21 (gage height, 15.60 ft, from floodmarks).
1940 to May 1972: Discharge, 19,000 cfs August 1940 (gage height, 12.2 ft, from information by local residents), from rating curve extended above 12,000 cfs.

REMARKS.--Records computed and furnished by the State of Virginia.

(639) 02052500 FONTAINE CREEK NEAR BRINK, VA.

LOCATION.--Lat 36°36'55", long 77°42'00", Greensville County, on left bank 30 ft upstream from bridge on State Highway 603, 0.3 mile downstream from Quarrel Creek, 3.6 miles west of Brink, and 10 miles southwest of Emporia.

DRAINAGE AREA.--65.2 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 152.59 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,400 cfs and by flow-over-dam measurement at 2,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,600 cfs 1700 hours June 22 (gage height, 13.60 ft).
1954 to May 1972: Discharge, 2,660 cfs May 7, 1958 (gage height, 18.18 ft).
Flood in August 1940 reached a stage of 18.5 ft (discharge, 2,720 cfs), from information by local residents.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	46	178	11...	30	15	21...	217	11
2....	28	68	12...	21	22	22...	1,380	9.9
3....	22	44	13...	16	81	23...	846	8.7
4....	19	33	14...	14	75	24...	273	8.3
5....	17	31	15...	13	44	25...	118	7.9
6....	17	39	16...	12	25	26...	63	7.3
7....	49	34	17...	12	18	27...	45	6.7
8....	37	26	18...	82	14	28...	233	8.2
9....	20	20	19...	115	14	29...	996	23
10...	19	17	20...	56	12	30...	426	30
						31...		35
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							175	31
RUNOFF,IN INCHES.....							2.99	0.55

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	4.32	57	6-22	0600	12.35	1,290	6-23	0600	11.70	1,120
				6-22	0900	12.63	1,340	6-23	0900	10.90	950
				6-22	1200	13.12	1,470	6-23	1200	10.15	810
6-21	0600	4.51	70	6-22	1400	13.42	1,550	6-23	1500	9.42	650
6-21	1200	5.20	124	6-22	1600	13.57	1,600	6-23	1800	8.84	544
6-21	1400	5.58	162	6-22	1700	13.60	1,600	6-23	2100	8.35	482
6-21	1600	6.17	217	6-22	1800	13.58	1,600	6-23	2400	7.94	414
6-21	1800	7.08	318	6-22	2100	13.40	1,550				
6-21	2000	8.03	426	6-22	2400	13.02	1,440				
6-21	2200	9.05	578					6-24	0600	7.24	330
6-21	2400	9.95	770					6-24	1200	6.69	262
				6-23	0300	12.42	1,290	6-24	1800	6.17	212
								6-24	2400	5.72	167
6-22	0300	11.45	1,060								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	212	395	11...	117	310	21...	11,700	173
2....	194	350	12...	110	285	22...	3,090	169
3....	180	330	13...	104	285	23...	1,370	192
4....	170	320	14...	110	250	24...	895	160
5....	159	732	15...	107	240	25...	695	147
6....	156	545	16...	107	220	26...	565	143
7....	156	430	17...	250	211	27...	475	139
8....	138	355	18...	208	196	28...	520	160
9....	131	320	19...	156	192	29...	555	228
10...	124	310	20...	530	182	30...	455	423
						31...		836
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							791	298
RUNOFF,IN INCHES.....							3.44	1.34

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	1.49	142	6-21	0600	9.60	8,660	6-22	0300	7.13	4,820
				6-21	0800	11.16	11,500	6-22	0600	6.32	3,730
				6-21	1000	13.30	16,000	6-22	0900	5.82	3,120
6-20	0600	1.56	166	6-21	1200	15.05	22,000	6-22	1200	5.42	2,700
6-20	1200	1.82	257	6-21	1300	15.60	24,500	6-22	1500	5.10	2,410
6-20	1500	2.32	460	6-21	1400	14.92	21,700	6-22	1800	4.76	2,160
6-20	1800	2.93	802	6-21	1500	14.07	18,700	6-22	2100	4.51	1,950
6-20	2000	3.52	1,100	6-21	1600	13.00	15,200	6-22	2400	4.28	1,810
6-20	2200	3.98	1,380	6-21	1700	12.05	13,000				
6-20	2300	4.57	1,760	6-21	1800	11.30	11,700				
6-20	2400	5.25	2,330	6-21	1900	10.60	10,500	6-23	0600	3.92	1,540
				6-21	2000	10.00	9,380	6-23	1200	3.61	1,360
				6-21	2200	9.00	7,620	6-23	1800	3.32	1,180
6-21	0200	6.85	4,400	6-21	2400	8.16	6,380	6-23	2400	3.08	1,080
6-21	0400	8.45	6,680								

(642) 02055000 ROANOKE RIVER AT ROANOKE, VA.

LOCATION.--Lat 37°15'30", long 79°56'20", Roanoke City, on left bank 50 ft downstream from Walnut Street Bridge, 3.2 miles upstream from Tinker Creek, and at mile 360.6.

DRAINAGE AREA.--395 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 906.84 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 25,300 cfs 2100 hours June 21 (gage height, 19.61 ft, from high-water mark in gage well).
1899 to May 1972: Discharge, 22,800 cfs Aug. 14, 1940 (gage height, 18.25 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	320	560	11...	193	356	21...	15,900	197
2....	285	469	12...	183	332	22...	7,620	201
3....	270	378	13...	177	320	23...	2,100	203
4....	253	365	14...	276	294	24...	1,260	186
5....	243	1,040	15...	198	279	25...	894	172
6....	232	769	16...	194	258	26...	699	162
7....	234	574	17...	306	241	27...	586	155
8....	220	477	18...	319	234	28...	709	173
9....	209	397	19...	267	218	29...	740	254
10...	203	348	20...	511	206	30...	579	499
						31...		785
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,210	358
RUNOFF,IN INCHES.....							3.41	1.05

GAGE HEIGHT, N FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.43	259								
6-20	0800	1.59	312								
6-20	1300	2.15	578	6-22	0030	18.08	22,500	6-25	0100	2.82	1,020
6-20	1730	1.94	462	6-22	0700	9.44	8,660	6-25	2400	2.48	776
6-20	2130	2.56	832	6-22	1230	6.73	4,980				
6-20	2330	3.39	1,480	6-22	2400	4.83	2,900				
6-20	2400	3.66	1,720					6-26	1430	2.32	672
								6-26	1530	2.69	923
				6-23	0030	4.77	2,840	6-26	1730	2.31	666
6-21	0430	6.86	5,120	6-23	2400	3.47	1,550	6-26	2400	2.23	622
6-21	1000	12.56	13,400								
6-21	1800	18.70	23,700								
6-21	2100	19.61	25,300	6-24	0100	3.44	1,530	6-27	0030	2.23	622
6-21	2400	18.56	23,400	6-24	2400	2.83	1,020	6-27	2400	2.14	572

(643) 02055100 TINKER CREEK NEAR DALEVILLE, VA.

LOCATION.--Lat 37°25'03", long 79°56'08", Botetourt County, on left bank 300 ft downstream from footbridge, 1,100 ft downstream from Norfolk & Western Railway bridge, 0.2 mile downstream from unnamed tributary, 0.5 mile south of Glebe Mills, and 1.3 miles northwest of Daleville.

DRAINAGE AREA.--11.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,217.47 ft above mean sea level (Norfolk & Western Railway bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and by indirect measurements of peak flow.

MAXIMUMS.--June-July 1972: Discharge, 4,000 cfs 0745 hours June 21 (gage height, 9.82 ft).
1957 to May 1972: Discharge, 2,180 cfs Aug. 25, 1961 (gage height, 8.52 ft).
Flood in 1940 reached a stage of 9.0 ft, from information by local resident.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9.3	18	11...	6.8	15	21...	696	11
2....	8.6	17	12...	6.7	15	22...	76	9.7
3....	8.2	16	13...	6.8	14	23...	45	9.2
4....	7.9	15	14...	7.0	13	24...	35	8.6
5....	7.7	63	15...	6.9	12	25...	28	8.1
6....	7.6	29	16...	7.1	12	26...	25	8.1
7....	7.5	22	17...	14	11	27...	22	8.5
8....	7.2	19	18...	9.6	11	28...	27	8.9
9....	6.9	17	19...	10	11	29...	25	12
10...	6.8	16	20...	18	10	30...	21	15
						31...		14
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							39	15
RUNOFF, IN INCHES.....							3.72	1.49

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.54	9.7	6-21	0730	9.17	3,040	6-23	2400	2.12	39
6-20	0830	1.64	14	6-21	0745	9.82	4,000				
6-20	1145	1.74	18	6-21	0945	7.64	1,660				
6-20	1445	1.98	31	6-21	1145	6.37	1,010	6-24	0215	2.11	39
6-20	1745	1.74	18	6-21	1445	4.86	484	6-24	2400	1.98	31
6-20	2045	1.74	18	6-21	1745	3.85	253				
6-20	2315	1.93	28	6-21	2245	3.18	147				
6-20	2400	2.27	51	6-21	2400	3.05	131	6-25	0230	1.98	31
								6-25	2400	1.90	26
6-21	0045	3.09	136	6-22	0015	3.03	129				
6-21	0215	4.36	356	6-22	1000	2.55	77	6-26	0515	1.90	26
6-21	0415	4.51	393	6-22	2345	2.28	51	6-26	2400	1.84	23
6-21	0600	4.40	366	6-22	2400	2.28	51				
6-21	0645	5.15	565								
6-21	0700	5.76	764								
6-21	0715	6.80	1,220	6-23	0245	2.27	51	6-27	1130	1.84	23
								6-27	2400	1.79	21

(645) 02057400 SMITH MOUNTAIN LAKE NEAR PENHOOK, VA.

LOCATION.--Lat 37°02'28", long 79°32'09", Pittsylvania County, at dam on Roanoke (Staunton) River 6.5 miles northeast of Penhook, and at mile 314.0.

DRAINAGE AREA.--1,024 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed from capacity table dated March 1966 furnished by Appalachian Power Company.

MAXIMUMS.--June-July 1972: Contents, 1,200,600 acre-ft June 22 (elevation, 797.6 ft).
1963 to May 1972: Contents, 1,146,500 acre-ft May 16, 1971 (elevation, 795.2 ft).

REMARKS.--Reservoir is formed by concrete dam. Two ungated spillways, one near each end of dam, with crests at elevation 795 ft are each 105 ft long. Initial filling began in September 1963 during construction; water in reservoir first reached minimum power pool (elevation, 787 ft) in May 1965. Total capacity at elevation 811 ft (maximum pool elevation) is 1,517,000 acre-ft, of which 375,000 acre-ft is above the spillway crest; 157,800 acre-ft is normally used for power between elevation 787 ft (minimum power pool) and the spillway crest. Capacity at invert of lowest penstock (elevation, 601 ft) is 100 acre-ft. Figures given herein represent total contents. Reservoir is part of the Smith Mountain Combination Project (pumped storage) which is used for hydroelectric power, flood control, low-water regulation for pollution abatement and water supply, water releases for downstream fish spawning, and recreation. Records of water-surface elevations and volume table furnished by Appalachian Power Company.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	JUNE		JULY		Day	JUNE		JULY	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	793.6	1,113,400	793.6	1,113,400	16	792.9	1,099,200	794.4	1,129,800
2	793.4	1,109,400	794.5	1,131,800	17	793.9	1,119,600	793.8	1,117,500
3	793.9	1,119,600	794.2	1,125,700	18	794.7	1,135,900	793.6	1,113,400
4	794.8	1,137,900	795.0	1,142,000	19	794.1	1,123,600	793.0	1,101,200
5	794.1	1,123,600	794.6	1,133,800	20	794.1	1,123,600	792.9	1,099,200
6	793.5	1,111,400	794.1	1,123,600	21	796.9	1,184,800	792.5	1,091,000
7	793.1	1,103,200	793.6	1,113,400	22	797.0	1,187,100	793.2	1,105,300
8	793.0	1,101,200	794.3	1,127,700	23	795.6	1,155,500	794.1	1,123,600
9	793.0	1,101,200	794.8	1,137,900	24	795.2	1,146,500	793.4	1,109,400
10	793.9	1,119,600	794.1	1,123,600	25	795.0	1,142,000	793.2	1,105,300
11	794.5	1,131,800	793.7	1,115,500	26	794.7	1,135,900	793.4	1,109,400
12	793.9	1,119,600	793.5	1,111,400	27	794.5	1,131,800	793.0	1,101,200
13	793.7	1,115,500	793.3	1,107,300	28	794.5	1,131,800	792.9	1,099,200
14	793.4	1,109,400	792.6	1,093,000	29	794.4	1,129,800	793.4	1,109,400
15	793.0	1,101,200	793.6	1,113,400	30	793.5	1,111,400	794.4	1,129,800
					31	-	-	793.9	1,119,600
Change in contents.....							-4,100		+8,200

(646) 02057700 POWDER MILL CREEK AT ROCKY MOUNT, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°00'26", long 79°52'25", Franklin County, at culvert on U.S. Highway 200 bypass at Rocky Mount.

DRAINAGE AREA.--0.64 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 1,080 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 202 cfs 0145 hours July 5 (gage height, 15.65 ft).
1967 to May 1972: Discharge, 158 cfs July 3, 1969 (gage height, 15.10 ft).

(644) 02056000 ROANOKE RIVER AT NIAGARA, VA.

LOCATION.--Lat 37°15'18", long 79°52'18", Roanoke County, on right bank 200 ft downstream from powerplant of Appalachian Power Co. at Niagara, 2 miles downstream from Tinker Creek, 2.1 miles southeast of Vinton, and at mile 355.3.

DRAINAGE AREA.--512 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 820.15 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,000 cfs and by slope-area measurement at 28,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 28,800 cfs 2100 hours June 21 (gage height, 18.98 ft). 1927 to May 1972: Discharge, 24,400 cfs Aug. 14, 1940 (gage height, 17.5 ft, from flood-mark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	457	769	11...	285	589	21...	18,000	390
2....	402	668	12...	268	568	22...	10,200	320
3....	377	621	13...	245	539	23...	2,670	402
4....	372	597	14...	411	505	24...	1,720	350
5....	370	1,970	15...	344	490	25...	1,300	334
6....	314	1,310	16...	282	452	26...	1,060	315
7....	360	985	17...	552	418	27...	871	276
8....	307	790	18...	454	403	28...	1,010	327
9....	306	669	19...	442	394	29...	1,260	441
10...	291	602	20...	676	316	30...	902	825
						31...		1,050
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,550	603
RUNOFF,IN INCHES.....							3.38	1.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	2.77	431								
6-20	1115	2.79	437	6-22	0015	18.57	27,600	6-25	0015	5.02	1,460
6-20	1300	3.73	804	6-22	0815	11.97	9,940	6-25	2400	4.47	1,170
6-20	1915	3.81	840	6-22	1500	9.35	5,490				
6-20	2300	4.55	1,210	6-22	2400	7.75	3,550				
6-20	2400	5.80	1,940					6-26	1615	4.25	1,060
								6-26	1700	4.52	1,190
				6-23	0015	7.72	3,520	6-26	1745	4.34	1,100
6-21	0330	8.66	4,590	6-23	2400	5.95	2,050	6-26	2400	4.04	950
6-21	0730	11.97	9,940								
6-21	1600	18.42	27,200								
6-21	2100	18.98	28,800	6-24	0015	5.94	2,040	6-27	0045	4.04	950
6-21	2400	18.60	27,700	6-24	2400	5.03	1,470	6-27	2400	3.76	817

(647) 02058400 PIGG RIVER NEAR SANDY LEVEL, VA.

LOCATION.--Lat 36°56'45", long 79°31'30", Pittsylvania County, on left bank 300 ft downstream from Harpen Creek, 0.5 mile upstream from bridge on State Highway 40, and 1.1 miles south of Sandy Level.

DRAINAGE AREA.--350 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 617.00 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,000 cfs and by slope-area measurement at 22,700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 22,700 cfs 0130 hours June 22 (gage height, 24.07 ft). 1964 to May 1972: Discharge, 14,900 cfs Aug. 31, 1964 (gage height, 21.11 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	642	531	11...	239	496	21...	11,200	379
2....	406	456	12...	295	678	22...	11,700	366
3....	368	429	13...	290	802	23...	1,360	357
4....	346	422	14...	294	528	24...	802	346
5....	336	8,180	15...	295	469	25...	630	345
6....	327	2,810	16...	286	449	26...	546	330
7....	334	1,040	17...	326	652	27...	496	319
8....	322	715	18...	416	455	28...	502	347
9....	313	594	19...	434	417	29...	839	373
10...	310	532	20...	464	397	30...	825	559
						31...		469
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,200	814
RUNOFF,IN INCHES.....							3.83	2.68

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	3.08	374					6-24	2400	3.61	690
6-20	1230	3.16	416	6-22	0130	24.07	22,700				
6-20	2200	3.57	675	6-22	1130	19.54	13,900				
6-20	2230	3.40	555	6-22	1530	7.63	3,780	6-25	0030	3.61	690
6-20	2300	3.64	728	6-22	1730	5.77	2,580	6-25	2400	3.46	579
6-20	2400	3.71	786	6-22	2400	4.81	1,850				
								6-26	0100	3.46	579
6-21	0630	5.18	2,140	6-23	0030	4.77	1,820	6-26	2400	3.35	513
6-21	0830	7.85	3,910	6-23	2400	3.90	1,030				
6-21	1200	17.50	11,400								
6-21	1530	22.29	18,500					6-27	0300	3.35	513
6-21	2400	24.03	22,600	6-24	0030	3.89	942	6-27	2400	3.29	477
				6-24	2200	3.63	705				

(648) 02059400 LEESVILLE LAKE NEAR LEESVILLE, VA.

LOCATION.--Lat 37°05'35", long 79°24'09", Campbell County, at Leesville Dam on Roanoke (Staunton) River, 2.0 miles south of Leesville, 3.5 miles upstream from Goose Creek, and at mile 296.

DRAINAGE AREA.--1,505 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed from capacity table dated May 1, 1964 furnished by Appalachian Power Company.

MAXIMUMS.--June-July 1972: Contents, 94,960 acre-ft June 23 (elevation, 613.0 ft).
1962 to May 1972: Contents, 98,180 acre-ft Feb. 1, 1965 (elevation, 614.0 ft).

REMARKS.--Reservoir is formed by concrete dam. Spillway, with crest at elevation 578.0 ft, is equipped with 4 radial gates 35 ft high by 50 ft wide. Storage began on Sept. 29, 1962, during construction, and water in reservoir first reached minimum power pool (elevation, 600.0 ft) on Mar. 5, 1963. Total capacity at elevation 613 ft (maximum pool elevation) is 94,960 acre-ft, of which 75,960 acre-ft is above the spillway crest; 38,200 acre-ft is normally used for power between elevations 600.0 ft (minimum power pool) and the spillway crest. Capacity at invert of lowest penstock (elevation, 579.75 ft) is 21,010 acre-ft. Figures given herein represent total contents. Reservoir is part of the Smith Mountain Combination Project (see sta 02057400). Records of water-surface elevations and volume table furnished by Appalachian Power Company.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	JUNE		JULY		Day	JUNE		JULY	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	610.7	87,550	609.8	84,710	16	612.3	92,710	601.7	61,760
2	611.0	88,520	604.3	68,720	17	606.9	76,190	606.0	73,540
3	607.4	77,660	606.5	75,010	18	601.5	61,220	608.4	80,600
4	601.2	60,420	604.2	68,460	19	604.5	69,260	611.7	90,770
5	606.1	73,830	611.6	90,450	20	603.3	66,040	610.9	88,200
6	610.7	87,550	610.1	85,620	21	611.0	88,520	611.7	90,770
7	611.5	90,130	610.5	86,910	22	612.6	93,670	607.8	78,830
8	612.2	92,380	607.0	76,480	23	612.3	92,710	602.0	62,560
9	612.0	91,740	602.0	62,560	24	610.0	85,300	606.4	74,720
10	606.5	75,010	607.6	78,240	25	606.7	75,600	607.8	78,830
11	600.9	59,610	608.4	80,600	26	603.8	67,380	606.6	75,300
12	606.4	74,720	609.7	84,420	27	605.1	70,890	608.9	82,070
13	607.7	78,540	610.4	86,590	28	605.7	72,660	610.3	86,270
14	609.0	82,360	612.4	93,030	29	607.3	77,360	607.3	77,360
15	611.7	90,770	607.5	77,950	30	610.4	86,590	601.6	61,490
					31	-	-	606.6	75,300
Change in contents.....							+1,290		-11,290

(649) 02059450 SOUTH FORK GOOSE CREEK AT MONTVALE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°22'47", long 79°43'50", Bedford County, at culvert on State Highway 607, 0.5 mile south of Montvale.

DRAINAGE AREA.--7.56 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 935 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 2,060 cfs 1100 hours June 21 (gage height, 8.10 ft).
1967 to May 1972: Discharge, 750 cfs Oct. 19, 1968 (gage height, 5.0 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	2,580	3,400	11...	578	4,530	21...	19,000	6,370
2...	2,600	486	12...	1,060	5,530	22...	35,800	446
3...	1,460	1,270	13...	1,050	5,780	23...	29,100	302
4...	1,070	438	14...	2,140	4,690	24...	15,900	2,000
5...	1,410	18,400	15...	685	920	25...	11,100	575
6...	1,070	18,800	16...	583	414	26...	10,800	645
7...	2,310	8,630	17...	204	1,220	27...	4,350	1,210
8...	1,980	2,000	18...	312	1,380	28...	3,070	1,250
9...	1,700	3,840	19...	4,420	1,220	29...	3,090	330
10...	628	2,190	20...	5,250	4,390	30...	5,230	430
						31...		1,170
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							5,680	3,360
RUNOFF,IN INCHES.....							3.55	2.17

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	0030	2.36	218					6-28	1600	13.31	10,100
6-18	0645	2.49	257					6-28	1700	12.54	9,100
6-18	1115	2.89	406	6-22	0215	26.78	37,300	6-28	2000	6.97	2,980
6-18	1315	2.95	430	6-22	2400	24.96	32,400	6-28	2145	5.01	1,510
6-18	1530	2.80	370					6-28	2400	3.93	885
6-18	2400	2.53	271								
				6-23	0015	24.93	32,300				
				6-23	2400	21.20	24,100	6-29	0345	3.39	615
								6-29	1015	3.46	650
6-19	1230	2.48	254					6-29	1130	3.64	740
6-19	1245	3.65	745					6-29	1145	4.51	1,210
6-19	1315	7.84	3,760	6-24	0015	21.13	24,000	6-29	1300	10.53	6,640
6-19	1445	11.52	7,820	6-24	1700	14.35	11,600	6-29	1600	13.47	10,400
6-19	2115	13.52	10,400	6-24	2400	14.15	11,300	6-29	2015	6.68	2,740
6-19	2315	13.60	10,500					6-29	2200	4.91	1,450
6-19	2400	13.29	10,100					6-29	2400	4.01	925
				6-25	0015	14.15	11,300				
				6-25	2400	13.88	10,900				
6-20	0330	6.84	2,870								
6-20	0500	4.91	1,450					6-30	0430	3.46	650
6-20	0645	3.80	820	6-26	0230	13.88	10,900	6-30	1115	3.44	640
6-20	0845	3.21	534	6-26	2345	13.06	9,780	6-30	1130	3.97	905
6-20	0900	3.27	558	6-26	2400	12.67	9,270	6-30	1245	10.16	6,190
6-20	0915	4.42	1,150					6-30	1530	13.06	9,780
6-20	1015	9.77	5,750					6-30	2345	13.73	10,700
6-20	1230	12.82	9,470	6-27	0245	7.33	3,300	6-30	2400	13.70	10,700
6-20	1445	13.43	10,300	6-27	0430	5.25	1,680				
6-20	1530	12.89	9,560	6-27	0700	4.04	940				
6-20	1845	6.90	2,920	6-27	1015	3.49	665	7-01	0015	13.58	10,500
6-20	2015	5.07	1,550	6-27	1030	3.86	850	7-01	0415	6.56	2,650
6-20	2030	5.22	1,650	6-27	1145	10.36	6,430	7-01	0600	4.80	1,380
6-20	2100	6.99	2,990	6-27	1430	13.20	9,980	7-01	0830	3.74	790
6-20	2245	11.77	8,120	6-27	1600	13.49	10,400	7-01	1215	3.24	546
6-20	2400	11.87	8,240	6-27	1700	12.58	9,150	7-01	1230	3.45	645
				6-27	2000	6.92	2,940	7-01	1245	5.09	1,560
				6-27	2145	5.00	1,500	7-01	1330	9.29	5,220
6-21	0315	6.63	2,700	6-27	2400	3.94	890	7-01	1515	12.20	8,660
6-21	0500	4.90	1,440					7-01	1930	6.02	2,220
6-21	0615	4.40	1,140					7-01	2115	4.51	1,210
6-21	0630	4.67	1,300	6-28	0415	3.33	585	7-01	2400	3.49	665
6-21	0645	5.58	1,910	6-28	1115	3.18	522				
6-21	0830	11.86	8,230	6-28	1130	3.35	595				
6-21	1145	18.21	18,100	6-28	1145	5.04	1,530	7-02	0015	3.44	640
6-21	1615	24.34	30,900	6-28	1230	9.42	5,360	7-02	0415	3.10	490
6-21	2400	26.61	36,800	6-28	1430	12.71	9,320	7-02	2400	2.90	410

(652) 02061500 BIG OTTER RIVER NEAR EVINGTON, VA.

LOCATION.--Lat 37°12'30", long 79°18'14", Campbell County, on right bank 10 ft upstream from bridge on State Highway 682, 2.0 miles southwest of Evington, and 2.1 miles upstream from Flat Creek.

DRAINAGE AREA.--320 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 544.02 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,000 cfs and extended above on basis of unit hydrographs and flood-routing studies by Corps of Engineers, and records of other stations in Roanoke River basin.

MAXIMUMS.--June-July 1972: Discharge, 18,800 cfs 2130 hours June 21 (gage height, 21.03 ft).
1937 to May 1972: Discharge, 27,500 cfs Oct. 19, 1937, Aug. 19, 1939 (gage height, 23.1 ft).

(650) 02059500 GOOSE CREEK NEAR HUDDLESTON, VA.

LOCATION.--Lat 37°10'23", long 79°31'14", Bedford County, on left bank 0.3 mile upstream from Haden Bridge on State Highway 732, 0.4 mile upstream from Rockcastle Creek, and 3.5 miles northwest of Huddleston.

DRAINAGE AREA.--188 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 592.91 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs and by slope-area measurements at 13,400 and 17,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 13,600 cfs 1330 hours June 21 (gage height, 19.43 ft). 1924-27, 1930 to May 1972: Discharge, 20,300 cfs Oct. 19, 1937 (gage height, 25.75 ft, from floodmarks).
Flood in August 1928 reached a stage of 35.3 ft, at site 4 miles downstream at different datum.

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	167	220	11...	122	204	21...	6,280	129
2....	150	179	12...	118	208	22...	2,120	126
3....	141	252	13...	118	201	23...	893	126
4....	137	236	14...	126	169	24...	610	114
5....	133	3,360	15...	126	158	25...	449	111
6....	130	921	16...	122	165	26...	350	106
7....	137	552	17...	205	158	27...	280	103
8....	133	380	18...	240	152	28...	288	111
9....	130	284	19...	215	145	29...	478	148
10...	130	236	20...	384	135	30...	345	284
						31...		165
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							509	317
RUNOFF,IN INCHES							3.02	1.95

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0600	1.81	240	6-21	1300	19.40	13,600	6-22	1000	6.00	1,840
6-20	1200	1.92	296	6-21	1330	19.43	13,600	6-22	1200	5.27	1,510
6-20	1800	2.26	483	6-21	1500	18.94	11,200	6-22	1800	4.83	1,360
6-20	2400	2.70	720	6-21	1600	18.22	9,760	6-22	2400	4.32	1,180
				6-21	1700	17.40	9,020				
				6-21	1800	16.63	8,200				
6-21	0200	2.87	805	6-21	2000	15.83	7,400	6-23	0600	3.89	1,020
6-21	0400	3.37	1,040	6-21	2200	15.17	6,840	6-23	1200	3.56	907
6-21	0600	4.10	1,300	6-21	2400	14.36	6,210	6-23	1800	3.29	812
6-21	0700	5.25	1,720					6-23	2400	3.12	734
6-21	0800	7.45	2,920								
6-21	0900	11.00	5,530	6-22	0200	12.90	5,240				
6-21	1000	13.85	7,900	6-22	0400	10.35	3,830	6-24	0100	3.05	706
6-21	1100	16.90	10,700	6-22	0600	8.10	2,780	6-24	2400	2.63	530
6-21	1200	18.80	12,900	6-22	0800	6.63	2,100				

(651) 02060500 ROANOKE (STAUNTON) RIVER AT ALTAVISTA, VA.

LOCATION.--Lat 37°06'16", long 79°17'44", Pittsylvania County, on right bank 12 ft upstream from bridge on U.S. Highway 29, 0.3 mile south of Altavista, 0.3 mile downstream from Sycamore Creek, 3.5 miles upstream from Big Otter River, and at mile 286.5.

DRAINAGE AREA.--1,789 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 503.10 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 52,000 cfs and extended above on basis of unit hydrograph and flood-routing studies by Corps of Engineers, and records for other stations in Roanoke River basin.

MAXIMUMS.--June-July 1972: Discharge, 37,300 cfs 0215 hours June 22 (gage height, 26.78 ft). 1931 to May 1972: Discharge, 105,000 cfs Aug. 15, 1940 (gage height, 40.08 ft, from floodmark).

REMARKS.--Flow regulated since 1962 by Leesville Lake 9.5 miles upstream (see sta 02059400) and, since September 1963, by Smith Mountain Lake 27.5 miles upstream (see sta 02057400).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0800	2.59	283	6-21	2400	20.89	18,300	6-24	0030	5.38	1,060
6-20	1730	3.35	463					6-24	1130	4.87	911
6-20	1930	3.97	641					6-24	2400	4.37	761
6-20	2130	5.01	953	6-22	0030	20.82	18,100				
6-20	2400	5.76	1,190	6-22	0200	20.37	16,500				
				6-22	0700	17.82	9,620	6-25	0030	4.34	752
				6-22	1000	16.27	7,240	6-25	1300	4.10	680
6-21	0130	6.14	1,320	6-22	1430	13.10	4,610	6-25	2400	3.85	605
6-21	0800	7.35	1,780	6-22	1600	11.54	3,660				
6-21	1100	13.16	4,650	6-22	1800	9.66	2,810				
6-21	1300	16.47	7,480	6-22	2400	7.69	1,930	6-26	0100	3.83	599
6-21	1400	17.70	9,400					6-26	1000	3.70	560
6-21	1600	20.01	15,200					6-26	2300	3.53	509
6-21	1730	20.75	17,800	6-23	0030	7.61	1,890	6-26	2400	3.50	500
6-21	2130	21.03	18,800	6-23	0700	6.67	1,510				
				6-23	2400	5.40	1,070				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	315	443	11...	182	468	21...	8,810	284
2....	264	373	12...	176	602	22...	7,410	268
3....	249	428	13...	172	1,350	23...	1,400	264
4....	237	345	14...	180	524	24...	908	242
5....	227	6,440	15...	218	430	25...	683	227
6....	218	1,680	16...	179	440	26...	554	217
7....	221	959	17...	259	468	27...	470	208
8....	205	737	18...	303	365	28...	433	225
9....	200	611	19...	360	348	29...	575	403
10...	194	527	20...	453	305	30...	686	854
						31...		587
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							891	697
RUNOFF,IN INCHES							3.11	2.51

(653) 02062500 ROANOKE (STAUNTON) RIVER AT BROOKNEAL, VA.

LOCATION.--Lat 37°02'28", long 78°57'02", Campbell County, on left bank 1,600 ft upstream from bridge on U.S. Highway 501 at Brookneal, 2.9 miles upstream from Falling River, and at mile 255.9.

DRAINAGE AREA.--2,415 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 351.96 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 55,000 cfs and extended above on basis of slope-area measurement by Geological Survey unit hydrograph and flood-routing studies by Corps of Engineers, and records for other stations in Roanoke River basin.

MAXIMUMS.--June-July 1972: Discharge, 58,400 cfs 0745 hours June 22 (gage height, 34.27 ft). 1878, 1924 to May 1972: Discharge, 130,000 cfs Aug. 15, 1940 (gage height, 46.5 ft).

REMARKS.--Flow regulated since 1962 by Leesville Lake 40.1 miles upstream (see sta 02059400) and, since September 1963, by Smith Mountain Lake 58.1 miles upstream (see sta 02057400).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,970	6,840	11...	1,030	3,380	21...	22,400	8,440
2....	3,390	2,830	12...	999	6,920	22...	54,900	4,330
3....	3,030	1,080	13...	1,520	8,600	23...	36,700	814
4....	1,950	2,240	14...	1,510	5,840	24...	22,900	772
5....	1,780	14,200	15...	2,760	5,750	25...	12,300	3,030
6....	1,660	28,100	16...	1,080	1,190	26...	11,500	1,010
7....	1,640	11,100	17...	1,020	1,240	27...	7,100	1,160
8....	3,750	7,260	18...	774	2,340	28...	3,850	1,930
9....	2,090	2,360	19...	1,260	2,440	29...	4,060	2,140
10...	1,790	4,770	20...	7,610	2,420	30...	4,480	1,490
						31...		2,010
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							7,460	4,780
RUNOFF,IN INCHES							3.45	2.28

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	0030	6.22	694	6-23	0015	31.29	46,200	6-29	0900	8.75	2,980
6-18	1730	6.43	841	6-23	2400	26.34	30,900	6-29	1545	7.69	1,870
6-18	2400	6.59	953					6-29	2015	7.66	1,840
								6-29	2030	8.16	2,340
				6-24	0015	26.30	30,800	6-29	2145	11.75	6,560
6-19	2200	6.49	883	6-24	2400	17.75	13,800	6-29	2400	13.28	8,400
6-19	2215	6.61	967								
6-19	2245	10.22	4,720								
6-19	2400	13.13	8,220	6-25	0015	17.68	13,700	6-30	0930	8.84	3,070
				6-25	2400	16.09	11,800	6-30	1530	8.03	2,210
								6-30	1945	8.18	2,360
6-20	0530	15.25	10,800					6-30	2015	9.10	3,380
6-20	0630	15.12	10,600	6-26	0015	16.09	11,800	6-30	2230	13.33	8,460
6-20	1530	8.84	3,070	6-26	2400	15.66	11,300	6-30	2400	14.41	9,750
6-20	1745	8.18	2,360								
6-20	1815	9.03	3,300								
6-20	1945	12.87	7,900	6-27	0100	15.66	11,300	7-01	0530	15.45	11,000
6-20	2315	14.08	9,360	6-27	0745	14.06	9,330	7-01	0800	14.70	10,100
6-20	2400	13.72	8,920	6-27	1400	9.17	3,460	7-01	1515	9.48	3,840
				6-27	1845	7.73	1,910	7-01	2100	7.92	2,100
				6-27	1915	7.91	2,090	7-01	2130	8.26	2,440
6-21	0430	10.68	5,280	6-27	2100	12.49	7,450	7-01	2300	11.44	6,190
6-21	0830	13.26	8,370	6-27	2400	13.71	8,910	7-01	2400	12.00	6,860
6-21	1200	16.24	11,900								
6-21	1415	22.84	22,100								
6-21	1845	30.41	42,600	6-28	0015	13.64	8,830	7-02	0015	12.04	6,910
6-21	2400	32.96	52,800	6-28	0745	8.88	3,120	7-02	0930	8.33	2,510
				6-28	1330	7.68	1,860	7-02	1645	7.36	1,570
				6-28	2030	7.40	1,610	7-02	2400	7.16	1,400
6-22	0745	34.27	58,400	6-28	2045	7.69	1,870				
6-22	1930	32.76	52,000	6-28	2200	11.62	6,400				
6-22	2400	31.37	46,500	6-28	2400	13.16	8,250	7-03	2315	7.16	1,400
								7-03	2345	7.71	1,890
								7-03	2400	8.33	2,510

(654) 02063600 BUTTON CREEK NEAR RUSTBURG, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°17'25", long 79°04'10", Campbell County, at culvert on State Highway 24, 2.0 miles northeast of Rustburg.

DRAINAGE AREA.--0.59 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 830 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 152 cfs 1200 hours June 21 (gage height 5.65 ft).
1966 to May 1972: Discharge, 72 cfs May 30, 1971 (gage height, 4.05 ft).

(655) 02063700 BUTTON CREEK TRIBUTARY NEAR RUSTBURG, VA.

(Crest-stage station)

LOCATION.--Lat 37°17'05", long 79°04'27", Campbell County, at culvert on State Highway 24, 2.0 miles northeast of Rustburg.

DRAINAGE AREA.--0.16 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 840 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 35 cfs June 21 (gage height, 4.35 ft).
1962 to May 1972: Discharge, 45 cfs Aug. 31, 1964 (gage height, 4.65 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,070	6,840	11...	1,230	2,920	21...	21,600	6,730
2....	3,470	2,900	12...	1,170	6,200	22...	78,600	4,490
3....	3,340	1,230	13...	1,660	7,640	23...	51,400	950
4....	2,270	2,040	14...	1,060	5,550	24...	30,000	878
5....	1,870	12,600	15...	2,740	5,470	25...	13,700	2,390
6....	2,050	32,800	16...	1,290	1,260	26...	11,300	1,030
7....	1,780	13,400	17...	1,170	1,240	27...	7,450	1,120
8....	3,700	8,060	18...	975	2,000	28...	4,030	1,670
9....	2,310	1,980	19...	1,130	2,040	29...	3,980	1,910
10...	2,000	4,590	20...	6,670	1,880	30...	4,210	1,960
						31...		1,980
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							9,060	4,770
RUNOFF, IN INCHES							3.76	2.04

(658) 02065200 ROANOKE (STAUNTON) RIVER AT CLARKTON, VA.

LOCATION.--Lat 36°58'38", long 78°53'50", Halifax County, on right bank 100 ft downstream from bridge on State Highway 620, 1,300 ft upstream from Catawba Creek, 0.8 mile southeast of Clarkton, 1.0 mile downstream from Childrey Creek, 3.8 miles northeast of Nathalie, and at mile 249.2.

DRAINAGE AREA.--2,691 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 340.00 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 17,000 cfs and extended above on basis of records for other stations in Roanoke River basin.

MAXIMUMS.--June-July 1972: Discharge, 85,500 cfs 1300 hours June 22 (gage height, 35.56 ft).
1964 to May 1972: Discharge, 24,700 cfs Aug. 25, 1967 (gage height, 24.87 ft).

REMARKS.--Flow regulated since 1962 by Leesville Lake 46.8 miles upstream (see sta 02059400) and, since September 1963, by Smith Mountain Lake 64.8 miles upstream (see sta 02057400).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0900	3.15	43	6-21	1200	8.75	555	6-21	1500	5.20	198
6-21	0930	4.75	85	6-21	1230	8.55	531	6-21	1600	4.20	116
6-21	1000	7.40	410	6-21	1300	8.80	561	6-21	1700	3.60	76
6-21	1030	9.75	682	6-21	1330	9.65	670	6-21	1800	3.30	58
6-21	1045	10.00	715	6-21	1400	9.10	598	6-21	1900	3.15	49
6-21	1130	9.30	624	6-21	1430	7.20	390	6-21	2000	3.00	40

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-18	0030	5.22	940	6-23	2400	28.23	38,700	6-29	0230	13.41	7,400
6-18	1430	5.33	995					6-29	0315	13.34	7,320
6-18	2400	5.56	1,110					6-29	1300	8.23	2,680
				6-24	0015	28.20	38,600	6-29	2015	6.81	1,760
				6-24	2400	21.81	18,900	6-29	2200	7.12	1,940
6-19	1915	5.46	1,060					6-29	2400	11.92	5,870
6-19	2330	5.51	1,090								
6-19	2345	5.82	1,240	6-25	0015	21.70	18,700				
6-19	2400	6.50	1,650	6-25	1445	17.78	12,500	6-30	0230	13.32	7,300
				6-25	2400	17.17	11,700	6-30	0330	13.18	7,150
								6-30	1345	8.25	2,700
6-20	0200	12.29	6,390					6-30	2045	7.32	2,060
6-20	0730	15.22	9,690	6-26	0015	17.16	11,700	6-30	2145	8.03	2,540
6-20	0745	15.22	9,690	6-26	2400	16.60	11,000	6-30	2400	12.82	6,770
6-20	1900	8.79	3,240								
6-20	2030	10.54	4,690								
6-20	2345	14.07	8,280	6-27	0015	16.60	11,000	7-01	0600	15.96	10,300
6-20	2400	14.11	8,330	6-27	0945	14.84	8,970	7-01	0715	16.02	10,300
				6-27	1645	9.54	3,720	7-01	1230	13.52	7,520
				6-27	2030	8.16	2,630	7-01	1845	8.93	3,200
6-21	0715	12.01	6,110	6-27	2145	10.40	4,440	7-01	2300	7.60	2,240
6-21	1045	14.86	9,230	6-27	2400	13.65	7,670	7-01	2400	9.07	3,320
6-21	1500	22.89	21,300								
6-21	2400	32.23	60,600								
				6-28	0130	14.08	8,140	7-02	0230	11.56	5,510
				6-28	0445	12.84	6,790	7-02	0300	11.62	5,570
6-22	1300	35.56	85,500	6-28	1145	8.46	2,840	7-02	1400	7.19	1,980
6-22	1330	35.49	84,900	6-28	1800	6.98	1,860	7-02	2230	6.03	1,340
6-22	2400	33.53	69,700	6-28	2200	7.00	1,870	7-02	2400	5.96	1,300
				6-28	2300	9.52	3,700				
				6-28	2400	11.83	5,780				
6-23	0015	33.45	69,100					7-03	0015	5.95	1,300
6-23	2315	28.34	39,200					7-03	2400	5.76	1,200

(656) 02064000 FALLING RIVER NEAR NARUNA, VA.

LOCATION.--Lat 37°07'36", long 78°57'36", Campbell County, on left bank at upstream side of bridge on State Highway 643, 2.7 miles northeast of Naruna, and 3.2 miles upstream from Little Falling River.

DRAINAGE AREA.--173 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 412.32 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,100 cfs and by slope-area measurements at 15,000, 22,000, and 32,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 32,600 cfs 0100 hours June 22 (gage height, 29.21 ft). 1930-34, 1940 to May 1972: Discharge, 22,000 cfs August 1940 (gage height, 26.5 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	262	188	11...	94	162	21...	9,460	117
2....	154	160	12...	93	179	22...	12,000	113
3....	131	165	13...	90	231	23...	784	110
4....	120	145	14...	93	171	24...	529	110
5....	118	4,430	15...	93	146	25...	399	104
6....	113	777	16...	83	131	26...	335	98
7....	113	352	17...	81	155	27...	237	96
8....	104	238	18...	148	134	28...	259	113
9....	101	199	19...	129	127	29...	255	285
10...	100	178	20...	160	123	30...	315	587
						31...		223
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							898	334
RUNOFF,IN INCHES.....							5.79	2.22

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	3.13	109					6-24	0030	4.88	631
6-20	1130	3.19	122	6-22	0100	29.21	32,600	6-24	2400	4.32	431
6-20	2330	3.86	282	6-22	0500	26.81	23,500				
6-20	2400	3.85	279	6-22	1000	21.13	11,500				
				6-22	1530	12.75	3,990	6-25	0030	4.32	431
				6-22	1700	8.25	1,950	6-25	2400	4.13	365
6-21	0600	3.72	245	6-22	1900	6.85	1,370				
6-21	0900	3.98	316	6-22	2400	6.11	1,080				
6-21	1000	4.83	613					6-26	0100	4.13	365
6-21	1030	5.93	1,010					6-26	2030	3.92	298
6-21	1200	12.03	3,630	6-23	0030	6.02	1,050	6-26	2400	3.76	256
6-21	1430	21.21	11,600	6-23	1400	5.16	732				
6-21	2100	27.23	25,000	6-23	2400	4.89	634				
6-21	2400	29.10	32,200					6-27	0030	3.75	253
								6-27	2400	3.62	221

(657) 02065100 SNAKE CREEK NEAR BROOKNEAL, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°00'42", long 78°57'52", Halifax County, at culvert on U.S. Highway 501, 2.1 miles south of Brookneal.

DRAINAGE AREA.--1.68 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 415 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 715 cfs 1045 hours June 21 (gage height, 10.00 ft). 1967 to May 1972: Discharge, 380 cfs Oct. 23, 1971 (gage height, 7.10 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	226	130	11...	63	103	21...	968	73
2....	133	110	12...	60	116	22...	6,300	71
3....	92	90	13...	59	140	23...	3,000	70
4....	83	80	14...	61	107	24...	1,500	66
5....	81	500	15...	61	94	25...	750	64
6....	78	1,400	16...	57	86	26...	500	62
7....	77	295	17...	56	90	27...	350	60
8....	70	151	18...	59	85	28...	250	74
9....	67	123	19...	72	80	29...	180	188
10...	65	109	20...	77	78	30...	150	524
						31...		738
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							518	192
RUNOFF,IN INCHES.....							5.90	2.26

(659) 02065300 RIGHT HAND FORK NEAR APPOMATTOX, VA.

(Flood-hydrograph station)

LOCATION.--Lat 37°16'12", long 78°49'14", Appomattox County, at culvert on State Highway 727, 5.2 miles south of Appomattox.

DRAINAGE AREA.--2.08 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph except 1100 hours to 1800 hours June 21. Altitude of gage is 585 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 705 cfs June 21 (gage height, 15.54 ft, from floodmarks). 1967 to May 1972: Discharge, 400 cfs May 30, 1971 (gage height, 9.50 ft).

(660) 02065500 CUB CREEK AT PHENIX, VA.

LOCATION.--Lat 37°04'45", long 78°45'50", Charlotte County, on right bank 10 ft upstream from bridge on State Highway 40, 0.9 mile west of Phenix, 1.9 miles downstream from Rough Creek, and 6.4 miles upstream from Louse Creek.

DRAINAGE AREA.--98.0 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except June 22 to July 6. Datum of gage is 370.19 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,800 cfs and extended above on basis of logarithmetic plotting. Discharge for June 22 to July 6 estimated on basis of records for nearby station.

MAXIMUMS.--June-July 1972: Discharge, 7,380 cfs June 22 (gage height, 20.37 ft, from floodmark in gage house). 1946 to May 1972: Discharge, 3,120 cfs Oct. 24, 1971 (gage height, 13.47 ft). Flood in August 1940 reached a stage of 17.5 ft from flood mark.

REMARKS.--Records computed and furnished by the State of Virginia.

(661) 02066000 ROANOKE (STAUNTON) RIVER AT RANDOLPH, VA.

LOCATION.--Lat 36°54'54", long 78°44'28", Halifax County, on right bank 14 ft downstream from bridge on State Highway 746, 2.8 miles northwest of Randolph, 3.6 miles upstream from Roanoke Creek, and at mile 227.3.

DRAINAGE AREA.--2,977 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 307.59 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 57,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 72,500 cfs 0930 hours June 23 (gage height, 30.96 ft). 1878, 1901 to May 1972: Discharge, 150,000 cfs Aug. 16, 1940 (gage height, 41.6 ft, from information by the Corps of Engineers).

REMARKS.--Flow regulated since 1962 by Leesville Lake 68.7 miles upstream (see sta 02059400) and since December 1963 by Smith Mountain Lake 86.7 miles upstream (see sta 02057400).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,380	7,560	11...	1,630	4,180	21...	11,000	5,890
2....	4,110	5,080	12...	1,360	6,490	22...	45,700	6,930
3....	3,780	2,040	13...	1,790	7,690	23...	70,500	1,680
4....	2,670	2,560	14...	1,880	7,640	24...	55,700	1,120
5....	2,110	7,240	15...	2,790	6,440	25...	32,100	2,510
6....	2,500	25,000	16...	1,780	2,420	26...	14,900	1,530
7....	2,000	28,400	17...	1,380	1,530	27...	11,000	1,290
8....	3,340	12,700	18...	1,250	2,360	28...	6,350	1,920
9....	2,940	4,150	19...	1,290	2,570	29...	5,530	2,180
10...	2,490	5,720	20...	5,130	2,410	30...	5,540	2,400
						31...		3,050
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							10,300	5,630
RUNOFF,IN INCHES.....							3.85	2.18

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	0030	5.70	1,120								
6-19	2015	6.14	1,400	6-23	0930	30.96	72,500				
6-19	2400	6.09	1,360	6-23	2400	30.12	66,500	6-28	0415	11.96	6,160
								6-28	1000	14.03	7,930
								6-28	1130	13.84	7,760
6-20	0630	6.13	1,390	6-24	0015	30.09	66,200	6-28	2400	9.53	3,680
6-20	0730	7.18	2,130	6-24	2400	27.10	44,700				
6-20	1100	12.51	6,660								
6-20	1630	14.30	8,170					6-29	0430	9.32	3,450
6-20	1815	14.04	7,940	6-25	0015	27.04	44,300	6-29	0945	13.14	7,160
6-20	2400	11.55	5,800	6-25	2400	22.66	20,000	6-29	1115	13.34	7,320
								6-29	1945	10.92	5,210
								6-29	2400	9.65	3,820
6-21	0400	11.63	5,870	6-26	0015	22.61	19,800				
6-21	1330	15.90	9,610	6-26	2145	19.30	12,700				
6-21	2400	23.07	21,300	6-26	2400	19.08	12,500	6-30	0415	9.21	3,330
								6-30	0945	13.06	7,100
								6-30	1145	13.27	7,270
6-22	1200	27.21	45,500	6-27	0015	19.06	12,500	6-30	2000	10.90	5,190
6-22	2400	30.27	67,500	6-27	1845	15.59	9,330	6-30	2400	9.76	3,940
				6-27	2400	12.56	6,700				

(662) 02066500 ROANOKE CREEK AT SAXE, VA.

LOCATION.--Lat 36°55'49", long 78°39'56", Charlotte County, on right bank at downstream side of bridge on State Highway 612, 500 ft northwest of Saxe, and 5.2 miles upstream from mouth.

DRAINAGE AREA.--135 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except June 23-26. Datum of gage is 322.36 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,600 cfs and extended above by logarithmic plotting. Discharge for June 23-26 computed from estimated effective gage-height graph.

MAXIMUMS.--June-July 1972: Discharge, 4,270 cfs 1500 hours June 22 (gage height, 13.11 ft); gage height, 14.79 ft 1600 hours June 22, from high-water mark in gage house (backwater from Roanoke River).
1947 to May 1972: Discharge, 7,110 cfs Oct. 24, 1971 (gage height, 15.83 ft, from high-water mark in gage house).
Flood of Aug. 16, 1940, reached a stage of 25.7 ft (backwater from Roanoke River), from floodmark.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	84	102	11...	42	58	21...	870	39
2....	81	76	12...	41	60	22...	3,640	36
3....	64	60	13...	38	72	23...	2,680	35
4....	55	52	14...	37	77	24...	729	32
5....	51	96	15...	37	64	25...	259	31
6....	51	322	16...	36	54	26...	154	29
7....	53	686	17...	35	49	27...	101	28
8....	56	324	18...	41	45	28...	73	32
9....	52	100	19...	42	41	29...	82	50
10...	46	68	20...	51	39	30...	116	104
						31...		179
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							323	98
RUNOFF,IN INCHES.....							2.67	0.84

(665) 02068660 LITTLE SNOW CREEK NEAR LAWSONVILLE, N. C.

(Crest-stage station)

LOCATION.--Lat 36°27'54", long 80°10'28", Stokes County, at bridge on Secondary Road 1657, 0.8 mile upstream from mouth, and 3.5 miles southeast of Lawsonville.

DRAINAGE AREA.--5.4 sq mi, approximately.

GAGE-HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 3,000 cfs June 21 (gage height, 24.3 ft).
1954 to May 1972: Discharge, 2,000 cfs June 12, 1962 (gage height, 23.52 ft).

(666) 02069030 BELEWS CREEK NEAR KERNERSVILLE, N. C.

(Crest-stage station)

LOCATION.--Lat 36°12'20", long 80°04'25", Forsyth County, at bridge on U. S. Highway 158, 4.7 miles upstream from East Belews Creek, and 6 miles north of Kernersville.

DRAINAGE AREA.--15 sq mi, approximately.

GAGE-HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 800 cfs and by flow-through culvert measurement at 3,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,600 cfs June 21 (gage height, 24.87 ft).
1954 to May 1972: Discharge, 3,600 cfs Aug. 16, 1969 (gage height, 24.36 ft).

(667) 02069700 SOUTH MAYO RIVER NEAR NETTLERIDGE, VA.

LOCATION.--Lat 36°34'15", long 80°07'47", Patrick County, on right bank at downstream side of bridge on State Highway 700, 1.2 miles southeast of Nettleridge, 1.4 miles downstream from Russell Creek, and 3.6 miles upstream from Spoon Creek.

DRAINAGE AREA.--84.6 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 871.60 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,000 cfs and by contracted-opening measurement at 16,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,100 cfs 1100 hours June 21 (gage height, 18.32 ft).
1963 to May 1972: Discharge, 3,290 cfs Oct. 31, 1970 (gage height, 10.91 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	150	234	11...	107	248	21...	6,820	182
2....	140	207	12...	107	283	22...	849	176
3....	132	207	13...	105	251	23...	472	169
4....	128	378	14...	105	224	24...	349	162
5....	124	1,180	15...	104	262	25...	292	160
6....	122	578	16...	100	227	26...	254	154
7....	122	385	17...	100	222	27...	230	147
8....	114	334	18...	181	207	28...	340	151
9....	114	289	19...	118	217	29...	528	160
10...	114	262	20...	340	204	30...	283	223
						31...		197
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							435	267
RUNOFF,IN INCHES.....							5.73	3.64

(663) 02068500 DAN RIVER NEAR FRANCISCO, N. C.

LOCATION.--Lat 36°30'53", long 80°18'11", Stokes County, on left bank 200 ft upstream from bridge on State Highway 704, 700 ft downstream from Georges Mill, 0.2 mile downstream from Elk Creek, 3 miles east of Francisco, and 7.9 miles downstream from Little Dan River.

DRAINAGE AREA.--124 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 830 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 8,400 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 7,530 cfs 1000 hours June 21 (gage height, 9.32 ft).
1925 to May 1972: Discharge, 12,400 cfs Oct. 19, 1937 (gage height, 12.45 ft).
Flood in 1916 reached a stage of about 15 ft, from information by local residents (discharge, 16,000 cfs).

REMARKS.--Considerable diurnal fluctuation and regulation from mills and powerplants above station. Talbott and Townes reservoirs above Pinnacles Hydroelectric Plant in Virginia, 28 miles above station, were completed in 1938.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	228	276	11...	156	363	21...	4,690	216
2....	211	239	12...	135	376	22...	1,370	219
3....	205	252	13...	179	358	23...	613	230
4....	191	284	14...	140	346	24...	452	210
5....	151	937	15...	178	322	25...	411	213
6....	183	584	16...	181	262	26...	388	186
7....	148	442	17...	182	225	27...	371	176
8....	142	397	18...	230	249	28...	371	150
9....	176	380	19...	140	230	29...	456	170
10...	184	363	20...	312	245	30...	376	262
						31...		225
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							438	303
RUNOFF,IN INCHES							3.94	2.82

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.88	208	6-21	1500	8.06	5,890	6-24	2400	2.46	424
6-20	0230	1.98	236	6-21	2400	5.14	2,590				
6-20	0830	2.16	292								
6-20	1300	1.96	230					6-25	0430	2.45	420
6-20	1800	1.91	216	6-22	0030	5.01	2,460	6-25	2400	2.39	393
6-20	1900	2.43	391	6-22	0730	3.87	1,380				
6-20	2130	2.53	435	6-22	1930	3.07	769				
6-20	2230	2.77	564	6-22	2400	2.95	688	6-26	1500	2.40	397
6-20	2400	3.54	1,080					6-26	2400	2.35	376
				6-23	0030	2.94	681				
6-21	0100	3.80	1,300	6-23	2400	2.59	485	6-27	1130	2.36	380
6-21	0430	5.81	3,260					6-27	2400	2.32	363
6-21	0930	9.18	7,340								
6-21	1000	9.32	7,530	6-24	0030	2.59	485				

(664) 02068610 HOG ROCK CREEK NEAR MOORES SPRINGS, N. C.

(Crest-stage station)

LOCATION.--Lat 36°23'53", long 80°19'46", Stokes County, at culvert on State Highway 66, 0.1 mile upstream from mouth, and 2.8 miles southwest of Moores Springs.

DRAINAGE AREA.--0.30 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 145 cfs June 21 (gage height, 19.95 ft).
1954 to May 1972: Discharge, 279 cfs July 12, 1964 (gage height, 22.12 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	3.79	128	6-21	0100	8.24	1,980	6-21	1600	13.60	5,900
				6-21	0200	9.80	2,780	6-21	1800	10.25	2,870
				6-21	0300	10.75	3,360	6-21	2000	8.37	1,900
6-20	0600	4.03	178	6-21	0400	11.85	4,120	6-21	2200	7.67	1,570
6-20	1200	4.77	380	6-21	0500	12.80	5,080	6-21	2400	7.20	1,340
6-20	1800	4.56	323	6-21	0600	13.60	5,900				
6-20	1900	4.54	317	6-21	0700	15.10	8,200				
6-20	2000	4.51	308	6-21	0800	16.95	12,400	6-22	0300	6.74	1,120
6-20	2100	4.62	341	6-21	0900	17.86	14,900	6-22	0600	6.41	990
6-20	2200	5.25	565	6-21	1000	18.17	15,800	6-22	1200	5.95	810
6-20	2300	6.50	1,120	6-21	1100	18.32	16,100	6-22	1800	5.58	670
6-20	2400	7.60	1,680	6-21	1200	18.00	15,200	6-22	2400	5.33	578
				6-21	1400	16.70	11,600				

(668) 02070000 NORTH MAYO RIVER NEAR SPENCER, VA.

LOCATION.--Lat 36°34'05", long 79°59'15", Henry County, on left bank 800 ft downstream from bridge on State Highway 629 at Moores Mill, 2.1 miles downstream from Horse Pasture Creek, and 3.8 miles southeast of Spencer.

DRAINAGE AREA.--108 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 730.94 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,500 cfs and by slope-area measurement at 12,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,600 cfs 1930 hours June 21 (gage height, 13.41 ft).
1929 to May 1972: Discharge, 17,200 cfs Oct. 9, 1947 (gage height, 15.80 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	175	275	11...	122	166	21...	5,790	124
2....	153	227	12...	122	183	22...	1,870	120
3....	146	204	13...	122	177	23...	317	118
4....	140	258	14...	120	156	24...	244	118
5....	138	938	15...	120	164	25...	210	111
6....	136	357	16...	118	148	26...	191	109
7....	140	240	17...	118	148	27...	175	107
8....	130	207	18...	210	146	28...	386	113
9....	126	185	19...	150	136	29...	1,680	122
10...	126	175	20...	204	130	30...	416	180
						31...		150
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							470	193
RUNOFF,IN INCHES							4.85	2.06

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	1.95	140	6-21	0900	6.95	3,060	6-22	0100	10.32	7,120
				6-21	1000	7.34	3,330	6-22	0200	9.52	5,920
				6-21	1100	7.92	3,930	6-22	0300	8.67	4,850
6-20	0600	1.96	143	6-21	1200	8.54	4,610	6-22	0400	7.97	4,040
6-20	1200	2.01	156	6-21	1300	9.12	5,370	6-22	0500	7.22	3,240
6-20	1800	2.30	240	6-21	1400	9.62	6,060	6-22	0600	6.57	2,740
6-20	2400	2.94	476	6-21	1500	10.27	7,120	6-22	0700	5.87	2,200
				6-21	1600	11.37	8,940	6-22	0800	4.87	1,520
				6-21	1700	12.32	10,500	6-22	0900	4.22	1,130
6-21	0100	3.12	554	6-21	1800	13.02	11,800	6-22	1000	3.74	868
6-21	0200	3.34	660	6-21	1930	13.41	12,600	6-22	1100	3.49	735
6-21	0300	3.62	785	6-21	2000	13.36	12,600	6-22	1200	3.34	660
6-21	0400	4.06	1,040	6-21	2100	13.02	11,800	6-22	1500	3.10	545
6-21	0500	4.67	1,400	6-21	2200	12.52	10,900	6-22	1800	2.94	476
6-21	0600	5.57	2,000	6-21	2300	11.92	9,820	6-22	2100	2.82	428
6-21	0700	6.12	2,340	6-21	2400	11.27	8,770	6-22	2400	2.71	384
6-21	0800	6.62	2,740								

(669) 02070500 MAYO RIVER NEAR PRICE, N. C.

(Gaging station, discontinued 1971)

LOCATION.--Lat 36°32'02", long 79°59'31", Rockingham County, on right bank 300 ft downstream from Anglins Bridge on Secondary Road 1358, 0.5 mile downstream from confluence of North and South Mayo Rivers, 0.8 mile downstream from Virginia-North Carolina State line, and 4 miles west of Price.

DRAINAGE AREA.--260 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 689.95 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 8,800 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 27,100 cfs June 21 gage height, 14.02 ft).
1930 to May 1972: Discharge, 30,000 cfs Oct. 19, 1937 (gage height, 14.00 ft).

(670) 02070810 JACOBS CREEK NEAR WENTWORTH, N. C.

(Crest-stage station)

LOCATION.--Lat 36°20'54", long 79°53'14", Rockingham County, at bridge on Secondary Road 2316, 3.5 miles upstream from mouth, and 7.2 miles southwest of Wentworth.

DRAINAGE AREA.--16 sq mi, approximately.

GAGE-HEIGHT RECORD.--Crest-stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 4,500 cfs June 21 (gage height, 30.2 ft).
1954 to May 1972: Discharge, 2,800 cfs Oct. 15, 1954 (gage height, 28.94 ft).

(671) 02071000 DAN RIVER NEAR WENTWORTH, N. C.

LOCATION.--Lat 36°24'47", long 79°49'45", Rockingham County, on right bank 600 ft downstream from Settles Bridge on Secondary Road 2150, 3.5 miles northwest of Wentworth, 7.5 miles downstream from Mayo River, and 103.7 miles upstream from mouth.

DRAINAGE AREA.--1,050 sq mi, approximately.

GAGE-HEIGHT RECORD.--Water-stage recorder graph, except 0700 hours June 21 to 1100 hours June 23 when graph was reconstructed on basis of engineer's readings and high-water mark in gage well. Datum of gage is 512.98 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 49,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 54,200 cfs about 0200 hours June 22 (gage height, 31.60 ft).
1940 to May 1972: Discharge, 38,100 cfs Sept. 18, 1945 (gage height, 27.78 ft).
Flood in 1908 reached a stage of 34.9 ft, from information by North Carolina State Highway Commission, and flood in 1937 reached a stage of 29.8 ft, from information by local resident.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,600	1,990	11...	883	1,480	21...	26,600	1,120
2....	1,160	1,640	12...	827	1,610	22...	47,800	1,060
3....	1,080	1,490	13...	790	1,820	23...	11,600	1,040
4....	1,030	1,410	14...	841	1,480	24...	3,430	1,030
5....	997	4,050	15...	782	1,410	25...	2,850	1,010
6....	934	3,510	16...	808	1,320	26...	2,530	989
7....	958	2,260	17...	784	1,250	27...	2,300	926
8....	891	1,870	18...	1,150	1,200	28...	2,470	948
9....	867	1,680	19...	1,100	1,170	29...	4,820	954
10...	898	1,560	20...	1,060	1,160	30...	2,750	1,520
						31...		1,660
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							4,220	1,540
RUNOFF, IN INCHES							4.48	1.69

(674) 02072000 SMITH RIVER NEAR PHILPOTT, VA.

LOCATION.--Lat 36°46'50", long 80°01'30", Franklin County, on left bank 900 ft downstream from Philpott Dam, 3.1 miles west of Philpott, 11.6 miles upstream from Reed Creek, and at mile 44.1.

DRAINAGE AREA.--216 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, except June 14-27. Datum of gage is 804.27 ft above mean sea level (Corps of Engineers bench mark). Prior to Oct. 8, 1952, at site 1.9 miles downstream at different datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,700 cfs and extended above on basis of slope-area measurements at 13,200 and 16,600 cfs. Discharge June 14-27 estimated from outflow records of Philpott Lake.

MAXIMUMS.--June-July 1972: Discharge, 4,560 cfs 1615 hours June 22 (gage height, 8.10 ft, from high-water mark in gage well), result of sluicing at dam.
1947 to May 1972: Discharge, 17,000 cfs June 29, 1949 (gage height, 20.3 ft, site and datum then in use).

REMARKS.--Flow regulated since August 1950 by Philpott Lake 0.2 mile upstream (see sta 02071900).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	677	51	11...	47	1,390	21...	45	719
2....	678	45	12...	201	1,240	22...	1,200	48
3....	47	716	13...	201	722	23...	2,600	48
4....	46	720	14...	201	726	24...	3,550	622
5....	571	704	15...	201	47	25...	3,550	621
6....	573	920	16...	201	48	26...	2,430	618
7....	574	1,370	17...	47	715	27...	1,380	619
8....	575	1,380	18...	47	725	28...	1,380	621
9....	573	1,380	19...	201	717	29...	1,390	47
10...	47	1,380	20...	201	722	30...	1,390	47
						31...		305
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							827	646
RUNOFF, IN INCHES							4.27	3.45

(675) 02072500 SMITH RIVER AT BASSETT, VA.

LOCATION.--Lat 36°46'15", long 80°00'00", Henry County, on left bank 5 ft upstream from bridge on State Highway 666 at north edge of North Bassett, 1.0 mile northwest of Bassett, 3.0 miles downstream from Town Creek, 5.6 miles upstream from Reed Creek, 6.2 miles downstream from Philpott Dam, and at mile 38.1.

DRAINAGE AREA.--259 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 753.09 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 24,000 cfs and extended above by logarithmic plotting on basis of record for station at Martinsville.

MAXIMUMS.--June-July 1972: Discharge, 6,550 cfs 1200 hours June 21 (gage height, 8.61 ft).
1938 to May 1972: Discharge, 38,200 cfs Oct. 19, 1937 (gage height, 22.9 ft, from information by local residents).

REMARKS.--Flow regulated since August 1950 by Philpott Lake 6.2 miles upstream (see sta 02071900).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	727	247	11...	88	1,460	21...	2,150	784
2....	722	105	12...	242	1,440	22...	1,340	114
3....	117	773	13...	243	796	23...	2,610	102
4....	93	817	14...	244	793	24...	3,710	675
5....	608	1,820	15...	244	120	25...	3,700	684
6....	616	972	16...	241	123	26...	2,730	681
7....	617	1,460	17...	93	789	27...	1,440	687
8....	615	1,460	18...	101	795	28...	1,480	696
9....	612	1,450	19...	245	790	29...	1,480	145
10...	94	1,450	20...	292	789	30...	1,470	134
						31...		375
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							965	759
RUNOFF, IN INCHES							4.16	3.38

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0600	2.77	892	6-21	2000	31.00	51,500				
6-20	1200	2.87	937	6-21	2400	31.56	54,000				
6-20	1600	3.03	1,010					6-24	1200	6.71	3,400
6-20	2000	3.40	1,200					6-24	2400	6.34	3,140
6-20	2200	4.35	1,780	6-22	0200	31.60	54,200				
6-20	2400	7.60	4,020	6-22	0800	31.18	52,300				
				6-22	1600	29.58	45,300	6-25	1200	5.87	2,810
				6-22	2400	26.71	34,100	6-25	2400	5.71	2,700
6-21	0200	9.75	5,700								
6-21	0500	14.45	10,000								
6-21	0800	18.10	14,600	6-23	0800	15.28	10,900	6-26	2400	5.29	2,400
6-21	1100	21.10	19,300	6-23	1200	10.48	6,330				
6-21	1400	24.82	28,300	6-23	1600	8.16	4,430				
6-21	1700	27.99	39,000	6-23	2400	7.36	3,850	6-27	2400	4.98	2,160

(672) 02071410 MATRIMONY CREEK NEAR LEAKSVILLE, N. C.

(Crest-stage station)

LOCATION.--Lat 36°31'39", long 79°50'08", Rockingham County, at bridge on Secondary Road 1501, 0.5 mile upstream from Little Matrimony Creek, and 5 miles northwest of Leaksville.

DRAINAGE AREA.--12.0 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORDS.--Stage-discharge relation defined by current-meter measurements below 2,400 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 2,800 cfs June 21 (gage height, 18.59 ft).
1958 to May 1972: Discharge, 2,300 cfs Aug. 1, 1969 (gage height, 17.98 ft).

(673) 02071900 PHILPOTT LAKE NEAR PHILPOTT, VA.

LOCATION.--Lat 36°46'52", long 80°01'40", Henry County, at Philpott Dam on Smith River, 1.5 miles west of Philpott, 12.0 miles upstream from Reed Creek, and at mile 44.3.

DRAINAGE AREA.--216 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed from capacity table dated May 19, 1965 furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Contents, 191,700 acre-ft June 22 (elevation, 983.06 ft).
1950 to May 1972: 174,740 acre-ft Oct. 25, 1971 (elevation, 977.67 ft).

REMARKS.--Reservoir is formed by concrete dam. Spillway, with crest at elevation 985 ft, is ungated and 120 ft long. Storage began in August 1950 during construction; initial filling started in December 1951; water in reservoir first reached rule-curve elevation in July 1953. Total capacity at elevation 998 ft (maximum flood-control pool) is 246,400 acre-ft, of which 48,300 acre-ft is above the spillway crest, 34,100 acre-ft is controlled flood storage between elevations 974 (maximum power pool) and 985 ft, 110,000 acre-ft is available for power between elevations 920 (minimum power pool) and 974 ft, and 54,000 acre-ft is dead storage below elevation 920 ft. Usable capacity is 144,100 acre-ft between elevations 920 and 985 ft. Figures given herein represent total contents. Reservoir is used for flood control, hydroelectric power, low-water regulation for pollution abatement and industrial water supply, and recreation. Records furnished by Corps of Engineers.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	JUNE		JULY		Day	JUNE		JULY	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	974.53	165,480	975.34	167,820	16	973.68	163,040	975.55	168,450
2	974.27	164,760	975.60	168,600	17	974.00	164,000	975.35	167,850
3	974.41	165,150	975.38	167,940	18	974.38	165,060	975.10	167,100
4	974.53	165,480	975.50	168,300	19	974.50	165,400	974.86	166,410
5	974.34	164,950	978.45	177,200	20	975.70	168,900	974.63	165,760
6	974.13	164,360	978.53	177,440	21	982.56	190,090	974.35	164,980
7	973.91	163,730	978.10	176,110	22	982.73	190,640	974.56	165,570
8	973.66	162,980	977.60	174,520	23	981.72	187,400	974.72	166,020
9	973.42	162,260	977.05	172,760	24	979.97	181,810	974.50	165,400
10	973.55	162,650	976.45	171,060	25	978.10	176,110	974.28	164,780
11	973.65	162,950	975.84	169,320	26	976.84	172,150	974.06	164,170
12	973.64	162,920	975.40	168,000	27	976.22	170,420	973.85	163,550
13	973.64	162,920	975.25	167,550	28	975.87	169,410	973.64	162,920
14	973.67	163,010	975.06	166,980	29	975.62	168,660	973.96	163,880
15	973.67	163,010	975.28	167,640	30	975.06	166,980	974.27	164,760
					31	-	-	974.32	164,900
Change in contents.....							+800		-2,080

(676) 02073000 SMITH RIVER AT MARTINSVILLE, VA.

LOCATION.--Lat 36°39'40", long 79°52'51", Henry County, on right bank 800 ft downstream from bridge on U.S. Highways 58 and 220, at south edge of Martinsville, and 5.0 miles downstream from Beaver Creek.

DRAINAGE AREA.--380 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 657.22 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 17,000 cfs and by flow-over-dam measurements at 25,400 and 39,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 20,900 cfs 1345 hours June 21 (gage height, 14.95 ft).
1930 to May 1972: Discharge, 39,000 cfs Oct. 19, 1937 (gage height, 21.50 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	918	643	11...	172	1,580	21...	8,720	877
2....	879	253	12...	313	1,640	22...	1,650	382
3....	552	841	13...	363	961	23...	2,290	196
4....	197	1,050	14...	347	913	24...	3,230	550
5....	558	3,070	15...	378	389	25...	3,210	787
6....	738	1,200	16...	351	273	26...	2,690	775
7....	770	1,640	17...	269	767	27...	1,520	775
8....	725	1,610	18...	263	890	28...	2,030	796
9....	754	1,590	19...	385	882	29...	2,580	509
10...	417	1,590	20...	621	868	30...	1,740	464
						31...		471
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,320	943
RUNOFF, IN INCHES.....							3.88	2.86

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	2.49	662					6-22	0245	2.28	494
6-20	0200	2.49	662					6-22	0300	1.92	256
6-20	0215	1.93	262	6-21	0030	3.59	1,710	6-22	0345	2.55	710
6-20	0230	1.42	75	6-21	0045	2.82	948	6-22	0400	2.65	795
6-20	0245	1.34	58	6-21	0145	3.29	1,410	6-22	0415	2.96	1,080
6-20	0430	1.32	54	6-21	0200	4.05	2,210	6-22	0430	3.55	1,670
6-20	0530	1.44	80	6-21	0445	4.49	2,690	6-22	0800	3.08	1,200
6-20	0545	1.87	232	6-21	0530	5.00	3,300	6-22	0815	3.74	1,860
6-20	0600	2.29	502	6-21	0600	6.45	5,110	6-22	0900	3.52	1,640
6-20	0700	2.29	502	6-21	0700	6.78	5,530	6-22	0915	2.67	813
6-20	0900	2.41	598	6-21	0945	10.62	11,800	6-22	1500	2.74	876
6-20	1215	2.34	542	6-21	1315	14.83	20,500	6-22	1600	3.10	1,220
6-20	1545	2.35	550	6-21	1345	14.95	20,900	6-22	1615	3.76	1,890
6-20	1600	2.16	402	6-21	1645	12.50	15,400	6-22	1915	4.83	3,100
6-20	1615	2.15	395	6-21	1915	7.16	6,080	6-22	1930	5.21	3,550
6-20	1630	2.33	534	6-21	1930	5.90	4,390	6-22	2000	5.10	3,420
6-20	1945	2.35	550	6-21	2000	4.81	3,070	6-22	2200	4.48	2,680
6-20	2015	2.52	686	6-21	2400	3.92	2,060	6-22	2215	3.96	2,110
6-20	2115	2.55	710					6-22	2400	3.79	1,920
6-20	2130	3.56	1,680								
6-20	2400	3.58	1,700	6-22	0230	3.56	1,680				

(677) 02074000 SMITH RIVER AT EDEN, N. C.

LOCATION.--Lat 36°31'31", long 79°45'57", Rockingham County, on right bank at Eden, 0.3 mile downstream from bridge on State Highway 14, 0.8 mile upstream from bridge on Secondary Road 1714, 1.2 miles south of Virginia-North Carolina State line, 1.3 miles downstream from Stuart Creek, and 3.9 miles upstream from mouth.

DRAINAGE AREA.--538 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 539.56 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 24,500 cfs and by flow over dam measurement at 45,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 24,800 cfs 2000 hours June 21 (gage height, 16.24 ft).
1940 to May 1972: Discharge, 45,600 cfs Aug. 15, 1940 (gage height, 19.28 ft).

REMARKS.--Flow regulated since August 1950 by Philpott Reservoir 40 miles upstream (usable capacity, 6,325,000,000 cu ft). Some additional regulation by hydroelectric plant at Martinsville, Va. 18 miles upstream.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,140	1,320	11...	322	1,770	21...	16,700	1,000
2....	1,020	521	12...	311	1,930	22...	4,950	1,010
3....	989	534	13...	462	1,210	23...	3,250	347
4....	359	1,070	14...	480	1,070	24...	4,410	340
5....	350	4,820	15...	474	1,060	25...	4,290	913
6....	845	1,810	16...	473	368	26...	3,980	885
7....	858	1,990	17...	470	470	27...	1,900	894
8....	880	1,850	18...	531	1,020	28...	2,140	921
9....	842	1,830	19...	486	1,030	29...	3,740	932
10...	862	1,780	20...	822	1,030	30...	2,450	731
						31...		582
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							2,030	1,190
RUNOFF, IN INCHES							4.20	2.56

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.48	468					6-24	0230	6.67	4,470
6-20	0300	2.26	338					6-24	2400	6.57	4,340
6-20	0330	2.32	372	6-22	0030	13.13	16,800				
6-20	0500	2.89	723	6-22	0330	8.58	7,290				
6-20	0900	2.98	786	6-22	0800	6.00	3,600	6-25	0530	6.56	4,330
6-20	1330	2.63	558	6-22	1430	5.41	2,950	6-25	2400	6.48	4,220
6-20	1600	3.20	940	6-22	2000	4.93	2,440				
6-20	2100	3.39	1,070	6-22	2400	7.12	5,070				
6-20	2330	4.36	1,920					6-26	0730	6.49	4,240
6-20	2400	4.63	2,170					6-26	2000	6.18	3,830
				6-23	0030	7.05	4,970	6-26	2400	4.65	2,190
				6-23	0600	5.18	2,700				
6-21	0500	8.37	6,930	6-23	1630	5.06	2,570				
6-21	0930	13.27	17,200	6-23	2200	6.66	4,460	6-27	0030	4.57	2,110
6-21	2000	16.24	24,800	6-23	2400	6.68	4,480	6-27	0830	4.31	1,880
6-21	2100	16.06	24,400					6-27	2030	4.15	1,740
6-21	2400	13.77	18,400					6-27	2400	4.35	1,920

(678) 02074500 SANDY RIVER NEAR DANVILLE, VA.

LOCATION.--Lat 36°37'10", long 79°30'16", Pittsylvania County, on right bank 200 ft downstream from Hickory Forest Creek, 400 ft upstream from bridge on State Highway 863 between Callahans Store and Mount Cross, 5.5 miles northwest of western corporate limits of Danville, and 5.8 miles upstream from mouth.

DRAINAGE AREA.--112 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 460.38 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 10,500 cfs 1730 hours June 21 (gage height, 9.92 ft).
1930 to May 1972: Discharge, 23,000 cfs Aug. 14, 1940 (gage height, 14.8 ft, from floodmarks).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	125	95	11...	80	107	21...	7,070	83
2....	103	82	12...	80	203	22...	1,260	82
3....	95	76	13...	78	196	23...	206	80
4....	91	74	14...	78	130	24...	148	76
5....	87	1,310	15...	74	112	25...	121	76
6....	85	260	16...	71	101	26...	105	74
7....	85	172	17...	73	97	27...	91	73
8....	82	142	18...	135	93	28...	142	80
9....	82	123	19...	99	91	29...	152	88
10...	83	114	20...	172	89	30...	123	166
						31...		163
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							376	152
RUNOFF, IN INCHES							3.74	1.56

(680) 02075160 MOON CREEK NEAR YANCEYVILLE, N. C.

LOCATION.--Lat 36°28'13", long 79°23'00", Caswell County, on right bank at downstream side of bridge on Secondary Road 1321, 0.5 mile downstream from East Prong, and 5.5 miles northwest of Yanceyville.

DRAINAGE AREA.--29.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals, except 1800 hours June 21 to 2400 hours June 25 when graph was reconstructed on basis of records for nearby stations. July 2, 1953 to Sept. 30, 1961, crest-stage gage at upstream side of bridge at datum 8.46 ft higher. Altitude of gage is 420 ft (by barometer).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,010 cfs 1730 hours June 21 (gage height, 13.81 ft) result of dam failure.
1954 to May 1972: Discharge, 3,050 cfs Oct. 15, 1954 (gage height, 20.70 ft, site and datum in use).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	53	15	11...	10	8.9	21...	1,950	7.2
2....	25	13	12...	10	15	22...	590	6.8
3....	18	11	13...	9.5	25	23...	62	6.3
4....	15	10	14...	9.2	14	24...	30	5.9
5....	13	14	15...	8.7	11	25...	20	6.0
6....	12	14	16...	8.3	9.4	26...	17	5.5
7....	12	12	17...	8.3	8.7	27...	16	5.9
8....	11	11	18...	29	8.3	28...	18	18
9....	10	9.8	19...	28	7.9	29...	24	11
10...	10	9.4	20...	26	7.6	30...	19	10
						31...		13
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							102	11
RUNOFF, IN INCHES							3.82	0.41

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0600	2.32	18	6-21	1500	13.01	3,450				
6-20	1200	2.65	26	6-21	1700	13.68	3,920				
6-20	1600	2.63	25	6-21	1730	13.81	4,010	6-23	0800	4.18	79
6-20	2000	2.78	29	6-21	1800	13.80	4,000	6-23	1200	3.97	62
6-20	2200	3.01	37	6-21	2100	12.98	3,430	6-23	1600	3.76	51
6-20	2300	3.32	50	6-21	2400	11.25	2,290	6-23	2400	3.51	41
6-20	2400	3.92	94								
				6-22	0300	9.69	1,230	6-24	1200	3.26	31
6-21	0200	5.80	213	6-22	0700	8.44	632	6-24	2400	3.02	24
6-21	0500	6.83	304	6-22	1200	7.49	373				
6-21	0800	7.92	536	6-22	1800	6.14	222				
6-21	1000	8.98	950	6-22	2400	4.84	143	6-25	2400	2.77	18

(681) 02075230 SOUTH COUNTRY LINE CREEK NEAR HIGHTOWERS, N. C.

(Crest-stage station)

LOCATION.--Lat 36°19'29", long 79°18'20", Caswell County, at bridge on Secondary Road 1759, 1.8 miles upstream from Penson Creek, and 3.5 miles west of Hightowers.

DRAINAGE AREA.--7.1 sq mi, approximately.

GAGE-HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 570 cfs and by slope-area measurement at 1,010 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,050 cfs June 21 (gage height, 17.59 ft).
1954 to May 1972: Discharge, 2,360 cfs July 12, 1955 (gage height, 22.12 ft, at different datum).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	2400	1.61	89	6-21	0600	6.37	3,870	6-21	2400	7.85	6,340
				6-21	0800	8.20	7,070				
				6-21	1000	9.33	9,200				
6-20	0600	1.62	91	6-21	1200	9.67	10,000	6-22	0200	6.58	4,270
6-20	1200	1.98	175	6-21	1400	9.52	9,600	6-22	0400	5.36	2,450
6-20	1800	2.00	180	6-21	1600	9.74	10,000	6-22	0600	4.39	1,480
6-20	2400	2.88	480	6-21	1730	9.92	10,500	6-22	0900	3.61	890
				6-21	2000	9.64	9,820	6-22	1200	3.20	650
				6-21	2200	9.00	8,600	6-22	1800	2.70	353
6-21	0300	3.83	1,060					6-22	2400	2.46	266

(679) 02075000 DAN RIVER AT DANVILLE, VA.

LOCATION.--Lat 36°35'15", long 79°22'55", Danville City, on left bank 50 ft downstream from Southern Railway bridge, 1,000 ft upstream from Fall Creek, and at mile 62.7.

DRAINAGE AREA.--2,050 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 379.29 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 56,000 cfs and extended above on basis of flow-over-dam measurement at 75,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 59,200 cfs 2100 hours June 22 (gage height, 21.34 ft, backwater from debris).
1892 to May 1972: Discharge, 75,000 cfs Aug. 15, 1940 (gage height, 20.96 ft).

REMARKS.--Flow regulated since August 1950 by Philpott Lake 74.7 miles upstream (see sta 02071900).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,300	3,700	11...	1,600	3,000	21...	31,600	2,000
2....	3,000	2,500	12...	1,350	3,400	22...	57,600	1,900
3....	2,500	2,300	13...	1,400	3,300	23...	48,500	1,600
4....	2,000	2,500	14...	1,500	2,800	24...	17,300	1,450
5....	1,700	8,200	15...	1,500	2,300	25...	9,860	1,600
6....	1,900	8,900	16...	1,450	1,900	26...	6,000	1,800
7....	2,000	6,980	17...	1,400	1,950	27...	5,000	1,800
8....	1,900	4,000	18...	2,000	2,200	28...	3,900	1,800
9....	1,900	3,300	19...	2,600	2,150	29...	6,700	1,900
10...	1,900	3,100	20...	2,600	2,100	30...	6,000	2,100
						31...		2,300
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							7,730	2,950
RUNOFF, IN INCHES							4.21	1.66

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	3.78	2,440	6-22	2100	21.34	59,200				
6-20	0915	3.85	2,540	6-22	2400	21.26	58,800				
6-20	2045	4.11	2,920					6-25	0145	7.72	10,000
6-20	2400	4.53	3,550					6-25	2400	7.63	9,800
				6-23	0045	21.27	57,500				
				6-23	2400	15.83	32,500				
6-21	0015	4.55	2,750					6-26	0015	7.62	9,770
6-21	0245	5.09	3,560					6-26	2400	7.49	9,420
6-21	0430	6.16	5,290	6-24	0015	15.72	37,800				
6-21	0645	8.47	10,600	6-24	0030	15.57	37,200				
6-21	1530	18.54	48,000	6-24	0730	9.76	16,100	6-27	0115	7.48	9,400
6-21	2400	20.57	58,100	6-24	1530	8.43	12,000	6-27	1900	6.31	6,530
				6-24	1900	7.86	10,400	6-27	2400	6.29	6,490
				6-24	2400	7.71	10,000				

(682) 02075500 DAN RIVER AT PACES, VA.

LOCATION.--Lat 36°38'32", long 79°05'23", Halifax County, on right bank 100 ft upstream from bridge on State Highway 658, 0.5 mile southeast of Paces, 0.5 mile upstream from Big Toby Creek, 2.7 miles upstream from Birch Creek, and at mile 36.0.

DRAINAGE AREA.--2,550 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 322.48 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 32,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 64,800 cfs 1115 hours June 23 (gage height, 33.15 ft).
1951 to May 1972: Discharge, 34,000 cfs Oct. 17, 1954 (gage height, 25.40 ft).
Flood of Aug. 16, 1940, reached a stage of 32.3 ft, from floodmark.

REMARKS.--Flow regulated since August 1950 by Philpott Lake 101.4 miles upstream (see sta 02071900).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4,090	5,260	11...	2,320	3,710	21...	13,400	2,580
2....	3,720	3,720	12...	1,770	3,850	22...	45,400	2,510
3....	3,090	2,780	13...	1,610	4,750	23...	63,400	2,360
4....	2,850	2,680	14...	1,780	3,710	24...	47,700	1,760
5....	2,110	5,780	15...	1,830	3,160	25...	18,300	1,760
6....	2,050	9,910	16...	1,720	2,980	26...	7,380	2,220
7....	2,460	5,430	17...	1,720	2,230	27...	6,270	2,180
8....	2,460	4,590	18...	2,250	2,320	28...	4,640	2,210
9....	2,390	4,110	19...	3,190	2,690	29...	6,090	2,230
10...	2,300	3,870	20...	3,140	2,660	30...	8,180	2,390
						31...		2,760
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							8,990	3,390
RUNOFF, IN INCHES							3.93	1.53

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	7.13	3,290					6-25	2400	13.32	8,780
6-20	0200	7.13	3,290								
6-20	2400	6.66	2,960	6-23	1115	33.15	64,800				
				6-23	2400	32.33	60,700	6-26	0015	13.24	8,690
								6-26	2215	11.63	6,970
6-21	0645	8.10	3,980					6-26	2400	11.59	6,930
6-21	0830	10.44	5,900	6-24	0015	32.18	59,900				
6-21	1300	19.09	17,100	6-24	2400	25.02	31,100				
6-21	2400	23.33	25,700					6-27	0015	11.59	6,930
								6-27	2400	9.30	4,940
				6-25	0015	24.84	30,400				
6-22	2400	32.40	61,000	6-25	2215	13.96	9,550				

(683) 02075900 LAWSONS CREEK NEAR TURBEVILLE, VA.

(Flood-hydrograph station)

LOCATION.--Lat 36°36'41", long 79°01'28", Halifax County, at culvert on State Highway 658, 1 mile southeast of Turbeville.

DRAINAGE AREA.--8.7 sq mi, approximately.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 400 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 2,040 cfs 1230 hours June 21 (gage height, 14.90 ft).
1951 to May 1972: Discharge, 7,740 cfs Oct. 10, 1959 (gage height, 14.0 ft), from rating curve extended on basis of slope-conveyance study.

(684) 02076200 BEARSKIN CREEK NEAR CHATHAM, VA.

(Flood-hydrograph station)

LOCATION.--Lat 36°50'30", long 79°29'05", Pittsylvania County, at culvert on State Highway 57, 4.5 miles west of Chatham.

DRAINAGE AREA.--4.06 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 710 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,920 cfs 1030 hours June 21 (gage height, 13.12 ft).
1967 to May 1972: Discharge, 1,530 cfs Aug. 24, 1967 (gage height, 11.5 ft).

(685) 02076500 GEORGES CREEK NEAR GRETNA, VA.

LOCATION.--Lat 36°56'11", long 79°18'42", Pittsylvania County, on left bank 15 ft downstream from bridge on State Highway 40, 2.8 miles southeast of Gretna, and 5.8 miles upstream from Whitethorn Creek.

DRAINAGE AREA.--9.24 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 629.54 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 220 cfs and by contracted-opening measurement at 1,140 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,160 cfs 1500 hours June 21 (gage height, 7.75 ft).
1950 to May 1972: Discharge, 1,440 cfs Aug. 24, 1967 (gage height, 7.66 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	16	12	11...	9.6	10	21...	378	8.3
2....	13	11	12...	9.3	25	22...	36	8.3
3....	12	11	13...	9.6	30	23...	15	8.1
4....	11	11	14...	9.9	12	24...	13	8.3
5....	11	82	15...	9.9	12	25...	12	9.0
6....	11	16	16...	9.3	12	26...	12	9.3
7....	10	12	17...	9.6	11	27...	12	8.8
8....	9.9	11	18...	10	11	28...	14	8.8
9....	10	11	19...	9.9	9.3	29...	14	10
10...	9.9	9.9	20...	14	8.8	30...	13	12
						31...		11
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							24	14
RUNOFF,IN INCHES.....							2.95	1.73

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.48	17	6-21	1200	5.90	685	6-21	2100	3.30	200
				6-21	1300	6.26	785	6-21	2200	2.92	143
				6-21	1400	7.15	1,010	6-21	2400	2.47	91
6-21	0600	1.70	28	6-21	1500	7.75	1,160				
6-21	0700	1.82	36	6-21	1600	7.44	1,060				
6-21	0800	2.18	67	6-21	1700	6.89	935	6-22	0600	1.98	47
6-21	0900	3.00	156	6-21	1800	6.35	810	6-22	1200	1.77	29
6-21	1000	3.90	290	6-21	1900	5.70	640	6-22	1800	1.62	21
6-21	1100	5.00	500	6-21	2000	4.13	330	6-22	2400	1.55	18

(689) 02077200 HYCO CREEK NEAR LEASBURG, N. C.

LOCATION.--Lat 36°24'07", long 79°12'13", Caswell County, on right bank 10 ft upstream from bridge on U. S. Highway 158, 1.5 miles upstream from Kilgore Creek, and 2.5 miles west of Leasburg.

DRAINAGE AREA.--44.0 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is 400.08 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 2,540 cfs 2400 hours June 21 (gage height, 35.98 ft).
1965 to May 1972: Discharge, 2,480 cfs Mar. 13, 1968 (gage height, 35.92 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	15	15	11...	4.5	6.3	21...	588	6.3
2....	12	13	12...	4.1	7.8	22...	958	5.0
3....	10	11	13...	3.7	19	23...	96	4.1
4....	9.2	10	14...	3.6	10	24...	49	3.7
5....	7.3	11	15...	3.4	7.8	25...	36	3.2
6....	6.8	13	16...	3.0	5.8	26...	26	2.3
7....	6.5	11	17...	3.0	2.5	27...	21	1.9
8....	7.0	9.6	18...	3.9	1.0	28...	18	2.8
9....	5.0	8.3	19...	9.9	9.0	29...	24	5.6
10...	5.0	7.3	20...	6.5	8.0	30...	19	14
						31...		17
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							65	8.1
RUNOFF,IN INCHES.....							1.66	0.21

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	1800	25.10	6.0								
6-20	2100	25.15	7.3								
6-20	2400	25.39	15	6-22	0400	35.05	1,880	6-24	1200	26.24	54
				6-22	0600	34.35	1,450	6-24	2400	26.07	46
				6-22	0900	33.40	980				
6-21	0200	25.64	25	6-22	1400	32.20	600				
6-21	0400	25.87	36	6-22	1700	30.95	417	6-25	1200	25.96	35
6-21	0600	28.20	185	6-22	2000	29.10	248	6-25	2400	25.88	31
6-21	1000	30.75	393	6-22	2400	28.00	171				
6-21	1400	32.10	580								
6-21	1800	32.43	652					6-26	2400	25.72	24
6-21	2000	33.30	940	6-23	0800	27.22	116				
6-21	2200	35.40	2,200	6-23	1600	26.82	88				
6-21	2400	35.98	2,540	6-23	2400	26.50	69	6-27	2400	25.61	19

(690) 02077210 KILGORE CREEK TRIBUTARY NEAR LEASBURG, N. C.

(Crest-stage station)

LOCATION.--Lat 36°22'38", long 79°09'57", Caswell County, at culvert on Secondary Road 1702, 1.2 miles south of Leasburg, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--0.22 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 250 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: No data available.
1954 to May 1972: Discharge, 252 cfs Aug. 22, 1961 (gage height, 24.21 ft).

(691) 02077240 DOUBLE CREEK NEAR ROSEVILLE, N. C.

LOCATION.--Lat 36°21'44", long 79°05'48", Person County, on left bank 75 ft downstream from bridge on Secondary Road 1166, 1.0 mile upstream from Mill Creek, and 3.0 miles northwest of Roseville.

DRAINAGE AREA.--7.47 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is 450.39 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 620 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 178 cfs 1530 hours June 21 (gage height, 2.97 ft).
1965 to May 1972: Discharge, 892 cfs May 27, 1968 (gage height, 4.74 ft).

(686) 02076600 WHITETHORN CREEK TRIBUTARY NEAR GRETNA, VA.

(Flood-hydrograph station)

LOCATION.--Lat 36°56'00", long 79°22'10", Pittsylvania County, at culvert on U.S. Highway 29, 0.9 mile southwest of Gretna.

DRAINAGE AREA.--1.93 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 730 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 510 cfs 1315 hours June 21 (gage height, 7.00 ft).
1966 to May 1972: Discharge, 340 cfs Aug. 24, 1967 (gage height, 5.70 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.9	2.3	11...	1.8	1.5	21...	47	1.6
2....	2.5	2.1	12...	1.6	33	22...	13	1.6
3....	2.3	1.8	13...	1.6	10	23...	5.9	1.5
4....	2.3	1.6	14...	1.6	3.7	24...	4.2	1.5
5....	2.3	2.3	15...	1.8	2.7	25...	3.4	1.3
6....	2.1	2.1	16...	1.6	2.5	26...	2.8	1.3
7....	2.1	1.8	17...	1.6	3.0	27...	2.5	1.3
8....	1.8	1.5	18...	2.1	2.1	28...	2.5	1.3
9....	1.8	1.5	19...	1.6	2.1	29...	2.8	1.6
10...	2.1	1.5	20...	2.5	2.1	30...	2.5	1.8
						31...		2.1
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4.2	3.2
RUNOFF,IN INCHES.....							0.63	0.49

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0600	1.42	1.8	6-21	0700	1.95	28	6-21	2400	1.94	27
6-20	1200	1.46	2.8	6-21	0900	2.05	36				
6-20	1800	1.49	3.6	6-21	1100	2.25	56				
6-20	2400	1.50	3.9	6-21	1300	2.30	62	6-22	0600	1.80	17
				6-21	1500	2.94	170	6-22	1200	1.71	12
				6-21	1530	2.97	178	6-22	2400	1.62	8.2
6-21	0100	1.51	4.2	6-21	1600	2.93	168				
6-21	0200	1.57	6.2	6-21	1800	2.48	85				
6-21	0300	1.58	6.5	6-21	2000	2.20	51	6-23	2400	1.54	5.2
6-21	0500	1.72	13								

(687) 02076700 BLACKS CREEK NEAR MT. AIRY, VA.

(Flood-hydrograph station)

LOCATION.--Lat 36°56'40", long 79°09'56", Pittsylvania County, at culvert on State Highway 40, 1.5 miles east of Mt. Airy.

DRAINAGE AREA.--3.44 sq mi.

GAGE-HEIGHT RECORD.--Flood-hydrograph recorder graph. Altitude of gage is 415 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computations of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 1,080 cfs June 21 (gage height, 13.66 ft, from floodmarks).
1966 to May 1972: Discharge, 870 cfs May 13, 1971 (gage height, 10.45 ft).

(688) 02077000 BANISTER RIVER AT HALIFAX, VA.

LOCATION.--Lat 36°46'35", long 78°54'58", Halifax County, on left bank 10 ft downstream from bridge on U.S. Highway 360, 1,700 ft downstream from Terrible Creek, 1 mile northeast of Halifax, and 10 miles upstream from mouth.

DRAINAGE AREA.--547 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 318.54 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs and extended above on basis of slope-area measurement of peak flow and velocity-area study.

MAXIMUMS.--June-July 1972: Discharge, 16,000 cfs 1700 hours June 22 (gage height, 28.90 ft).
1905, 1929 to May 1972: Discharge, 50,000 cfs Sept. 20, 1944 (gage height, 40.8 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	621	623	11...	245	413	21...	4,290	308
2....	502	510	12...	235	407	22...	14,900	290
3....	374	422	13...	230	823	23...	11,700	279
4....	331	382	14...	227	1,570	24...	5,790	265
5....	311	1,000	15...	228	795	25...	1,310	252
6....	295	2,530	16...	224	439	26...	834	240
7....	282	1,860	17...	218	391	27...	676	241
8....	273	863	18...	427	367	28...	477	304
9....	262	495	19...	416	340	29...	576	322
10...	253	423	20...	441	327	30...	678	334
						31...		605
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,590	594
RUNOFF,IN INCHES.....							3.24	1.25

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.52	371	6-22	2330	28.26	15,200	6-25	0030	8.79	2,070
6-20	1200	2.71	413	6-22	2400	28.15	15,100	6-25	1000	5.74	1,160
6-20	2400	3.11	508					6-25	2400	4.77	910
				6-23	0030	28.03	14,900				
6-21	0830	3.70	678	6-23	2400	21.53	8,620	6-26	0030	4.75	905
6-21	0930	4.61	903					6-26	2400	3.97	712
6-21	1100	7.88	1,840								
6-21	1430	16.77	5,390	6-24	0030	21.41	8,530				
6-21	2400	25.99	12,700	6-24	2000	11.90	3,210	6-27	0030	3.96	709
				6-24	2400	9.06	2,190	6-27	2400	3.39	572
6-22	1700	28.90	16,000								

(692) 02077250 SOUTH HYCO CREEK NEAR ROSEVILLE, N. C.

LOCATION.--Lat 36°23'12", long 79°06'22", Person County, on right bank at downstream side of bridge on U. S. Highway 158, 1.2 miles downstream from Double Creek, and 4.2 miles northwest of Roseville.

DRAINAGE AREA.--55 sq mi, approximately.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is 400.05 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,770 cfs 2230 hours June 21 (gage height, 21.74 ft).
1967 to May 1972: Discharge, 2,400 cfs May 27, 1968 (gage height, 21.05 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	15	15	11...	6.9	6.6	21...	952	9.8
2....	13	13	12...	6.0	188	22...	956	8.6
3....	11	11	13...	5.7	205	23...	93	7.6
4....	9.8	9.2	14...	5.7	31	24...	46	6.6
5....	8.6	12	15...	5.2	15	25...	34	6.0
6....	8.3	14	16...	5.0	11	26...	26	5.4
7....	8.3	12	17...	4.7	38	27...	20	4.7
8....	6.9	9.8	18...	9.4	18	28...	19	6.3
9....	6.9	8.3	19...	8.6	12	29...	23	8.0
10...	7.2	7.6	20...	9.8	13	30...	18	12
						31...		14
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							78	24
RUNOFF,IN INCHES.....							1.59	0.50

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0800	13.28	7.2								
6-20	1600	13.37	11								
6-20	2400	13.52	19	6-22	0400	20.11	1,960	6-24	1200	13.80	46
				6-22	0800	18.51	1,250	6-24	2400	13.73	38
				6-22	1200	17.26	714				
6-21	0400	13.90	58	6-22	1400	16.74	505				
6-21	0800	14.40	134	6-22	1800	15.79	312	6-25	2400	13.65	30
6-21	1200	15.75	306	6-22	2400	14.74	177				
6-21	1300	16.30	420								
6-21	1700	19.50	1,660					6-26	2400	13.57	23
6-21	1900	20.85	2,320	6-23	0800	14.20	103				
6-21	2100	21.60	2,700	6-23	1600	14.00	72				
6-21	2230	21.74	2,770	6-23	2400	13.90	58	6-27	2400	13.50	18
6-21	2400	21.56	2,680								

(693) 02077300 HYCO RIVER AT MCGEHEES MILL, N. C.

LOCATION.--Lat 36°31'02", long 79°01'42", Person County, on left bank 200 ft downstream from bridge on Secondary Road 1322, at McGehees Mill, and 1.7 miles downstream from Hyco Lake.

DRAINAGE AREA.--191 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is 349.78 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 3,420 cfs 1300 hours June 22 (gage height, 15.15 ft).
1965 to May 1972: Discharge, 3,870 cfs Mar. 1, 1966; maximum gage height, 15.58 ft Mar. 13, 1968.
Flood in 1945 reached a stage of 24.8 ft, from information by local resident (discharge not determined).

REMARKS.--Flow regulated since September 1964 by Hyco Lake.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	63	84	11...	43	51	21...	673	53
2....	47	72	12...	42	62	22...	3,020	49
3....	36	63	13...	40	274	23...	1,570	45
4....	30	49	14...	36	222	24...	541	42
5....	21	50	15...	33	151	25...	303	42
6....	23	47	16...	32	100	26...	208	41
7....	38	47	17...	34	97	27...	159	41
8....	39	54	18...	34	95	28...	129	23
9....	44	53	19...	33	77	29...	125	12
10...	43	51	20...	34	68	30...	106	12
						31...		16
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							253	69
RUNOFF, IN INCHES							1.48	0.42

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	1200	2.83	35	6-22	0600	14.59	3,020	6-24	1600	6.00	468
6-20	2400	2.83	35	6-22	1000	15.04	3,340	6-24	2400	5.41	380
				6-22	1300	15.15	3,420				
				6-22	1900	14.71	3,110				
6-21	0400	2.91	44	6-22	2400	13.97	2,630				
6-21	0600	3.04	60					6-25	1200	4.88	300
6-21	0700	3.54	125					6-25	2400	4.44	242
6-21	0900	6.69	572	6-23	0600	12.88	2,070				
6-21	1300	10.31	1,170	6-23	1200	11.56	1,540				
6-21	1600	11.60	1,560	6-23	1800	9.80	1,060	6-26	1200	4.17	207
6-21	2000	12.75	2,010	6-23	2400	8.22	801	6-26	2400	3.96	180
6-21	2400	13.50	2,370								
								6-27	1200	3.79	158
				6-24	0800	6.76	582	6-27	2400	3.63	137

(694) 02077310 STORYS CREEK NEAR ROXBORO, N. C.

(Crest-stage station)

LOCATION.--Lat 36°23'48", long 79°01'14", Person County, at culvert on State Highway 57, 1.5 miles upstream from Lake Isaac Walton, and 2.2 miles west of Roxboro.

DRAINAGE AREA.--2.0 sq mi, approximately.

GAGE-HEIGHT RECORD.--Crest stages only.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 300 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 320 cfs June 21 (gage height, 20.7 ft).
1954 to May 1972: Discharge, 350 cfs Sept. 30, 1955 (gage height, 20.95 ft).

(696) 02079490 JOHN H. KERR RESERVOIR NEAR BOYDTON, VA.

LOCATION.--Lat 36°35'56", long 78°18'06", Mecklenburg County, at John H. Kerr Dam on Roanoke River, 2.7 miles upstream from Allen Creek, 6.7 miles southeast of Boydton, 18 miles upstream from the Virginia-North Carolina State line, and at mile 178.7.

DRAINAGE AREA.--7,780 sq mi, approximately.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed from capacity table dated May 19, 1965 furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Contents, 2,332,300 acre-ft June 27 (elevation, 314.58 ft).
1950 to May 1972: Contents, 1,965,700 acre-ft May 10, 1958 (elevation, 309.02 ft).

REMARKS.--Reservoir is formed by concrete dam with earth embankments. Spillway, with crest at elevation 288.0 ft, is equipped with 22 radial gates 32 ft high by 42 ft wide. Storage began in September 1950 during construction; initial filling started June 30, 1952; water in reservoir first reached rule-curve elevation in March 1953. Total capacity at elevation 320 ft (top of gates) is 2,750,300 acre-ft, of which 1,278,000 acre-ft is controlled flood storage between elevations 300 (top of power pool) and 320 ft, 745,700 acre-ft between elevations 280.3 (bottom of power pool) and 300 ft is available for power, and 726,600 acre-ft below elevation 280.3 ft is dead storage. Figures given herein represent total contents. Reservoir is used for flood control, hydroelectric power, low-water regulation for navigation and pollution abatement, water releases for downstream fish spawning, and recreation. Records furnished by Corps of Engineers.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	JUNE		JULY		Day	JUNE		JULY	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	303.51	1,651,800	313.43	2,251,600	16	301.10	1,526,900	310.14	2,035,100
2	303.04	1,626,700	313.02	2,223,200	17	301.24	1,534,000	309.66	2,005,200
3	302.61	1,604,300	312.55	2,191,600	18	301.41	1,542,600	309.15	1,973,800
4	302.68	1,607,900	312.01	2,155,400	19	301.39	1,541,600	308.64	1,942,800
5	302.11	1,578,200	311.91	2,148,800	20	301.54	1,549,200	308.17	1,914,500
6	302.02	1,573,500	312.29	2,174,200	21	303.37	1,644,400	307.69	1,886,100
7	301.69	1,556,800	312.74	2,204,400	22	305.25	1,746,500	307.26	1,860,900
8	301.40	1,542,100	312.81	2,209,100	23	308.77	1,950,700	306.81	1,834,800
9	301.19	1,531,400	312.40	2,181,500	24	312.12	2,162,800	306.20	1,799,900
10	301.35	1,539,500	311.98	2,153,400	25	314.04	2,293,800	305.62	1,767,200
11	301.51	1,547,700	311.53	2,124,100	26	314.46	2,323,800	305.07	1,736,400
12	301.56	1,550,200	311.39	2,114,900	27	314.34	2,315,200	304.52	1,706,300
13	301.60	1,552,200	311.19	2,101,900	28	314.28	2,310,900	304.09	1,682,900
14	301.63	1,553,700	310.89	2,082,500	29	314.04	2,293,800	303.79	1,666,800
15	301.40	1,542,100	310.58	2,062,900	30	313.73	2,272,300	303.58	1,655,600
					31	-	-	303.14	1,632,100
Change in contents				+610,300					-640,200

(697) 02079640 ALLEN CREEK NEAR BOYDTON, VA.

LOCATION.--Lat 36°40'46", long 78°19'37", Mecklenburg County, on left bank at upstream side of bridge on U.S. Highway 58, 0.8 mile upstream from Coleman Creek, 2.3 miles downstream from Layton Creek, 3.7 miles east of Boydton, and 11.8 miles southwest of South Hill.

DRAINAGE AREA.--53.4 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 257.34 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,160 cfs 0030 hours June 22 (gage height, 16.80 ft).
1962 to May 1972: Discharge, 5,620 cfs Oct. 23, 1971 (gage height, 21.80 ft).

REMARKS.--Records computed and furnished by the State of Virginia.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	15	39	11...	7.5	11	21...	804	6.7
2....	13	26	12...	6.4	12	22...	806	6.2
3....	12	20	13...	5.8	44	23...	65	5.8
4....	10	18	14...	5.8	15	24...	42	5.2
5....	9.9	39	15...	5.6	11	25...	29	4.8
6....	9.3	26	16...	4.9	10	26...	23	4.4
7....	9.1	18	17...	4.2	18	27...	19	4.1
8....	8.1	15	18...	177	13	28...	364	4.3
9....	7.2	14	19...	20	8.9	29...	601	9.3
10...	7.0	12	20...	17	7.5	30...	62	8.3
						31...		13
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							106	15
RUNOFF, IN INCHES							2.21	0.31

(695) 02077500 HYCO RIVER NEAR DENNISTON, VA.

LOCATION.--Lat 36°35'16", long 78°53'56", Halifax County, on left bank 10 ft upstream from bridge on U.S. Highway 501, 0.8 mile upstream from Mayo Creek, 2.5 miles northeast of Denniston, and 7.3 miles south of South Boston.

DRAINAGE AREA.--289 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 315.24 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,900 cfs and extended above.

MAXIMUMS.--June-July 1972: Discharge, 3,820 cfs 1030 hours June 22 (gage height, 16.82 ft). 1929-34, 1951 to May 1972: Discharge, 7,630 cfs Oct. 3, 1929 (gage height, 21.88 ft, from graph based on gage readings).
Floods in August 1928 and September 1945 reached stages of 26.4 and 25.6 ft, respectively, from floodmarks.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	89	112	11...	59	60	21...	1,210	63
2....	76	88	12...	55	64	22...	3,630	57
3....	65	78	13...	53	322	23...	3,420	54
4....	54	67	14...	53	314	24...	2,060	56
5....	48	64	15...	46	196	25...	490	55
6....	39	64	16...	45	132	26...	269	54
7....	50	63	17...	45	112	27...	193	53
8....	54	62	18...	64	96	28...	164	53
9....	59	61	19...	53	83	29...	257	45
10...	59	60	20...	59	72	30...	150	43
						31...		53
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							432	89
RUNOFF,IN INCHES							1.67	0.35

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	5.19	57	6-22	1030	16.82	3,820	6-25	0030	11.39	974
6-20	1900	5.49	78	6-22	1530	16.73	3,730	6-25	0600	9.10	567
6-20	2400	5.61	87	6-22	2400	16.57	3,570	6-25	2300	7.86	358
								6-25	2400	7.81	350
6-21	0630	6.01	123	6-23	0730	16.57	3,570				
6-21	0730	6.62	185	6-23	2400	15.97	2,960	6-26	0030	7.80	348
6-21	0800	7.32	275					6-26	2400	7.07	240
6-21	1030	12.08	1,110								
6-21	1900	15.17	2,140	6-24	0030	15.94	2,930				
6-21	2400	16.05	3,050	6-24	2400	11.67	1,030	6-27	0030	7.06	238
								6-27	2400	6.61	184

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	2.89	36	6-21	1800	14.95	1,450	6-22	1300	7.00	320
				6-21	2000	15.73	1,720	6-22	1400	6.42	268
				6-21	2200	16.46	2,030	6-22	1500	5.85	220
6-21	0300	2.92	37	6-21	2400	16.78	2,160	6-22	1600	5.38	188
6-21	0600	2.89	36					6-22	1700	4.95	156
6-21	0700	3.06	43					6-22	1800	4.69	139
6-21	0800	3.38	59	6-22	0030	16.80	2,160	6-22	2000	4.34	116
6-21	0900	3.75	80	6-22	0300	16.55	2,070	6-22	2200	4.12	101
6-21	1000	5.15	170	6-22	0500	16.03	1,830	6-22	2400	3.93	92
6-21	1100	8.80	482	6-22	0600	15.57	1,680				
6-21	1200	11.40	738	6-22	0700	14.75	1,380				
6-21	1300	12.58	878	6-22	0800	13.45	1,020	6-23	0600	3.63	74
6-21	1400	13.40	1,020	6-22	0900	11.65	758	6-23	1200	3.50	65
6-21	1500	13.95	1,150	6-22	1000	10.00	598	6-23	1800	3.41	60
6-21	1600	14.35	1,250	6-22	1100	8.70	473	6-23	2400	3.28	54
6-21	1700	14.65	1,310	6-22	1200	7.75	392				

(698) 02080500 ROANOKE RIVER AT ROANOKE RAPIDS, N. C.

LOCATION.--Lat 36°28'04", long 77°37'18", Halifax County, on right bank 1.2 miles downstream from bridge on State Highway 48 at Roanoke Rapids, 2.5 miles upstream from Chockoyotte Creek, 2.8 miles downstream from Roanoke Rapids dam, and 133.6 miles upstream from mouth in Albemarle Sound.

DRAINAGE AREA.--8,410 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 43.84 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 200,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 24,600 cfs 1830 hours June 28 (gage height, 9.55 ft). 1771 to May 1972: Discharge, 261,000 cfs Aug. 18, 1940 (gage height, 39.0 ft, from floodmarks).

REMARKS.--Flow regulated since August 1950 by Philpott Reservoir on Smith River; since September 1950 by John H. Kerr Reservoir; since June 1955 by Roanoke Rapids Lake; since September 1962 by Leesville Lake; since October 1962 by Lake Gaston; and since September 1965 by Smith Mountain Lake.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	17,900	23,500	11...	6,030	23,300	21...	4,900	18,700
2....	14,400	23,300	12...	3,430	19,800	22...	14,600	18,700
3....	18,300	23,300	13...	1,840	20,300	23...	19,700	18,700
4....	6,180	23,400	14...	1,890	23,400	24...	19,800	18,100
5....	11,100	23,500	15...	9,080	20,100	25...	19,800	17,700
6....	6,470	23,400	16...	10,700	19,700	26...	21,700	17,800
7....	6,100	23,500	17...	2,240	19,700	27...	23,300	17,900
8....	6,130	23,300	18...	2,050	19,700	28...	23,100	17,300
9....	6,120	23,400	19...	9,020	19,700	29...	21,900	17,400
10...	6,050	23,400	20...	4,060	19,400	30...	23,700	18,100
						31...		18,000
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							11,400	20,600
RUNOFF,IN INCHES							1.51	2.82

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	4.01	3,920	6-21	2130	7.69	15,400	6-24	2230	8.62	19,900
6-20	0200	3.22	2,510	6-21	2230	7.10	13,000	6-24	2400	8.61	19,900
6-20	0700	2.88	2,010	6-21	2330	5.01	6,200				
6-20	0800	2.88	2,010	6-21	2400	4.31	4,530				
6-20	0900	3.47	2,920					6-25	2330	8.62	19,900
6-20	0930	5.02	6,220					6-25	2400	8.61	19,900
6-20	1130	6.05	9,180	6-22	0130	3.36	2,740				
6-20	1300	4.90	5,910	6-22	0500	2.96	2,120				
6-20	1630	4.34	4,600	6-22	0600	3.11	2,350	6-26	1100	9.02	21,900
6-20	1800	4.98	6,120	6-22	0630	4.84	5,760	6-26	2200	9.36	23,600
6-20	2000	3.55	3,060	6-22	0700	7.22	13,500	6-26	2400	9.31	23,400
6-20	2200	3.11	2,350	6-22	0900	8.45	19,100				
6-20	2400	3.06	2,270	6-22	2300	8.57	19,700				
				6-22	2400	8.56	19,600	6-27	2330	9.37	23,700
								6-27	2400	9.36	23,600
6-21	1630	3.13	2,380								
6-21	1700	4.16	4,220	6-23	2300	8.61	19,900				
6-21	1800	7.33	13,900	6-23	2400	8.60	19,800	6-28	1830	9.55	24,600
6-21	1900	7.14	13,200					6-28	2000	9.04	22,000
6-21	2000	5.44	7,360					6-28	2400	8.70	20,300

ALLEGHENY RIVER BASIN

(699) MILL CREEK AT COUDERSPORT, PA.

(Miscellaneous site)

LOCATION.--Lat 41°46'17", long 78°00'46", Potter County, 860 feet upstream from bridge on Mill Street at Coudersport.

DRAINAGE AREA.--31.3 sq mi.

DISCHARGE RECORD.--Peak discharge by computation of flow over dam.

MAXIMUM.--June-July 1972: Discharge, 3,490 cfs June 22.

(700) ALLEGHENY RIVER AT COUDERSPORT, PA.

(Miscellaneous site)

LOCATION.--Lat 41°46'47", long 78°01'12", Potter County, 380 feet upstream from bridge on U.S. Highway 6 and 2,080 feet upstream from bridge on State Highway 44 at Coudersport.

DRAINAGE AREA.--44.6 sq mi.

DISCHARGE RECORD.--Peak discharge by computation of flow over dam.

MAXIMUM.--June-July 1972: Discharge, 5,790 cfs June 22.

(701) 03008000 NEWELL CREEK NEAR PORT ALLEGANY, PA.

LOCATION.--Lat 41°53'43", long 78°20'56", McKean County, on right bank at downstream side of concrete bridge, 0.5 mile upstream from bridge on Stage Highway 155, and 6.5 miles northwest of Port Allegany.

DRAINAGE AREA.--7.79 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,450 ft (from topographic map). Prior to Oct. 1, 1968, at site 60 ft upstream at datum 1.00 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 585 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 3,000 cfs 0645 hours June 21 (gage height, 6.40 ft).
1960 to May 1972: Discharge, 740 cfs June 15, 1960 (gage height, 6.93 ft, present datum).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3.8	18	11...	4.0	8.8	21...	876	7.2
2....	3.5	14	12...	3.2	7.2	22...	549	5.2
3....	4.0	15	13...	2.9	6.1	23...	365	5.2
4....	41	12	14...	2.5	5.2	24...	122	5.2
5....	27	11	15...	15	4.6	25...	80	4.6
6....	15	12	16...	44	11	26...	57	3.4
7....	10	11	17...	21	7.2	27...	38	3.1
8....	7.2	9.2	18...	14	5.5	28...	25	2.5
9....	5.9	8.0	19...	10	8.8	29...	26	2.1
10...	5.4	12	20...	7.8	13	30...	24	1.7
						31...		1.5
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							80	7.8
RUNOFF, IN INCHES							11.50	1.15

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.67	16	6-21	1815	4.89	522	6-23	2200	3.99	186
6-21	0045	2.04	31	6-21	2030	4.98	584	6-23	2400	3.92	170
6-21	0100	2.35	47	6-21	2400	4.73	433				
6-21	0115	2.71	60								
6-21	0200	3.44	83					6-24	0015	3.90	166
6-21	0230	3.89	164	6-22	0600	4.72	428	6-24	1300	3.61	110
6-21	0315	4.74	438	6-22	0930	4.82	480	6-24	1845	3.58	105
6-21	0330	5.07	655	6-22	1230	4.82	480	6-24	2215	3.60	108
6-21	0445	6.09	2,080	6-22	1500	4.90	528	6-24	2400	3.70	126
6-21	0600	6.12	2,160	6-22	1930	5.29	851				
6-21	0645	6.40	3,000	6-22	1945	5.28	842				
6-21	0715	6.14	2,220	6-22	2030	5.18	752	6-25	0015	3.70	126
6-21	0745	5.78	1,470	6-22	2145	5.21	779	6-25	0745	3.44	83
6-21	0830	5.58	1,170	6-22	2400	5.08	664	6-25	2400	3.35	71
6-21	0845	5.35	910								
6-21	0945	5.19	761								
6-21	1000	5.43	993	6-23	0315	5.18	752	6-26	0115	3.35	71
6-21	1215	5.25	815	6-23	0400	5.14	716	6-26	2400	3.14	45
6-21	1515	5.06	647	6-23	1230	4.53	345				

(705) 03010678 LITTLE GENESEE CREEK AT LITTLE GENESEE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°01'22", long 78°13'18", Allegany County, at bridge on Foster Road, 0.2 mile downstream from Foster Brook, and 0.8 mile southwest of Little Genesee.

DRAINAGE AREA.--37.0 sq mi.

MAXIMUM.--June-July 1972: Discharge, 8,330 cfs June 23, from contracted-opening measurement and computation of flow over road.

(706) 03010718 DODGE CREEK AT PORTVILLE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°02'35", long 78°19'46", Cattaraugus County, at Portville, 150 ft west of State Highway 305, and 0.75 mile upstream from mouth.

DRAINAGE AREA.--45.7 sq mi.

MAXIMUM.--June-July 1972: Discharge, 4,200 cfs June 23, from slope-area measurement.

(707) 03010783 JOHNSON'S CREEK AT CUBA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°12'16", long 78°16'30", Allegany County, at bridge on State Highway 305, 0.1 mile upstream from mouth, and 0.9 mile south of Cuba.

DRAINAGE AREA.--2.10 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 609 cfs June 23, from contracted-opening measurement. Flood of Sept. 28, 1967 reached a peak of 632 cfs.

(708) 03010800 OLEAN CREEK NEAR OLEAN, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 42°07'16", long 78°25'15", Cattaraugus County, on right bank at upstream side of highway bridge, 1,000 ft west of State Highway 16, 1.4 miles northeast of Olean, and 4.6 miles upstream from mouth.

DRAINAGE AREA.--198 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,418.7 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 6,000 cfs June 23 (gage height, 11.52 ft).
1959-68, 1970 to May 1972: Discharge, 18,200 cfs Sept. 29, 1967 (gage height, 16.06 ft).

(709) 03011020 ALLEGHENY RIVER AT SALAMANCA, N.Y.

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, on left bank 230 ft upstream from bridge on Main Street in Salamanca, 1.3 miles downstream from Great Valley Creek, and 1.6 miles upstream from Little Valley Creek.

DRAINAGE AREA.--1,608 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 1000 hours June 23 to 1200 hours June 24 when record was reconstructed on basis of floodmarks and observed time of peak. Datum of gage is 1,358.00 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 73,000 cfs 1300 hours June 23 (gage height, 24.01 ft, from floodmarks).
1904 to May 1972: Discharge, 49,100 cfs Mar. 8, 1956 (gage height, 15.11 ft, site and datum then in use).
Floods in March 1865 and in May 1894 estimated to be of about the same magnitude as flood of Mar. 8, 1956.

(702) MARVIN CREEK AT SMETHPORT, PA.

(Miscellaneous site)

LOCATION.--Lat 41°48'25", long 78°26'30", McKean County, 0.5 mile downstream from U.S. Highway 6 at Smethport and 0.6 mile upstream from mouth.

DRAINAGE AREA.--55.2 sq mi.

DISCHARGE RECORD.--Peak discharge by field estimate of flow over dam.

MAXIMUM.--June-July 1972: Discharge, 4,200 cfs June 22.

(703) POTATO CREEK AT SMETHPORT, PA.

(Miscellaneous site)

LOCATION.--Lat 41°48'35", long 78°25'46", McKean County, at bridge on U. S. Highway 6, 0.1 mile downstream from Marvin Creek, at Smethport.

DRAINAGE AREA.--160 sq mi.

DISCHARGE RECORD.--Peak discharge by contracted-opening measurement.

MAXIMUM.--June-July 1972: Discharge, 12,800 cfs June 22.

(704) 03010500 ALLEGHENY RIVER AT ELDRED, PA.

LOCATION.--Lat 41°57'48", long 78°23'11", McKean County, 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, half a mile north of Eldred and at mile 267.8.

DRAINAGE AREA.--550 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals except 2200 hours June 22 to 1700 hours June 26 for which a graph was constructed from five wire-weight gage readings made on June 22-23, high-water mark, and adjoining record. Datum of gage is 1,416.53 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 24,000 cfs and by slope-area measurement at 55,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 65,400 cfs about 2100 hours June 23 (gage height, 29.05 ft, from high-water mark in gage house).
1940 to May 1972: Discharge, 55,000 cfs July 19, 1942 (gage height, 27.6 ft, from floodmark)

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	569	2,340	11...	348	1,030	21...	4,820	702
2....	469	1,740	12...	297	772	22...	22,100	576
3....	521	1,680	13...	283	654	23...	55,700	489
4....	529	1,630	14...	287	532	24...	49,000	475
5....	688	1,270	15...	298	639	25...	22,400	460
6....	494	1,340	16...	889	1,030	26...	11,900	472
7....	426	1,170	17...	768	938	27...	7,800	373
8....	369	984	18...	496	653	28...	5,240	340
9....	329	880	19...	424	570	29...	3,460	305
10...	380	1,180	20...	385	936	30...	3,040	268
						31...		248
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							6,490	863
RUNOFF, IN INCHES							13.17	1.81

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	3.52	385					6-25	0200	23.5	27,000
6-21	0200	3.67	423	6-23	0300	25.8	39,800	6-25	1200	21.9	20,700
6-21	0300	4.13	549	6-23	1200	28.3	59,400	6-25	2400	20.1	15,300
6-21	0400	5.04	856	6-23	2100	29.05	65,400				
6-21	0600	7.67	1,980	6-23	2400	29.0	65,000				
6-21	0900	12.50	4,630					6-26	0400	19.6	14,100
6-21	1900	14.60	6,660					6-26	2400	16.95	9,340
6-21	2400	18.13	11,300	6-24	0600	28.4	60,200				
				6-24	1400	26.1	41,800				
				6-24	2400	23.8	28,200	6-27	0200	16.70	9,040
6-22	0100	18.80	12,600					6-27	2400	14.35	6,380
6-22	2400	24.83	34,000								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,030	7,130	11...	975	4,230	21...	6,780	2,400
2....	1,560	5,330	12...	840	3,320	22...	33,200	1,930
3....	1,450	4,760	13...	770	2,810	23...	67,900	1,060
4....	1,460	5,880	14...	740	2,530	24...	64,900	1,500
5....	1,840	4,380	15...	750	2,290	25...	50,400	1,480
6....	1,600	4,360	16...	3,470	3,060	26...	35,700	1,610
7....	1,280	4,290	17...	3,020	4,290	27...	23,800	1,300
8....	1,120	3,700	18...	2,010	2,890	28...	14,700	1,130
9....	975	3,240	19...	1,550	2,310	29...	9,580	1,020
10...	986	4,210	20...	1,320	2,240	30...	8,880	916
						31...		825
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							11,500	3,000
RUNOFF, IN INCHES							7.99	2.15

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.90	1,260	6-23	1000	23.00	68,000	6-26	2400	13.76	29,100
6-21	0800	3.06	1,460	6-23	1300	24.01	73,000				
6-21	1100	4.01	2,870								
6-21	1300	5.19	5,050					6-27	0100	13.66	28,700
6-21	2300	9.82	17,700	6-24	0400	23.20	70,000	6-27	2400	10.94	18,800
6-21	2400	10.07	18,500	6-24	1200	22.26	65,200				
				6-24	2400	20.68	58,100				
								6-28	0100	10.78	18,300
6-22	1800	16.22	41,200					6-28	2400	8.54	11,300
6-22	1900	16.66	42,900	6-25	0100	20.55	57,500				
6-22	2400	19.10	52,700	6-25	2400	17.16	42,700				
								6-29	0100	8.49	11,200
								6-29	2000	7.69	9,030
6-23	0600	22.05	64,500	6-26	0100	17.03	42,100	6-29	2400	7.82	9,350

(710) 03011800 KINZUA CREEK NEAR GUFFEY, PA.

(Formerly published as Kinzua Creek at Tallyho)

LOCATION.--Lat 41°45'59", long 78°43'08", McKean County, in Allegheny National Forest, on right bank 130 ft upstream from bridge on U. S. Highway 219, 0.2 mile upstream from Wintergreen Run, 1.0 mile downstream from Pine Run, and 1.5 miles west of Guffey.

DRAINAGE AREA.--46.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 1,540 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,300 cfs and by slope-area measurement at 4,090 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,220 cfs 2330 hours June 22 (gage height, 8.99 ft).
1966 to May 1972: Discharge, 4,090 cfs Sept. 28, 1967 (gage height, 8.33 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	38	159	11...	19	104	21...	1,040	47
2....	34	125	12...	18	73	22...	1,860	40
3....	42	132	13...	19	66	23...	2,120	39
4....	37	120	14...	19	57	24...	690	46
5....	30	104	15...	28	52	25...	520	34
6....	26	118	16...	81	127	26...	378	32
7....	23	92	17...	37	99	27...	258	30
8....	20	75	18...	26	64	28...	191	26
9....	22	70	19...	23	51	29...	236	24
10...	23	143	20...	23	58	30...	228	22
						31...		21
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							270	73
RUNOFF, IN INCHES							6.50	1.80

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.99	69	6-22	1500	6.42	1,480	6-24	2400	5.13	655
6-21	0130	3.24	108	6-22	1900	7.79	3,230				
6-21	0200	3.47	149	6-22	2330	8.99	5,220				
6-21	0330	4.59	417	6-22	2400	8.84	4,950	6-25	0030	5.12	650
6-21	0530	5.53	858					6-25	1730	4.73	472
6-21	1000	6.51	1,570					6-25	2400	4.70	460
6-21	1130	6.86	1,970	6-23	0030	8.71	4,720				
6-21	1230	6.83	1,940	6-23	0700	7.39	2,670				
6-21	1500	6.16	1,250	6-23	1700	6.02	1,150	6-26	0030	4.69	456
6-21	2130	5.71	966	6-23	2400	5.50	840	6-26	2400	4.21	303
6-21	2400	5.65	930								
				6-24	0030	5.47	825	6-27	0030	4.21	303
6-22	0900	5.51	846	6-24	1430	5.12	650	6-27	2400	3.85	220

(711) 03012520 ALLEGHENY RESERVOIR NEAR KINZUA, PA.

LOCATION.--Lat 41°50'17", long 79°00'10", Warren County, in Allegheny National Forest, at control house at Kinzua Dam on Allegheny River, 3 miles upstream from Hemlock Run, and 7 miles east of Warren.

DRAINAGE AREA.--2,180 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 88,000 cfs about 1300 hours June 23; contents, 1,121,120 acre-ft 1600 to 2200 hours June 27 (elevation, 1,362.20 ft).
1966 to May 1972: Contents, 719,560 acre-ft Apr. 10, 1969 (elevation, 1,339.17 ft).

REMARKS.--Reservoir is formed by a concrete gravity dam with a gated spillway and with an earthfill section, rock-faced, at right side. Storage began October 1965. Capacity, 1,180,000 acre-ft between elevations, 1,205.0 ft (invert of low level sluices) and 1,365.0 ft (full pool). Dead storage is 128 acre-ft. Minimum pool elevation, 1,240 ft (capacity, 24,240 acre-ft). Reservoir is used for flood control, low-flow augmentation, and water-quality control of Allegheny River and downstream rivers, power generation, and recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers, Pittsburgh.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,329.40	589,730	1,356.43	1,007,750	16	1,329.38	589,480	1,329.08	585,770
2	1,329.41	589,850	1,354.65	974,580	17	1,329.63	592,580	1,329.45	590,350
3	1,329.41	589,850	1,353.18	947,720	18	1,329.70	593,440	1,329.20	587,260
4	1,329.32	588,740	1,351.38	915,510	19	1,329.80	594,680	1,329.00	584,780
5	1,329.32	588,740	1,349.18	877,170	20	1,329.82	594,930	1,328.82	582,590
6	1,329.30	588,490	1,347.35	846,220	21	1,331.18	612,010	1,328.77	581,980
7	1,329.25	587,870	1,345.21	811,170	22	1,337.10	690,450	1,328.80	582,350
8	1,329.23	587,630	1,342.74	772,400	23	1,347.71	852,230	1,328.91	583,690
9	1,329.12	586,270	1,340.02	731,790	24	1,355.28	986,230	1,328.99	584,660
10	1,328.83	582,710	1,337.75	699,500	25	1,359.48	1,066,400	1,329.28	588,250
11	1,328.72	581,370	1,335.14	663,750	26	1,361.78	1,112,560	1,329.23	587,630
12	1,328.73	581,490	1,332.32	626,610	27	1,362.18	1,120,710	1,329.40	589,730
13	1,328.71	581,250	1,330.25	600,290	28	1,361.34	1,103,640	1,329.38	589,480
14	1,328.72	581,370	1,329.40	589,730	29	1,359.88	1,074,190	1,329.40	589,730
15	1,328.98	584,540	1,328.93	583,930	30	1,385.52	1,047,730	1,329.23	587,630
					31			1,329.20	587,260
Change in contents.....							+460,470		-460,470

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	135	1,650	11...	58	544	21...	63	386
2....	129	1,300	12...	53	445	22...	1,040	260
3....	116	1,050	13...	48	346	23...	2,290	201
4....	129	930	14...	45	289	24...	2,980	169
5....	129	800	15...	45	264	25...	3,620	165
6....	107	639	16...	135	268	26...	3,940	155
7....	87	643	17...	180	256	27...	3,620	135
8....	70	544	18...	125	224	28...	3,000	125
9....	60	450	19...	87	472	29...	2,390	113
10...	58	558	20...	63	535	30...	2,010	104
						31...		92
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							894	455
RUNOFF, IN INCHES.....							3.44	1.81

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	3.37	58					6-26	0700	10.16	3,970
6-21	2000	3.40	65					6-26	2400	10.07	3,850
6-21	2200	3.43	73	6-23	2400	8.93	2,720				
6-21	2300	3.51	95								
6-21	2400	3.65	139					6-27	0100	10.06	3,840
				6-24	2400	9.57	3,270	6-27	2400	9.64	3,340
6-22	0200	4.18	346								
6-22	0700	5.34	890	6-25	2400	10.11	3,900				
6-22	2100	6.52	1,480								
6-22	2400	6.98	1,710								

(714) 03013070 MILL CREEK AT SINCLAIRVILLE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°15'45", long 79°15'38", Chautauqua County, at bridge on State Highway 49 at Sinclairville.

DRAINAGE AREA.--17.6 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 2,070 cfs June 23, from slope-area measurement.
Flood of Oct. 15, 1954 reached a peak of 2,740 cfs.

(715) 03013990 CHAUTAUQUA LAKE NEAR MAYVILLE, N.Y.

LOCATION.--Lat 42°14'20", long 79°29'50", Chautauqua County, on right bank of outlet of Mud Creek, 25 ft upstream from bridge on State Highway 17J, 0.1 mile from lake, and 1 mile south of Mayville.

DRAINAGE AREA.--189 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Backwater from debris June 23; lake-stage record reconstructed on basis of staff-gage readings furnished by Department of Public Works, City of Jamestown. Datum of gage is 1,300.00 ft above mean sea level.

MAXIMUMS.--June-July 1972: Gage height, 10.17 ft 0200 hours June 25.
1950 to May 1972: Gage height, 10.67 ft Mar. 8, 1956.

REMARKS.--Area of water surface, 20.9 sq mi. Lake regulated for flood control by four lift gates at Warner Dam by the city of Jamestown.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	8.24	9.45	11...	8.11	8.53	21...	8.33	8.31
2....	8.24	9.32	12...	8.10	8.47	22...	8.76	8.31
3....	8.26	9.22	13...	8.09	8.39	23...	9.80	8.27
4....	8.25	9.10	14...	8.10	8.35	24...	10.10	8.25
5....	8.24	8.98	15...	8.13	8.35	25...	10.14	8.21
6....	8.23	8.91	16...	8.20	8.35	26...	10.07	8.18
7....	8.20	8.81	17...	8.21	8.36	27...	9.96	8.19
8....	8.18	8.69	18...	8.23	8.36	28...	9.81	8.17
9....	8.15	8.61	19...	8.22	8.35	29...	9.70	8.15
10...	8.11	8.61	20...	8.26	8.34	30...	9.59	8.14
						31...		8.12

(712) 03012600 ALLEGHENY RIVER AT WARREN, PA.

(Formerly published as Allegheny River near Kinzua)

LOCATION.--Lat 41°49'28", long 79°07'09", Warren County, at center pier on downstream side of bridge on U. S. Highway 6 at Warren, 1,500 ft upstream from Glade Run, 6.9 miles from Kinzua Dam, and at mile 191.2.

DRAINAGE AREA.--2,223 sq mi. Area at site used prior to Nov. 1, 1964, 2,179 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Altitude of gage is 1,170 ft (from topographic map). Prior to Nov. 1, 1964, at site 7.4 miles upstream, near Kinzua, at datum 1,200.00 ft above mean sea level (Corps of Engineers bench mark.)

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 25,000 cfs 1700 hours June 28 (gage height, 14.12 ft). 1936 to May 1972: Discharge, 60,500 cfs March 8, 1956 (gage height, 19.95 ft, site and datum then in use).

REMARKS.--Flow regulated since October 1965 by Allegheny Reservoir 6.9 miles upstream (see station 03012520).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,550	24,300	11...	1,980	23,000	21...	2,530	3,790
2....	1,720	23,800	12...	1,450	22,900	22...	4,390	1,340
3....	1,720	24,100	13...	1,000	18,900	23...	6,320	1,280
4....	1,740	24,100	14...	1,010	10,400	24...	10,800	1,300
5....	1,720	23,800	15...	1,180	5,100	25...	19,500	1,310
6....	1,840	23,400	16...	1,420	4,100	26...	17,800	1,300
7....	2,000	23,100	17...	2,060	4,460	27...	22,000	1,310
8....	2,020	23,100	18...	2,050	5,550	28...	24,300	1,310
9....	2,040	23,100	19...	2,060	4,800	29...	24,700	1,310
10...	1,990	23,100	20...	2,100	4,080	30...	24,500	1,300
						31...		1,320
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							6,383	11,490
RUNOFF,IN INCHES							3.20	5.96

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	1100	6.94	2,440	6-24	0600	8.87	6,780	6-27	0900	13.02	20,600
6-21	1245	6.97	2,490	6-24	1300	8.98	7,050	6-27	1300	13.50	22,500
6-21	1430	7.87	4,310	6-24	1400	10.00	10,000	6-27	2400	13.84	23,900
6-21	1700	7.46	3,470	6-24	1500	10.52	11,800				
6-21	2000	7.32	3,190	6-24	1700	10.76	12,700				
6-21	2400	7.38	3,310	6-24	1900	11.90	16,600	6-28	1300	13.80	23,700
				6-24	2100	12.20	17,700	6-28	1700	14.12	25,000
				6-24	2400	13.27	21,600	6-28	2400	14.10	24,900
6-22	0100	7.40	3,350								
6-22	1900	7.28	3,110								
6-22	1330	7.70	3,950	6-25	1100	13.26	21,500	6-29	0100	14.10	24,900
6-22	1500	8.63	6,180	6-25	1500	12.07	17,200	6-29	2400	14.03	24,600
6-22	2100	9.50	8,500	6-25	2400	12.11	17,400				
6-22	2400	9.32	8,000								
								6-30	0100	14.03	24,600
				6-26	1100	12.10	17,400	6-30	1700	14.10	24,900
6-23	0500	9.45	8,360	6-26	1230	11.57	15,500	6-30	2400	13.95	24,300
6-23	1800	8.75	6,480	6-26	1645	11.81	16,300				
6-23	2400	8.85	6,720	6-26	2000	13.02	20,600				
				6-26	2400	13.03	20,600	7-01	1230	13.90	24,100
								7-01	1400	14.02	24,600
								7-01	2400	13.95	24,300

(713) 03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, on right bank 300 ft downstream from bridge on State Highway 17 at Waterboro, 0.2 mile downstream from Davis Brook, 0.4 mile upstream from Harris Brook, and 1.9 miles northeast of Kennedy.

DRAINAGE AREA.--290 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,255.30 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 3,970 cfs 0700 hours June 26 (gage height, 10.16 ft). 1939 to May 1972: Discharge, 8,600 cfs Apr. 7, 1947 (gage height, 11.35 ft); gage height, 11.58 ft Mar. 8, 1956.

(716) 03014500 CHADAKOIN RIVER AT FALCONER, N.Y.

LOCATION.--Lat 42°06'45", long 79°12'15", Chautauqua County, on left bank 10 ft downstream from bridge on South Dow Street in Falconer, 2.1 miles upstream from mouth, and 6 miles downstream from Chautauqua Lake.

DRAINAGE AREA.--194 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,256.41 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,650 cfs 1600 hours June 24 (gage height, 4.01 ft). 1935 to May 1972: Discharge, 2,050 cfs Apr. 5, 1947 (gage height, 4.56 ft).

REMARKS.--Flood flows regulated by Chautauqua Lake (see station 03013990).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	185	1,310	11...	98	788	21...	113	126
2....	164	1,250	12...	95	690	22...	964	110
3....	135	1,270	13...	95	505	23...	1,500	105
4....	135	1,210	14...	93	382	24...	1,600	126
5....	132	1,150	15...	110	218	25...	1,590	118
6....	132	1,120	16...	91	110	26...	1,580	108
7....	132	1,070	17...	88	105	27...	1,530	110
8....	129	1,010	18...	84	103	28...	1,470	108
9....	129	635	19...	84	100	29...	1,400	105
10...	110	744	20...	88	110	30...	1,370	105
						31...		100
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							514	487
RUNOFF,IN INCHES							2.96	2.89

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	0.83	84								
6-21	1500	0.83	84	6-22	0730	1.80	450	6-25	2400	3.93	1,600
6-21	1530	1.05	142	6-22	0800	2.10	600				
6-21	1600	1.37	256	6-22	0900	2.80	975				
6-21	1630	1.38	260	6-22	2400	3.83	1,540	6-26	0030	3.93	1,600
6-21	1730	1.07	148					6-26	2400	3.86	1,560
6-21	1900	1.00	126								
6-21	2100	1.10	157	6-23	2400	3.85	1,550				
6-21	2230	1.00	126					6-27	0100	3.86	1,560
6-21	2300	1.22	199					6-27	2400	3.75	1,500
6-21	2330	1.75	425	6-24	1600	4.01	1,650				
6-21	2400	1.79	445	6-24	2400	3.93	1,600				

(717) 03015000 CONEWANGO CREEK AT RUSSELL, PA.

LOCATION.--Lat 41°56'17", long 79°08'00", Warren County, on left bank at highway bridge in Russell, 0.5 mile upstream from Akeley Run, and 8.0 miles upstream from mouth.

DRAINAGE AREA.--816 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals. Datum of gage is 1,222.18 ft above mean sea level, unadjusted.

DISCHARGE RECORDS.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 9,020 cfs 1700 hours June 26 (gage height, 8.81 ft). 1940 to May 1972: Discharge, 14,400 cfs Apr. 7, 1947 (gage height, 10.69 ft). Flood of March 1936 reached a stage of 10.9 ft, from floodmark (discharge, 14,600 cfs).

REMARKS.--Flow regulated by Chautauqua Lake (see station 03013990).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	537	6,040	11...	340	2,040	21...	373	939
2....	624	5,300	12...	315	1,820	22...	2,080	736
3....	579	4,920	13...	305	1,530	23...	5,750	572
4....	544	4,430	14...	295	1,190	24...	6,380	481
5....	538	3,540	15...	300	984	25...	7,900	579
6....	516	3,140	16...	495	840	26...	8,920	558
7....	434	2,610	17...	624	824	27...	8,780	460
8....	406	2,260	18...	565	712	28...	8,130	418
9....	378	1,960	19...	448	704	29...	7,380	384
10...	373	1,970	20...	373	957	30...	6,780	351
						31...		330
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,380	1,730
RUNOFF,IN INCHES.....							3.26	2.44

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.62	356								
6-21	2200	2.72	412	6-23	2400	7.26	6,990	6-26	1700	8.81	9,020
6-21	2400	2.84	488					6-26	2400	8.80	9,000
				6-24	2400	7.83	7,060				
6-22	1400	4.47	2,020					6-27	0200	8.79	8,980
6-22	2000	5.71	3,510					6-27	2400	8.53	8,460
6-22	2400	6.67	4,970	6-25	2400	8.62	8,640				
								6-28	0200	8.51	8,420
								6-28	2400	8.17	7,740

(718) 03015080 AKELEY RUN NEAR RUSSELL, PA.

(Crest-stage station)

LOCATION.--Lat 41°55'55", long 79°05'38", Warren County, at highway bridge 1.1 miles upstream from Widdlefield Run, and 2.5 miles east of Russell.

DRAINAGE AREA.--9.64 sq mi.

GAGE-HEIGHT RECORD.--Crest-stage only. Datum of gage is 1,367.84 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 315 cfs, by contracted-opening measurement at 615 cfs, and by slope-area measurement at 619 cfs.

MAXIMUMS.--June-July 1972: Discharge, 683 cfs June 23 (gage height, 2.60 ft).
1962 to May 1972: Discharge, 735 cfs Dec. 7, 1966 (gage height, 2.96 ft).

(719) 03015280 JACKSON RUN NEAR NORTH WARREN, PA.

LOCATION.--Lat 41°54'10", long 79°14'18", Warren County, on right bank at downstream side of highway bridge on Creamery Road, 0.6 mile upstream from Mud Run, and 5 miles northwest of North Warren.

DRAINAGE AREA.--12.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,370 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 330 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 627 cfs 0515 hours June 23 (gage height, 4.22 ft).
1963 to May 1972: Discharge, 1,020 cfs Mar. 2, 1972 (gage height, 5.35 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	341	740	11...	156	805	21...	340	233
2....	275	600	12...	144	585	22...	2,480	206
3....	251	1,110	13...	147	453	23...	9,700	194
4....	270	1,040	14...	162	397	24...	7,260	248
5....	267	820	15...	171	349	25...	5,740	203
6....	227	1,230	16...	584	413	26...	4,150	185
7....	198	1,030	17...	491	373	27...	2,570	172
8....	171	695	18...	297	296	28...	1,480	166
9....	161	550	19...	216	260	29...	872	153
10...	169	860	20...	183	251	30...	840	147
						31...		133
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,340	481
RUNOFF,IN INCHES.....							4.67	1.73

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.28	209	6-22	2400	8.21	6,350	6-25	0100	8.58	6,990
6-21	1430	1.54	289					6-25	2100	7.37	5,150
6-21	1730	1.86	409					6-25	2400	7.29	5,050
6-21	2000	1.96	449	6-23	1030	10.78	11,800				
6-21	2300	2.99	974	6-23	2400	9.04	7,830				
6-21	2400	3.15	1,070					6-26	0030	7.27	5,020
								6-26	2400	5.70	3,140
				6-24	0030	9.02	7,790				
6-22	1030	4.27	1,860	6-24	2400	8.61	7,050				
6-22	1630	5.01	2,480					6-27	0030	5.67	3,110
6-22	2200	7.29	5,050					6-27	2400	4.43	1,980

(722) 03016000 ALLEGHENY RIVER AT WEST HICKORY, PA.

LOCATION.--41°34'15", long 79°24'29", Forest County, on right bank at downstream side of bridge on State Highway 127 at West Hickory, 0.6 mile upstream from Siggins Run, 0.8 mile downstream from East Hickory Creek, and at mile 158.9.

DRAINAGE AREA.--3,660 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,059.90 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 42,300 cfs 0800 hours June 25 (gage height, 11.18 ft).
1942 to May 1972: Discharge, 101,000 cfs March 8, 1956 (gage height, 17.20 ft).

REMARKS.--Flow regulated since October 1965 by Allegheny Reservoir 39 miles upstream (see station 03012520) and by Chautauqua Lake (see station 03013990).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,770	34,200	11...	2,740	29,100	21...	3,170	5,150
2....	2,790	33,000	12...	2,620	27,900	22...	8,340	3,380
3....	2,990	33,200	13...	1,830	25,200	23...	34,400	2,500
4....	2,940	33,600	14...	1,700	14,200	24...	26,600	2,430
5....	2,890	31,600	15...	1,760	7,620	25...	39,400	2,290
6....	2,820	31,700	16...	3,170	5,780	26...	34,400	2,410
7....	2,960	30,500	17...	3,350	5,300	27...	35,700	2,270
8....	2,890	29,900	18...	3,300	6,380	28...	36,700	2,200
9....	2,860	28,900	19...	3,040	6,180	29...	36,200	2,160
10...	2,860	30,000	20...	2,920	5,060	30...	35,900	2,090
						31...		2,030
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							11,500	15,400
RUNOFF,IN INCHES.....							3.52	4.86

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6.3	42	11...	3.0	24	21...	13	8.3
2....	5.9	28	12...	2.8	19	22...	121	7.5
3....	6.3	42	13...	3.4	16	23...	404	6.7
4....	5.6	32	14...	3.6	15	24...	209	7.5
5....	4.5	40	15...	4.5	13	25...	179	6.7
6....	3.8	51	16...	7.9	27	26...	129	6.3
7....	3.6	30	17...	4.3	16	27...	61	5.9
8....	3.2	24	18...	3.6	12	28...	39	5.6
9....	3.0	23	19...	3.4	11	29...	80	5.3
10...	3.2	44	20...	3.2	9.1	30...	72	5.0
						31...		4.8
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							46	19
RUNOFF, IN INCHES							4.04	1.71

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.66	5.0	6-22	1330	2.23	47	6-24	1345	3.01	233
6-21	0415	1.71	6.6	6-22	1700	2.64	124	6-24	1445	2.99	227
6-21	1430	1.67	5.2	6-22	2215	3.29	317	6-24	2400	2.98	224
6-21	1600	1.77	9.0	6-22	2400	3.38	344				
6-21	1645	1.86	14					6-25	0015	2.97	221
6-21	1930	1.86	14					6-25	1530	2.77	161
6-21	2045	1.97	21	6-23	0330	3.98	543	6-25	2400	2.86	188
6-21	2215	2.14	36	6-23	0515	4.22	627				
6-21	2400	2.18	41	6-23	1945	3.03	239				
				6-23	2400	2.90	200	6-26	0015	2.86	188
6-22	0700	2.11	33	6-24	0900	2.84	182	6-26	2400	2.48	86
6-22	1115	2.05	28								

(720) 03015390 HARE CREEK NEAR CORRY, PA.

(Crest-stage station)

LOCATION.--Lat 41°65'29", long 79°38'41", Erie County, at concrete dam of Corry Water Co., 1.1 miles above Bear Creek, and 1.5 miles north of Corry.

DRAINAGE AREA.--12.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stage only. Altitude of gage is 1,410 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 565 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 744 cfs June 23 (gage height, 5.63 ft).
1964 to May 1972: Discharge, 1,370 cfs Mar. 5, 1964 (gage height, 6.30 ft).

(721) 03015500 BROKENSTRAW CREEK AT YOUNGSVILLE, PA.

LOCATION.--Lat 41°51'09", long 79°19'03", Warren County, on right bank 150 ft downstream from bridge on Main Street at Youngsville, 500 ft upstream from Mathews Run, and 3.7 miles upstream from mouth.

DRAINAGE AREA.--321 sq mi, including that of Mathews Run.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,186.92 ft above mean sea level, adjustment of 1907. Prior to Sept. 30, 1933 at site 150 ft upstream at datum 2.00 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 11,800 cfs 1030 hours June 23 (gage height, 10.78 ft).
1910 to May 1972: Discharge, about 18,000 cfs Mar. 25, 1913 (gage height, 14.2 ft, present datum).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.87	2,960	6-24	0600	8.80	25,900				
6-21	2130	4.08	3,520	6-24	1200	8.67	25,100	6-27	0400	10.28	36,000
6-21	2400	4.49	4,680	6-24	2000	8.92	26,600	6-27	2400	10.40	36,800
				6-24	2400	9.80	32,600				
6-22	0200	4.68	5,240					6-28	0400	10.48	37,400
6-22	0400	4.62	5,060	6-25	0600	10.98	40,900	6-28	2400	10.39	36,700
6-22	1300	5.02	6,580	6-25	0800	11.18	42,300				
6-22	1800	5.71	9,340	6-25	1800	10.87	40,100				
6-22	2200	7.42	17,600	6-25	2400	10.28	36,000	6-29	0030	10.39	36,700
6-22	2400	8.53	24,300					6-29	2400	10.34	36,400
				6-26	1400	10.08	24,600				
6-23	0400	9.81	32,700	6-26	2200	9.72	32,000	6-30	0030	10.38	36,700
6-23	1100	10.74	39,200	6-26	2400	9.87	33,100	6-30	2400	10.16	35,100
6-23	2400	9.27	28,900								

(723) 03017500 TIONESTA CREEK AT LYNCH, PA.

LOCATION.--Lat 41°36'07", long 79°03'01", Forest County, in Allegheny National Forest, on left bank at downstream side of highway bridge at Lynch, 500 ft upstream from Bluejay Creek, and 7 miles south of Sheffield.

DRAINAGE AREA.--233 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,252.43 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,600 cfs and by slope-area measurement at 15,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,400 cfs 0630 hours June 23 (gage height, 10.42 ft).
1938 to May 1972: Discharge, 15,000 cfs Jan. 22, 1959 (gage height, 11.25 ft, from high-water mark in gage well).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	189	1,120	11...	102	934	21...	1,210	440
2....	169	843	12...	94	660	22...	4,200	350
3....	165	997	13...	105	560	23...	10,600	301
4....	203	1,010	14...	115	490	24...	4,520	360
5....	165	774	15...	120	450	25...	3,540	270
6....	130	1,100	16...	595	1,200	26...	2,790	220
7....	122	864	17...	272	920	27...	1,920	192
8....	108	690	18...	178	635	28...	1,310	180
9....	104	605	19...	154	525	29...	1,220	156
10...	120	1,190	20...	136	515	30...	1,650	138
						31...		129
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,210	607
RUNOFF, IN INCHES							5.79	3.00

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	D SCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.48	173					6-25	2400	5.71	3,260
6-21	0430	1.96	390								
6-21	0800	2.75	815	6-23	0630	10.42	12,400				
6-21	1230	3.59	1,420	6-23	0900	10.38	12,200	6-26	0100	5.70	3,250
6-21	1700	3.44	1,300	6-23	2400	8.25	6,700	6-26	2400	4.67	2,290
6-21	1900	3.59	1,420								
6-21	2300	5.23	2,790								
6-21	2400	5.39	2,940	6-24	0030	8.16	6,520	6-27	0030	4.65	2,270
				6-24	1230	6.54	4,100	6-27	2400	3.76	1,560
				6-24	2400	6.30	3,850				
6-22	1200	5.44	2,990								
6-22	1830	7.28	5,070					6-28	0030	3.74	1,540
6-22	2400	9.40	9,410	6-25	0200	6.31	3,860	6-28	2400	3.13	1,080

(724) 03017800 MINISTER CREEK NEAR TRUEMANS, PA.

(Crest-stage station)

LOCATION.--Lat 41°37'17", long 79°09'12", Forest County, in Allegheny National Forest, at bridge on State Highway 666, 0.4 mile above mouth, and 1 mile west of Truemans.

DRAINAGE AREA.--10.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stage only. Altitude of gage is 1,230 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 280 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 539 cfs June 23 (gage height, 3.41 ft).
1961 to May 1972: Discharge, 726 cfs Apr. 19, 1969 (gage height, 3.87 ft).

(725) 03019500 TIONESTA LAKE AT TIONESTA DAM, PA.

LOCATION.--Lat 41°28'25", long 79°26'20", Forest County, in Allegheny National Forest, at control tower, 0.8 mile upstream from Tionesta Dam on Tionesta Creek, 1.8 miles upstream from mouth, and 2 miles southeast of Tionesta.

DRAINAGE AREA.--478 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level, datum of Corps of Engineers, which is 0.08 ft above mean sea level.

CONTENTS RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 21,100 cfs about 0700 hours June 23; contents, 72,080 acre-ft 0700 hours June 25 (elevation, 1,143.38 ft).
1941 to May 1972: Contents, 111,320 acre-ft Mar. 11, 1964 (elevation, 1,161.55 ft).

REMARKS.--Reservoir is formed by an earthfill dam, rock-faced. Storage began in 1940 during construction. Dam completed Jan. 9, 1941. Capacity, 133,400 acre-ft between elevations, 1,052.00 ft (sill of outlet gates) and 1,170.00 ft (full pool). Minimum pool elevation, 1,085.00 ft (capacity, 7,780 acre-ft). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers, Pittsburgh.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,086.98	8,800	1,117.43	33,950	16	1,093.67	12,630	1,092.73	12,040
2	1,087.04	8,830	1,112.73	28,750	17	1,093.82	12,720	1,094.22	12,990
3	1,087.57	9,110	1,111.74	27,710	18	1,092.96	12,180	1,091.74	11,440
4	1,088.18	9,440	1,109.75	25,730	19	1,091.78	11,460	1,089.80	10,320
5	1,088.76	9,750	1,106.93	23,050	20	1,090.43	10,680	1,089.84	10,340
6	1,088.96	9,860	1,105.14	21,420	21	1,092.59	11,950	1,089.60	10,210
7	1,089.04	9,900	1,101.60	18,400	22	1,107.10	23,200	1,088.86	9,800
8	1,089.01	9,890	1,097.07	14,960	23	1,134.85	57,450	1,088.21	9,450
9	1,089.08	9,920	1,094.85	13,410	24	1,143.28	71,900	1,088.41	9,560
10	1,089.26	10,020	1,097.24	15,090	25	1,143.20	71,750	1,088.24	9,470
11	1,089.28	10,030	1,096.35	14,450	26	1,141.38	68,410	1,088.00	9,340
12	1,089.16	9,970	1,092.31	11,780	27	1,136.43	59,970	1,088.20	9,450
13	1,089.65	10,240	1,089.30	10,040	28	1,128.82	48,440	1,088.26	9,480
14	1,090.19	10,540	1,089.21	10,000	29	1,121.07	38,270	1,088.35	9,530
15	1,090.78	10,870	1,089.57	10,190	30	1,118.82	35,570	1,088.52	9,620
					31			1,088.61	9,670
Change in contents.....							+26,610		-25,900

(726) 03020000 TIONESTA CREEK AT TIONESTA DAM, PA.

(Formerly published as Tionesta Creek at Tionesta Creek Dam)

LOCATION.--Lat 41°28'44", long 79°26'26", Forest County, on left bank 100 ft downstream from outlet tunnel at Tionesta Dam, 1.5 miles southeast of Tionesta, and 1.2 miles upstream from mouth.

DRAINAGE AREA.--479 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage-recorder graph. Datum of gage is 1,043.43 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 8,890 cfs 2230 hours June 27 (gage height, 8.43 ft).
1941 to May 1972: Discharge, about 13,500 cfs March 12, 1964; maximum gage height, 11.31 ft March 13, 1964 (backwater from Allegheny River).

REMARKS.--Flow completely regulated since 1941 by Tionesta Lake 0.2 mile upstream (see station 03019500).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	305	676	11...	169	1,050	21...	746	303
2...	257	730	12...	153	698	22...	3,040	279
3...	252	2,550	13...	405	572	23...	9,720	264
4...	278	1,850	14...	418	503	24...	6,570	293
5...	243	1,090	15...	393	437	25...	6,100	255
6...	197	1,480	16...	740	595	26...	4,860	229
7...	179	1,150	17...	679	537	27...	2,130	203
8...	163	758	18...	463	410	28...	1,190	193
9...	186	653	19...	356	366	29...	852	179
10...	211	1,380	20...	298	357	30...	774	168
						31...		159
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,440	657
RUNOFF, IN INCHES.....							5.37	2.52

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.77	445								
6-21	1000	2.91	515	6-23	0930	10.25	12,000				
6-21	1430	2.95	535	6-23	1000	10.20	11,800	6-26	0030	7.91	6,450
6-21	1800	3.84	1,090	6-23	2400	8.45	7,480	6-26	2400	5.94	3,280
6-21	2000	3.91	1,150								
6-21	2400	4.75	1,910								
				6-24	0030	8.41	7,400	6-27	0030	5.88	3,200
				6-24	2400	7.69	6,030	6-27	1430	4.72	1,880
6-22	0700	5.64	2,900					6-27	2400	4.31	1,510
6-22	1830	5.76	3,050								
6-22	2200	7.08	4,940	6-25	1900	7.79	6,220				
6-22	2400	8.19	6,980	6-25	2230	7.98	6,580	6-28	0030	4.29	1,490
				6-25	2400	7.93	6,490	6-28	2400	3.69	962

(729) 03021518 UNION CITY RESERVOIR NEAR UNION CITY, PA.

LOCATION.--Lat 41°55'13", long 79°53'59", Erie County, in tower at left center of Union City dam on French Creek, 1.4 miles upstream from South Branch French Creek, and 3.2 miles northwest of Union City.

DRAINAGE AREA.--220 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level. (level by Corps of Engineers).

DISCHARGE RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.-- June-July 1972: Inflow, 11,000 cfs about 0300 hours June 24; contents, 22,170 acre-ft 1400 hours June 26 (elevation, 1,264.30 ft).
July 1970 to May 1972: Contents, 21,600 acre-ft Mar. 18, 1972 (elevation, 1,263.90 ft).

REMARKS.--Reservoir is formed by earthfill dam with sidehill, concrete-lined spillway completed September 1971. Dam became operational in July 1970. Usable capacity, 47,650 acre-ft between elevation 1210.0 ft (invert of inlet conduit) and 1,278.0 ft (crest of spillway). No dead storage. Reservoir is used for flood control only. Figures given herein represent usable contents. Records furnished by Corps of Engineers, Pittsburgh.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,216.94	67	1,253.20	10,410	16	1,222.31	368	1,216.21	49
2	1,216.11	47	1,250.00	8,400	17	1,220.50	232	1,215.88	42
3	1,215.54	36	1,247.40	6,980	18	1,216.83	64	1,215.08	28
4	1,216.41	54	1,244.30	5,530	19	1,215.41	34	1,214.53	21
5	1,215.27	32	1,240.80	4,220	20	1,214.41	20	1,214.20	17
6	1,214.44	20	1,239.00	3,610	21	1,214.87	25	1,213.95	15
7	1,213.94	14	1,235.70	2,590	22	1,227.30	923	1,213.70	13
8	1,213.54	11	1,229.40	1,240	23	1,246.40	6,490	1,213.65	12
9	1,213.58	12	1,222.20	358	24	1,261.10	17,840	1,213.60	12
10	1,213.57	12	1,220.91	258	25	1,263.40	20,880	1,213.76	13
11	1,213.40	10	1,219.63	179	26	1,264.10	21,870	1,213.54	11
12	1,213.24	8.9	1,217.44	82	27	1,263.20	20,590	1,213.47	11
13	1,213.40	10	1,216.17	48	28	1,261.20	17,960	1,213.30	9.4
14	1,213.88	14	1,215.59	37	29	1,258.40	14,810	1,213.12	8.0
15	1,218.46	121	1,215.99	44	30	1,256.00	12,550	1,212.90	6.5
					31			1,212.76	5.8
Change in contents.....							+12,465		-12,544

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	528	3,080	11...	250	2,810	21...	820	916
2....	345	4,730	12...	250	3,180	22...	930	910
3....	245	2,920	13...	253	2,250	23...	1,180	765
4....	245	3,490	14...	253	1,170	24...	2,360	635
5....	245	3,350	15...	253	940	25...	7,600	630
6....	248	3,250	16...	551	952	26...	7,660	536
7....	248	3,650	17...	845	1,460	27...	8,080	359
8....	248	3,460	18...	845	2,110	28...	8,300	359
9....	248	2,840	19...	835	1,590	29...	7,680	300
10...	250	2,300	20...	820	922	30...	4,610	248
						31...		248
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,910	1,820
RUNOFF, IN INCHES							4.44	4.38

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.83	815	6-24	2000	5.55	3,360	6-27	2400	8.32	8,560
6-21	2400	2.92	848	6-24	2015	6.28	4,510				
				6-24	2400	6.35	4,630				
								6-28	0100	8.30	8,500
6-22	1415	3.07	907					6-28	2400	8.20	8,300
6-22	1430	2.10	485	6-25	0015	7.65	7,200				
6-22	1500	3.18	970	6-25	1200	8.08	7,860				
6-22	2400	3.41	1,060	6-25	2400	7.92	7,740	6-29	0130	8.26	8,420
								6-29	1215	8.00	7,900
								6-29	2400	7.57	7,040
6-23	1230	4.15	1,180	6-26	0100	7.90	7,700				
6-23	2400	3.80	1,300	6-26	2400	7.83	7,560				
								6-30	0045	7.61	7,120
								6-30	0915	7.48	6,860
6-24	1200	3.78	1,390	6-27	1200	7.88	7,660	6-30	0930	6.25	4,460
6-24	1300	4.64	2,250	6-27	1300	8.20	8,300	6-30	0945	5.53	3,340
6-24	1530	4.65	2,260	6-27	2230	8.43	8,890	6-30	2400	5.39	3,140
6-24	1615	5.53	3,340								

(727) 03020440 WEST BRANCH CALDWELL CREEK NEAR GRAND VALLEY, PA.

(Crest-stage station)

LOCATION.--Lat 41°45'31", long 79°34'08", Warren County, at bridge 2 miles above Three Bridge Run, and 3 miles northwest of Grand Valley.

DRAINAGE AREA.--4.37 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,480 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 245 cfs and by contracted-opening measurement at 390 cfs.

MAXIMUMS.--June-July 1972: Discharge, 397 cfs June 23 (gage height, 8.59 ft).
1964 to May 1972: Discharge, about 500 cfs Mar. 5, 1964 (gage height, 9.99 ft).

(728) 03020500 OIL CREEK AT ROUSEVILLE, PA.

LOCATION.--Lat 41°28'54", long 79°41'44", Venango County, on right bank 100 ft downstream from bridge on State Highway 8, about 300 ft upstream from Cherrytree Run, and 1 mile north of Rouseville. Records include flow of Cherrytree Run.

DRAINAGE AREA.--300 sq mi, including that of Cherrytree Run.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,028.33 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 12,000 cfs 0930 hours June 23 (gage height, 10.25 ft).
1910 to May 1972: Discharge, 21,000 cfs Jan. 22, 1959 (gage height, 11.97 ft).

(730) 03021520 FRENCH CREEK NEAR UNION CITY, PA.

(Formerly published as French Creek at Carters Corners)

LOCATION.--Lat 41°54'27", long, 79°53'52", Erie County, at center pier on downstream side of bridge on State Highway 97, 0.4 mile upstream from South Branch French Creek, 0.9 mile downstream from Union City Reservoir, and 2.8 miles west of Union City.

DRAINAGE AREA.--221 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,192.3 ft above mean sea level. Prior to Oct. 1, 1971, at site 4.6 miles upstream at datum 43.4 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,700 cfs and extended above by logarithmic plotting. Prior to October 1971, stage-discharge relation defined by current-meter measurements below 8,600 cfs and by slope-area measurement at 20,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,880 cfs 0900 hours June 26 (gage height, 8.00 ft).
1910 to May 1972: Discharge, 20,000 cfs Apr. 5, 1947 (gage height, 13.50 ft, site and datum then in use).

REMARKS.--Flow regulated since October 1971 by Union City Reservoir 0.9 mile upstream (see station 03021518).

COOPERATION.--Gage-height record and discharge measurements furnished by Corps of Engineers, Pittsburgh.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	229	1,540	11...	67	345	21...	86	72
2....	180	1,450	12...	63	246	22...	306	68
3....	148	1,390	13...	64	154	23...	1,100	63
4....	148	1,320	14...	68	123	24...	1,840	66
5....	148	1,230	15...	102	114	25...	2,550	64
6....	102	1,160	16...	370	130	26...	2,870	66
7....	86	1,040	17...	405	138	27...	2,760	64
8....	72	886	18...	251	109	28...	2,440	62
9....	66	571	19...	138	88	29...	2,040	60
10...	69	380	20...	91	78	30...	1,730	55
						31...		52
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							686	425
RUNOFF, IN INCHES							3.47	2.22

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	4.20	84	6-24	0600	6.73	1,590	6-28	0200	7.72	2,570
6-21	2400	4.25	93	6-24	1700	7.26	2,090	6-28	2400	7.40	2,230
				6-24	2400	7.44	2,270				
6-22	0200	4.28	98					6-29	0200	7.38	2,210
6-22	0400	4.36	116	6-25	0200	7.49	2,320	6-29	2400	7.06	1,890
6-22	1000	4.85	272	6-25	2400	7.91	2,780				
6-22	1800	5.15	415								
6-22	2100	5.39	554					6-30	0200	7.04	1,870
6-22	2400	5.67	739	6-26	0900	8.00	2,880	6-30	2400	6.76	1,610
				6-26	2400	7.98	2,860				
6-23	0200	5.95	940								
6-23	0700	6.23	1,160	6-27	0200	7.96	2,840				
6-23	2400	6.60	1,470	6-27	2400	7.76	2,620				

(731) 03021700 LITTLE CONNEAUTTEE CREEK NEAR MCKEAN, PA.

LOCATION.--Lat 41°55'53", long 80°05'02", Erie County, on left bank at downstream side of highway bridge on old Waterford Road, 2.2 miles east of McLane, and 5.5 miles southeast of McKean (Middleboro).

DRAINAGE AREA.--3.60 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,330 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 310 cfs and by contracted-opening measurement at 830 cfs.

MAXIMUMS.--June-July 1972: Discharge, 596 cfs 0730 hours June 23 (gage height, 4.52 ft).
1961 to May 1972: Discharge, 830 cfs July 5, 1969 (gage height, 4.78 ft in gage well, 4.90 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.4	3.1	11...	.55	3.1	21...	.47	.47
2....	1.9	2.2	12...	.47	1.8	22...	8.4	.39
3....	1.2	2.9	13...	.39	1.3	23...	210	.32
4....	1.5	2.9	14...	.55	1.2	24...	147	.32
5....	1.0	5.7	15...	13	1.5	25...	109	1.1
6....	.73	6.9	16...	8.7	1.3	26...	43	.82
7....	.55	2.7	17...	2.2	1.1	27...	7.8	.47
8....	.47	1.7	18...	1.2	.82	28...	4.1	.39
9....	.55	6.3	19...	1.1	.73	29...	3.9	.39
10...	.73	14	20...	.64	.55	30...	4.4	.26
						31...		.20
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							19	2.2
RUNOFF,IN INCHES							5.97	0.69

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.20	0								
6-21	0030	1.24	0.5	6-23	0230	3.16	117				
6-21	2130	1.24	0.5	6-23	0245	3.00	100	6-25	0645	2.59	66
6-21	2215	1.25	0.6	6-23	0415	3.60	180	6-25	1245	2.36	50
6-21	2400	1.26	0.6	6-23	0515	4.00	290	6-25	1445	2.72	76
				6-23	0730	4.52	596	6-25	1545	3.00	100
				6-23	0745	4.50	580	6-25	1830	3.86	243
6-22	0315	1.26	0.6	6-23	1230	3.71	203	6-25	1915	3.87	246
6-22	0500	1.27	0.7	6-23	1345	3.67	194	6-25	2100	3.67	194
6-22	0945	1.28	0.8	6-23	1400	3.37	144	6-25	2400	3.10	110
6-22	1115	1.29	0.9	6-23	1900	3.32	137				
6-22	1130	1.30	1.0	6-23	1915	2.65	71				
6-22	1145	1.30	1.0	6-23	2000	2.50	60	6-26	0015	3.04	104
6-22	1445	1.33	1.2	6-23	2130	2.49	59	6-26	0515	2.54	63
6-22	1500	1.30	1.0	6-23	2400	2.39	52	6-26	1030	2.27	44
6-22	1515	1.34	1.5					6-26	1230	2.27	44
6-22	1700	1.37	1.8					6-26	1245	2.10	32
6-22	1715	1.30	1.0	6-24	0130	2.40	53	6-26	2300	1.75	13
6-22	1730	1.38	2.0	6-24	0400	2.76	79	6-26	2400	1.73	12
6-22	1745	1.31	1.0	6-24	0415	2.00	26				
6-22	1800	1.40	2.3	6-24	0430	2.82	84				
6-22	1930	1.50	4.3	6-24	0930	3.54	170	6-27	0045	1.72	12
6-22	2030	1.60	7.1	6-24	1315	3.94	269	6-27	0700	1.65	8.6
6-22	2115	1.86	18	6-24	1330	3.93	266	6-27	2400	1.53	5.0
6-22	2400	2.96	96	6-24	1915	3.30	134				
				6-24	2400	3.09	109				

(732) 03024000 FRENCH CREEK AT UTICA, PA.

LOCATION.--Lat 41°26'15", long 79°57'22", Venango County, on right bank at upstream side of bridge on Legislative Route 60019 at Utica, 2,000 ft upstream from Mill Creek.

DRAINAGE AREA.--1,028 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals and water-stage-recorder graph. Datum of gage is 1,019.44 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 21,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 13,600 cfs 1100 hours June 26 (gage height, 10.01 ft). 1912 to May 1972: Discharge, 35,600 cfs March 25 or 26, 1913 (gage height, 15.7 ft, from floodmark).

REMARKS.--Flow regulated since October 1971 by Union City Reservoir (see station 03021518).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	778	4,240	11...	513	3,040	21...	907	755
2....	906	3,520	12...	458	2,290	22...	1,390	703
3....	855	4,260	13...	1,530	1,840	23...	7,160	626
4....	796	3,750	14...	1,250	1,510	24...	9,550	576
5....	702	3,390	15...	1,190	1,260	25...	12,200	544
6....	634	4,060	16...	2,570	1,300	26...	12,300	505
7....	558	3,670	17...	2,200	1,170	27...	12,600	474
8....	484	2,950	18...	1,680	1,040	28...	9,960	442
9....	509	2,630	19...	1,280	1,080	29...	6,530	407
10...	625	3,220	20...	994	865	30...	5,070	377
						31...		348
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							3,270	1,830
RUNOFF,IN INCHES							3.55	2.06

(734) 03025200 PATCHEL RUN NEAR FRANKLIN, PA.

LOCATION.--Lat 41°25'20", long 79°50'59", Venango County, on right bank at downstream side of highway bridge, 0.7 mile upstream from mouth, and 1.5 miles northwest of Franklin.

DRAINAGE AREA.--5.69 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,040 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 130 cfs, by slope-area measurement at 264 cfs, and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,650 cfs 2145 hours July 2 (gage height, 6.28 ft). 1961 to May 1972: Discharge, 504 cfs Dec. 28, 1968 (gage height, 5.17 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4.8	5.6	11...	6.5	15	21...	18	5.8
2....	4.4	147	12...	5.9	12	22...	36	5.2
3....	4.2	92	13...	17	10	23...	128	4.8
4....	4.0	43	14...	11	9.0	24...	66	4.6
5....	3.6	30	15...	11	8.0	25...	62	4.3
6....	3.3	20	16...	12	16	26...	44	4.0
7....	3.1	14	17...	8.8	10	27...	21	3.7
8....	3.0	12	18...	8.0	8.0	28...	12	3.4
9....	14	17	19...	7.1	7.0	29...	10	3.2
10...	9.2	28	20...	8.0	6.4	30...	7.1	3.1
						31...		3.0
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							18	18
RUNOFF,IN INCHES							3.61	3.63

(735) 03025500 ALLEGHENY RIVER AT FRANKLIN, PA.

LOCATION.--Lat 41°23'22", long 79°49'14", Venango County, on right bank at downstream side of Eighth Street Bridge on U. S. Highway 322 at Franklin, 1,000 ft downstream from French Creek, and at mile 124.4.

DRAINAGE AREA.--5,982 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except fragmentary June 13-28; graph for missing record constructed on basis of adjoining record, gage readings, and high-water mark in gage well. Datum of gage is 955.92 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 120,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--Given in following table.

Date	Discharge (cfs)	Gage Height (feet)
June-July 1972:		
June 23, 1400 hours	81,100	15.41
June 25, 2330 hours	85,400	15.84
1864 to May 1972:		
Mar. 17, 1865	196,000	25.0
Mar. 26, 1913	191,000	24.6

REMARKS.--Flow regulated since 1965 by Allegheny Reservoir (see station 03012520) 74 miles upstream, by Chautauqua Lake (see station 03013990), and since 1940 by Tionesta Lake (see station 03019500).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	5,410	43,800	11...	6,320	37,300	21...	7,030	8,230
2....	5,550	42,500	12...	6,050	34,900	22...	14,200	7,600
3....	5,380	51,600	13...	5,600	32,300	23...	65,500	5,030
4....	5,380	47,100	14...	6,660	21,600	24...	57,300	4,680
5....	4,680	42,500	15...	5,670	12,800	25...	75,800	4,430
6....	4,320	42,900	16...	11,400	10,900	26...	76,000	4,130
7....	4,210	40,800	17...	8,860	9,740	27...	65,600	3,860
8....	4,170	38,100	18...	7,740	10,600	28...	62,000	3,600
9....	4,500	35,900	19...	6,760	10,600	29...	55,500	3,350
10...	5,040	39,000	20...	6,200	8,400	30...	49,600	3,380
						31...		3,160
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							21,300	21,400
RUNOFF,IN INCHES							3.98	4.13

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0100	3.34	1,260	6-24	2400	8.91	10,900	6-27	2400	9.20	11,600
6-22	0500	3.22	1,140								
6-22	1400	3.21	1,130								
6-22	2000	3.65	1,570	6-25	0600	9.27	11,800	6-28	0600	8.92	10,900
6-22	2400	5.03	3,220	6-25	2400	9.86	13,200	6-28	2400	7.75	8,030
6-23	0200	5.63	4,060	6-26	0100	9.87	13,300	6-29	0800	7.22	6,860
6-23	0700	7.45	7,370	6-26	1100	10.01	13,600	6-29	2400	6.51	5,480
6-23	2400	7.84	8,230	6-26	2400	9.92	13,400				
								6-30	0600	6.28	5,070
6-24	0200	7.90	8,360	6-27	0100	9.90	13,300	6-30	2400	6.13	4,830

(733) 03025000 SUGAR CREEK AT SUGARCREEK, PA.

LOCATION.--Lat 41°25'43", long 79°52'48", Venango County, on left bank at downstream side of highway bridge, 0.8 mile north of Sugarcreek, 0.9 mile upstream from mouth, and 3 miles northwest of Franklin.

DRAINAGE AREA.--166 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1900 hours June 23 to 0915 hours June 24 for which a graph was constructed on basis of adjoining record. Datum of gage is 1,013.03 ft above mean sea level, adjustment of 1912. Prior to Aug. 31, 1948 at same site at datum 3.00 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,500 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 8,240 cfs 0930 hours June 23 (gage height, 9.85 ft).
1933 to May 1972: Discharge, 10,000 cfs May 28, 1946 (gage height, 11.49 ft, present datum).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	162	585	11...	176	585	21...	748	229
2....	149	500	12...	151	420	22...	2,140	195
3....	146	2,050	13...	964	368	23...	6,080	178
4....	180	1,140	14...	645	360	24...	3,440	200
5....	158	820	15...	655	295	25...	3,720	162
6....	140	946	16...	1,990	515	26...	2,920	147
7....	132	625	17...	705	388	27...	1,500	139
8....	124	476	18...	456	301	28...	1,010	132
9....	217	428	19...	343	280	29...	826	124
10...	307	1,150	20...	313	304	30...	766	118
						31...		112
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,040	460
RUNOFF,IN INCHES.....							7.00	3.20

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	3.52	540								
6-21	1530	3.30	440	6-23	0915	9.79	8,140				
6-21	1815	3.58	570	6-23	0930	9.85	8,240	6-26	0045	7.58	4,570
6-21	2100	4.98	1,420	6-23	1730	8.32	5,710	6-26	1545	6.04	2,390
6-21	2330	6.04	2,390	6-23	2400	6.6	3,100	6-26	2400	5.57	1,890
6-21	2400	6.13	2,500								
				6-24	0200	6.5	3,000	6-27	0015	5.56	1,880
6-22	0415	6.47	2,940	6-24	0930	6.69	3,250	6-27	2400	4.63	1,170
6-22	1345	5.14	1,530	6-24	2400	7.16	3,940				
6-22	1945	5.21	1,590								
6-22	2230	6.25	2,640					6-28	0030	4.63	1,170
6-22	2400	6.95	3,630	6-25	1800	6.77	3,360	6-28	2400	4.09	844
				6-25	2345	7.56	4,540				
				6-25	2400	7.54	4,510				

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	4.59	6,870	6-23	2400	13.90	66,100				
6-21	1400	4.62	6,970					6-27	0600	13.75	64,600
6-21	2000	5.12	8,720					6-27	2400	13.67	64,000
6-21	2400	5.72	11,100	6-24	0300	13.33	61,000				
				6-24	1400	12.70	55,300				
				6-24	2400	13.08	58,700	6-28	0100	13.65	63,800
6-22	0430	6.28	13,400					6-28	2400	13.02	58,200
6-22	1100	6.63	15,200								
6-22	1800	6.70	15,500	6-25	0700	14.50	72,000				
6-22	2200	7.48	19,400	6-25	1400	15.50	82,000	6-29	0100	12.98	57,800
6-22	2400	8.62	25,200	6-25	2330	15.84	85,400	6-29	2400	12.36	52,200
				6-25	2400	15.82	85,200				
6-23	0100	8.96	27,300					6-30	0100	12.33	52,000
6-23	0600	13.07	58,600	6-26	0700	15.03	77,300	6-30	2400	11.58	45,600
6-23	1000	14.90	76,000	6-26	2400	14.08	67,800				
6-23	1400	15.41	81,100								

(736) 03026400 RICHEY RUN AT EMLENTON, PA.

(Crest-stage station)

LOCATION.--Lat 41°10'53", long 79°41'25", Clarion County, at highway bridge 1 mile east of Emlenton, and 1.2 miles above mouth.

DRAINAGE AREA.--5.88 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,110 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements at 205 cfs and by slope-area measurement at 509 cfs.

MAXIMUMS.--June-July 1972: Discharge, 521 cfs June 23 (gage height, 3.40 ft).
1963 to May 1972: Discharge, 509 cfs Mar. 6, 1963, Mar. 10, 1964, and Feb. 11, 1966 (gage height, 3.35 ft).

(737) 03026500 SEVENMILE RUN NEAR RASSELAS, PA.

LOCATION.--Lat 41°37'52", long 78°34'37", McKean County, on right bank 300 ft upstream from highway bridge, 600 ft upstream from Fivemile Run, and 3.2 miles northeast of Rasselas.

DRAINAGE AREA.--7.84 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,690.73 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 600 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 976 cfs 0745 hours June 21 (gage height, 4.84 ft).
1952 to May 1972: Discharge, 1,620 cfs Sept. 28, 1967 (gage height, 4.79 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6.2	32	11...	3.8	12	21...	371	5.1
2....	5.6	25	12...	3.4	10	22...	396	4.1
3....	7.2	25	13...	3.9	9.0	23...	324	4.1
4....	7.9	22	14...	3.6	10	24...	142	4.8
5....	6.3	19	15...	3.7	11	25...	102	3.3
6....	5.4	21	16...	19	9.7	26...	75	3.0
7....	4.9	16	17...	10	8.7	27...	49	2.6
8....	4.1	13	18...	8.5	7.1	28...	33	2.4
9....	4.0	12	19...	7.7	6.5	29...	52	2.1
10...	4.9	15	20...	7.0	5.8	30...	45	1.9
						31...		1.9
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							57	10
RUNOFF,IN INCHES.....							8.14	1.54

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.29	16								
6-21	0130	2.60	32	6-22	0800	3.95	227	6-24	0015	3.76	182
6-21	0200	2.90	55	6-22	1530	4.42	432	6-24	1515	3.51	131
6-21	0230	3.31	99	6-22	2000	4.72	772	6-24	2400	3.51	131
6-21	0415	4.40	415	6-22	2130	4.72	772				
6-21	0515	4.67	700	6-22	2245	4.62	632				
6-21	0600	4.62	632	6-22	2400	4.54	542	6-25	0045	3.52	133
6-21	0730	4.78	868					6-25	1545	3.24	89
6-21	0745	4.84	976					6-25	2400	3.30	97
6-21	0800	4.82	938	6-23	0015	4.53	532				
6-21	1045	4.49	492	6-23	0615	4.40	415				
6-21	1530	4.20	305	6-23	1915	3.91	217	6-26	0015	3.30	97
6-21	2400	4.07	259	6-23	2400	3.76	182	6-26	2400	2.95	60

(738) 03027000 EAST BRANCH CLARION RIVER LAKE AT EAST BRANCH CLARION RIVER DAM, PA.

LOCATION.--Lat 41°33'35", long 78°35'40", Elk County, at control tower at East Branch Clarion River Dam on East Branch Clarion River, 1.7 miles northeast of Glen Hazel, and 7.5 miles upstream from confluence with West Branch Clarion River.

DRAINAGE AREA.--72.4 sq mi (computed by Corps of Engineers).

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (Corps of Engineers bench mark).

CONTENTS RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 7,230 cfs 1930 hours June 22; contents, 85,010 acre-ft 1800 hours June 24 (elevation, 1,685.55 ft).
1952 to May 1972: Contents, 73,230 acre-ft May 15, 1956 (elevation, 1,676.58 ft).

REMARKS.--Reservoir is formed by an earthfill dam, rock-faced. Dam completed in 1952. Controlled storage began in June 1952. Capacity, 83,300 acre-ft between elevations, 1,555 ft (sill of outlet gates) and 1,685 ft (full pool). Minimum pool elevation, 1,555 ft (capacity, 1,000 acre-ft). Reservoir is used for flood control, for low-flow augmentation of Clarion River and downstream rivers, and for recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers, Pittsburgh.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,670.67	66,090	1,679.50	76,940	16	1,670.39	65,760	1,663.19	57,710
2	1,670.70	66,120	1,677.88	74,870	17	1,670.38	65,750	1,663.19	57,710
3	1,670.72	66,150	1,676.32	72,910	18	1,670.31	65,670	1,663.11	57,630
4	1,670.90	66,360	1,674.59	70,770	19	1,670.27	65,620	1,662.99	57,500
5	1,670.91	66,370	1,672.90	68,730	20	1,670.33	65,690	1,662.85	57,350
6	1,670.90	66,360	1,671.20	66,710	21	1,674.82	71,060	1,662.69	57,180
7	1,670.89	66,350	1,669.42	64,640	22	1,680.50	78,240	1,662.51	56,990
8	1,670.80	66,240	1,667.53	62,480	23	1,684.73	83,890	1,662.33	56,800
9	1,670.73	66,160	1,666.00	60,770	24	1,685.42	84,830	1,662.18	56,640
10	1,670.64	66,050	1,665.09	59,770	25	1,684.94	84,180	1,661.97	56,410
11	1,670.50	65,890	1,664.32	58,930	26	1,684.20	83,170	1,661.71	56,140
12	1,670.39	65,760	1,663.70	58,260	27	1,683.61	82,370	1,661.44	55,860
13	1,670.30	65,660	1,663.20	57,720	28	1,682.66	81,090	1,661.18	55,580
14	1,670.20	65,540	1,663.03	57,540	29	1,682.00	80,210	1,660.90	55,290
15	1,670.18	65,520	1,663.11	57,630	30	1,681.02	78,920	1,660.57	54,950
					31			1,660.25	54,610
Change in contents.....							+12,850		-24,310

(739) 03027500 EAST BRANCH CLARION RIVER AT EAST BRANCH CLARION RIVER DAM, PA.

LOCATION.--Lat 41°33'11", long 78°35'47", Elk County, on left bank 700 ft upstream from Middle Fork, 0.5 mile downstream from East Branch Clarion River Dam, and 1.2 miles northeast of Glen Hazel.

DRAINAGE AREA.--73.2 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,517.58 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,810 cfs 1630 hours June 24 (gage height, 6.03 ft).
1949 to May 1972: Discharge, 2,590 cfs May 10, 1957 (gage height, 7.25 ft).
Flood of May 28, 1946, reached a stage of 8.3 ft, based on graph of gage readings at site 1,000 ft downstream at different datum (discharge, 4,000 cfs).

REMARKS.--Flow completely regulated since June 1952 by East Branch Clarion River Lake 0.5 mile upstream (see station 03027000).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.17	120	6-22	2330	9.64	4,900				
6-21	0130	2.64	220	6-22	2400	9.59	4,850	6-25	0030	4.74	1,110
6-21	0230	3.60	560					6-25	1930	4.21	845
6-21	0730	6.76	2,310					6-25	2400	4.26	870
6-21	0930	7.14	2,590	6-23	0030	9.61	4,870				
6-21	1100	6.86	2,380	6-23	1330	7.04	2,510				
6-21	1600	5.44	1,460	6-23	2400	5.70	1,620	6-26	0030	4.24	860
6-21	2030	6.30	1,990					6-26	2400	3.59	556
6-21	2400	5.93	1,760								
				6-24	0030	5.65	1,590				
				6-24	1830	4.78	1,130	6-27	0030	3.58	552
6-22	0930	5.51	1,510	6-24	2400	4.75	1,120	6-27	2400	3.12	372
6-22	1730	7.47	2,860								

(741) 03028500 CLARION RIVER AT JOHNSONBURG, PA.

LOCATION.--Lat 41°29'10", long 78°40'43", Elk County, on right bank at downstream side of highway bridge in Johnsonburg, 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-HEIGHT RECORD.--Water-stage-recorder graph except June 5-22 and July 10-25 (fragmentary), for which graph reconstructed on basis of daily telemark readings of gage height. Datum of gage is 1,422.98 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,800 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 11,600 cfs 2330 hours June 22 (gage height, 9.94 ft).
1946 to May 1972: Discharge, 11,700 cfs May 28, 1946 (gage height, 9.2 ft, from graph based on gage readings).
Flood in July 1942 reached a stage of 16.7 ft, from floodmark.

REMARKS.--Flow regulated since June 1952 by East Branch Clarion River Lake, 7.9 miles upstream (see station 03027000).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	143	2,030	11...	180	902	21...	4,080	302
2....	146	1,880	12...	172	800	22...	5,300	274
3....	182	1,950	13...	180	662	23...	6,920	280
4....	146	1,780	14...	184	458	24...	3,380	291
5....	160	1,810	15...	265	313	25...	3,350	264
6....	153	1,780	16...	535	305	26...	2,820	249
7....	143	1,710	17...	300	277	27...	2,090	252
8....	140	1,650	18...	264	249	28...	1,840	246
9....	180	1,440	19...	248	402	29...	1,940	234
10...	196	1,080	20...	838	354	30...	1,920	234
						31...		246
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,280	797
RUNOFF, IN INCHES.....							7.00	4.50

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0700	2.17	228	6-23	0600	8.96	8,760	6-27	1300	5.07	2,370
6-20	1000	2.30	280	6-23	1800	7.10	4,700	6-27	1500	4.25	1,600
6-20	1400	3.05	690	6-23	2400	6.32	3,740	6-27	1800	3.76	1,210
6-20	2000	4.39	1,790					6-27	2200	4.57	1,890
6-20	2400	5.14	2,550					6-27	2400	4.56	1,880
				6-24	1100	5.62	2,920				
				6-24	2000	6.38	3,820				
6-21	0600	6.17	3,810	6-24	2400	6.33	3,760	6-28	1100	4.44	1,780
6-21	1200	6.98	5,030					6-28	1300	4.58	1,900
6-21	2400	5.88	3,430					6-28	2400	4.46	1,790
				6-25	0100	6.34	3,770				
				6-25	1700	5.80	3,120				
6-22	0330	5.74	3,050	6-25	2400	5.78	3,100	6-29	1000	4.46	1,790
6-22	1100	6.20	3,600					6-29	1600	4.97	2,270
6-22	1600	7.22	4,870					6-29	1800	4.62	1,940
6-22	2000	9.10	9,100	6-26	1000	5.52	2,820	6-29	2400	4.58	1,900
6-22	2330	9.94	11,600	6-26	1200	5.56	2,860				
6-22	2400	9.93	11,600	6-26	2400	5.25	2,550				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	50	1,470	11...	105	575	21...	111	138
2....	50	1,460	12...	105	482	22...	113	138
3....	50	1,460	13...	105	384	23...	113	138
4....	50	1,450	14...	105	202	24...	1,000	138
5....	56	1,440	15...	105	74	25...	1,600	138
6....	62	1,430	16...	105	74	26...	1,510	157
7....	62	1,420	17...	108	73	27...	1,080	173
8....	84	1,400	18...	111	106	28...	1,210	173
9....	105	1,140	19...	111	140	29...	1,120	171
10...	105	752	20...	110	140	30...	1,200	180
						31...		190
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							360	561
RUNOFF, IN INCHES							5.49	8.84

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.03	111	6-24	0900	4.73	940	6-27	1200	5.40	1,420
6-21	2400	3.30	111	6-24	1245	4.83	1,080	6-27	1230	4.05	615
				6-24	1330	5.72	1,610	6-27	1345	4.03	605
				6-24	1600	5.72	1,610	6-27	1430	2.95	240
6-22	0900	4.44	111	6-24	1630	6.03	1,810	6-27	1715	2.91	230
6-22	2400	3.52	111	6-24	2400	5.90	1,720	6-27	1800	3.61	420
								6-27	1930	3.63	425
								6-27	2000	4.84	1,080
								6-27	2400	4.88	1,110
6-23	2400	3.13	113	6-25	0600	5.77	1,640				
				6-25	2400	5.60	1,540				
								6-28	1000	4.87	1,100
6-24	0200	3.11	113					6-28	1100	5.17	1,280
6-24	0745	3.78	340					6-28	2400	5.15	1,270
				6-26	2400	5.50	1,480				

(740) 03028000 WEST BRANCH CLARION RIVER AT WILCOX, PA.

LOCATION.--Lat 41°34'31", long 78°41'33", Elk County, on right bank 20 ft downstream from highway bridge at Wilcox, 100 ft downstream from Wilson Run, and 0.1 mile upstream from Penn Central Railroad bridge.

DRAINAGE AREA.--63.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,502.02 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 4,900 cfs 2330 hours June 22 (gage height, 9.64 ft).
1954 to May 1972: Discharge, 5,490 cfs Sept. 28, 1967 (gage height, 10.01 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	52	302	11...	33	114	21...	1,690	47
2....	49	233	12...	32	95	22...	2,430	41
3....	53	233	13...	41	85	23...	2,870	39
4....	79	188	14...	36	89	24...	1,270	45
5....	52	179	15...	42	85	25...	930	37
6....	43	192	16...	148	89	26...	690	33
7....	41	156	17...	66	76	27...	464	31
8....	37	140	18...	55	61	28...	313	29
9....	38	132	19...	50	56	29...	416	27
10...	39	142	20...	49	52	30...	393	25
						31...		25
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							417	99
RUNOFF, IN INCHES							7.38	1.82

(742) 03029000 CLARION RIVER AT RIDGWAY, PA.

LOCATION.--Lat 41°25'15", long 78°44'10", on right bank at downstream side of bridge on State Highway 948 in Ridgway, Elk County, 50 ft downstream from Elk Creek.

DRAINAGE AREA.--303 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph (furnished by Corps of Engineers, Pittsburgh). Datum of gage is 1,361.62 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Peak discharge only; stage-discharge relation defined by current-meter measurements below 12,000 cfs and extended above by logarithmic plotting. Prior to 1954, rating curve extended above 13,000 cfs on basis of slope-area measurement at 34,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 19,000 cfs 0030 hours June 23 (gage height, 19.49 ft).
1941 to May 1972: Discharge, 34,000 cfs July 19, 1942 (gage height, 16.4 ft, from floodmark).

REMARKS.--Flow regulated since 1952 by East Branch Clarion River Lake (see station 03027000).

COOPERATION.--Recorder graph furnished by Corps of Engineers, Pittsburgh.

(743) 03029200 CLEAR CREEK NEAR SIGEL, PA.

(Crest-stage station)

LOCATION.--Lat 41°19'17", long 79°04'39", Jefferson County, at bridge on State Highway 949 in Clear Creek State Park, 1,500 ft above Phyllis Run, and 4 miles northeast of Sigel.

DRAINAGE AREA.--8.67 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Altitude of gage is 1,320 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 470 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 871 cfs June 22 (gage height, 7.57 ft).
1960 to May 1972: Discharge, 766 cfs Mar. 10, 1964 (gage height, 7.22 ft).

(744) 03029400 TOMS RUN AT COOKSBURG, PA.

LOCATION.--Lat 41°20'16", long 79°12'50", Clarion County, on right bank about 100 ft downstream from footbridge on Longfellow Trail, Cook Forest State Park, 0.6 mile upstream from mouth, and half a mile northwest of Cooksburg.

DRAINAGE AREA.--12.6 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,180.50 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 185 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 532 cfs 2215 hours June 22 (gage height, 3.65 ft).
1960 to May 1972: Discharge, 656 cfs March 10, 1964 (gage height, 4.17 ft); maximum gage height, 4.37 ft March 5, 1964 (ice jam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	10	34	11...	29	30	21...	246	4.7
2....	10	24	12...	22	24	22...	266	3.8
3....	12	34	13...	53	18	23...	358	2.9
4....	24	38	14...	41	14	24...	193	6.0
5....	19	22	15...	49	9.5	25...	193	8.1
6....	13	32	16...	70	22	26...	157	3.8
7....	9.4	30	17...	46	17	27...	110	2.9
8....	8.2	30	18...	38	11	28...	77	2.6
9....	45	39	19...	32	8.1	29...	55	2.2
10...	47	41	20...	38	6.7	30...	47	1.7
						31...		1.4
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							77	17
RUNOFF, IN INCHES							6.84	1.55

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.72	28	6-22	1000	2.35	168	6-24	0800	2.42	188
6-20	1800	1.73	29	6-22	1600	2.60	238	6-24	1600	2.47	202
6-20	2000	1.79	38	6-22	2000	3.30	434	6-24	2400	2.44	193
6-20	2200	1.91	59	6-22	2215	3.65	532				
6-20	2400	2.42	188	6-22	2400	3.62	524				
								6-25	1400	2.35	168
								6-25	2215	2.61	241
6-21	0215	3.21	409	6-23	0600	3.28	428	6-25	2400	2.58	232
6-21	1400	2.33	162	6-23	0800	3.35	448				
6-21	1800	2.61	241	6-23	2400	2.52	216				
6-21	2000	2.64	249					6-26	0100	2.50	210
6-21	2400	2.52	216					6-26	2400	2.19	128

(745) 03029500 CLARION RIVER AT COOKSBURG, PA.

LOCATION.--Lat 41°19'50", long 79°12'23", Jefferson County, on left bank at downstream side of bridge on State Highway 36 at Cooksburg, 300 ft downstream from Toms Run, and 2.7 miles upstream from Cather Run.

DRAINAGE AREA.--807 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals. Datum of gage is 1,146.48 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 53,300 cfs 1100 hours June 23 (gage height, 18.84 ft). 1935 to May 1972: Discharge, about 56,000 cfs Mar. 17, 1936 (gage height, 19 ft, from floodmarks).

REMARKS.--Flow regulated since 1952 by East Branch Clarion River Lake (see station 03027000).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	724	5,560	11...	634	3,430	21...	9,350	973
2....	585	4,580	12...	527	2,630	22...	19,500	826
3....	562	4,360	13...	612	2,110	23...	43,200	735
4....	578	5,540	14...	868	1,770	24...	17,800	819
5....	937	4,120	15...	716	1,580	25...	13,900	770
6....	657	5,260	16...	1,680	1,470	26...	12,200	693
7....	548	4,650	17...	1,990	1,480	27...	8,930	618
8....	496	3,860	18...	1,300	1,190	28...	5,840	582
9....	503	3,530	19...	1,070	988	29...	4,940	545
10...	673	4,430	20...	931	1,030	30...	6,970	507
						31...		484
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							5,310	2,290
RUNOFF,IN INCHES.....							7.34	3.28

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	3.90	1,500	6-23	2400	13.31	25,500	6-27	2400	7.61	7,280
6-21	0300	4.86	2,530								
6-21	0800	7.42	6,940								
6-21	1200	8.82	10,300	6-24	0100	12.99	24,300	6-28	0100	7.53	7,110
6-21	2400	11.18	17,300	6-24	1200	10.74	16,000	6-28	1000	6.87	5,720
				6-24	2400	10.17	14,300	6-28	2400	6.59	5,160
6-22	1200	10.46	15,200								
6-22	1800	12.78	23,400	6-25	0500	10.19	14,400	6-29	1900	6.43	4,870
6-22	2100	14.57	32,200	6-25	2400	9.77	13,100	6-29	2400	7.07	6,120
6-22	2200	15.19	35,200								
6-22	2400	16.13	40,000								
				6-26	0100	9.76	13,100	6-30	0700	7.90	7,950
				6-26	2400	8.92	10,600	6-30	0900	7.86	7,850
6-23	0100	16.63	41,500					6-30	2400	6.88	5,740
6-23	1000	18.67	52,300								
6-23	1100	18.84	53,300	6-27	0100	8.85	10,400				

(747) 03031500 ALLEGHENY RIVER AT PARKER, PA.

(Formerly published as Allegheny River at Parkers Landing)

LOCATION.--Lat 41°06'02", long 79°40'53", Armstrong County, on right bank 500 ft downstream from bridge on State Highway 368 at Parker, 1.1 miles downstream from Clarion River, and at mile 83.4.

DRAINAGE AREA.--7,671 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 845.14 ft above mean sea level, adjustment of 1907.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 125,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 147,000 cfs 1500 hours June 23 (gage height, 22.23 ft). 1865 to May 1972: Discharge, 250,000 cfs Mar. 17, 1865 (gage height, 29.4 ft); maximum gage height, 29.60 ft Jan. 21, 1959 (backwater from ice).

REMARKS.--Flow regulated by four major reservoirs (combined capacity, 1,426,600 acre-ft) and by Chautauqua Lake.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6,630	52,300	11...	6,180	44,800	21...	19,300	10,500
2....	6,640	48,600	12...	5,570	40,300	22...	38,500	10,100
3....	6,070	57,100	13...	8,140	37,800	23...	118,000	6,890
4....	5,600	57,700	14...	10,800	29,700	24...	95,000	6,890
5....	5,750	51,100	15...	7,580	19,500	25...	92,300	6,760
6....	6,120	52,000	16...	14,100	13,700	26...	95,900	6,340
7....	5,470	49,600	17...	14,100	14,600	27...	78,300	5,530
8....	5,430	45,300	18...	11,900	12,900	28...	70,400	5,160
9....	5,420	41,800	19...	10,300	13,400	29...	64,100	4,420
10...	7,080	44,000	20...	8,780	11,900	30...	58,500	3,840
						31...		4,180
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							29,600	26,100
RUNOFF,IN INCHES.....							4.31	3.92

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	4.08	10,100								
6-21	0630	3.81	9,040	6-24	0030	19.48	123,000	6-28	0100	13.59	73,700
6-21	0730	4.08	10,100	6-24	1630	15.14	86,100	6-28	2400	12.75	67,000
6-21	1000	6.36	21,200	6-24	2400	14.71	82,700				
6-21	2000	7.57	28,400								
6-21	2400	8.19	32,300					6-29	0030	12.74	66,900
				6-25	2400	17.07	102,000	6-29	2400	12.12	62,000
6-22	2030	9.65	42,600								
6-22	2400	11.88	60,000	6-26	0330	17.22	103,000	6-30	0030	12.10	61,800
				6-26	2400	15.06	85,500	6-30	2400	11.19	54,500
6-23	1500	22.23	147,000								
6-23	1530	22.10	146,000	6-27	0030	15.00	85,000	7-01	0030	11.18	54,400
6-23	2400	19.63	124,000	6-27	2400	13.60	73,800	7-01	2400	10.63	50,000

(748) 03031780 MILL CREEK NEAR BROCKWAY, PA.

(Crest-stage station)

LOCATION.--Lat 41°14'53", long 78°50'08", Jefferson County, at culvert on State Highway 28, and 2 miles west of Brockway.

DRAINAGE AREA.--2.12 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,650 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and by computation of flow through culvert at 235 cfs.

MAXIMUMS.--June-July 1972: Discharge, 235 cfs June 22 (gage height, 6.15 ft). 1965 to May 1972: Discharge, 306 cfs Feb. 13, 1966 (gage height, 6.43 ft).

(746) 03030500 CLARION RIVER NEAR PINEY, PA.

LOCATION.--Lat 41°11'33", long 79°26'25", Clarion County, on left bank 0.2 mile downstream from hydroelectric plant of Pennsylvania Electric Co., 2.3 miles northeast of Piney, 2.4 miles upstream from Piney Creek, and 3 miles southwest of Clarion.

DRAINAGE AREA.--951 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1015 hours June 23 to July 7. Datum of gage is 1,002.06 ft above mean sea level (Pennsylvania Electric Co. bench mark.) Prior to Dec. 23, 1947, records from hydroelectric plant 0.2 mile upstream.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 17,000 cfs and by slope-area measurement at 44,300 cfs. Record for period of missing gage-height record based on correlation with records for Clarion River at Cooksburg (station 03029500), and daily discharge at Piney Dam.

MAXIMUMS.--June-July 1972: Discharge, 74,500 cfs about 1100 hours June 23 (gage height, 28.24 ft, from floodmark).
1935 to May 1972: Discharge, 50,000 cfs March 18, 1936, as determined by Pennsylvania Electric Co. (elevation, 1,028.5 ft, at lower pool of dam).

REMARKS.--Flow regulated since 1952 by East Branch Clarion River Lake (see station 03027000) and since 1924 by hydroelectric plant at Piney Dam 0.2 mile upstream (combined capacity of reservoirs, 113,200 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	947	5,230	11...	238	4,480	21...	11,500	1,930
2....	1,410	4,570	12...	1,030	2,670	22...	22,000	1,030
3....	400	4,300	13...	1,690	2,440	23...	51,600	104
4....	36	5,100	14...	1,260	2,470	24...	21,600	1,560
5....	1,320	4,200	15...	1,540	1,750	25...	17,600	1,910
6....	784	4,900	16...	2,650	1,300	26...	14,100	883
7....	778	4,700	17...	2,450	2,020	27...	9,800	960
8....	772	4,450	18...	1,840	1,490	28...	6,800	1,000
9....	778	3,630	19...	1,480	1,270	29...	6,400	64
10...	1,140	4,410	20...	1,390	1,330	30...	5,300	41
						31...		1,170
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							6,350	2,500
RUNOFF,IN INCHES.....							7.45	3.03

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.11	259	6-22	1800	14.45	22,200	6-25	2400	-	16,000
6-21	0045	2.70	530	6-22	2245	20.14	42,100				
6-21	0130	2.85	610	6-22	2345	22.38	51,000				
6-21	0145	5.60	3,450	6-22	2400	22.35	50,900	6-26	2400	-	12,000
6-21	0300	7.18	5,860								
6-21	0400	7.29	6,060								
6-21	0645	9.26	9,920	6-23	0030	21.99	49,500	6-27	2400	-	8,000
6-21	0900	9.77	10,900	6-23	0630	25.03	61,600				
6-21	1415	9.76	10,900	6-23	1100	28.24	74,500				
6-21	1545	11.81	15,300	6-23	1800		49,000	6-28	1000	-	6,900
6-21	1645	11.64	14,900	6-23	2400	-	30,000	6-28	2400	-	6,400
6-21	1815	12.30	16,600								
6-21	2145	14.13	21,200								
6-21	2315	14.33	21,800	6-24	0600	-	23,000	6-29	2400	-	6,100
6-21	2400	14.31	21,700	6-24	2400	-	19,000				
								6-30	1200	-	5,200
6-22	0515	13.75	20,100					6-30	2400	-	5,400
6-22	1400	12.23	16,400								

(749) 03031950 BIG RUN NEAR SPRANKLE MILLS, PA.

LOCATION.--Lat 40°59'30", long 79°05'26", Jefferson County, on right bank at downstream side of highway bridge, 0.5 mile downstream from McCracken Run, and 1.3 miles southeast of Sprankle Mills.

DRAINAGE AREA.--7.38 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,290 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 854 cfs 2345 hours June 22 (gage height, 6.11 ft).
1964 to May 1972: Discharge, 822 cfs Feb. 13, 1966 (gage height, 6.23 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3.5	19	11...	3.5	13	21...	44	4.3
2....	3.5	16	12...	2.9	9.9	22...	189	3.9
3....	5.5	25	13...	54	8.8	23...	460	3.9
4....	3.9	19	14...	17	7.8	24...	143	8.3
5....	3.2	20	15...	12	6.8	25...	157	3.9
6....	2.6	37	16...	17	7.8	26...	154	3.2
7....	2.3	24	17...	9.3	6.3	27...	66	3.2
8....	2.0	20	18...	7.8	5.6	28...	38	2.9
9....	6.3	17	19...	6.3	4.7	29...	34	2.6
10...	8.3	16	20...	9.9	4.7	30...	26	2.6
						31...		2.6
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							50	11
RUNOFF,IN INCHES.....							7.52	1.66

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.69	52	6-22	2315	6.06	834	6-24	2400	3.44	138
6-21	0445	2.66	49	6-22	2345	6.11	854				
6-21	0830	2.47	34	6-22	2400	6.07	838				
6-21	1645	2.39	27					6-25	0530	3.53	150
6-21	1800	2.41	29					6-25	0930	3.49	145
6-21	1830	2.51	37	6-23	0015	6.06	834	6-25	1515	3.48	143
6-21	1945	2.94	76	6-23	0645	5.92	778	6-25	1915	3.68	172
6-21	2015	2.94	76	6-23	1300	4.74	362	6-25	2230	3.75	183
6-21	2400	2.79	61	6-23	1415	4.30	270	6-25	2400	4.30	270
				6-23	2030	3.63	165				
				6-23	2400	3.45	139				
6-22	0645	2.61	45					6-26	0100	4.82	386
6-22	1115	2.65	49					6-26	0245	4.27	264
6-22	1415	2.67	50	6-24	0715	3.42	135	6-26	0645	3.67	171
6-22	1545	2.98	81	6-24	1400	3.48	143	6-26	2015	3.17	102
6-22	1730	3.94	211	6-24	1800	3.56	154	6-26	2400	3.08	92
6-22	2030	5.08	464	6-24	1915	3.64	166				

(750) 03032500 REDBANK CREEK AT ST. CHARLES, PA.

LOCATION.--Lat 40°59'40", long 79°23'40", Armstrong County, on left bank 400 ft downstream from highway bridge on Legislative Route 03117 at St. Charles, 0.3 mile downstream from Leatherwood Creek, and 3 miles west of New Bethlehem.

DRAINAGE AREA.--528 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 0500 to 1400 hours June 23, for which graph was constructed on basis of high-water mark and one gage reading. Datum of gage is 973.14 ft above mean sea level, datum of 1912. Prior to July 10, 1940, at site 500 ft upstream at datum 3.10 ft higher.

DISCHARGE RECORD.--State-discharge relation defined by current-meter measurements below 10,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 32,800 cfs about 0930 hours June 23 (gage height, 17.75 ft, from high-water mark in gage well).
1919 to May 1972: Discharge, 50,000 cfs (revised) March 18, 1936 (gage height, 18.60 ft, from floodmarks, site and datum then in use).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	333	2,450	11...	1,330	1,110	21...	5,750	472
2....	294	1,810	12...	904	904	22...	7,360	404
3....	342	1,500	13...	1,430	742	23...	26,400	348
4....	327	1,430	14...	2,170	630	24...	15,100	620
5....	380	1,220	15...	1,620	630	25...	11,200	590
6....	400	1,730	16...	3,170	1,240	26...	12,200	500
7....	306	1,830	17...	2,430	1,110	27...	7,000	420
8....	249	1,530	18...	1,720	838	28...	4,510	336
9....	234	1,290	19...	1,280	635	29...	2,990	286
10...	1,290	1,180	20...	1,020	532	30...	2,870	247
						31...		222
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							3,890	929
RUNOFF, IN INCHES.....							8.21	2.03

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	5.42	1,570	6-23	0630	17.3	30,500				
6-21	0230	6.67	2,700	6-23	0930	17.75	32,800				
6-21	0600	8.81	5,620	6-23	1930	15.93	24,200	6-26	0800	12.88	13,800
6-21	1330	9.82	7,210	6-23	2400	14.88	20,100	6-26	2400	10.78	8,900
6-21	1500	9.71	7,040								
6-21	2400	9.14	6,120								
				6-24	0030	14.77	19,700	6-27	0030	10.65	8,670
				6-24	2330	12.43	12,600	6-27	2400	8.80	5,600
6-22	1830	9.56	6,800	6-24	2400	12.40	12,500				
6-22	2230	12.44	12,600								
6-22	2400	13.97	17,000					6-28	0030	8.74	5,510
				6-25	0030	12.31	12,300	6-28	2400	7.42	3,600
				6-25	2400	11.96	11,400				

(751) 03034000 MAHONING CREEK AT PUNXSUTAWNEY, PA.

LOCATION.--Lat 40°56'21", long 79°00'31", Jefferson County, on right bank 75 ft downstream from Williams Run, 1.9 miles downstream from Sawmill Run, and 2 miles west of Punxsutawney.

DRAINAGE AREA.--158 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except June 2-10 (fragmentary) and July 5-6, 17-26. Datum of gage is 1,206.14 ft above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1,1946 at site 2.9 miles upstream at datum 13.30 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,300 cfs and by slope-area measurement at 11,100 cfs. Records for periods of missing gage-height record based on correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 17,300 cfs 1100 hours June 23 (gage height, 15.94 ft, from floodmark).
1939 to May 1972: Discharge, 11,100 cfs March 10, 1964 (gage height, 13.01 ft).
Flood of March 18, 1936 reached a stage of 15.6 ft, at former site and datum (discharge, 12,500 cfs).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	100	630	11...	175	312	21...	334	310
2....	90	478	12...	168	267	22...	1,990	260
3....	100	446	13...	112	237	23...	13,200	230
4....	120	454	14...	553	195	24...	4,460	220
5....	170	360	15...	382	126	25...	3,430	170
6....	120	700	16...	330	120	26...	4,010	140
7....	100	530	17...	279	110	27...	2,210	110
8....	85	466	18...	216	150	28...	1,280	105
9....	75	396	19...	183	450	29...	932	94
10...	65	351	20...	150	380	30...	866	88
						31...		85
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,210	289
RUNOFF, IN INCHES.....							8.54	2.11

(753) 03035500 MAHONING CREEK LAKE AT MAHONING CREEK DAM, PA.

LOCATION.--Lat 40°55'18", long 79°16'41", Armstrong County, at control house at Mahoning Creek Dam on Mahoning Creek, 0.7 mile upstream from Camp Run, 1.5 miles south of Eddyville, and 3 miles upstream from Pine Run.

DRAINAGE AREA.--340 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level, datum of Corps of Engineers, which is 0.64 ft above mean sea level.

CONTENTS RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 23,900 cfs 2330 hours June 23; contents, 69,870 acre-ft 1100 hours June 27 (elevation, 1,160.16 ft).
1942 to May 1972: Contents, 72,580 acre-ft Mar. 11, 1964 (elevation, 1,161.32 ft).

REMARKS.--Reservoir is formed by a concrete gravity dam with a gated spillway. Storage began during construction sometime prior to June 15, 1941. Capacity, 74,100 acre-ft between elevations, 1,015 ft (sill of outlet gates) and 1,162 ft (full pool); dead storage, 100 acre-ft. Minimum pool elevation, 1,075 ft (capacity, 4,480 acre-ft). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers, Pittsburgh.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,082.13	5,820	1,124.13	21,800	16	1,087.58	6,960	1,083.86	6,170
2	1,082.58	5,910	1,103.39	11,170	17	1,084.36	6,270	1,085.51	6,510
3	1,082.68	5,930	1,082.55	5,900	18	1,079.97	5,390	1,084.48	6,300
4	1,082.40	5,870	1,081.25	5,640	19	1,077.39	4,900	1,082.90	5,970
5	1,082.29	5,850	1,084.28	6,250	20	1,077.85	4,990	1,082.16	5,820
6	1,081.90	5,770	1,087.35	6,910	21	1,080.73	5,540	1,080.12	5,420
7	1,080.79	5,550	1,088.39	7,140	22	1,093.50	8,330	1,078.62	5,130
8	1,079.41	5,290	1,086.97	6,820	23	1,141.40	38,750	1,078.41	5,090
9	1,077.84	4,990	1,083.72	6,140	24	1,154.43	57,790	1,078.57	5,120
10	1,077.34	4,890	1,080.80	5,560	25	1,156.91	62,650	1,079.04	5,210
11	1,077.55	4,930	1,080.22	5,440	26	1,158.87	66,910	1,078.47	5,100
12	1,076.47	4,730	1,078.10	5,030	27	1,158.50	66,080	1,077.89	4,990
13	1,078.22	5,060	1,077.82	4,980	28	1,152.96	55,160	1,077.06	4,840
14	1,085.77	6,570	1,079.78	5,360	29	1,145.63	44,330	1,076.28	4,700
15	1,088.20	7,100	1,081.11	5,620	30	1,136.45	32,850	1,076.46	4,730
					31			1,077.41	4,910
Change in contents.....							+27,280		-27,940

(754) 03036000 MAHONING CREEK AT MAHONING CREEK DAM, PA.

LOCATION.--Lat 40°55'39", long 79°17'29", Armstrong County, on left bank at downstream side of highway bridge at McCrea Furnace, 700 ft downstream from Camp Run, 0.9 mile downstream from Mahoning Creek Lake, 1 mile southwest of Eddyville, and 2.1 miles upstream from Pine Run.

DRAINAGE AREA.--344 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,003.39 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 7,820 cfs 1915 hours June 27 (gage height, 7.85 ft).
1939 to May 1972: Discharge, 10,400 cfs March 8, 1942 (gage height, 8.10 ft).

REMARKS.--Flow regulated since 1941 by Mahoning Creek Lake 0.9 mile upstream (see station 03035500).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	88	6,920	11...	284	776	21...	360	540
2....	133	6,420	12...	284	770	22...	405	450
3....	193	4,320	13...	292	535	23...	692	284
4....	240	1,540	14...	300	288	24...	1,800	288
5....	296	788	15...	312	288	25...	5,000	284
6....	296	1,030	16...	499	296	26...	4,850	284
7....	292	1,380	17...	788	415	27...	4,230	280
8....	292	1,370	18...	775	550	28...	7,630	280
9....	288	1,340	19...	540	550	29...	7,460	276
10...	284	1,120	20...	304	545	30...	7,220	155
						31...		75
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,550	1,110
RUNOFF, IN INCHES.....							5.02	3.72

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0400	1.92	201	6-23	1100	15.94	17,300	6-26	0100	7.46	3,900
6-21	1200	2.01	228	6-23	1800	14.08	13,200	6-26	0800	8.33	4,720
6-21	1800	2.24	297	6-23	2400	11.07	7,840	6-26	2400	6.44	2,990
6-21	2000	2.98	570								
6-21	2230	3.67	932								
6-21	2400	3.60	890	6-24	0600	8.46	4,850	6-27	0100	6.34	2,900
				6-24	1200	7.48	3,920	6-27	2400	4.75	1,680
				6-24	2400	4.09	3,570				
6-22	0400	3.30	730								
6-22	0800	3.50	830					6-28	0100	4.69	1,630
6-22	1200	4.02	1,160	6-25	0700	6.83	3,340	6-28	2400	3.71	960
6-22	2400	10.20	6,740	6-25	2200	7.11	3,590				
				6-25	2400	7.34	3,800				
								6-29	1300	3.42	790
6-23	0400	13.51	12,100					6-29	2400	3.77	990

(752) 03034500 LITTLE MAHONING CREEK AT MCCORMICK, PA.

LOCATION.--Lat 40°50'10", long 79°06'37", Indiana County, on left bank 200 ft upstream from highway bridge at McCormick, 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-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,164.88 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,500 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 6,200 cfs 1530 hours June 23 (gage height, 13.20 ft). 1940 to May 1972: Discharge, 5,300 cfs Jan. 27, 1952 (gage height, 11.42 ft); maximum gage height, 13.86 ft Jan. 21, 1959 (ice jam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	32	232	11...	21	153	21...	64	73
2....	24	223	12...	16	115	22...	305	57
3....	35	613	13...	136	95	23...	4,620	47
4....	31	452	14...	120	78	24...	2,360	46
5....	67	341	15...	68	66	25...	2,190	39
6....	37	393	16...	47	142	26...	1,460	30
7....	26	431	17...	38	120	27...	788	27
8....	21	308	18...	29	83	28...	458	29
9....	18	238	19...	25	114	29...	340	23
10...	22	193	20...	22	106	30...	330	19
						31...		18
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							458	158
RUNOFF,IN INCHES.....							5.85	2.09

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.67	28	6-22	2400	7.25	1,560				
6-21	0630	1.86	44					6-25	0500	9.04	2,540
6-21	0830	2.02	60					6-25	1500	8.32	2,110
6-21	1400	2.14	74	6-23	0800	11.16	4,160	6-25	2400	7.57	1,690
6-21	2230	2.21	82	6-23	1530	13.20	6,200				
6-21	2400	2.33	98	6-23	2400	11.35	4,350				
								6-26	0100	7.56	1,680
								6-26	2000	6.38	1,210
6-22	0600	2.69	149	6-24	0030	11.04	4,040	6-26	2400	6.01	1,060
6-22	1430	2.71	152	6-24	0800	8.52	2,230				
6-22	1700	3.02	214	6-24	1530	7.92	1,870				
6-22	2000	3.71	368	6-24	2400	8.82	2,410	6-27	0030	5.97	1,050
6-22	2200	4.96	708					6-27	2400	4.55	585

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
				6-24	1715	5.91	3,350	6-27	0930	4.79	1,950
6-21	0015	3.08	550	6-24	2015	5.92	3,360	6-27	0945	6.37	4,270
6-21	0400	2.74	380	6-24	2100	6.42	4,380	6-27	1615	6.49	4,540
6-21	2400	2.64	336	6-24	2400	6.45	4,450	6-27	1630	7.55	7,070
								6-27	1915	7.85	7,820
								6-27	2400	7.82	7,740
6-22	1715	2.71	365	6-25	1215	6.55	4,670				
6-22	2145	3.11	566	6-25	1315	6.94	5,540				
6-22	2400	3.57	849	6-25	2400	6.94	5,540	6-28	0200	7.81	7,720
								6-28	2400	7.76	7,590
6-23	0045	3.58	856	6-26	0615	6.94	5,540				
6-23	1945	3.19	614	6-26	1915	6.93	5,520	6-29	0015	7.75	7,570
6-23	2400	3.14	584	6-26	1930	6.44	4,430	6-29	2400	7.66	7,340
				6-26	1945	5.13	2,320				
				6-26	2015	4.35	1,500				
6-24	1215	3.09	555	6-26	2300	4.08	1,250	6-30	0015	7.67	7,370
6-24	1230	3.47	782	6-26	2400	4.07	1,240	6-30	2400	7.56	7,050
6-24	1300	4.36	1,510								
6-24	1615	4.45	1,600								
6-24	1630	5.48	2,740	6-27	0915	4.05	1,230				

(755) 03036500 ALLEGHENY RIVER AT KITTANNING, PA.

LOCATION.--Lat 40°49'13", long 79°31'54", Armstrong County, on right bank 600 ft upstream from dam at lock 7 at Kittanning, 5.7 miles upstream from Crooked Creek, 9.7 miles downstream from Mahoning Creek, and at mile 45.8.

DRAINAGE AREA.--8,973 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 771.32 ft above mean sea level, adjustment of 1912. Prior to Sept. 30, 1928, at site 4,000 ft downstream at different datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 184,000 cfs 1830 hours June 23 (gage height, 25.42 ft). 1806 to May 1972: Discharge, 269,000 cfs March 26, 1913 (gage height, 30.7 ft, site and datum then in use).

REMARKS.--Flow regulated by five major reservoirs (combined capacity, 1,500,700 acre-ft) and by Chautauqua Lake.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6,910	61,300	11...	8,610	46,500	21...	23,400	11,500
2....	6,870	56,300	12...	6,290	41,700	22...	45,600	11,400
3....	7,520	59,500	13...	8,070	39,000	23...	144,000	9,160
4....	6,520	60,400	14...	14,100	33,200	24...	126,000	7,060
5....	5,900	53,000	15...	10,100	22,700	25...	106,000	8,120
6....	6,940	53,500	16...	15,300	16,600	26...	119,000	7,710
7....	6,150	52,800	17...	19,000	16,200	27...	88,700	6,320
8....	5,800	48,700	18...	15,000	14,500	28...	80,900	5,900
9....	5,690	44,400	19...	12,500	14,700	29...	73,100	5,450
10...	7,420	44,800	20...	10,500	13,700	30...	67,900	4,220
						31...		3,820
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							35,300	28,200
RUNOFF,IN INCHES.....							4.39	3.62

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	13.23	11,800								
6-21	0830	14.06	19,300	6-24	0015	24.55	172,000	6-27	0015	19.92	101,000
6-21	1345	14.40	22,900	6-24	1930	20.01	102,000	6-27	2400	18.98	85,700
6-21	2115	15.31	33,100	6-24	2400	19.86	99,800				
6-21	2400	15.43	34,600					6-28	0015	18.99	85,800
								6-28	2400	18.43	76,900
				6-25	2330	21.13	120,000				
6-22	2330	17.19	58,200	6-25	2400	21.11	120,000				
6-22	2400	17.37	60,800					6-29	0015	18.44	77,000
								6-29	2400	18.05	70,900
				6-26	0815	21.69	129,000				
6-23	1515	24.77	175,000	6-26	1745	20.63	112,000				
6-23	1830	25.42	184,000	6-26	2400	19.95	101,000	6-30	0015	18.07	71,200
6-23	2400	24.61	173,000					6-30	2400	17.69	65,500

(756) 03038000 CROOKED CREEK AT IDAHO, PA.

LOCATION.--Lat 40°39'17", long 79°20'56", Armstrong County, on right bank 0.4 mile downstream from Keystone Generating Station, at old bridge abutment, at Idaho, 1.5 miles downstream from Plum Creek, and 2.4 miles west of Shelocta.

DRAINAGE AREA.--191 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 961.04 ft above mean sea level (Baltimore and Ohio Railroad bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,800 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 13,200 cfs 1730 hours June 23 (gage height, 15.93 ft). 1936 to May 1972: Discharge, 19,400 cfs March 18, 1936 (gage height, 18.6 ft, from floodmark).

REMARKS.--Flow regulated since March 1968 by Plum Creek Reservoir 7 miles upstream (usable capacity, 22,010 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	68	586	11...	70	220	21...	502	160
2....	54	430	12...	68	165	22...	1,570	150
3....	245	448	13...	154	140	23...	9,800	114
4....	182	478	14...	190	127	24...	7,030	225
5....	275	406	15...	111	109	25...	4,700	150
6....	132	490	16...	96	328	26...	2,710	127
7....	100	544	17...	85	260	27...	1,380	109
8....	72	412	18...	68	167	28...	831	111
9....	60	322	19...	54	167	29...	658	80
10...	98	265	20...	54	198	30...	740	67
						31...		65
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,070	246
RUNOFF,IN INCHES							6.26	1.48

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.86	127								
6-21	0200	3.07	198	6-23	1130	14.37	10,200				
6-21	0530	3.63	508	6-23	1730	15.93	13,200	6-26	0030	7.57	3,550
6-21	1100	3.72	562	6-23	2000	15.77	12,800	6-26	2400	5.49	1,840
6-21	1500	3.82	622	6-23	2400	14.80	10,900				
6-21	2030	3.72	562								
6-21	2400	3.75	580					6-27	0030	5.45	1,810
				6-24	0030	14.65	10,700	6-27	2400	4.40	1,020
				6-24	1600	10.44	5,700				
6-22	0630	4.22	894	6-24	2400	10.00	5,300				
6-22	1730	5.11	1,540					6-28	0030	4.39	1,010
6-22	2100	6.47	2,670					6-28	2400	3.86	646
6-22	2400	9.46	4,870	6-25	0030	9.99	5,290				
				6-25	2400	7.65	3,610				

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.13	72	6-24	1215	2.14	374	6-26	1945	5.59	2,300
6-21	0745	1.09	66	6-24	1245	3.48	940	6-26	2000	4.29	1,390
6-21	0845	1.17	78	6-24	1615	3.82	1,110	6-26	2015	3.84	1,110
6-21	0915	1.21	85	6-24	1645	4.79	1,760	6-26	2400	3.71	1,050
6-21	0930	1.72	218	6-24	2015	4.85	1,800				
6-21	2400	1.78	238	6-24	2100	6.17	2,770				
				6-24	2400	6.25	2,840	6-27	0900	3.69	1,040
								6-27	0945	5.93	2,560
6-22	2115	1.92	294					6-27	1600	6.20	2,780
6-22	2400	2.15	386	6-25	1200	6.36	2,910	6-27	1700	8.57	5,070
				6-25	1230	8.49	4,990	6-27	1915	8.69	5,190
				6-25	1400	8.85	5,350	6-27	2400	8.65	5,150
6-23	0015	2.14	382	6-25	2400	8.81	5,310				
6-23	1215	2.04	342								
6-23	2400	2.09	362					6-28	0115	8.65	5,150
				6-26	1045	8.82	5,320	6-28	2400	8.49	4,990
				6-26	1915	8.78	5,280				

(759) 03039200 CLEAR RUN NEAR BUCKSTOWN, PA.

LOCATION.--Lat 40°02'50", long 78°49'58", Somerset County, on left bank at downstream side of highway bridge on State Highway 160, 0.8 mile south of Reels Corners, and 2.3 miles southeast of Buckstown.

DRAINAGE AREA.--3.68 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 2,340 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 120 cfs and by slope-area measurement at 278 cfs.

MAXIMUMS.--June-July 1972: Discharge, 266 cfs 0715 hours June 23 (gage height, 4.53 ft). 1961 to May 1972: Discharge, 250 cfs Feb. 25, 1961 (gage height, 5.30 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3.9	20	11...	1.9	4.2	21...	13	1.4
2....	3.4	12	12...	1.5	3.7	22...	52	1.3
3....	3.6	10	13...	2.0	3.3	23...	163	1.2
4....	3.0	8.3	14...	2.5	3.1	24...	82	1.1
5....	2.6	9.4	15...	1.7	2.7	25...	38	1.0
6....	2.4	8.8	16...	2.5	2.7	26...	22	.99
7....	2.2	6.6	17...	3.3	2.7	27...	13	1.1
8....	1.9	5.4	18...	1.9	2.3	28...	9.4	1.0
9....	1.7	4.8	19...	1.5	1.9	29...	40	.88
10...	2.8	4.5	20...	1.5	1.7	30...	35	.88
						31...		.99
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							17	4.2
RUNOFF,IN INCHES							5.21	1.31

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.42	2.1	6-22	1545	2.91	33				
6-21	0915	2.44	2.5	6-22	1930	3.13	57				
6-21	0930	2.47	3.2	6-22	2045	3.28	74	6-24	0215	3.72	135
6-21	1015	2.50	4.0	6-22	2245	3.54	102	6-24	0645	3.52	107
6-21	1130	2.56	6.0	6-22	2400	3.69	117	6-24	1600	3.19	65
6-21	1300	2.70	14					6-24	2400	3.06	50
6-21	1400	2.78	19								
6-21	1445	2.86	28	6-23	0200	4.09	189				
6-21	1615	2.88	30	6-23	0515	4.25	213	6-25	0100	3.06	50
6-21	2000	2.84	25	6-23	0630	4.29	219	6-25	2400	2.86	28
6-21	2400	2.80	21	6-23	0715	4.53	266				
				6-23	0800	4.48	256				
				6-23	0930	4.31	222	6-26	0030	2.86	28
6-22	0230	2.83	24	6-23	1730	3.54	110	6-26	2400	2.73	16
6-22	0415	2.92	34	6-23	2130	3.47	100				
6-22	0615	3.19	64	6-23	2400	3.68	129				

(757) 03038500 CROOKED CREEK LAKE AT CROOKED CREEK DAM, PA.

LOCATION.--Lat 40°42'51", long 79°30'30", Armstrong County, at control tower at Crooked Creek Dam on Crooked Creek, 4 miles south of Ford City, and 7.2 miles upstream from mouth.

DRAINAGE AREA.--277 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level, datum of Corps of Engineers, which is 2.07 ft below mean sea level.

CONTENTS RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 14,400 cfs 1500 hours June 23; contents, 61,450 acre-ft 2400 hours June 25 (elevation, 901.29 ft).
1941 to May 1972: Contents, 58,020 acre-ft Apr. 16, 1948 (elevation, 889.02 ft).

REMARKS.--Reservoir is formed by an earthfill dam, rock-faced. Storage began in May 1940. Capacity, 93,900 acre-ft between elevations 809 ft (sill of outlet gates) and 920 ft (full pool). Minimum pool elevation, 840 ft (capacity, 4,510 acre-ft). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers, Pittsburgh.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	843.52	5,840	877.07	30,340	16	841.71	5,140	845.73	6,770
2	843.62	5,880	870.00	23,350	17	842.13	5,300	846.28	7,020
3	844.61	6,290	862.67	17,520	18	842.35	5,380	845.74	6,780
4	845.45	6,650	854.58	11,760	19	842.49	5,440	844.74	6,340
5	846.10	6,940	848.88	8,330	20	842.75	5,540	844.04	6,050
6	845.70	6,760	847.43	7,580	21	847.12	7,420	843.59	5,870
7	844.24	6,130	846.09	6,930	22	856.40	13,020	843.63	5,880
8	843.24	5,730	844.53	6,250	23	884.56	38,640	843.45	5,810
9	843.22	5,720	843.75	5,930	24	898.18	56,770	843.51	5,830
10	843.46	5,810	843.30	5,750	25	901.29	61,450	843.57	5,860
11	843.54	5,850	844.04	6,050	26	900.06	59,580	843.30	5,750
12	843.53	5,840	844.32	6,160	27	898.68	57,510	843.00	5,630
13	843.52	5,840	844.29	6,150	28	893.64	50,230	842.79	5,550
14	843.77	5,940	844.15	6,090	29	888.34	43,190	842.87	5,580
15	842.44	5,420	844.27	6,140	30	883.15	37,010	842.88	5,580
					31			843.10	5,670
Change in contents							+31,240		-31,340

(758) 03039000 CROOKED CREEK AT CROOKED CREEK DAM, PA.

(Formerly published as Crooked Creek at Hileman's Farm)

LOCATION.--Lat 40°43'13", long 79°30'42", Armstrong County, on right bank 0.4 mile downstream from Crooked Creek Dam, 3.5 miles south of Ford City, and 6.7 miles upstream from mouth.

DRAINAGE AREA.--278 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1415 hours June 29 to Aug. 22, for which graph was constructed on basis of once-daily telemark gage readings. Datum of gage is 799.51 ft above mean sea level (levels by Corps of Engineers). July 31, 1933, to Dec. 5, 1939, at site 1.5 miles downstream at different datum

DISCHARGE RECORDS.--Stage-discharge relation defined by current-meter measurements below 6,000 cfs. Prior to 1940 stage-discharge relation extended above 8,000 cfs on basis of contracted-opening measurement at 21,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,350 cfs 1400 hours June 25 (gage height, 8.85 ft).
1910 to May 1972: Discharge, 21,000 cfs March 18, 1936 (gage height, 17.86 ft, from floodmark, site and datum then is use).

REMARKS.--Flow regulated completely since 1940 by Crooked Creek Lake 0.4 mile upstream (see station 03038500) and since 1968 by Plum Creek Reservoir (combined capacity, 115,910 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1	52	4,530	11	104	172	21	170	314
2	76	4,250	12	104	203	22	270	197
3	161	3,950	13	104	203	23	350	200
4	221	3,570	14	278	203	24	1,090	206
5	221	2,220	15	450	203	25	4,070	206
6	358	1,030	16	206	215	26	4,530	203
7	482	1,000	17	57	330	27	2,780	203
8	294	861	18	57	397	28	5,070	150
9	104	638	19	57	438	29	4,880	98
10	104	456	20	58	434	30	4,720	78
						31		44
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,050	877
RUNOFF,IN INCHES							4.21	3.64

(760) 03040000 STONY CREEK AT FERNDALE, PA.

(Formerly published as Stony Creek at Johnstown)

LOCATION.--Lat 40°17'08", long 78°55'15", Cambria County, on right bank 50 ft upstream from highway bridge at Ferndale, 0.4 mile downstream from Bens Creek, 1.2 miles usptream from Johnstown city limits, and 5.2 miles upstream from confluence with Little Conemaugh River.

DRAINAGE AREA.--451 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 0600 hours June 27 to July 3. Datum of gage is 1,184.20 ft above mean sea level. Prior to Mar. 19, 1936, at site 3.5 miles downstream at datum 30.2 feet lower.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 13,000 cfs, by slope-area measurement at 35,000 cfs, and by contracted-opening and slope-area measurement at 59,000 cfs. Records for June 27 to July 3 based on correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 22,800 cfs 1030 hours June 23 (gage height, 13.36 ft).
1914 to May 1972: Discharge, 59,000 cfs March 18, 1936 (gage height, 30.26 ft, site and datum then is use).

REMARKS.--Flow regulated by several reservoirs, the five largest of which have a combined capacity of 42,170 acre-ft.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1	415	1,700	11	217	602	21	1,120	282
2	320	1,500	12	176	497	22	2,910	260
3	467	1,450	13	234	456	23	15,900	239
4	366	1,300	14	295	458	24	11,300	215
5	297	1,510	15	290	377	25	6,190	194
6	252	1,690	16	294	395	26	3,370	187
7	230	1,300	17	397	400	27	2,100	184
8	205	1,000	18	289	377	28	1,500	180
9	187	813	19	247	327	29	1,400	168
10	220	687	20	191	300	30	1,800	159
						31		159
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,770	625
RUNOFF,IN INCHES							4.39	1.60

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.63	191	6-22	2400	7.93	6,830	6-25	2400	6.68	4,260
6-21	1000	2.71	219								
6-21	1330	2.91	305								
6-21	1430	3.12	400	6-23	0330	9.67	11,100	6-26	0030	6.66	4,220
6-21	1500	4.18	1,130	6-23	0930	13.24	22,400	6-26	1600	5.88	2,910
6-21	1530	5.55	2,510	6-23	1030	13.36	22,800	6-26	2400	6.15	3,300
6-21	1630	5.24	2,180	6-23	2330	9.89	11,700				
6-21	1700	5.87	2,900	6-23	2400	9.85	11,600				
6-21	1800	5.90	2,940								
6-21	2400	5.16	2,100					6-27	0400	6.17	3,330
								6-27	1400	-	1,850
				6-24	0930	10.34	13,000	6-27	2400	-	1,700
				6-24	1330	9.97	11,900				
6-22	0530	5.07	2,010	6-24	2400	8.72	8,680				
6-22	1100	6.03	3,120								
6-22	1900	5.58	2,540					6-28	0100	-	1,650
6-22	2130	6.38	3,680	6-25	0030	8.67	8,560	6-28	2400	-	1,600

(761) 03041000 LITTLE CONEMAUGH RIVER AT EAST CONEMAUGH, PA.

LOCATION.--Lat 40°20'37", long 78°53'07", Cambria County, on right bank 100 ft downstream from bridge on State Highway 271 at East Conemaugh, 0.3 mile downstream from Clapboard Run, and 2.5 miles upstream from confluence with Stony Creek.

DRAINAGE AREA.--183 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,207.94 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,200 cfs and by slope-area measurements at 12,300 and 28,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,600 cfs 1000 hours June 23 (gage height, 10.48 ft).
1935 to May 1972: Discharge, 28,800 cfs March 17,18,1936 (gage height, unknown).

REMARKS.--Flow regulated by several reservoirs, the two most effective of which have a combined capacity of 5,640 acre-ft.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	186	636	11...	155	342	21...	1,770	150
2....	174	484	12...	141	298	22...	4,020	138
3....	380	678	13...	179	270	23...	12,300	130
4....	322	615	14...	225	242	24...	5,270	147
5....	364	741	15...	164	213	25...	2,960	147
6....	253	748	16...	293	298	26...	1,680	130
7....	216	594	17...	339	270	27...	1,090	110
8....	186	502	18...	231	220	28...	806	105
9....	165	436	19...	205	183	29...	706	98
10...	174	385	20...	174	155	30...	822	90
						31...		82
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,200	310
RUNOFF, IN INCHES							7.31	1.95

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.02	172					6-25	2400	4.25	2,070
6-21	1130	2.12	208								
6-21	1300	2.31	284	6-23	0930	10.40	16,400				
6-21	1330	2.48	360	6-23	1000	10.48	16,600	6-26	0030	4.24	2,060
6-21	1430	5.65	4,630	6-23	2400	7.29	8,400	6-26	2400	3.61	1,310
6-21	1600	6.11	5,640								
6-21	1630	6.03	5,470								
6-21	2400	4.91	3,140	6-24	0030	7.25	8,300	6-27	0030	3.60	1,300
				6-24	2300	5.50	4,300	6-27	2400	3.15	910
				6-24	2400	5.47	4,240				
6-22	0430	4.66	2,700								
6-22	1130	5.76	4,870					6-28	0030	3.15	910
6-22	2030	5.99	5,380	6-25	0030	5.45	4,200	6-28	2400	2.87	699
6-22	2400	7.43	8,730	6-25	2130	4.32	2,170				

(762) 03041500 CONEMAUGH RIVER AT SEWARD, PA.

LOCATION.--Lat 40°25'09", long 79°01'35", Westmoreland County, on left bank at upstream side of bridge on State Highway 56 at Seward, 2.0 miles downstream from Findley Run, and 9 miles northwest of Johnstown.

DRAINAGE AREA.--715 sq mi.

GAGE HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals. Datum of gage is 1,076.02 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 23,000 cfs and by contracted-opening measurement at 90,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 49,300 cfs 1200 hours June 23 (gage height, 18.93 ft). 1935 to May 1972: Discharge, 90,000 cfs March 18, 1936 (gage height, 26.4 ft, from floodmark).

REMARKS.--Flow regulated by many reservoirs above station, the nine most effective of which have a combined capacity of 51.580 acre-ft

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	890	3,350	11...	613	1,370	21...	2,130	740
2....	740	2,450	12...	557	1,160	22...	6,930	700
3....	1,190	2,490	13...	628	1,060	23...	32,300	652
4....	1,070	2,400	14...	764	1,060	24...	19,400	636
5....	1,040	2,610	15...	700	910	25...	10,900	636
6....	816	2,980	16...	910	1,050	26...	6,190	592
7....	732	2,400	17...	1,220	1,070	27...	4,000	571
8....	660	1,990	18...	861	960	28...	2,930	571
9....	606	1,700	19...	780	834	29...	2,760	536
10...	613	1,510	20...	660	764	30...	4,220	508
						31...		515
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							3,590	1,320
RUNOFF, IN INCHES							5.61	2.12

(764) 03042170 STONEY RUN AT INDIANA, PA.

(Crest-stage station)

LOCATION.--Lat 40°36'31", long 79°09'49", Indiana County, at southwest edge of Indiana 300 ft west of U.S. Highway 119, and 0.1 mile below Marsh Run.

DRAINAGE AREA.--4.39 sq mi.

GAGE-HEIGHT RECORD.--Crest stage only. Altitude of gage is 1,230 ft (from topographic map).

DISHCARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 420 cfs June 23 (gage height, 8.56 ft). 1964 to May 1972: Discharge, 394 cfs July 23, 1969 (gage height, 8.33 ft).

(765) 03042200 LITTLE YELLOW CREEK NEAR STRONGSTOWN, PA.

LOCATION.--Lat 40°33'45", long 78°56'44", Indiana County, on right bank 100 ft downstream from concrete box culvert on U. S. Highway 422, 1.4 miles northwest of Strongstown, 6 miles upstream from mouth, and 11 miles southeast of Indiana.

DRAINAGE AREA.--7.36 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,600 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 470 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 820 cfs 0615 hours June 23 (gage height, 6.10 ft). 1960 to May 1972: Discharge, 541 cfs March 10, 1964 (gage height, 5.06 ft); maximum gage height, 5.56 ft March 5, 1963 (backwater from ice).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.3	11	11...	3.4	8.2	21...	23	3.5
2....	2.9	9.6	12...	3.2	6.5	22...	189	3.1
3....	7.1	8.8	13...	7.4	5.8	23...	507	4.6
4....	9.9	11	14...	5.2	5.0	24...	288	27
5....	7.1	20	15...	5.6	4.4	25...	165	7.6
6....	5.0	25	16...	23	9.3	26...	65	5.6
7....	4.2	16	17...	11	8.2	27...	29	6.0
8....	3.7	13	18...	8.5	5.4	28...	22	4.6
9....	4.0	11	19...	6.8	4.6	29...	20	3.7
10...	4.4	11	20...	7.1	3.8	30...	15	3.4
						31...		3.1
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							48	8.7
RUNOFF, IN INCHES							7.35	1.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.79	9.2	6-22	1700	2.77	67	6-24	1215	4.48	336
6-21	0930	1.75	8.1	6-22	2200	4.41	322	6-24	1230	4.47	334
6-21	1115	1.85	11	6-22	2400	5.18	514	6-24	2400	4.15	270
6-21	1200	2.02	18								
6-21	1345	2.36	37								
6-21	1745	2.40	39	6-23	0445	5.74	682	6-25	0015	4.10	260
6-21	1945	2.33	35	6-23	0615	6.10	820	6-25	1930	3.31	125
6-21	2400	2.20	27	6-23	0945	5.93	752	6-25	2400	3.23	116
				6-23	1900	4.53	348				
				6-23	2400	4.22	284				
6-22	0445	2.25	30					6-26	0030	3.22	114
6-22	1115	2.48	45					6-26	2400	2.64	56
6-22	1515	2.44	42	6-24	0715	3.96	232				

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	2.64	652	6-22	2400	9.02	13,000	6-25	0100	9.43	14,000
6-21	1300	2.74	732					6-25	2400	6.76	7,570
6-21	1600	3.01	981								
6-21	1700	4.69	3,350	6-23	0200	9.64	14,500				
6-21	1800	6.54	7,090	6-23	0800	18.09	44,200	6-26	0100	6.69	7,420
6-21	2000	6.85	7,770	6-23	1200	18.93	49,300	6-26	2400	5.47	4,840
6-21	2200	6.50	7,000	6-23	1400	17.97	43,600				
6-21	2400	6.11	6,140	6-23	2200	12.95	23,600				
				6-23	2400	12.34	21,800	6-27	0100	5.42	4,740
								6-27	2400	4.61	3,220
6-22	0600	5.43	4,760								
6-22	1000	6.31	6,580	6-24	0200	12.00	20,800				
6-22	1500	7.01	8,140	6-24	2100	10.35	16,400	6-28	0100	4.66	3,300
6-22	2100	7.26	8,740	6-24	2400	9.57	14,400	6-28	2400	4.21	2,540

(763) 03042000 BLACKLICK CREEK AT JOSEPHINE, PA.

LOCATION.--Lat 40°28'24", long 79°11'01", Indiana County, on right bank on upstream side of old concrete dam at Josephine, 0.9 mile upstream from Two Lick Creek, and 5 miles northeast of Blairsville.

DRAINAGE AREA.--192 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 975.82 ft above mean sea level, datum of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,300 cfs, by computation of flow over dam and slope-area measurement at 10,200 cfs, and by contracted-opening measurement at 11,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 20,800 cfs 1200 hours June 23 (gage height, 13.99 ft). 1952 to May 1972: Discharge, 11,900 cfs October 15, 1954 (gage height, 11.35 ft in gage well, 12.67 ft, from outside floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	155	637	11...	158	330	21...	390	209
2....	134	476	12...	128	263	22...	1,920	217
3....	380	415	13...	185	241	23...	15,100	185
4....	340	405	14...	290	225	24...	7,860	277
5....	574	488	15...	205	195	25...	4,020	295
6....	350	707	16...	581	254	26...	2,270	198
7....	254	542	17...	651	560	27...	1,390	172
8....	202	430	18...	385	375	28...	906	179
9....	172	375	19...	295	277	29...	763	155
10...	189	330	20...	250	233	30...	770	141
						31...		126
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,380	320
RUNOFF,IN INCHES.....							7.99	1.92

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	4.13	259	6-23	0730	12.94	17,100	6-25	2400	6.91	2,860
6-21	1200	4.22	300	6-23	1200	13.99	20,800				
6-21	1530	4.38	380	6-23	1430	13.79	20,100				
6-21	2000	4.79	623	6-23	2400	10.48	8,990	6-26	0030	6.87	2,810
6-21	2400	4.98	756					6-26	2400	5.96	1,730
				6-24	1700	10.29	8,540				
6-22	1000	5.40	1,120	6-24	1730	9.37	6,690	6-27	0030	5.95	1,720
6-22	1800	6.20	1,990	6-24	2400	8.76	5,620	6-27	1230	5.64	1,370
6-22	2130	7.41	3,550					6-27	2000	5.60	1,330
6-22	2330	9.12	6,240					6-27	2400	5.50	1,220
6-22	2400	9.53	6,970	6-25	0030	8.69	5,500				

(766) 03042260 YELLOW CREEK LAKE AT YELLOW CREEK STATE PARK, PA.

LOCATION.--Lat 40°35'27", long 79°03'11", Indiana County, in gatehouse at right end of Yellow Creek Dam on Yellow Creek, at Yellow Creek State Park, 3 miles southwest of Penn Run.

DRAINAGE AREA.--52.5 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (Pennsylvania Department of Environmental Resources bench mark).

CONTENTS RECORD.--Contents computed from capacity curve furnished by Pennsylvania Department of Environmental Resources.

MAXIMUMS.--June-July 1972: Contents, 18,420 acre-ft 1300 hours June 23 (elevation, 1,285.02 ft). July 1971 to May 1972: Contents, 16,410 acre-ft 0100 hours Mar. 3, 1972 (elevation, 1,282.90 ft).

REMARKS.--Reservoir is formed by an earthfill dam with concrete spillway. Storage began July 11, 1971. Usable capacity, 13,800 acre-ft between elevation 1,245.5 ft (sill of 4-foot and 1.5-foot outlet gates) and 1,280.0 ft (spillway crest). No dead storage. Lake is used for recreation. Figures given herein represent usable contents. Dam built by Pennsylvania Department of Forests and Waters and now maintained by Pennsylvania Department of Environmental Resources.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,280.18	13,960	1,280.74	14,470	16	1,280.51	14,260	1,280.49	14,240
2	1,280.22	14,000	1,280.66	14,390	17	1,280.50	14,250	1,280.51	14,260
3	1,280.37	14,130	1,280.60	14,340	18	1,280.46	14,210	1,280.47	14,220
4	1,280.54	14,290	1,280.56	14,300	19	1,280.42	14,180	1,280.44	14,200
5	1,280.58	14,320	1,280.67	14,400	20	1,280.41	14,170	1,280.40	14,160
6	1,280.51	14,260	1,280.81	14,530	21	1,280.59	14,330	1,280.43	14,190
7	1,280.45	14,200	1,280.77	14,490	22	1,281.87	15,480	1,280.45	14,200
8	1,280.40	14,160	1,280.70	14,430	23	1,284.06	17,460	1,280.41	14,170
9	1,280.39	14,150	1,280.65	14,380	24	1,283.38	16,840	1,280.62	14,360
10	1,280.36	14,120	1,280.57	14,310	25	1,282.40	15,960	1,280.56	14,300
11	1,280.32	14,090	1,280.56	14,300	26	1,281.72	15,350	1,280.51	14,260
12	1,280.28	14,050	1,280.50	14,250	27	1,281.30	14,970	1,280.50	14,250
13	1,280.35	14,120	1,280.47	14,220	28	1,281.03	14,730	1,280.48	14,230
14	1,280.36	14,120	1,280.43	14,190	29	1,280.94	14,650	1,280.43	14,190
15	1,280.34	14,110	1,280.44	14,200	30	1,280.83	14,550	1,280.41	14,170
					31			1,280.39	14,150
Change in contents.....							+580		-400

(767) 03042280 YELLOW CREEK NEAR HOMER CITY, PA.

LOCATION.--Lat 40°34'18", long 79°06'13", Indiana County, on left bank 150 ft downstream from Ferrier Run, 0.3 mile upstream from Central Indiana County Water Authority dam, and 3.5 miles northeast of Homer City.

DRAINAGE AREA.--59.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage-recorder graph, except May 24 to June 29. Altitude of gage is 1,140 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 660 cfs and by computation of flow over dam at 4,100 cfs. Daily discharge for May 24 to June 29 based on correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 4,100 cfs before 1200 hours June 23 (gage height, 7.46 ft). 1968 to May 1972: Discharge, about 1,300 cfs Jan. 30, 1968 (gage height, 7.76 ft, ice jam); maximum gage height, 8.37 ft Feb. 14, 1971 (backwater from ice).

REMARKS.--Flow regulated since July 1971 by Yellow Creek Lake 4 miles upstream (see station 03042260).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	23	126	11...	33	72	21...	140	38
2....	35	98	12...	30	60	22...	400	42
3....	56	78	13...	42	50	23...	3,500	42
4....	62	66	14...	37	44	24...	2,500	64
5....	70	78	15...	33	39	25...	1,000	70
6....	50	151	16...	60	46	26...	460	53
7....	40	159	17...	90	56	27...	260	44
8....	35	132	18...	60	52	28...	200	40
9....	32	102	19...	50	45	29...	180	36
10...	38	82	20...	50	39	30...	159	32
						31...		29
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							324	67
RUNOFF,IN INCHES.....							6.08	1.29

(768) 03042500 TWO LICK CREEK AT GRACETON, PA.

LOCATION.--Lat 40°31'02", long 79°10'19", Indiana County, on right bank 0.8 mile upstream from highway bridge on road leading west from Graceton, 1.1 miles downstream from Tearing Run, 1.5 miles upstream from Cherry Run, and 8 miles northeast of Blairsville.

DRAINAGE AREA.--171 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 981.63 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,500 cfs and by contracted-opening measurement at 12,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 19,600 cfs 1030 hours June 23 (gage height, 14.69 ft). 1952 to May 1972: Discharge, 12,900 cfs Oct. 16, 1954 (gage height, 12.71 ft).

REMARKS.--Flow regulated since December 1968 by Two Lick Creek Reservoir 10 miles upstream (capacity, 16,240 acre-ft) and since July 1971 by Yellow Creek Lake 11 miles upstream (see station 03042260).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	84	350	11...	103	226	21...	180	169
2....	88	298	12...	97	205	22...	666	171
3....	198	270	13...	125	191	23...	13,200	171
4....	170	249	14...	118	170	24...	6,530	210
5....	211	355	15...	108	140	25...	4,110	209
6....	179	1,010	16...	154	206	26...	2,400	184
7....	167	864	17...	189	202	27...	1,430	171
8....	122	518	18...	145	177	28...	592	161
9....	113	561	19...	134	166	29...	454	150
10...	122	252	20...	132	157	30...	408	141
						31...		133
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,090	272
RUNOFF,IN INCHES.....							7.12	1.83

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.55	175					6-25	1500	7.95	3,850
6-21	0530	2.42	140	6-23	0400	9.83	6,030	6-25	2200	7.12	3,040
6-21	1130	2.50	160	6-23	0530	11.56	9,700	6-25	2400	7.06	2,980
6-21	1630	2.75	235	6-23	0600	12.33	11,800				
6-21	1730	2.73	229	6-23	1030	14.69	19,600				
6-21	2400	2.69	217	6-23	1730	13.67	15,800	6-26	0030	7.04	2,970
				6-23	2130	12.64	12,700	6-26	1230	6.25	2,280
				6-23	2400	11.99	10,800	6-26	2400	5.74	1,870
6-22	0530	2.91	289								
6-22	0930	3.17	380								
6-22	1230	3.46	481	6-24	0030	11.90	10,600	6-27	0030	5.72	1,860
6-22	1700	3.57	520	6-24	1330	8.74	4,670	6-27	1630	5.22	1,460
6-22	1900	4.40	920	6-24	2400	8.87	4,820	6-27	1800	4.27	842
6-22	2130	5.59	1,750					6-27	2400	4.00	700
6-22	2400	7.74	3,640								
				6-25	0200	9.02	4,980				

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	4.16	2,170	6-24	0100	6.08	6,040	6-27	2400	12.21	24,500
6-21	0300	3.83	1,660	6-24	1600	6.29	6,500				
6-21	0900	3.60	1,330	6-24	2400	7.20	8,720				
6-21	2400	3.78	1,580					6-28	2400	11.90	23,300
				6-25	0200	7.54	9,610				
6-22	0100	3.81	1,620	6-25	1400	10.10	17,400	6-29	1200	11.72	22,700
6-22	2400	4.55	2,840	6-25	1800	12.60	25,900	6-29	1400	10.53	18,700
				6-25	2400	12.58	25,800	6-29	2400	10.40	18,300
6-23	0200	4.70	3,120								
6-23	1400	5.82	5,460	6-26	2400	12.42	25,200	6-30	0930	10.30	18,000
6-23	2400	6.00	5,860					6-30	1200	11.37	21,500
								6-30	2400	11.21	21,000

(771) 03045000 LOYALHANNA CREEK AT KINGSTON, PA.

LOCATION.--Lat 40°17'33", long 79°20'27", Westmoreland County, on right bank 60 ft downstream from bridge on State Highway 217, at Kingston, 100 ft downstream from Miller Run, 1.9 miles upstream from Ninemile Run, and 3 miles southeast of Latrobe.

DRAINAGE AREA.--172 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals June 1-22; water-stage-recorder graph except 0500 hours June 27 to July 5, for which graph was reconstructed on basis of daily wire-weight-gage readings. Datum of gage is 1,013.16 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 8,700 cfs and by contracted-opening measurement at 29,700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 21,500 cfs 1130 hours June 23 (gage height, 13.76 ft). 1918 to May 1972: Discharge, 29,700 cfs Oct. 15, 1954 (gage height, 15.8 ft, from flood-marks).

REMARKS.--Flow regulated by Latrobe Reservoir (capacity, 3,670 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	78	520	11...	60	231	21...	102	140
2....	82	396	12...	59	185	22...	1,000	128
3....	150	946	13...	130	160	23...	14,200	132
4....	85	468	14...	70	199	24...	7,230	104
5....	82	486	15...	52	136	25...	2,610	89
6....	74	712	16...	123	410	26...	1,320	79
7....	67	610	17...	79	440	27...	760	79
8....	61	472	18...	82	298	28...	386	76
9....	59	355	19...	70	220	29...	308	64
10...	110	287	20...	66	175	30...	360	61
						31...		61
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							997	281
RUNOFF,IN INCHES.....							6.47	1.89

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.05	81	6-23	0800	12.55	17,200	6-25	0200	6.84	3,510
6-21	1200	2.33	132	6-23	1130	13.76	21,500	6-25	2400	5.37	1,830
6-21	2400	2.52	175	6-23	1300	13.32	19,800				
				6-23	1430	13.44	20,300				
				6-23	1700	12.60	17,300	6-26	2400	4.41	1,010
6-22	0100	2.55	184	6-23	2400	10.30	10,400				
6-22	0600	2.84	290								
6-22	1400	3.98	925					6-27	0500	4.29	934
6-22	1800	4.35	1,180	6-24	0100	10.22	10,200	6-27	2400	3.57	525
6-22	2000	5.03	1,780	6-24	0400	10.29	10,400				
6-22	2400	7.18	4,450	6-24	1100	9.30	7,800				
				6-24	2400	7.05	3,800	6-28	0700	3.30	400
								6-28	2400	3.10	315
6-23	0600	10.64	11,400								

(769) 03043500 CONEMAUGH RIVER LAKE AT CONEMAUGH RIVER DAM, PA.

LOCATION.--Lat 40°28'11", long 79°22'07", Indiana County, at face of dam on right bank at Conemaugh River Dam on Conemaugh River, 2 miles upstream from highway bridge at Tunnelton, and 7.5 miles upstream from Loyalhanna Creek.

DRAINAGE AREA.--1,351 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (Corps of Engineers bench mark).

CONTENTS RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 99,100 cfs 1300 hours June 23; contents, 237,980 acre-ft 1200 hours June 25 (elevation, 969.45 ft).
1952 to May 1972: Contents, 230,520 acre-ft Mar. 12, 1964 (elevation, 968.23 ft).

REMARKS.--Reservoir is formed by a concrete gravity dam with a gated spillway and with an earth embankment at the right end. Fully controlled storage began November 1953. Capacity, 273,600 acre-ft between elevations 860 ft (sill of sluice gates) and 975 ft (full pool). Dead storage is 400 acre-ft. Minimum pool elevation, 880 ft (capacity, 4,000 acre-ft). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers, Pittsburgh.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	887.23	6,590	927.04	58,810	16	900.97	15,170	889.48	7,640
2	887.03	6,500	917.53	37,640	17	901.83	15,950	892.40	9,180
3	891.39	8,640	910.02	25,370	18	897.87	12,620	888.80	7,310
4	894.35	10,300	903.29	17,340	19	892.35	9,150	886.50	6,280
5	896.95	11,960	901.22	15,400	20	882.60	4,830	886.49	6,280
6	896.61	11,730	904.09	18,160	21	886.45	6,260	885.07	5,730
7	894.26	10,250	899.10	13,570	22	912.54	29,060	883.93	5,300
8	891.08	8,470	892.54	9,260	23	957.05	169,380	884.73	5,600
9	890.63	8,240	890.42	8,130	24	968.48	231,920	886.39	6,240
10	889.54	7,680	887.46	6,690	25	968.56	232,520	888.26	7,050
11	888.23	7,040	886.22	6,170	26	964.73	210,010	888.12	6,990
12	888.61	7,220	885.90	6,040	27	958.99	179,080	887.24	6,600
13	889.82	7,820	887.69	6,790	28	951.67	144,400	886.39	6,240
14	892.42	9,190	888.46	7,150	29	944.21	113,310	884.88	5,660
15	895.58	11,060	887.40	6,670	30	936.75	87,020	884.37	5,470
					31			885.68	5,960
Change in contents							+81,580		-81,060

(770) 03044000 CONEMAUGH RIVER AT TUNNELTON, PA.

LOCATION.--Lat 40°27'16", long 79°23'28", Indiana County, on right bank at downstream side of highway bridge at Tunnelton, 0.9 mile downstream from Boatyard Run, 2.0 miles downstream from Conemaugh River Dam, 3.8 miles southeast of Saltsburg, and 5.5 miles upstream from confluence with Loyalhanna Creek.

DRAINAGE AREA.--1,358 sq mi.

GAGE-HEIGHT RECORD.--Digital recorder tape punched at 1-hour intervals and water-stage-recorder graph. Datum of gage is 844.64 ft above mean sea level.

DISCHARGE RECORDS.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 25,900 cfs 1800 hours June 25 (gage height, 12.60 ft).
1940 to May 1972: Discharge, 59,200 cfs Mar. 7, 1945 (gage height, 21.0 ft, from graph based on gage readings).

REMARKS.--Flow regulated since 1952 by Conemaugh River Lake 2 miles upstream (see station 03043500) and by other reservoirs above station, the ten most effective of which have a combined capacity of 67,810 acre-ft.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	984	20,200	11...	1,240	2,430	21...	1,470	1,570
2...	1,180	15,100	12...	858	2,010	22...	2,180	1,530
3...	1,230	9,610	13...	847	1,610	23...	4,720	1,290
4...	1,320	7,500	14...	864	1,660	24...	6,520	1,110
5...	1,380	5,020	15...	452	1,670	25...	17,200	1,160
6...	1,710	3,340	16...	461	1,670	26...	25,500	1,190
7...	2,020	7,000	17...	2,070	2,330	27...	24,900	1,190
8...	1,910	5,530	18...	3,200	2,840	28...	23,900	1,170
9...	1,200	3,780	19...	3,060	2,090	29...	20,800	1,150
10...	1,260	3,040	20...	2,640	1,610	30...	20,000	998
						31...		775
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							5,900	3,650
RUNOFF, IN INCHES							4.85	3.10

(772) 03046500 LOYALHANNA LAKE AT LOYALHANNA DAM, PA.

LOCATION.--Lat 40°27'25", long 79°27'07", Westmoreland County, at control house at Loyalhanna Dam on Loyalhanna Creek, 2 miles south of Saltsburg, and 4.7 miles upstream from mouth.

DRAINAGE AREA.--290 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level (Corps of Engineers bench mark).

CONTENTS RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 27,500 cfs 1700 hours June 23; contents, 72,830 acre-ft 2000 hours June 25 (elevation, 967.41 ft).
1943 to May 1972: Contents, 47,910 acre-ft Apr. 16, 1948 (elevation, 956.82 ft).

REMARKS.--Reservoir is formed by a concrete gravity dam with a gated spillway and with an earth embankment at the left end. Storage began in June 1942. Capacity, 95,300 acre-ft between elevations 878 ft (sill of outlet gates) and 975 ft (full pool). Minimum pool elevation, 910 ft (capacity, 2,040 acre-ft). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers, Pittsburgh.

Mean elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	917.19	4,070	948.28	32,360	16	916.83	3,940	920.17	5,300
2	916.77	3,920	942.87	24,400	17	918.39	4,540	922.06	6,210
3	917.31	4,120	937.23	17,740	18	918.51	4,590	922.22	6,290
4	917.34	4,130	930.63	11,750	19	918.26	4,490	921.41	5,890
5	916.94	3,980	925.89	8,400	20	917.94	4,360	920.15	5,290
6	916.39	3,790	925.03	7,860	21	919.34	4,930	919.09	4,830
7	915.73	3,560	922.71	6,550	22	928.46	10,120	918.27	4,490
8	915.38	3,450	920.24	5,330	23	958.56	51,550	917.50	4,190
9	915.48	3,480	919.15	4,850	24	966.73	71,020	916.40	3,790
10	915.57	3,510	918.74	4,680	25	967.22	72,320	915.60	3,520
11	915.72	3,560	917.82	4,310	26	965.94	68,950	915.31	3,430
12	915.74	3,570	916.30	3,760	27	963.73	63,400	915.00	3,330
13	916.27	3,750	915.99	3,650	28	960.67	56,190	915.14	3,370
14	915.86	3,610	917.05	4,020	29	957.70	49,730	915.62	3,530
15	914.28	3,110	917.59	4,230	30	953.78	41,960	915.93	3,630
					31			916.22	3,730
Change in contents							+37,840		-38,230

(773) 03047000 LOYALHANNA CREEK AT LOYALHANNA DAM, PA.

(Formerly published as Loyalhanna Creek at Loyalhanna Creek Dam)

LOCATION.--Lat 40°27'53", long 79°27'05", Westmoreland County, on left bank at downstream side of highway bridge, 0.7 mile downstream from Loyalhanna Dam, 1.5 miles south of Saltsburg, and 4.0 miles upstream from confluence with Conemaugh River.

DRAINAGE AREA.--292 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, except June 3-6, and water-stage-recorder graph. Datum of gage is 861.15 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: discharge, 6,080 cfs 1245 hours June 30 (gage height, 8.05 ft).
1940 to May 1972: Discharge, 11,700 cfs June 5, 1941 (gage height, 10.30 ft).

REMARKS.--Flow completely regulated since 1942 by Loyalhanna Lake 0.7 mile upstream (see station 03046500) and Latrobe Reservoir (combined capacity, 99,000 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	177	5,820	11...	101	623	21...	224	526
2...	216	4,810	12...	102	614	22...	262	418
3...	219	4,180	13...	104	425	23...	384	413
4...	219	3,980	14...	283	219	24...	1,500	407
5...	216	2,920	15...	334	222	25...	3,910	297
6...	216	1,850	16...	214	225	26...	4,200	213
7...	213	1,820	17...	218	452	27...	4,400	213
8...	156	1,470	18...	219	662	28...	4,830	151
9...	100	904	19...	219	656	29...	4,390	103
10...	100	628	20...	219	645	30...	5,090	104
						31...		105
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,100	1,160
RUNOFF, IN INCHES							4.21	4.59

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.32	216	6-24	2030	5.08	2,680				
6-21	1830	1.37	231	6-24	2100	5.87	3,510				
6-21	2400	1.36	228	6-24	2400	5.93	3,570	6-28	0215	7.11	4,880
								6-28	2400	7.04	4,800
6-22	2100	1.54	289	6-25	1230	5.92	3,560				
6-22	2400	1.69	346	6-25	1400	6.54	4,240	6-29	0245	7.03	4,790
				6-25	1715	6.54	4,240	6-29	1215	6.97	4,720
				6-25	2400	6.51	4,210	6-29	1400	6.35	4,040
6-23	0630	1.86	417					6-29	2400	6.30	3,980
6-23	1045	1.80	390								
6-23	2400	1.77	378	6-26	1745	6.51	4,210				
				6-26	2400	6.49	4,190	6-30	0900	6.45	4,150
								6-30	1145	6.95	4,700
6-24	1115	1.75	370					6-30	1245	8.05	6,080
6-24	1130	2.78	898	6-27	1445	6.43	4,120	6-30	2400	7.97	5,970
6-24	1300	3.36	1,290	6-27	1915	7.11	4,880				
6-24	1615	3.46	1,360	6-27	2200	7.12	4,890				
6-24	1645	4.76	2,380	6-27	2400	7.11	4,880	7-01	2400	7.77	5,690

(774) 03048500 KISKIMINETAS RIVER AT VANDERGRIFT, PA.

LOCATION.--Lat 40°36'16", long 79°33'08", Westmoreland County, on left bank 0.5 mile upstream from bridge on State Highway 56 at Vandergrift, and 2.2 miles upstream from Pine Run.

DRAINAGE AREA.--1,825 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals. Datum of gage is 769.40 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 52,000 cfs and by slope-area measurement at 185,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 32,600 cfs 2200 hours June 25 (gage height, 17.81 ft). 1920 to May 1972: Discharge, 185,000 cfs Mar. 18, 1936 (gage height, 41.64 ft, from floodmark).

REMARKS.--Flow regulated since 1952 by Conemaugh River Lake 23 miles upstream (see station 03043500), since 1942 by Loyalhanna Lake 20 miles upstream (see station 03046500), and by other reservoirs, the 12 most effective of which have a combined capacity of 100,100 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	1,350	28,300	11...	1,410	3,210	21...	2,830	2,330
2...	1,460	23,200	12...	1,220	3,210	22...	5,170	2,120
3...	1,670	15,800	13...	1,070	2,270	23...	16,300	1,980
4...	1,730	12,700	14...	1,070	2,060	24...	13,100	1,630
5...	1,730	10,400	15...	1,320	2,050	25...	28,700	1,640
6...	1,810	5,370	16...	395	2,170	26...	31,900	1,520
7...	2,300	9,550	17...	1,700	2,520	27...	30,800	1,520
8...	2,190	8,310	18...	3,550	3,800	28...	30,300	1,490
9...	1,740	5,020	19...	3,300	3,280	29...	27,600	1,360
10...	1,270	4,180	20...	2,980	2,990	30...	25,900	1,310
						31...		1,010
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							8,260	5,410
RUNOFF, IN INCHES							5.05	3.42

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0200	6.09	2,760	6-25	1000	16.49	28,700				
6-22	0800	6.90	3,940	6-25	2200	17.81	32,600				
6-22	2200	8.96	7,910	6-25	2400	17.78	32,500	6-29	0100	16.79	29,600
6-22	2400	9.81	10,000					6-29	1800	15.41	25,400
								6-29	2400	14.95	24,100
				6-26	0100	17.77	32,500				
6-23	1000	13.54	19,800	6-26	2400	17.35	31,300				
6-23	1200	13.69	20,300					6-30	1400	15.55	25,900
6-23	2400	11.09	13,200					6-30	2400	16.78	29,500
				6-27	0100	17.33	31,200				
				6-27	2400	17.21	30,800				
6-24	1700	10.48	11,700					7-01	0100	16.78	29,500
6-24	2400	13.75	20,500					7-01	2400	15.99	27,200
				6-28	0200	17.21	30,800				
				6-28	2400	16.81	29,600				

(777) 03049500 ALLEGHENY RIVER AT NATRONA, PA.

LOCATION.--Lat 40°36'55", long 79°43'07", Allegheny County, on right bank 520 ft upstream from dam at lock 4 at Natrona, 5.8 miles downstream from Kiskiminetas River, and at mile 24.3.

DRAINAGE AREA.--11,410 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 737.11 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements and by slope-area measurement at 220,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 205,000 cfs 2115 hours June 23 (gage height, 24.96 ft). 1936 to May 1972: Discharge, 365,000 cfs Mar. 18, 1936 (gage height, 32.06 ft), determined by Corps of Engineers.

REMARKS.--Flow regulated by Allegheny Reservoir, and by Chautauqua, Tionesta, East Branch Clarion River, Mahoning Creek, Crooked Creek, Conemaugh River, and Loyalhanna Lakes, and by 15 smaller reservoirs (combined capacity, excluding that of Chautauqua Lake, 2,069,000 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	7,730	92,400	11...	10,000	50,400	21...	25,500	14,200
2...	8,000	81,500	12...	7,640	46,800	22...	52,000	13,600
3...	9,350	75,900	13...	8,130	42,700	23...	162,000	11,400
4...	8,540	75,300	14...	14,300	38,400	24...	157,000	8,510
5...	7,680	66,400	15...	12,100	27,800	25...	141,000	9,710
6...	8,430	59,000	16...	14,300	21,100	26...	159,000	9,260
7...	8,760	62,900	17...	20,900	18,900	27...	127,000	8,140
8...	8,070	58,600	18...	18,900	19,300	28...	119,000	7,580
9...	7,410	51,700	19...	16,000	18,700	29...	107,000	6,980
10...	7,610	49,000	20...	13,500	16,600	30...	97,900	5,790
						31...		5,040
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							45,500	34,600
RUNOFF, IN INCHES							4.45	3.50

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	11.09	15,400	6-23	2400	24.68	201,000	6-26	1215	21.97	165,000
6-21	1300	11.97	24,700					6-26	2400	20.51	145,000
6-21	2400	13.01	37,300								
				6-24	0015	24.68	201,000				
				6-24	2215	19.43	130,000	6-27	0015	20.47	144,000
6-22	2345	15.60	73,000	6-24	2400	19.52	131,000	6-27	2400	18.93	122,000
6-22	2400	15.71	74,600								
				6-25	2400	21.36	156,000	6-28	0215	18.96	123,000
								6-28	2400	18.27	113,000
6-23	1630	24.32	196,000								
6-23	2115	24.96	205,000								

(778) 03049800 LITTLE PINE CREEK NEAR ETNA, PA.

LOCATION.--Lat 40°31'13", long 79°56'18", Allegheny County, on right bank at downstream side of highway bridge on Saxonburg Boulevard, 0.7 mile upstream from mouth, and 1.5 miles northeast of Etna.

DRAINAGE AREA.--5.78 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 778.26 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 140 cfs and by slope-area measurement at 360 cfs. Relation was indefinite June 9-22, for which records are based on hydrographic comparisons with those for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 357 cfs 0200 hours June 23 (gage height, 3.82 ft). 1963 to May 1972: Discharge, 360 cfs Mar. 4, 1963 (gage height, 3.85 ft).

(775) 03049000 BUFFALO CREEK NEAR FREEPORT, PA.

LOCATION.--Lat 40°42'57", long 79°41'59", Butler County, on right bank 0.6 mile upstream from Little Buffalo Creek and 3 miles north of Freeport.

DRAINAGE AREA.--137 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 792 ft (by barometer).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,300 cfs and by slope-area measurement at 14,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,980 cfs 0830 hours June 23 (gage height, 11.21 ft). 1941 to May 1972: Discharge, 14,000 cfs Oct. 15, 1954 (gage height, 13.60 ft, from flood-marks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	54	480	11...	51	158	21...	1,030	100
2....	50	330	12...	39	121	22...	1,920	96
3....	183	298	13...	76	104	23...	7,710	83
4....	128	280	14...	91	96	24...	2,970	80
5....	84	235	15...	94	87	25...	2,040	73
6....	64	320	16...	415	306	26...	1,520	62
7....	59	235	17...	194	204	27...	948	62
8....	48	196	18...	125	149	28...	584	71
9....	45	168	19...	96	126	29...	497	60
10...	82	158	20...	111	106	30...	638	49
						31...		44
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							732	159
RUNOFF,IN INCHES.....							5.96	1.34

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.91	646	6-22	2400	7.42	4,730				
6-21	0230	3.30	880					6-25	0030	5.27	2,440
6-21	0500	4.03	1,370					6-25	2400	4.30	1,590
6-21	0600	4.06	1,400	6-23	0600	11.09	9,780				
6-21	1400	3.43	958	6-23	0830	11.21	9,980				
6-21	2400	3.26	856	6-23	1630	9.70	7,720	6-26	0700	4.55	1,800
				6-23	2400	7.08	4,340	6-26	1100	4.39	1,660
								6-26	2400	3.76	1,170
6-22	0630	3.36	916								
6-22	1200	4.05	1,390	6-24	0030	7.00	4,250				
6-22	1330	4.52	1,770	6-24	1600	5.31	2,480	6-27	0030	3.72	1,140
6-22	1630	5.64	2,790	6-24	2400	5.29	2,460	6-27	2400	3.12	724
6-22	2230	6.43	3,620								

(776) 03049100 LITTLE BUFFALO CREEK AT CABOT, PA.

(Crest-stage station)

LOCATION.--Lat 40°45'57", long 79°46'01", Butler County, at highway bridge at Cabot, 500 ft above main bridge, and 3.5 miles above Sarver Run.

DRAINAGE AREA.--4.66 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,200 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 170 cfs and by slope-area and contracted-opening measurement at 302 cfs.

MAXIMUMS.--June-July 1972: Discharge, 404 cfs June 23 (gage height, 7.49 ft). 1959 to May 1972: Discharge, 326 cfs Feb. 14, 1962 (gage height, 5.85 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1.2	12	11...	.70	4.3	21...	7.0	6.0
2....	1.4	8.6	12...	.60	3.4	22...	70	4.3
3....	1.6	10	13...	10	3.1	23...	195	3.7
4....	1.3	8.0	14...	6.0	2.8	24...	66	3.7
5....	1.1	9.4	15...	2.6	7.5	25...	50	2.6
6....	.99	10	16...	3.0	27	26...	27	1.9
7....	.90	7.5	17...	2.0	23	27...	16	2.3
8....	.74	6.0	18...	1.3	11	28...	8.6	1.9
9....	1.3	5.1	19...	1.0	8.0	29...	13	1.6
10...	.90	6.0	20...	30	7.5	30...	13	1.6
						31...		1.4
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							18	6.8
RUNOFF,IN INCHES.....							3.44	1.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.82	30					6-23	2115	2.24	103
6-21	0130	1.72	22	6-22	1345	2.82	140	6-23	2400	2.15	88
6-21	0230	1.68	18	6-22	1415	2.63	135				
6-21	0345	1.62	11	6-22	1530	2.40	132				
6-21	0615	1.60	9.4	6-22	2230	2.37	127	6-24	0015	2.15	88
6-21	1500	1.56	4.4	6-22	2300	2.58	164	6-24	1545	1.93	52
6-21	1530	1.50	4.3	6-22	2345	3.28	282	6-24	2100	2.02	66
6-21	2400	1.49	4.0	6-22	2400	3.11	257	6-24	2400	2.05	71
6-22	0630	1.50	4.3	6-23	0030	3.23	275	6-25	0015	2.06	73
6-22	0645	1.54	6.0	6-23	0100	3.68	342	6-25	0830	1.93	52
6-22	0745	1.53	5.5	6-23	0145	3.47	311	6-25	2130	1.84	39
6-22	0815	1.58	8.0	6-23	0200	3.82	357	6-25	2215	1.87	43
6-22	0845	1.66	16	6-23	0330	3.57	326	6-25	2400	1.85	40
6-22	0915	1.75	27	6-23	0930	2.95	231				
6-22	1115	2.22	84	6-23	1300	2.59	166				
6-22	1230	2.48	118	6-23	1615	2.30	114	6-26	0015	1.85	40
				6-23	1630	2.38	128	6-26	1715	1.70	21
				6-23	1745	2.22	100	6-26	2400	1.69	19

MONONGAHELA RIVER BASIN

(779) 03050000 TYGART VALLEY RIVER NEAR DAILEY, W. VA.

LOCATION.--Lat 38°48'35", long 79°52'55", Randolph County, on right bank 50 ft downstream from highway bridge, 1,000 ft upstream from Stalnaker Run, 1.0 mile northeast of Dailey, 2.5 miles south of Beverly, and at mile 95.7.

DRAINAGE AREA.--187 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 0830 hours June 27 to 0830 hours July 5. Datum of gage is 1,940.09 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 10,400 cfs 2000 hours June 23 (gage height, 12.77 ft). 1916 to May 1972: Discharge, 13,100 cfs Feb. 4, 1932 (gage height, 17.2 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	221	640	11...	62	177	21...	1,100	118
2....	152	450	12...	44	216	22...	1,920	90
3....	116	330	13...	38	149	23...	6,870	80
4....	94	290	14...	496	114	24...	4,740	63
5....	89	1,800	15...	660	90	25...	1,220	64
6....	77	2,250	16...	468	83	26...	664	57
7....	71	840	17...	768	69	27...	500	42
8....	59	471	18...	438	64	28...	450	51
9....	46	312	19...	306	300	29...	600	62
10...	59	219	20...	211	224	30...	500	372
						31...		804
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							768	351
RUNOFF,IN INCHES.....							4.58	2.17

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	1.86	207	6-22	2400	6.87	2,400	6-24	0100	12.16	8,850
6-21	0600	2.04	253					6-24	1800	7.00	2,480
6-21	0700	2.26	318					6-24	2400	5.69	1,730
6-21	1300	4.12	1,020	6-23	1300	11.42	7,290				
6-21	2100	6.68	2,290	6-23	1700	12.57	9,880				
6-21	2200	6.72	2,310	6-23	1800	12.71	10,200	6-25	0100	5.54	1,660
6-21	2400	6.64	2,260	6-23	2000	12.77	10,400	6-25	2400	3.74	856
				6-23	2100	12.70	10,200				
				6-23	2400	12.32	9,250				
6-22	1500	5.83	1,800					6-26	0100	3.69	836
6-22	2200	6.19	1,990					6-26	2400	2.90	520

(780) 03050500 TYGART VALLEY RIVER NEAR ELKINS, W. VA.

LOCATION.--Lat 38°55'30", long 79°52'45", Randolph County, on left bank 1.4 miles upstream from Leading Creek, 1.5 miles west of Elkins, and at mile 78.3.

DRAINAGE AREA.--272 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,893.95 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 10,800 cfs 0415 hours June 24 (gage height, 14.42 ft). 1945 to May 1972: Discharge, 13,100 cfs Dec. 31, 1969 (gage height, 15.65 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	292	844	11...	80	220	21...	828	143
2....	195	656	12...	77	233	22...	2,650	125
3....	153	436	13...	63	194	23...	7,760	115
4....	133	372	14...	158	145	24...	9,890	97
5....	121	2,820	15...	970	113	25...	2,770	97
6....	110	4,020	16...	494	110	26...	976	88
7....	95	1,300	17...	915	91	27...	672	76
8....	86	684	18...	576	76	28...	575	57
9....	74	415	19...	383	208	29...	800	59
10...	70	298	20...	268	310	30...	636	159
						31...		860
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,100	497
RUNOFF,IN INCHES.....							4.49	2.11

(783) 03052000 MIDDLE FORK RIVER AT AUDRA, W. VA.

LOCATION.--Lat 39°02'25", long 80°04'10", Barbour County, on right bank at Audra, 600 ft upstream from highway bridge, and at mile 2.7.

DRAINAGE AREA.--149 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,670 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 11,500 cfs 1430 hours June 23 (gage height, 13.67 ft). 1943 to May 1972: Discharge, 10,900 cfs Mar. 7, 1967 (gage height, 12.68 ft); gage height, 13.02 ft Oct. 16, 1954.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	188	1,500	11...	64	205	21...	223	158
2....	133	922	12...	47	183	22...	690	100
3....	108	635	13...	37	145	23...	8,120	87
4....	93	520	14...	49	110	24...	4,230	106
5....	89	1,890	15...	344	89	25...	1,740	122
6....	84	1,900	16...	178	138	26...	934	185
7....	69	1,010	17...	264	104	27...	725	118
8....	62	625	18...	205	73	28...	560	85
9....	49	424	19...	232	62	29...	1,690	66
10...	47	296	20...	180	299	30...	1,370	93
						31...		232
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							760	403
RUNOFF,IN INCHES.....							5.69	3.12

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.58	160	6-23	1015	12.71	10,200				
6-21	1830	2.71	193	6-23	1430	13.67	11,500	6-26	0015	4.73	1,190
6-21	2000	2.94	264	6-23	1830	12.92	10,500	6-26	2400	4.03	748
6-21	2145	3.52	488	6-23	2400	10.39	7,210				
6-21	2400	3.60	520								
								6-27	1645	4.03	748
				6-24	0015	10.17	6,920	6-27	2400	3.85	655
6-22	0830	3.71	564	6-24	1630	7.22	3,320				
6-22	2100	4.42	932	6-24	2400	6.35	2,520				
6-22	2400	4.92	1,270								
								6-28	0015	3.85	655
				6-25	0015	6.30	2,470	6-28	2015	3.60	530
6-23	0300	6.76	2,880	6-25	2400	4.74	1,200	6-28	2400	3.84	650
6-23	0500	8.93	5,310								

(784) 03052300 BRIDGE RUN NEAR BUCKHANNON, W. VA.

(Crest-stage station)

LOCATION.--39°00'41", long 80°17'25", Upshur County, on right upstream wingwall of culvert on U.S. Highway 33 and 119, and 3.3 miles west of Buckhannon.

DRAINAGE AREA.--2.60 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,419.06 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 160 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 145 cfs June 23 (gage height, 9.50 ft). 1967 to May 1972: Discharge, 330 cfs July 12, 1969 (gage height, 11.40 ft).

(785) 03052340 MUD LICK RUN NEAR BUCKHANNON, W. VA.

(Crest-stage station)

LOCATION.--Lat 39°00'17", long 80°15'23", Upshur County, on left upstream wingwall of culvert on U.S. Highway 33 and 119, 0.2 mile upstream from mouth, and 1.5 miles west of Buckhannon.

DRAINAGE AREA.--2.33 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 1,407.68 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 90 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 110 cfs June 23 (gage height, 6.72 ft). 1967 to May 1972: Discharge, 250 cfs July 12, 1969 (gage height, 7.90 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	3.01	316	6-22	2245	8.00	2,930				
6-20	0015	3.01	316	6-22	2400	8.29	3,130				
6-20	2400	2.72	245					6-25	0015	11.99	6,890
								6-25	0745	7.93	2,820
				6-23	1215	13.08	8,530	6-25	1515	6.35	1,760
6-21	0715	2.93	295	6-23	2400	14.35	10,600	6-25	2400	5.58	1,310
6-21	1145	3.51	464								
6-21	2400	7.03	2,250								
				6-24	0415	14.42	10,800	6-26	0015	5.56	1,300
				6-24	2145	12.88	8,220	6-26	1215	4.84	956
6-22	1215	7.59	2,640	6-24	2400	12.12	7,080	6-26	2400	4.39	776

(781) 03050650 UNNAMED RUN AT GILMAN, W. VA.

(Crest-stage station)

LOCATION.--Lat 38°58'35", long 79°50'16", Randolph County, at culvert on U.S. Highway 219, 0.3 mile northeast of Gilman, 0.4 mile upstream from mouth, and 3.7 miles north of Elkins.

DRAINAGE AREA.--0.38 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,940 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 25 cfs June 23 (gage height, 4.25 ft).
1964 to May 1972: Discharge, 310 cfs June 20, 1964 (gage height, 10.90 ft).

(782) 03051000 TYGART VALLEY RIVER AT BELINGTON, W. VA.

LOCATION.--Lat 39°01'45", long 79°56'10", Barbour County, on left bank opposite mouth of Mill Creek, 0.2 mile downstream from highway bridge at Belington, and at mile 61.5.

DRAINAGE AREA.--408 sq mi, excluding that of Mill Creek.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,679.49 ft above mean sea level, adjustment of 1912. Prior to Apr. 25, 1939, at site 0.2 mile upstream at same datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 18,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 15,800 cfs 2000 hours June 23 (gage height, 17.52 ft).
1888, 1908 to May 1972: Discharge, 21,200 cfs July 1888 (gage height, 21.7 ft, former site, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	460	1,870	11...	118	390	21...	516	283
2....	320	1,360	12...	118	340	22...	2,860	197
3....	241	879	13...	103	315	23...	11,400	187
4....	201	719	14...	108	245	24...	12,700	169
5....	187	4,240	15...	917	211	25...	4,740	178
6....	172	5,940	16...	609	330	26...	1,810	187
7....	151	2,340	17...	906	249	27...	1,290	151
8....	133	1,240	18...	763	187	28...	1,060	130
9....	118	758	19...	510	160	29...	1,980	108
10...	115	527	20...	375	445	30...	1,830	163
						31...		968
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,560	821
RUNOFF,IN INCHES.....							4.27	2.32

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.31	315	6-23	2000	17.52	15,800	6-26	0030	6.68	2,390
6-21	1400	3.43	375	6-23	2400	17.15	15,100	6-26	2200	5.34	1,450
6-21	1900	3.91	626					6-26	2400	5.28	1,420
6-21	2400	5.65	1,670								
				6-24	0030	17.08	15,000				
				6-24	2400	13.69	9,870	6-27	0030	5.27	1,410
								6-27	2400	4.91	1,200
6-22	1030	7.46	2,970								
6-22	2300	8.38	3,710								
6-22	2400	8.71	4,010	6-25	0030	13.56	9,680				
				6-25	1330	8.27	3,620	6-28	0300	4.92	1,200
				6-25	2400	6.72	2,410	6-28	2300	4.56	986
								6-28	2400	4.64	1,030
6-23	0600	12.71	8,550								
6-23	1830	17.47	15,700								

(786) 03052500 SAND RUN NEAR BUCKHANNON, W. VA.

LOCATION.--Lat 38°57'50", long 80°09'10", Upshur County, on right bank 300 ft downstream from Left Fork, 4.5 miles southeast of Buckhannon, and at mile 6.0.

DRAINAGE AREA.--14.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Altitude of gage is 1,530 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,050 cfs 1000 hours June 23 (gage height, 6.07 ft).
1947 to May 1972: Discharge, 2,000 cfs June 25, 1950 (gage height, 6.18 ft); gage height, 6.29 ft Mar. 19, 1963.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	13	190	11...	2.9	10	21...	8.1	2.3
2....	9.7	63	12...	2.4	8.5	22...	26	2.1
3....	7.5	37	13...	2.4	7.2	23...	647	2.8
4....	7.2	27	14...	13	5.6	24...	232	2.9
5....	10	225	15...	8.1	4.2	25...	80	2.4
6....	5.8	102	16...	7.2	7.8	26...	42	2.3
7....	5.3	45	17...	4.7	4.7	27...	36	3.4
8....	3.6	28	18...	3.7	3.9	28...	31	2.5
9....	3.1	19	19...	3.4	3.1	29...	82	2.0
10...	5.3	13	20...	2.8	2.5	30...	200	7.2
						31...		5.8
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							50	27
RUNOFF,IN INCHES.....							3.86	2.16

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	0.90	2.5	6-22	1930	1.64	28	6-25	2200	2.01	56
6-20	1200	0.90	2.5	6-22	2100	1.98	53	6-25	2400	1.98	53
6-20	2400	0.95	3.3	6-22	2400	2.62	146				
								6-26	0030	1.97	52
6-21	0500	0.97	3.6	6-23	0300	3.26	280	6-26	2100	1.77	35
6-21	0800	1.04	5.2	6-23	0800	5.66	913	6-26	2400	1.87	43
6-21	1430	1.19	9.6	6-23	1000	6.07	1,050				
6-21	1830	1.20	10	6-23	1100	5.92	1,000				
6-21	2000	1.29	13	6-23	2400	3.72	395	6-27	0300	1.90	45
6-21	2330	1.34	15					6-27	1700	1.72	32
6-21	2400	1.33	14					6-27	2400	1.64	28
				6-24	0030	3.68	385				
				6-24	1630	2.74	169				
6-22	0200	1.34	15	6-24	2400	2.48	121	6-28	1800	1.53	23
6-22	0400	1.39	17					6-28	2400	2.17	75
6-22	1200	1.32	14								
6-22	1730	1.41	17	6-25	0030	2.45	116				

(787) 03053500 BUCKHANNON RIVER AT HALL, W. VA.

LOCATION.--Lat 39°03'05", long 80°06'50", Barbour County, on right bank 0.2 mile upstream from highway bridge at Hall, 1.0 mile upstream from Pecks Run, and at mile 7.5.

DRAINAGE AREA.--277 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,369.15 ft above mean sea level (Baltimore & Ohio RR datum).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 10,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 12,000 cfs 0345 hours June 24 (gage height, 14.42 ft).
1908, 1916 to May 1972: Discharge, 13,000 cfs Mar. 7, 1967 (gage height, 15.07 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	294	2,590	11...	71	287	21...	235	157
2....	193	1,530	12...	79	240	22...	410	103
3....	146	970	13...	67	250	23...	7,300	86
4....	123	765	14...	72	190	24...	10,700	112
5....	143	1,840	15...	236	151	25...	4,420	84
6....	121	2,930	16...	237	214	26...	1,500	88
7....	103	1,570	17...	277	205	27...	1,250	106
8....	87	894	18...	297	147	28...	1,150	93
9....	75	597	19...	286	110	29...	1,610	68
10...	70	403	20...	306	112	30...	2,310	74
						31...		168
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,140	553
RUNOFF,IN INCHES.....							4.59	2.30

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.89	241					6-26	0015	7.26	2,140
6-21	2400	4.92	253					6-26	2000	6.37	1,170
				6-24	0345	14.42	13,000	6-26	2400	6.34	1,150
				6-24	2045	12.15	8,870				
6-22	2100	5.46	526	6-24	2400	11.40	7,820				
6-22	2400	5.82	744					6-27	1530	6.50	1,300
								6-27	2245	6.65	1,450
				6-25	0015	11.35	7,750	6-27	2400	6.63	1,430
6-23	0300	6.70	1,500	6-25	1730	7.91	2,980				
6-23	0630	8.29	3,480	6-25	2400	7.28	2,170				
6-23	1445	13.18	10,300					6-28	0030	6.63	1,430
6-23	2400	14.22	11,800					6-28	2400	6.10	950

(788) 03054500 TYGART VALLEY RIVER AT PHILIPPI, W. VA.

LOCATION.--Lat 39°09'00", long 80°02'25", Barbour County, on right bank at Philippi, 0.2 mile downstream from Anglins Run, 5.0 miles downstream from Buckhannon River, and at mile 44.9.

DRAINAGE AREA.--916 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,280.55 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 35,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 39,500 cfs 1900 hours June 23 (gage height, 24.67 ft).
1912, 1941 to May 1972: Discharge, 43,000 cfs Mar. 7, 1967 (gage height, 25.93 ft).
Flood of July 25, 1912, reached a stage of 27.3 ft, read on U.S. Weather Bureau gage 0.2 mile downstream, or about 26 ft, present site and datum.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	990	6,280	11...	245	1,030	21...	789	708
2....	764	4,390	12...	249	816	22...	3,560	426
3....	557	2,840	13...	231	834	23...	27,000	365
4....	444	2,270	14...	238	644	24...	28,300	375
5....	444	6,200	15...	1,180	508	25...	13,200	340
6....	400	11,300	16...	1,240	692	26...	5,050	450
7....	345	5,810	17...	1,340	708	27...	3,540	380
8....	296	3,180	18...	1,460	501	28...	3,110	330
9....	263	2,090	19...	1,080	375	29...	5,050	259
10...	256	1,450	20...	980	708	30...	5,860	256
						31...		990
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,620	1,860
RUNOFF,IN INCHES.....							4.40	2.33

(791) 03056600 RIGHT FORK WICKWIRE RUN ON U.S. HIGHWAY 119 NEAR GRAFTON, W. VA.

(Crest-stage station)

LOCATION.--Lat 39°22'44", long 79°57'48", Taylor County, at culvert at intersection of U.S. Highway 119 and Wickwire Road, 0.7 mile upstream from confluence with Wickwire Run, and 4.0 miles northeast of Grafton.

DRAINAGE AREA.--2.33 sq mi.

GAGE-HEIGHT RECORD.--Crest stage only. Altitude of gage is 1,310 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 220 cfs June 23 (gage height, 7.50 ft).
1965 to May 1972: Discharge, 430 cfs Dec. 30, 1969 (gage height, 9.60 ft).

(792) 03057000 TYGART VALLEY RIVER AT COLFAX, W. VA.

LOCATION.--Lat 39°26'15", long 80°07'55", Marion County, on right bank at highway bridge at Colfax, 300 ft upstream from Guyses Run, and at mile 6.0. Records include flow of Guyses Run.

DRAINAGE AREA.--1,366 sq mi, including that of Guyses Run.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1830 hours June 30 to 1300 hours July 20. Datum of gage is 855.49 ft above mean sea level (Baltimore & Ohio RR datum).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 19,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,800 cfs 2000 hours June 25 (gage height, 13.85 ft).
1940 to May 1972: Discharge, 22,500 cfs Feb. 14, 1948 (gage height, 16.86 ft); gage height, 19.77 ft Mar. 5, 1963 (backwater from West Fork River).

REMARKS.--Flow regulated by Tygart Lake (see sta 03055500).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	672	15,000	11...	452	1,800	21...	1,580	466
2....	664	15,000	12...	427	1,200	22...	1,640	374
3....	661	15,000	13...	342	900	23...	7,680	362
4....	662	13,000	14...	349	900	24...	7,290	355
5....	671	8,000	15...	423	900	25...	15,400	336
6....	638	7,000	16...	411	900	26...	16,200	342
7....	666	11,000	17...	386	900	27...	15,500	348
8....	666	10,000	18...	376	900	28...	14,700	353
9....	660	8,500	19...	532	900	29...	5,980	433
10...	650	4,500	20...	1,570	850	30...	5,000	444
						31...		463
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,430	3,917
RUNOFF,IN INCHES.....							2.80	3.31

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	5.32	1,510	6-23	2400	10.56	9,260				
6-20	1900	5.40	1,590					6-27	0145	13.44	15,700
6-20	2400	5.39	1,580					6-27	2400	13.20	15,100
				6-24	1115	8.40	5,560				
				6-24	1545	8.33	5,450				
6-21	1230	5.43	1,620	6-24	2400	12.16	12,600	6-28	0015	13.20	15,100
6-21	2400	5.39	1,580					6-28	2330	12.49	13,400
								6-28	2400	12.19	12,700
				6-25	1215	13.11	14,900				
6-22	2400	5.63	1,830	6-25	2000	13.85	16,800				
				6-25	2400	13.80	16,700	6-29	0015	12.03	12,300
								6-29	0845	8.92	6,390
6-23	0515	6.37	2,660					6-29	1330	8.20	5,240
6-23	0815	8.40	5,560	6-26	0100	13.81	16,700	6-29	1715	6.74	3,120
6-23	1500	11.70	11,600	6-26	2400	13.45	15,800	6-29	2400	6.91	3,340
6-23	1700	11.86	11,900								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	3.22	798	6-23	1900	24.67	39,500	6-26	0100	8.31	6,790
6-21	2100	3.24	816	6-23	2400	23.55	36,300	6-26	2200	5.93	3,940
6-21	2400	3.55	1,110					6-26	2400	5.86	3,850
				6-24	0100	23.19	35,300				
6-22	0400	4.66	2,410	6-24	2400	17.32	20,500	6-27	0100	5.82	3,800
6-22	2300	7.06	5,290					6-27	2400	5.59	3,530
6-22	2400	7.43	5,740								
				6-25	0100	17.32	20,500				
				6-25	2100	9.22	7,940	6-28	0100	5.58	3,520
6-23	0300	9.47	8,260	6-25	2400	8.52	7,040	6-28	2400	4.92	2,720
6-23	0800	17.61	21,100								
6-23	1600	24.23	38,200								

(789) 03055020 BONICA RUN ON U.S. HIGHWAY 250 NEAR PHILIPPI, W. VA.

(Crest-stage station)

LOCATION.--Lat 39°07'29", long 79°59'50", Barbour County, at culvert on U.S. Highway 250, 2.0 miles southwest of Philippi, and at mile 2.5.

DRAINAGE AREA.--0.60 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,680 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 86 cfs June 23 (gage height, 4.90 ft).
1965 to May 1972: Discharge, 156 cfs May 1, 1971 (gage height, 6.15 ft).

(790) 03055500 TYGART LAKE NEAR GRAFTON, W. VA.

LOCATION.--Lat 39°18'50", long 80°02'00", Taylor County, at dam on Tygart Valley River, 2.2 miles upstream from Threefork Creek, and 2.4 miles upstream from Grafton.

DRAINAGE AREA.--1,184 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed from capacity table dated Oct. 24, 1939.

MAXIMUMS.--June-July 1972: Contents, 251,100 acre-ft 1400 hours June 25 (elevation, 1,155.22 ft).
1939 to May 1972: Contents, 243,600 acre-ft July 26, 1958 (elevation, 1,152.72 ft).

REMARKS.--Reservoir is formed by concrete gravity dam completed and accepted February 1938; storage began May 15, 1938. Capacity, 285,000 acre-ft (from sedimentation resurvey made in 1959) between elevations 991.5 ft (sill of valves) and 1,167.0 ft (crest of spillway) above mean sea level. Dead storage, 2,700 acre-ft. Figures given herein represent total contents. Conservation pool elevation is 1,010.0 ft and water below elevation 991.5 ft cannot be withdrawn. Reservoir is used for flood control, for supplementary supply for navigation of Monongahela River during periods of low flow, and for recreation.

COOPERATION.--Records furnished by Corps of Engineers.

ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, AT 2400 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1...	1,095.41	113,700	1,129.92	183,700	16...	1,095.89	114,600	1,094.13	111,500
2...	1,095.77	114,400	1,122.18	166,400	17...	1,096.81	116,200	1,094.21	111,600
3...	1,095.84	114,500	1,112.90	146,800	18...	1,098.14	118,600	1,094.04	111,300
4...	1,095.80	114,400	1,104.30	130,100	19...	1,098.38	119,100	1,093.67	110,700
5...	1,095.70	114,200	1,103.90	129,400	20...	1,097.89	118,200	1,093.61	110,600
6...	1,095.61	114,100	1,111.66	144,400	21...	1,097.16	116,800	1,094.11	111,400
7...	1,095.38	113,700	1,108.95	139,100	22...	1,098.61	119,500	1,094.36	111,900
8...	1,095.08	113,100	1,103.11	127,900	23...	1,128.50	180,500	1,094.47	112,100
9...	1,094.72	112,500	1,097.42	117,300	24...	1,152.32	242,400	1,094.53	112,200
10..	1,094.49	112,100	1,094.84	112,700	25...	1,154.27	248,200	1,094.64	112,400
11..	1,094.34	111,800	1,094.51	112,100	26...	1,148.48	231,400	1,094.75	112,600
12..	1,094.23	111,700	1,094.25	111,700	27...	1,141.31	211,800	1,094.87	112,800
13..	1,094.20	111,600	1,094.37	111,900	28...	1,133.68	192,600	1,094.90	112,800
14..	1,094.21	111,600	1,094.32	111,800	29...	1,135.98	198,200	1,094.77	112,600
15..	1,094.64	112,400	1,094.16	111,500	30...	1,135.73	197,600	1,094.63	112,400
					31...			1,094.96	112,900
CHANGE IN CONTENTS.....							+84,600		-84,700

(793) 03057500 SKIN CREEK NEAR BROWNSVILLE, W. VA.

(Crest-stage station)

LOCATION.--Lat 38°58'30", long 80°26'40", Lewis County, 2.6 miles southeast of Brownsville, 4.7 miles southeast of Weston, and at mile 3.0.

DRAINAGE AREA.--25.7 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only (Water-stage-recorder graph). Altitude of gage is 1,030 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by slope-area measurements at 1,390 and 2,130 cfs.

MAXIMUMS.--June-July 1972: Discharge, 900 cfs about 1900 hours June 23 (gage height, 4.85 ft).
1946 to May 1972: Discharge, 2,280 cfs Feb. 10, 1957 (gage height, 7.90 ft); gage height, 8.64 ft June 25, 1950.

(794) 03058000 WEST FORK RIVER AT BROWNSVILLE, W. VA.

LOCATION.--Lat 39°00'10", long 80°28'35", Lewis County, on right bank at downstream side of highway bridge at Brownsville, 0.4 mile downstream from Skin Creek, 2.5 miles south of Weston, and at mile 71.0.

DRAINAGE AREA.--102 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 0700 hours July 13 to July 31. Datum of gage is 1,010.85 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,400 cfs and by contracted-opening measurement at 4,820 cfs and by slope-area measurements at 4,610 and 6,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,000 cfs 2200 hours June 23 (gage height, 9.89 ft).
1947 to May 1972: Discharge, 6,420 cfs June 25, 1950 (gage height, 17.20 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	23	1,020	11...	11	38	21...	21	30
2....	23	303	12...	10	32	22...	27	25
3....	18	148	13...	9.7	30	23...	969	25
4....	16	108	14...	12	25	24...	1,680	20
5....	15	266	15...	16	25	25...	462	20
6....	14	626	16...	15	95	26...	156	15
7....	13	232	17...	16	70	27...	298	15
8....	12	110	18...	18	50	28...	161	15
9....	11	70	19...	58	40	29...	114	15
10...	13	51	20...	34	30	30...	958	20
						31...		40
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							173	116
RUNOFF, IN INCHES.....							1.90	1.32

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0200	5.11	22	6-23	1900	9.65	1,880	6-25	0100	7.62	909
6-22	1800	5.16	31	6-23	2200	9.89	2,000	6-25	1000	6.47	448
6-22	2300	5.20	38	6-23	2400	9.86	1,980	6-25	2100	5.92	247
6-22	2400	5.22	43					6-25	2400	5.84	219
				6-24	0100	9.82	1,960				
6-23	0200	5.28	56	6-24	1800	8.88	1,490	6-26	0100	5.81	209
6-23	0500	5.49	108	6-24	2400	7.80	990	6-26	2000	5.52	117
6-23	0700	5.80	205					6-26	2200	5.61	143
6-23	0900	6.44	436					6-26	2400	5.63	150

(795) 03058500 WEST FORK RIVER AT BUTCHERVILLE, W. VA.

LOCATION.--Lat 39°05'25", long 80°28'05", Lewis County, on right bank at Butcherville, 0.5 mile upstream from Freemans Creek, 3,500 ft downstream from abandoned bridge on Weston-Clarksburg interurban electric railway, 3.0 miles north of Weston, and at mile 62.0.

DRAINAGE AREA.--181 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 993.0 ft above mean sea level (Department of Highways bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,500 cfs and by slope-area measurement at 18,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,790 cfs 2400 hours June 23 (gage height, 6.21 ft).
1916 to May 1972: Discharge, 18,000 cfs June 25, 1950 (gage height, 16.81 ft).
Flood of 1888 reached a stage of 17 ft at site 3,500 ft upstream, present datum, from information by local residents. The stage on that day may have been affected by backwater from a dam which has since been washed out.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	40	1,650	11...	21	110	21...	37	45
2....	38	596	12...	19	95	22...	38	41
3....	35	338	13...	16	85	23...	1,410	38
4....	30	251	14...	18	80	24...	2,360	33
5....	31	508	15...	19	78	25...	822	30
6....	26	976	16...	23	161	26...	276	27
7....	25	448	17...	22	114	27...	696	25
8....	22	234	18...	30	95	28...	314	23
9....	21	174	19...	68	65	29...	384	22
10...	22	138	20...	53	53	30...	1,610	30
						31...		65
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							284	213
RUNOFF,IN INCHES							1.75	1.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0200	1.15	36	6-23	2400	6.21	2,790	6-25	2300	2.76	448
6-22	1800	1.17	38					6-25	2400	2.73	436
6-22	2300	1.32	56								
6-22	2400	1.38	64	6-24	0100	6.20	2,780				
				6-24	2200	5.05	1,820	6-26	0100	2.70	349
				6-24	2400	4.79	1,620	6-26	2000	2.09	170
6-23	0300	1.79	154					6-26	2100	2.21	199
6-23	0600	2.48	352					6-26	2400	3.28	578
6-23	0900	3.37	732	6-25	0100	4.65	1,510				
6-23	1700	5.69	2,330	6-25	1100	3.45	763				

(796) 03059000 WEST FORK RIVER AT CLARKSBURG, W. VA.

LOCATION.--Lat 39°16'15", long 80°21'20", Harrison County, on downstream side of left abutment of Hartland Bridge on Camden Street at Clarksburg, 700 ft downstream from dam at Clarksburg waterworks, 1.2 miles upstream from Elk Creek, and at mile 32.4.

DRAINAGE AREA.--384 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 921.82 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 4,700 cfs 0730 hours June 24 (gage height, 9.36 ft).
1924 to May 1972: Discharge, 17,800 cfs Mar. 7, 1967 (gage height, 23.40 ft).

REMARKS.--Records of daily discharge include only flow over dam. Some water diverted for supply of city of Clarksburg. Occasional regulation of low flow by five reservoirs (combined capacity, 635,000,000 gal).

(798) 03061500 BUFFALO CREEK AT BARRACKVILLE, W. VA.

LOCATION.--Lat 39°30'15", long 80°10'20", Marion County, near center of span on downstream side of highway bridge at Barrackville, 1,700 ft upstream from Finchs Run, and at mile 4.0.

DRAINAGE AREA.--115 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 882.42 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,340 cfs 1100 hours July 17 (gage height, 6.77 ft).
1908, 1912, 1916-23, 1933 to May 1972: Discharge, 11,600 cfs July 1912 (gage height, about 18 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	33	184	11...	16	58	21...	21	74
2....	28	119	12...	14	48	22...	44	58
3....	27	649	13...	17	72	23...	808	46
4....	24	531	14...	29	345	24...	747	37
5....	33	385	15...	22	116	25...	331	33
6....	25	502	16...	29	164	26...	202	29
7....	19	242	17...	39	789	27...	167	24
8....	16	143	18...	27	325	28...	126	28
9....	16	103	19...	18	152	29...	168	25
10...	18	74	20...	16	102	30...	279	21
						31...		22
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							112	177
RUNOFF,IN INCHES							1.09	1.78

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
7-15	0030	3.44	159	7-16	2400	4.01	283				
7-15	0030	3.44	159					7-18	0015	4.91	544
7-15	1800	3.01	95					7-18	1345	4.01	283
7-15	2400	3.09	106	7-17	0515	4.20	330	7-18	2400	3.63	196
				7-17	0615	4.75	488				
				7-17	0900	6.50	1,200				
7-16	0800	3.40	152	7-17	1100	6.77	1,340	7-19	0015	3.63	196
7-16	1045	3.53	176	7-17	1330	6.51	1,210	7-19	2400	3.20	121
7-16	1730	3.47	165	7-17	2400	4.93	551				
7-16	2215	3.82	235								

(799) 03062400 COBUN CREEK AT MORGANTOWN, W. VA.

LOCATION.--Lat 39°36'30", long 70°57'20", Monongalia County, on left bank at Morgantown, 30 ft upstream from concrete box culvert on Greenbag Road, and at mile 1.4.

DRAINAGE AREA.--10.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0800 hours June 23 to 1600 hours June 23, June 24 to 1500 hours June 29; graph for June 23 reconstructed on basis of floodmark. Altitude of gage is 890 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,770 cfs about 0900 hours June 23 (gage height, 12.80 ft, from floodmarks).
1966 to May 1972: Discharge, 983 cfs Mar. 7, 1967 (gage height, 9.87 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.7	58	11...	2.4	24	21...	4.6	5.0
2....	2.7	34	12...	1.9	22	22...	10	2.0
3....	2.4	42	13...	2.6	22	23...	765	1.5
4....	5.8	48	14...	6.8	19	24...	220	1.2
5....	11	41	15...	4.8	12	25...	90	1.1
6....	4.3	38	16...	8.6	34	26...	60	.96
7....	3.4	29	17...	6.1	38	27...	33	.84
8....	2.9	19	18...	4.6	28	28...	20	1.3
9....	2.4	12	19...	3.5	19	29...	50	.96
10...	3.0	12	20...	4.3	12	30...	103	.74
						31...		.84
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							48	19
RUNOFF,IN INCHES							4.92	1.98

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	41	3,060	11...	45	234	21...	98	90
2....	52	1,630	12...	37	193	22...	92	47
3....	59	876	13...	33	154	23...	1,300	37
4....	53	848	14...	59	148	24...	4,340	69
5....	52	904	15...	109	128	25...	2,280	57
6....	53	1,670	16...	73	425	26...	808	47
7....	53	1,230	17...	59	425	27...	1,160	42
8....	45	645	18...	55	286	28...	995	38
9....	39	435	19...	48	189	29...	1,250	41
10...	50	290	20...	65	125	30...	2,180	38
						31...		81
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							519	467
RUNOFF,IN INCHES.....							1.51	1.40

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0030	3.66	96								
6-22	2330	3.65	94	6-24	0730	9.36	4,700	6-26	0015	5.75	1,210
6-22	2400	3.73	111	6-24	1115	9.31	4,640	6-26	1315	5.07	742
				6-24	2400	8.28	3,580	6-26	2400	4.81	596
6-23	0215	3.96	207								
6-23	0745	4.69	546	6-25	0015	8.23	3,430	6-27	0715	4.91	662
6-23	1415	5.73	1,210	6-25	2330	5.81	1,320	6-27	1500	6.25	1,610
6-23	2400	8.63	3,760	6-25	2400	5.77	1,290	6-27	1745	6.29	1,640
								6-27	2400	6.03	1,430

(797) 03061000 WEST FORK RIVER AT ENTERPRISE, W. VA.

LOCATION.--Lat 39°25'20", long 80°16'40", Harrison County, on left bank 150 ft downstream from highway bridge at Enterprise, 0.8 mile upstream from Bingamon Creek, and at mile 12.1.

DRAINAGE AREA.--759 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except June 1 to 1100 hours June 20, 1700 hours June 23 to 1500 hours July 19; graph for periods of no gage-height record reconstructed on basis of once-daily telemark readings and floodmark. Datum of gage is 869.45 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 21,000 cfs and by slope-area measurements at 30,200 and 36,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,740 cfs about 0800 hours June 24 (gage height, 12.10 ft, from floodmark).
1908-16, 1934 to May 1972: Discharge, 36,500 cfs Mar. 7, 1967 (gage height, 28.05 ft). Flood in 1888 reached a stage of about 33 ft.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	278	3,540	11...	226	575	21...	313	278
2....	248	2,520	12...	207	470	22...	376	248
3....	232	1,700	13...	184	425	23...	3,590	175
4....	238	2,140	14...	216	440	24...	8,280	216
5....	254	1,680	15...	372	394	25...	3,950	213
6....	270	2,950	16...	360	888	26...	2,060	187
7....	245	2,040	17...	291	1,200	27...	2,640	175
8....	216	1,320	18...	245	990	28...	2,200	172
9....	198	960	19...	220	480	29...	2,520	169
10...	198	725	20...	229	340	30...	2,670	172
						31...		195
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,120	902
RUNOFF,IN INCHES.....							1.64	1.37

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-23	0200	2.35	403								
6-23	0400	2.69	570					6-25	0100	8.79	5,770
6-23	0800	3.67	1,120	6-24	0800	12.10	9,740	6-25	2100	5.96	2,830
6-23	1100	5.61	2,550	6-24	1100	11.73	9,250	6-25	2400	5.68	2,600
6-23	1900	9.71	6,780	6-24	2400	8.98	5,980				
6-23	2400	10.99	8,290								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0200	0.84	4.5								
6-22	1500	0.88	5.5	6-23	0300	4.44	250				
6-22	1700	0.94	7.5	6-23	0500	6.25	452	6-24	0100	5.17	327
6-22	2200	1.31	25	6-23	0900	12.30	1,770	6-24	2100	3.10	146
6-22	2300	1.53	36	6-23	1600	7.32	691	6-24	2400	2.87	130
6-22	2400	2.10	70	6-23	2000	6.15	441				
				6-23	2400	5.30	340				

(800) 03062500 DECKERS CREEK AT MORGANTOWN, W. VA.

(Gaging station, discontinued 1969)

LOCATION.--Lat 39°37'45", long 79°57'10", Monongalia County, on left bank at Kingwood Street, in Morgantown, 0.6 mile upstream from mouth.

DRAINAGE AREA.--63.2 sq mi.

GAGE-HEIGHT RECORD.--Peak stage determined from floodmark in well. Altitude of gage is 820 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs and by slope-area measurement at 5,630 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,120 cfs June 23 (gage height, 9.40 ft).
1947-69: Discharge, 5,680 cfs Aug. 5, 1956 (gage height, 10.12 ft).

(801) 03063600 HORSECAMP RUN AT HARMAN, W. VA.

LOCATION.--Lat 38°54'51", long 79°30'32", Randolph County, on right bank 1.0 mile southeast of Harman, and at mile 1.1.

DRAINAGE AREA.--6.57 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 2,510.93 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 90 cfs and extended above on basis of step-backwater method.

MAXIMUMS.--June-July 1972: Discharge, 223 cfs 0530 hours June 23 (gage height, 3.58 ft).
1970 to May 1972: Discharge, 304 cfs Dec. 22, 1970 (gage height, 4.02 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3.7	19	11...	1.4	5.1	21...	58	1.2
2....	3.0	13	12...	1.1	4.0	22...	66	1.1
3....	2.4	10	13...	1.4	3.5	23...	135	.96
4....	2.2	9.3	14...	5.1	2.8	24...	48	.89
5....	2.1	58	15...	6.5	2.4	25...	25	1.2
6....	2.0	42	16...	14	2.1	26...	16	.92
7....	1.9	22	17...	10	1.9	27...	10	.87
8....	1.4	13	18...	10	1.7	28...	13	.94
9....	1.2	9.2	19...	12	1.4	29...	41	.95
10...	2.1	6.8	20...	12	1.3	30...	28	4.8
						31...		3.0
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							18	7.9
RUNOFF,IN INCHES.....							3.03	1.39

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.57	9.3								
6-20	0945	1.56	9.0					6-24	1730	2.07	40
6-20	1230	1.67	13	6-22	2015	2.32	61	6-24	2400	1.98	33
6-20	2400	1.70	15	6-22	2300	2.52	80				
				6-22	2400	2.70	98	6-25	0030	1.99	33
								6-25	2400	1.77	18
6-21	0430	1.77	18								
6-21	0515	1.95	30	6-23	0530	3.58	223				
6-21	0545	2.26	55	6-23	0545	3.55	218	6-26	1845	1.70	15
6-21	0930	2.34	63	6-23	1645	2.72	100	6-26	2115	1.80	20
6-21	1130	2.49	77	6-23	2400	2.44	72	6-26	2130	1.79	19
6-21	1445	2.50	78					6-26	2400	1.74	17
6-21	2115	2.38	66								
6-21	2400	2.40	68	6-24	0015	2.43	71				

(802) 03065000 DRY FORK AT HENDRICKS, W. VA.

LOCATION.--Lat 39°04'20", long 79°37'20", Tucker County, on right bank at Hendricks, 0.4 mile upstream from confluence with Blackwater River.

DRAINAGE AREA.--345 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,698.76 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 15,000 cfs and by slope-area measurement at 47,200 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,900 cfs 1000 hours June 23 (gage height, 9.67 ft).
1941 to May 1972: Discharge, 47,000 cfs Oct. 15, 1954 (gage height, 15.23 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	424	1,280	11...	136	410	21...	1,320	262
2....	293	918	12...	113	325	22...	3,670	194
3....	238	756	13...	95	292	23...	13,000	151
4....	204	792	14...	195	242	24...	5,940	124
5....	182	4,090	15...	441	207	25...	2,710	124
6....	161	3,240	16...	539	198	26...	1,640	124
7....	150	1,710	17...	810	177	27...	1,320	94
8....	135	1,060	18...	721	147	28...	925	100
9....	117	752	19...	651	224	29...	2,460	94
10...	150	540	20...	412	476	30...	1,730	233
						31...		720
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,360	647
RUNOFF,IN INCHES.....							4.41	2.16

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.20	390	6-23	0900	9.62	16,700				
6-21	0900	2.45	563	6-23	1000	9.67	16,900	6-26	0030	3.88	1,980
6-21	1200	2.80	840	6-23	2400	7.59	9,470	6-26	2230	3.45	1,480
6-21	1930	4.42	2,740					6-26	2400	3.52	1,550
6-21	2400	4.64	3,080								
				6-24	0030	7.48	9,140				
				6-24	1500	5.65	4,900	6-27	0100	3.53	1,560
6-22	1100	4.97	3,650	6-24	2400	4.97	3,650	6-27	2400	3.06	1,080
6-22	2030	5.10	3,880								
6-22	2400	5.96	5,520								
				6-25	0030	4.93	3,570	6-28	0100	3.05	1,070
				6-25	2400	3.89	2,000	6-28	2330	2.83	867
6-23	0330	7.83	10,200					6-28	2400	2.93	957

(803) 03066000 BLACKWATER RIVER AT DAVIS, W. VA.

LOCATION.--Lat 39°07'35", long 79°28'10", Tucker County, on right bank 0.4 mile southwest of Davis, 0.5 mile downstream from Beaver Creek, and at mile 10.6.

DRAINAGE AREA.--86.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 3,058.87 ft above mean sea level (levels by West Virginia Power and Transmission Co.).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,920 cfs 1700 hours June 23 (gage height, 6.86 ft).
1922 to May 1972: Discharge, 7,170 cfs Mar. 29, 1924 (gage height, 13.20 ft, from floodmark).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	111	292	11...	44	121	21...	140	51
2....	77	192	12...	30	100	22...	400	39
3....	62	177	13...	26	86	23...	1,720	33
4....	53	191	14...	72	72	24...	1,680	29
5....	46	1,020	15...	87	71	25...	924	44
6....	40	970	16...	116	69	26...	430	48
7....	39	458	17...	89	65	27...	288	38
8....	34	264	18...	59	56	28...	199	50
9....	30	192	19...	77	56	29...	537	39
10...	47	145	20...	80	70	30...	446	52
						31...		104
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							266	168
RUNOFF,IN INCHES.....							3.44	2.24

(805) 03069500 CHEAT RIVER NEAR PARSONS, W. VA.

LOCATION.--Lat 39°07'20", long 79°40'50", Tucker County, on left bank 2.0 miles north of Parsons, 3.0 miles downstream from confluence of Black and Shavers Forks, and at mile 74.8.

DRAINAGE AREA.--718 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,589.66 ft above mean sea level, adjustment of 1912. Prior to Aug. 17, 1944, nonrecording gage on Moss Bridge about 1,600 ft upstream at datum 1.13 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 26,000 cfs and by slope-area measurement at 52,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 33,600 cfs 1300 hours June 23 (gage height, 13.79 ft).
1888 to May 1972: Discharge, 52,100 cfs Oct. 15, 1954 (gage height, 19.08 ft); gage height, 20.5 ft July 10, 1888, from floodmarks, at site and datum in use prior to Aug. 17, 1944.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,060	2,830	11...	320	1,080	21...	2,310	923
2....	687	2,230	12...	282	874	22...	8,050	655
3....	532	1,770	13...	228	753	23...	27,300	529
4....	446	2,000	14...	340	633	24...	14,400	448
5....	398	9,580	15...	2,380	553	25...	6,510	454
6....	356	7,990	16...	1,440	628	26...	3,870	444
7....	325	4,130	17...	2,260	512	27...	3,160	342
8....	297	2,660	18...	1,530	423	28...	2,300	337
9....	265	1,930	19...	1,460	706	29...	4,640	375
10...	296	1,420	20...	982	1,920	30...	3,670	642
						31...		2,600
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,070	1,690
RUNOFF,IN INCHES.....							4.77	2.71

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	3.48	848								
6-21	1200	3.74	1,090	6-23	0400	10.66	19,600	6-25	0100	7.60	8,630
6-21	1500	4.15	1,570	6-23	0900	13.57	32,600	6-25	2400	6.12	4,800
6-21	1900	5.45	3,490	6-23	1300	13.79	33,600				
6-21	2200	7.13	7,310	6-23	2100	12.39	27,300				
6-21	2300	7.18	7,450	6-23	2400	11.44	23,000	6-26	0100	6.07	4,700
6-21	2400	7.13	7,310					6-26	2400	5.42	3,440
				6-24	0100	11.14	21,700				
6-22	2200	7.70	8,920	6-24	1900	8.23	10,600	6-27	0400	5.48	3,540
6-22	2400	8.36	11,000	6-24	2400	7.69	8,890	6-27	2400	4.95	2,670

(806) 03069650 RIGHT FORK CLOVER RUN NEAR PARSONS, W. VA.

(Crest-stage station)

LOCATION.--Lat 39°09'10", long 79°45'46", Tucker County, on left bank 12 ft upstream from culvert entrance, at intersection of State Route 38 and Secondary Route 15/5, and 6.0 miles northwest of Parsons.

DRAINAGE AREA.--2.21 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Altitude of gage is 1,900 ft (from topographic map).

MAXIMUMS.--June-July 1972: Gage height, 4.50 ft June 23.
1967 to May 1972: Gage height, 8.00 ft May 24, 1968.

(807) 03069850 LONG RUN NEAR PARSONS, W. VA.

(Crest-stage station)

LOCATION.--Lat 39°15'32", long 79°43'18", Tucker County, on left bank 8.0 ft upstream from entrance to culvert on State Route 72, 0.1 mile southeast of Tucker County line, and 11.0 miles north of Parsons.

DRAINAGE AREA.--0.95 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,690 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 65 cfs June 23 (gage height, 7.36 ft).
1967 to May 1972: Discharge, 205 cfs Aug. 10, 1969 (gage height, 10.10 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	1.85	62	6-23	1700	6.86	1,920	6-26	0100	3.86	561
6-21	0900	1.93	74	6-23	2400	6.72	1,830	6-26	2000	3.22	361
6-21	1000	2.03	89					6-26	2400	3.15	343
6-21	1100	2.00	84								
6-21	2200	2.90	280	6-24	0500	6.80	1,880				
6-21	2400	2.99	303	6-24	2200	5.81	1,360	6-27	0100	3.13	338
				6-24	2400	5.66	1,300	6-27	2400	2.74	240
6-22	2000	3.46	433								
6-22	2400	4.56	824	6-25	0100	5.58	1,260	6-28	0100	2.72	235
				6-25	2400	3.92	582	6-28	2200	2.52	185
								6-28	2300	2.55	193
6-23	0600	6.54	1,720					6-28	2400	2.62	210

(804) 03069000 SHAVERS FORK AT PARSONS, W. VA.

LOCATION.--Lat 39°05'45", long 79°40'40", Tucker County, on right bank at Parsons, 0.7 mile upstream from confluence with Black Fork.

DRAINAGE AREA.--214 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,634.87 ft above mean sea level. Prior to Aug. 25, 1923, at site 800 ft downstream and Aug. 25, 1923 to Sept. 30, 1926 at site 260 ft downstream. Prior to Oct. 1, 1926 at datum 3.00 ft lower.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs and extended above on basis of slope-conveyance study.

MAXIMUMS.--June-July 1972: Discharge, 11,800 cfs 1345 hours June 23 (gage height, 10.15 ft). 1888, 1907, 1911-26, 1941 to May 1972: Discharge, 25,000 cfs July 10, 1888, July 17, 1907 (gage height, about 12.5 ft, site and datum in use prior to Aug. 23, 1923).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	425	730	11...	143	327	21...	1,080	405
2....	274	672	12...	133	278	22...	3,300	315
3....	216	485	13...	128	250	23...	9,620	271
4....	183	588	14...	216	219	24...	3,050	236
5....	165	3,450	15...	1,690	192	25...	1,920	216
6....	145	2,560	16...	649	232	26...	1,170	198
7....	133	1,200	17...	1,050	183	27...	1,030	158
8....	130	744	18...	602	153	28...	772	143
9....	128	535	19...	471	319	29...	1,100	198
10...	128	405	20...	363	904	30...	793	524
						31...		1,330
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,040	594
RUNOFF,IN INCHES.....							5.42	3.20

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.87	415								
6-20	0015	1.87	415	6-23	0900	9.81	11,100				
6-20	2400	1.68	327	6-23	1345	10.15	11,800	6-27	0100	2.99	1,190
				6-23	1745	9.28	10,100	6-27	2400	2.58	864
				6-23	2400	7.35	6,700				
6-21	1215	1.86	410								
6-21	1630	2.19	594					6-28	1915	2.30	665
6-21	1700	2.69	952	6-24	0015	7.29	6,590	6-28	2345	3.03	1,220
6-21	1745	3.88	2,010	6-24	1745	4.89	3,120	6-28	2400	3.04	1,230
6-21	1900	5.26	3,560	6-24	2400	4.37	2,540				
6-21	2030	5.52	3,900								
6-21	2330	5.14	3,420					6-29	0515	3.10	1,280
6-21	2400	5.08	3,350	6-25	0015	4.35	2,520	6-29	1600	2.74	992
				6-25	2400	3.21	1,380	6-29	2400	2.63	904
6-22	0730	4.65	2,850								
6-22	2015	5.47	3,830	6-26	0015	3.20	1,370	6-30	0015	2.62	896
6-22	2400	6.89	5,920	6-26	1915	2.83	1,060	6-30	2400	2.33	685
				6-26	2400	2.99	1,190				

(808) 03069880 BUFFALO CREEK NEAR ROWLESBURG, W. VA.

LOCATION.--Lat 39°17'19", long 79°42'16" Preston County, on left bank 150 ft upstream from secondary highway bridge, 4.5 miles southwest of Rowlesburg, and at mile 2.8.

DRAINAGE AREA.--12.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2215 hours July 8 to July 31. Altitude of gage is 1,640 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,500 cfs and extended above on basis of step-backwater method.

MAXIMUMS.--June-July 1972: Discharge, 1,520 cfs 0545 hours June 23 (gage height, 4.56 ft). 1968 to May 1972: Discharge, 2,690 cfs Sept. 13, 1971 (gage height, 5.66 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	6.2	48	11...	3.2	11	21...	5.1	8.5
2....	5.1	23	12...	2.7	9.0	22...	68	6.5
3....	4.4	22	13...	2.7	8.0	23...	1,010	5.0
4....	4.0	66	14...	4.6	7.0	24...	326	4.5
5....	4.4	143	15...	4.2	6.5	25...	108	4.0
6....	3.6	71	16...	3.8	6.5	26...	71	4.5
7....	3.4	34	17...	3.8	5.5	27...	38	4.0
8....	3.0	20	18...	4.0	4.5	28...	26	3.5
9....	2.8	16	19...	4.4	4.0	29...	124	3.0
10...	4.2	13	20...	3.6	11	30...	91	3.5
						31...		12
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							65	19
RUNOFF,IN INCHES.....							5.93	1.79

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.05	3.5	6-23	0600	4.55	1,520				
6-21	0700	1.07	4.0	6-23	2330	3.19	575				
6-21	1045	1.10	4.5	6-23	2400	3.22	590	6-27	0045	1.56	52
6-21	1530	1.13	6.1					6-27	1130	1.45	36
6-21	1945	1.14	6.7					6-27	1330	1.46	38
6-21	2230	1.17	8.3	6-24	0015	3.21	585	6-27	1945	1.40	30
6-21	2400	1.18	8.8	6-24	1045	2.66	334	6-27	2400	1.37	26
				6-24	1830	2.22	186				
				6-24	2400	2.00	130				
6-22	0500	1.23	13								
6-22	1700	1.44	35					6-28	1715	1.29	18
6-22	1845	1.56	52	6-25	0030	2.00	130	6-28	1745	1.29	18
6-22	2015	1.86	102	6-25	2400	1.82	95	6-28	2000	1.32	21
6-22	2145	2.37	231					6-28	2130	1.38	27
6-22	2400	3.22	590					6-28	2145	1.42	32
				6-26	0030	1.82	95	6-28	2215	1.62	61
				6-26	2100	1.59	57	6-28	2330	1.65	66
6-23	0545	4.56	1,520	6-26	2400	1.56	52	6-28	2400	1.64	64

(809) 03070000 CHEAT RIVER AT ROWLESBURG, W. VA.

LOCATION.--Lat 39°20'50", long 79°40'00", Preston County, on left bank 50 ft downstream from Baltimore & Ohio Railroad bridge at Rowlesburg, 300 ft upstream from Saltlick Creek, and at mile 44.1. Records include flow of Saltlick Creek.

DRAINAGE AREA.--972 sq mi, including that of Saltlick Creek.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,369.8 ft above mean sea level (Baltimore & Ohio RR bench mark). At several sites within 500 ft of present site at various datums prior to Nov. 18, 1923.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 42,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 55,000 cfs 1445 hours June 23 (gage height, 13.46 ft). 1844, 1888, 1912-18, 1921, 1925 to May 1972: Discharge, 89,000 cfs July 6, 1844 (gage height, 16.7 ft, referred to present gage by relation curve).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,330	3,960	11...	376	1,500	21...	1,150	1,420
2....	1,050	3,100	12...	369	1,210	22...	7,960	839
3....	770	2,340	13...	327	1,010	23...	40,500	698
4....	640	2,390	14...	369	904	24...	25,500	570
5....	560	8,470	15...	1,970	751	25...	10,000	510
6....	488	12,100	16...	1,590	798	26...	5,790	570
7....	430	6,110	17...	2,260	744	27...	4,400	493
8....	390	3,720	18...	1,890	599	28...	3,310	411
9....	355	2,620	19...	1,750	501	29...	7,010	393
10...	348	1,960	20...	1,380	1,570	30...	5,740	444
						31...		2,110
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							4,330	2,090
RUNOFF, IN INCHES							4.97	2.48

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.90	1,160	6-23	1400	13.40	54,500				
6-21	2115	1.96	1,240	6-23	1445	13.46	55,000				
6-21	2400	2.13	1,500	6-23	2400	12.22	44,800	6-26	0015	4.75	7,290
								6-26	2400	3.76	4,700
6-22	0115	2.58	2,250	6-24	0015	12.14	44,200				
6-22	0200	3.21	3,450	6-24	1345	8.66	21,800	6-27	1000	3.75	4,680
6-22	0330	4.67	7,050	6-24	2400	6.82	14,000	6-27	2400	3.37	3,790
6-22	2345	6.05	11,300								
6-22	2400	6.10	11,500								
				6-25	0015	6.78	13,900	6-28	0030	3.36	3,770
				6-25	2330	4.79	7,400	6-28	1930	3.05	3,120
6-23	0345	8.02	18,700	6-25	2400	4.77	7,340	6-28	2400	3.28	3,600

(810) 03070500 BIG SANDY CREEK AT ROCKVILLE, W. VA.

LOCATION.--Lat 39°37'15", long 79°42'20", Preston County, on right bank just downstream from highway bridge at Rockville, and at mile 5.0.

DRAINAGE AREA.--200 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Altitude of gage is 1,310 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 10,000 cfs and extended above on basis of velocity-area studies.

MAXIMUMS.--June-July 1972: Discharge, 16,200 cfs 1400 hours June 23 (gage height, 15.86 ft). 1888, 1910 to May 1972: Discharge, about 30,000 cfs July 10, 1888 (gage height, about 20 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	106	715	11...	66	220	21...	150	59
2....	89	482	12...	45	174	22...	620	49
3....	80	513	13...	43	148	23...	11,900	42
4....	72	885	14...	91	128	24...	5,800	36
5....	103	627	15...	127	106	25...	2,330	32
6....	74	747	16...	101	112	26...	1,420	30
7....	61	602	17...	194	128	27...	861	26
8....	52	461	18...	116	115	28...	587	25
9....	44	357	19...	160	92	29...	882	25
10...	73	273	20...	164	73	30...	1,110	24
						31...		26
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							917	237
RUNOFF, IN INCHES							5.12	1.36

(812) 03072500 MONONGAHELA RIVER AT GREENSBORO, PA.

LOCATION.--Lat 39°47'15", long 79°55'26", Greene County, on left bank on land guide wall, 950 ft upstream from dam at lock 7, at Greensboro, 0.4 mile upstream from Georges Creek, 2.0 miles downstream from Dunkard Creek, 4.3 miles downstream from Cheat River, and at mile 85.2.

DRAINAGE AREA.--4,407 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 767.55 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 103,000 cfs 2015 hours June 23 (gage height, 23.64 ft). 1939 to May 1972: Discharge, 134,000 cfs Mar. 7, 1967 (gage height, 29.61 ft). Flood of July 1888 reached a stage of about 36 ft, from high-water profile by Corps of Engineers. Flood of Mar. 18, 1936, reached a stage of 28.4 ft (discharge, 130,000 cfs).

REMARKS.--Flow regulated since 1938 by Tygart Lake 66 miles upstream (see station 03055500) and since 1926 by Lake Lynn 8 miles upstream (combined capacity, 357,000 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,910	27,000	11...	753	4,490	21...	5,370	3,580
2....	3,100	21,400	12...	1,750	4,720	22...	9,170	1,760
3....	1,590	22,900	13...	1,680	3,610	23...	73,200	879
4....	1,170	22,900	14...	3,260	3,280	24...	65,600	1,520
5....	2,500	20,800	15...	1,750	2,120	25...	39,800	2,020
6....	2,340	24,800	16...	4,600	2,690	26...	32,000	1,300
7....	1,600	24,800	17...	1,670	5,720	27...	27,200	1,510
8....	1,820	20,400	18...	3,170	3,930	28...	25,100	1,380
9....	2,060	12,100	19...	2,920	2,490	29...	24,100	983
10...	1,550	11,400	20...	5,920	2,800	30...	19,900	800
						31...		2,290
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							12,400	8,460
RUNOFF, IN INCHES							3.13	2.21

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	12.41	5,270	6-23	1100	22.41	94,300	6-28	0815	14.76	20,100
6-21	0230	11.90	3,330	6-23	2015	23.64	103,000	6-28	0945	14.87	21,000
6-21	0715	11.64	2,490	6-23	2400	22.89	98,100	6-28	1245	15.53	26,400
6-21	0800	11.72	2,740					6-28	2130	15.72	28,100
6-21	0915	12.55	5,900					6-28	2400	16.11	31,600
6-21	1230	13.18	9,090	6-24	0015	22.76	97,100				
6-21	1315	12.70	6,610	6-24	1445	18.25	55,700				
6-21	1500	13.13	8,820	6-24	2400	17.33	44,700	6-29	0015	16.14	31,900
6-21	1545	12.63	6,270					6-29	1645	14.84	20,700
6-21	1900	12.14	4,180					6-29	1900	14.93	21,400
6-21	2100	11.89	3,300	6-25	0030	17.31	44,400	6-29	2130	14.37	17,100
6-21	2215	12.86	7,400	6-25	2400	16.44	34,900	6-29	2400	14.56	18,500
6-21	2400	13.28	9,680								
				6-26	0145	16.52	35,700	6-30	1215	14.62	19,000
6-22	0345	12.63	6,270	6-26	2400	16.00	30,600	6-30	1730	14.82	20,600
6-22	0515	12.08	3,960					6-30	2400	15.65	27,500
6-22	0830	11.61	2,400								
6-22	0900	11.59	2,340	6-27	0215	16.01	30,700				
6-22	0915	11.72	2,740	6-27	0545	15.47	25,900	7-01	0430	15.50	26,200
6-22	1045	12.85	7,350	6-27	0900	14.79	20,300	7-01	0830	14.92	21,400
6-22	2400	14.39	17,200	6-27	1215	15.62	27,200	7-01	1145	15.81	28,900
				6-27	2400	15.71	28,000	7-01	1215	15.83	29,100
								7-01	2300	15.47	25,900
6-23	0415	15.05	22,400					7-01	2400	15.08	22,600
6-23	0545	16.22	32,700	6-28	0300	15.27	24,200				

(813) 03072590 GEORGES CREEK AT SMITHFIELD, PA.

LOCATION.--Lat 39°47'44", long 79°47'47", Fayette County, on right bank at downstream side of bridge on Georges Township Road at Smithfield, 1.6 miles upstream from Mountain Creek, and 2.5 miles southwest of Fairchance.

DRAINAGE AREA.--16.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except June 16-26. Datum of gage is 959.44 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 480 cfs and by slope-area measurement at 1,640 cfs. Daily discharge for June 16-26 based on a gage reading made June 24, floodmarks, and correlations with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 1,640 cfs June 23 (gage height, 10.01 ft, from floodmarks). 1964 to May 1972: Discharge, 1,100 cfs Mar. 6, 1967 (gage height, 6.80 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	0200	4.37	98								
6-19	0400	4.49	115	6-23	0900	14.56	13,000	6-28	0100	6.31	656
6-19	0800	4.85	174	6-23	1400	15.86	16,200	6-28	2400	5.93	482
6-19	1700	4.94	192	6-23	1600	15.76	16,000				
6-19	2100	4.86	176	6-23	2400	13.88	11,400				
6-19	2400	4.80	164					6-29	0500	6.21	605
								6-29	1400	6.87	1,030
				6-24	0100	13.46	10,000	6-29	2100	6.98	1,110
6-20	0700	4.82	168	6-24	0900	11.14	6,010	6-29	2400	7.19	1,270
6-20	1100	4.88	180	6-24	2400	8.97	2,970				
6-20	2400	4.71	148								
								6-30	0400	7.24	1,310
				6-25	0100	8.88	2,870	6-30	2400	6.66	882
6-21	2100	4.79	162	6-25	2400	7.84	1,810				
6-21	2400	4.90	184								
								7-01	0100	6.63	861
				6-26	0100	7.79	1,760	7-01	2400	6.13	565
6-22	1800	6.12	560	6-26	2400	6.92	1,060				
6-22	1900	6.27	635								
6-22	2000	6.60	840					7-02	0100	6.10	550
6-22	2300	8.46	2,410	6-27	0100	6.89	1,040	7-02	2400	5.77	418
6-22	2400	9.18	3,220	6-27	2400	6.33	668				

(811) 03072000 DUNKARD CREEK AT SHANNOPIN, PA.

LOCATION.--Lat 39°45'33", long 79°58'15", Green County, on left bank at Shannopin, 1,300 ft upstream from highway bridge at mine buildings, 1.2 miles north of Dunkard, 3.5 miles upstream from mouth, and 4 miles southwest of Greensboro.

DRAINAGE AREA.--229 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals except 0800 hours June 25 to July 3. Altitude of gage is 806 ft (by barometer).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9,300 cfs and by slope-area measurement at 16,800 cfs. Record for June 25 to July 3 based on correlation with records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 5,900 cfs 1600 hours June 23 (gage height, 9.49 ft).
1941 to May 1972: Discharge, 16,800 cfs June 4, 1941 (gage height, 14.02 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	61	700	11...	30	164	21...	49	87
2...	62	400	12...	28	142	22...	78	72
3...	51	500	13...	31	113	23...	3,820	61
4...	50	2,030	14...	62	100	24...	2,690	51
5...	73	1,340	15...	131	109	25...	1,100	43
6...	90	1,700	16...	95	95	26...	600	35
7...	65	806	17...	77	127	27...	450	29
8...	50	456	18...	79	218	28...	350	28
9...	40	298	19...	65	152	29...	1,100	26
10...	35	206	20...	56	110	30...	1,300	28
						31...		30
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							426	331
RUNOFF, IN INCHES							2.07	1.67

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.56	52	6-23	0500	5.04	966	6-25	0100	6.00	1,500
6-21	2400	1.53	49	6-23	0600	6.33	1,740	6-25	0700	5.55	1,230
				6-23	0800	8.08	3,500	6-25	2400	-	770
				6-23	1500	9.47	5,860				
6-22	1300	1.53	49	6-23	1600	9.49	5,900				
6-22	1500	1.71	70	6-23	2400	8.79	4,580	6-26	0400	-	700
6-22	2100	2.20	140					6-26	2400	-	500
6-22	2400	2.53	194								
				6-24	0100	8.65	4,330				
				6-24	1400	6.98	2,350	6-27	2400	-	400
6-23	0200	3.00	295	6-24	2400	6.09	1,560				
6-23	0300	3.38	390								
6-23	0400	4.00	570								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	6.2	40	11...	4.5	12	21...	100	5.1
2...	5.4	27	12...	3.6	9.5	22...	45	4.5
3...	5.1	29	13...	4.8	8.6	23...	1,000	4.0
4...	9.5	29	14...	7.8	9.0	24...	350	3.8
5...	7.8	27	15...	5.4	9.0	25...	150	3.6
6...	5.8	37	16...	11	14	26...	80	3.2
7...	5.1	29	17...	8.0	17	27...	45	3.0
8...	4.0	23	18...	6.0	9.5	28...	34	2.8
9...	4.0	18	19...	5.4	7.0	29...	81	2.4
10...	8.2	14	20...	5.0	5.8	30...	65	2.2
						31...		2.5
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							69	13
RUNOFF, IN INCHES							4.73	0.94

(814) 03072840 TENMILE CREEK NEAR CLARKSVILLE, PA.

LOCATION.--Lat 39°59'51", long 80°02'31", Greene County, on right bank 75 ft upstream from dam, 200 ft upstream from single-span steel-truss bridge, 1.5 miles north of Clarksville, and 2.3 miles upstream from South Fork Tenmile Creek.

DRAINAGE AREA.--133 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 820 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 4,500 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 6,620 cfs 0815 hours June 23 (gage height, 6.28 ft).
1969 to May 1972: Discharge, 4,200 cfs May 6, 1971 (gage height, 5.49 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	32	150	11...	26	83	21...	588	46
2...	28	113	12...	18	70	22...	280	40
3...	30	115	13...	24	63	23...	4,400	36
4...	36	106	14...	66	56	24...	1,070	32
5...	32	189	15...	46	50	25...	552	29
6...	21	223	16...	82	111	26...	342	28
7...	21	158	17...	74	123	27...	238	26
8...	18	125	18...	39	82	28...	180	27
9...	15	106	19...	31	61	29...	174	25
10...	28	88	20...	27	52	30...	189	23
						31...		23
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							290	79
RUNOFF, IN INCHES							2.43	0.69

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.30	45	6-22	2400	2.98	724	6-24	2400	2.89	652
6-21	0130	1.38	53								
6-21	0145	1.51	68								
6-21	0230	2.11	199	6-23	0115	3.60	1,260	6-25	0030	2.89	652
6-21	0630	2.89	652	6-23	0400	5.29	4,020	6-25	2400	2.57	422
6-21	0830	3.11	828	6-23	0800	6.26	6,560				
6-21	1000	3.55	1,220	6-23	0815	6.28	6,620				
6-21	1630	2.76	552	6-23	1500	5.83	5,280	6-26	0015	2.57	422
6-21	2400	2.49	374	6-23	2315	4.51	2,430	6-26	2400	2.31	275
				6-23	2400	4.36	2,190				
6-22	1000	2.19	227					6-27	0015	2.31	275
6-22	1730	2.20	230	6-24	0015	4.32	2,130	6-27	2400	2.12	202
6-22	2100	2.42	332	6-24	0515	3.62	1,280				
6-22	2315	2.79	573	6-24	2130	2.93	684				

(815) 03072880 BROWNS CREEK NEAR NINEVEH, PA.

(Crest-stage station)

LOCATION.--Lat 39°56'27", long 80°17'21", Greene County, at highway bridge just below Brush Fork, and 1.8 miles southeast of Nineveh, Pa.

DRAINAGE AREA.--17.5 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 990 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 310 cfs and by slope-area measurement at 2,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,420 cfs June 23 (gage height, 10.02 ft).
1963 to May 1972: Discharge, 2,100 cfs Mar. 5, 1963 (gage height, 10.84 ft).

(816) 03073000 SOUTH FORK TENMILE CREEK AT JEFFERSON, PA.

LOCATION.--Lat 39°55'23", long 80°04'22", Greene County, on right bank at downstream side of highway bridge, 1 mile southwest of Jefferson, and 3.. miles downstream from Ruff Creek.

DRAINAGE AREA.--180 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 852.54 ft above mean sea level, adjustment of 1907.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,600 cfs and by slope-area measurement at 13,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,980 cfs 1400 hours June 23 (gage height, 12.07 ft).
1932 to May 1972: Discharge, 13,800 cfs June 4, 1941 (gage height, 18.45 ft, from floodmark in gage house.)

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	29	509	11...	12	156	21...	1,030	42
2....	25	266	12...	11	120	22...	505	36
3....	23	355	13...	11	101	23...	5,410	31
4....	21	678	14...	25	85	24...	2,330	26
5....	28	1,290	15...	38	72	25...	930	22
6....	22	1,070	16...	38	111	26...	519	19
7....	18	545	17...	65	125	27...	307	17
8....	14	319	18...	30	89	28...	210	17
9....	13	230	19...	21	67	29...	1,170	17
10...	14	175	20...	16	52	30...	1,010	17
						31...		16
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							463	215
RUNOFF,IN INCHES							2.87	1.38

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.25	23	6-22	0030	3.69	831	6-24	0730	6.65	2,660
6-21	0300	1.34	33	6-22	1000	2.82	439	6-24	2200	4.62	1,270
6-21	0530	1.49	54	6-22	1730	2.62	358	6-24	2400	4.47	1,200
6-21	0700	1.73	103	6-22	2100	2.84	448				
6-21	0730	1.85	133	6-22	2400	3.54	763				
6-21	1000	2.85	453					6-25	0030	4.43	1,180
6-21	1030	3.16	592					6-25	2400	3.37	687
6-21	1130	4.79	1,370	6-23	0230	4.94	1,460				
6-21	1330	6.57	2,600	6-23	1030	11.53	6,500				
6-21	1430	6.64	2,650	6-23	1400	12.07	6,980	6-26	0030	3.35	678
6-21	1730	5.64	1,950	6-23	2100	10.87	5,900	6-26	2400	2.68	382
6-21	2330	3.87	912	6-23	2400	9.65	4,870				
6-21	2400	3.77	867								
								6-27	0030	2.67	378
				6-24	0030	9.40	4,670	6-27	2400	2.30	245

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	57	184	11...	35	100	21...	92	59
2....	43	148	12...	35	81	22...	669	51
3....	38	307	13...	32	84	23...	6,620	37
4....	36	272	14...	153	72	24...	1,760	48
5....	66	322	15...	95	65	25...	672	51
6....	44	295	16...	100	85	26...	395	46
7....	38	197	17...	74	194	27...	268	46
8....	44	155	18...	73	100	28...	184	46
9....	44	132	19...	130	73	29...	248	38
10...	58	110	20...	64	61	30...	232	37
						31...		32
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							413	114
RUNOFF,IN INCHES							6.26	1.78

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	0.98	63	6-23	0200	9.65	4,160	6-24	2400	3.49	736
6-21	1200	1.10	77	6-23	0830	14.01	7,840				
6-21	1800	1.35	110	6-23	1300	14.83	8,660				
6-21	2400	1.76	177	6-23	1700	13.80	7,630	6-25	1500	3.30	660
				6-23	2400	10.00	4,410	6-25	2400	3.00	540
6-22	0900	2.45	345								
6-22	1800	4.05	960	6-24	0900	6.02	1,920	6-26	1000	2.59	391
6-22	2400	7.15	2,500	6-24	1530	3.63	792	6-26	2400	2.34	315

(819) 03075000 MONONGAHELA RIVER AT CHARLEROI, PA.

LOCATION.--Lat 40°08'58", long 79°54'06", Westmoreland County, on right bank at end of land guide wall, 1,100 ft downstream from dam at lock 4 at Charleroi, 1.3 miles downstream from Maple Creek, and at mile 41.3.

DRAINAGE AREA.--5,213 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except 1900 hours June 23 to 1330 hours June 24 for which graph was reconstructed on basis of 18 staff-gage readings. Datum of gage is 717.40 ft above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1967, at site 0.4 mile upstream at datum 17.93 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 110,000 cfs 0200 hours June 24 (gage height, 35.4 ft, backwater from Youghiogheny River).
1887 to May 1972: Discharge, 158,000 cfs March 7, 1967 (gage height, 41.63 ft, from floodmark in gage well, present datum).
Flood of July 11, 1888 reached a stage of 42.0 ft at old lock 1 mile downstream, or about 44.0 ft at present gage and datum (discharge, about 156,000 cfs).

REMARKS.--Flow regulated by locks above station and since 1938 by Tygart Lake (see station 03055500), since 1925 by Deep Creek Reservoir (see station 03076000), and since 1943 by Youghiogheny River Lake (see station 03077000), combined capacity, 704,300 acre-ft.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,540	28,000	11...	605	7,060	21...	6,890	3,960
2....	2,620	23,800	12...	1,110	5,120	22...	8,950	2,180
3....	1,900	22,500	13...	1,290	4,350	23...	66,000	1,200
4....	1,130	26,900	14...	2,840	3,360	24...	92,100	1,600
5....	2,510	23,600	15...	1,850	3,070	25...	50,000	1,740
6....	2,030	28,200	16...	4,230	3,420	26...	38,200	1,720
7....	1,050	27,600	17...	2,050	6,240	27...	28,700	1,430
8....	1,570	22,300	18...	2,290	5,340	28...	27,200	1,400
9....	1,800	14,800	19...	3,180	3,070	29...	29,600	1,030
10...	1,520	11,600	20...	4,570	3,010	30...	21,500	1,220
						31...		1,600
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							13,730	9,433
RUNOFF,IN INCHES							2.94	2.09

(817) 03074300 LICK RUN AT HOPWOOD, PA.

LOCATION.--Lat 39°52'04", long 79°41'40", Fayette County, on left bank at southeast edge of Hopwood, along road leading to Lick Hollow State Park, 0.4 mile upstream from road leading south from Hopwood to Fairchance, and 1.5 miles upstream from Benningtons Spring Run.

DRAINAGE AREA.--3.80 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,200 ft above mean sea level (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter mesurements below 170 cfs, by slope-area measurement at 371 cfs, and by contracted-opening measurement at 690 cfs.

MAXIMUMS.--June-July 1972: Discharge, 690 cfs 0500 hours June 23 (gage height, 4.30 ft).
1959 to May 1972: Discharge, 371 cfs Sept. 14, 1971 (gage height, 3.85 ft, in gage well, 4,87 ft, from crest-stage gage).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.0	16	11...	1.4	5.1	21...	4.6	.76
2....	1.7	11	12...	1.3	4.2	22...	100	.61
3....	1.6	9.8	13...	2.0	3.9	23...	440	.50
4....	2.7	8.8	14...	3.0	3.3	24...	120	.39
5....	2.2	9.3	15...	2.2	2.7	25...	53	.84
6....	1.6	12	16...	3.0	3.1	26...	29	.92
7....	1.5	11	17...	2.7	4.8	27...	18	.84
8....	1.4	8.8	18...	2.5	3.1	28...	16	.76
9....	1.5	7.6	19...	2.7	1.5	29...	34	.61
10...	2.2	6.4	20...	2.0	1.0	30...	23	.55
						31...		.61
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							29	4.5
RUNOFF, IN INCHES							8.60	1.38

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.48	2.0					6-23	1900	2.94	282
6-21	0845	1.48	2.0					6-23	2400	2.70	210
6-21	1030	1.49	2.1								
6-21	1715	1.49	2.1								
6-21	1730	1.62	6.1	6-22	2400	3.84	480	6-24	0015	2.67	201
6-21	1745	1.63	6.5					6-24	0545	2.48	144
6-21	1830	1.80	19					6-24	1515	2.26	87
6-21	2015	1.74	14	6-23	0030	4.21	510	6-24	2400	2.17	70
6-21	2400	1.72	12	6-23	0045	3.92	520				
				6-23	0115	4.27	525				
				6-23	0200	3.73	520	6-25	0015	2.16	68
6-22	0200	1.79	18	6-23	0300	4.16	576	6-25	2345	1.95	36
6-22	0345	1.87	27	6-23	0500	4.30	690	6-25	2400	1.95	36
6-22	0615	1.96	39	6-23	0900	3.92	576				
6-22	0945	2.00	45	6-23	0930	4.33	570				
6-22	1445	2.23	87	6-23	1045	3.83	549	6-26	0115	1.94	35
6-22	1630	2.40	129	6-23	1315	3.49	447	6-26	2245	1.83	23
6-22	1900	2.68	213					6-26	2400	1.82	22
6-22	2115	2.81	252								
6-22	2300	3.48	390								

(818) 03074500 REDSTONE CREEK AT WALTERSBURG, PA.

LOCATION.--Lat 39°58'48", long 79°45'52", Fayette County, near center of span on downstream side of highway bridge at Waltersburg, 400 ft downstream from Bolden Run, and 0.9 mile upstream from Allen Run.

DRAINAGE AREA.--73.7 sq mi.

GAGE-HEIGHT RECORD.--Wire-wright gage read twice daily. Datum of gage is 883.28 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 8,660 cfs 1300 hours June 23 (gage height, 14.83 ft).
1943 to May 1972: Discharge, 4,400 cfs October 15, 1954 (gage height, 11.83 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	13.58	12,000	6-23	1600	31.1	84,100	6-27	1200	18.20	32,500
6-21	0200	13.15	10,300	6-23	2400	35.0	108,000	6-27	1930	17.40	28,500
6-21	0800	11.76	5,530					6-27	2230	18.40	33,500
6-21	1030	12.83	9,130					6-27	2400	18.28	22,900
6-21	1700	14.09	14,100	6-24	0200	35.4	110,000				
6-21	2230	12.78	8,950	6-24	1200	33.3	97,300				
6-21	2400	13.37	11,200	6-24	2400	26.9	66,000	6-28	0730	18.62	34,600
								6-28	0800	18.10	32,000
								6-28	1600	17.25	27,800
6-22	0500	13.91	13,300	6-25	0600	24.1	54,200	6-28	2400	18.20	32,500
6-22	1030	12.02	6,360	6-25	2400	20.8	42,500				
6-22	1400	13.35	11,100								
6-22	1630	13.78	12,800					6-29	0900	19.40	38,500
6-22	1730	14.41	15,300	6-26	0930	20.50	42,000	6-29	2400	17.23	27,600
6-22	2400	15.75	20,500	6-26	2400	19.45	38,800				
								6-30	1100	17.05	26,800
6-23	0400	18.37	26,000	6-27	1000	19.30	38,000	6-30	1800	16.51	24,000
6-23	0900	23.0	41,800					6-30	2400	17.15	27,200

(820) 03075450 LITTLE YOUGHIOGHENY RIVER TRIBUTARY NEAR DEER PARK, MD.

(Crest-stage station)

LOCATION.--Lat 39°24'37", long 79°21'00", at upstream side of culvert at State Highway 135, 1.6 miles southwest of Deer Park, Garrett County, and 1.8 miles northeast of Mountain Lake Park.

DRAINAGE AREA.--0.57 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 2,430 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 32 cfs June 23 (gage height, 5.04 ft), 40 cfs June 29 (gage height, 5.31 ft).
1965 to May 1972: Discharge, 32 cfs May 24, 1968 (gage height, 5.05 ft).

(821) 03075500 YOUGHIOGHENY RIVER NEAR OAKLAND, MD.

LOCATION.--Lat 39°25'19", long 79°25'32", Garrett County, on left bank 200 ft downstream from Baltimore & Ohio Railroad bridge, 250 ft downstream from Little Youghiogheny River, 1.2 miles northwest of Oakland, and 1.5 miles upstream from Dunkard Lick Run.

DRAINAGE AREA.--134 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 2,353.11 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 4,980 cfs 1830 hours June 23 (gage height, 8.01 ft).
1942 to May 1972: Discharge, 11,800 cfs Oct. 16, 1954 (gage height, 12.16 ft).
Flood in March 1936 reached a stage of 15.3 ft, from floodmarks.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	126	819	11...	57	216	21...	222	92
2....	103	536	12...	47	182	22...	468	74
3....	92	431	13...	46	157	23...	3,710	66
4....	76	416	14...	126	133	24...	3,470	59
5....	70	801	15...	151	111	25...	1,570	92
6....	64	867	16...	84	157	26...	989	79
7....	62	613	17...	85	114	27...	745	61
8....	53	441	18...	69	97	28...	561	89
9....	49	341	19...	157	97	29...	2,960	61
10...	68	276	20...	147	186	30...	1,350	79
						31...		133
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							593	254
RUNOFF, IN INCHES							4.93	2.19

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	2.70	204	6-23	2400	7.84	4,750				
6-20	1315	2.51	136					6-28	2130	3.27	474
6-20	2400	2.47	124					6-28	2230	3.58	662
				6-24	0015	7.83	4,730	6-28	2400	5.23	1,810
				6-24	2400	5.62	2,150				
6-21	0815	2.51	136								
6-21	1400	2.80	245					6-29	0100	5.91	2,430
6-21	1945	3.01	340	6-25	0015	5.60	2,130	6-29	0200	6.25	2,780
6-21	2045	3.02	345	6-25	1500	4.78	1,470	6-29	0400	6.73	3,340
6-21	2400	3.01	340	6-25	2400	4.43	1,230	6-29	0645	7.02	3,680
								6-29	1200	6.71	3,310
								6-29	1800	6.10	2,620
6-22	2000	3.40	550	6-26	0015	4.42	1,220	6-29	2400	5.39	1,940
6-22	2330	3.93	890	6-26	2400	3.85	833				
6-22	2400	4.06	974								
								6-30	0400	5.04	1,660
				6-27	0515	3.85	833	6-30	1200	4.53	1,290
6-23	1445	7.77	4,650	6-27	2400	3.48	593	6-30	2400	4.08	987
6-23	1830	8.01	4,980								

(822) 03075600 TOLIVER RUN TRIBUTARY NEAR HOYES RUN, MD.

(Crest-stage station)

LOCATION.--Lat 39°29'39", long 79°25'14", at upstream side of culvert at Swallow Falls Road, 2.4 miles south of Hoyes Run, Garrett County, and 5.4 miles north of Oakland.

DRAINAGE AREA.--0.53 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Altitude of gage is 2,300 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 9 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 35 cfs June 23 but may have occurred on June 29 (gage height, 5.03 ft).
1965 to May 1972: Discharge, 60 cfs Aug. 26, 1971 (gage height, 5.89 ft).

(823) 03076000 DEEP CREEK RESERVOIR NEAR OAKLAND, MD.

LOCATION.--Lat 39°30'34", long 79°23'28", Garrett County, on Deep Creek at dam, 1.8 miles upstream from mouth, and 7 miles north of Oakland.

DRAINAGE AREA.--64.7 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph operated by Pennsylvania Electric Company. Datum of gage is mean sea level (unadjusted).

CONTENTS RECORD.--Contents computed from capacity table dated May 1960.

MAXIMUMS.--June-July 1972: Contents, 86,700 acre-ft July 6-7 (elevation, 2,460.3 ft).
1926 to May 1972: Contents, 93,258 acre-ft July 24, 25, 1949 (elevation, 2,462.075 ft).

REMARKS.--Reservoir is formed by an earthfill dam completed January 1925; storage began in July 1925. Usable capacity, 92,975 acre-ft between elevations 2,425 ft (top of intake to outlet tunnel) and 2,462 ft (crest of spillway). Dead storage, 13,085 acre-ft. Figures given herein represent usable contents. Reservoir is used for hydroelectric power. Records furnished by Pennsylvania Electric Co.

ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, AT 2400 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	2458.7	80,800	2459.9	85,200	16	2457.8	77,500	2459.6	84,100
2	2458.5	80,000	2460.0	85,500	17	2457.8	77,500	2459.6	84,100
3	2458.5	80,000	2460.1	85,900	18	2457.8	77,500	2459.5	83,700
4	2458.5	80,000	2460.1	85,900	19	2457.8	77,500	2459.4	83,300
5	2458.5	80,000	2460.2	86,300	20	2457.8	77,500	2459.3	83,000
6	2458.4	79,700	2460.3	86,700	21	2457.8	77,500	2459.3	83,000
7	2458.3	79,300	2460.3	86,700	22	2457.7	77,100	2459.2	82,600
8	2458.3	79,300	2460.2	86,300	23	2457.9	77,900	2459.2	82,600
9	2458.2	78,900	2460.1	85,900	24	2458.3	79,300	2459.2	82,600
10	2458.1	78,600	2460.0	85,500	25	2458.6	80,400	2459.1	82,200
11	2458.1	78,600	2459.9	85,200	26	2458.8	81,100	2459.0	81,900
12	2458.1	78,600	2459.8	84,800	27	2458.8	81,100	2458.9	81,500
13	2458.0	78,200	2459.7	84,400	28	2458.8	81,100	2458.8	81,100
14	2457.9	77,900	2459.6	84,100	29	2459.3	83,000	2458.6	80,400
15	2457.9	77,900	2459.6	84,100	30	2459.8	84,800	2458.6	80,400
					31			2458.6	80,400
CHANGE IN CONTENTS							+4,000		-4,400

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	33	242	11...	18	72	21...	26	25
2....	31	178	12...	16	62	22...	54	23
3....	27	149	13...	17	55	23...	407	21
4....	24	124	14...	25	48	24...	289	20
5....	23	132	15...	21	41	25...	228	19
6....	21	138	16...	18	53	26...	197	18
7....	21	128	17...	17	39	27...	169	17
8....	19	113	18...	16	34	28...	274	18
9....	18	96	19...	15	30	29...	1,260	17
10...	23	82	20...	14	27	30...	487	18
						31...		19
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							127	66
RUNOFF, IN INCHES							2.90	1.57

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.20	16	6-24	1230	2.98	259	6-28	2400	4.71	1,220
6-21	0800	1.33	19	6-24	1300	3.03	274				
6-21	1315	1.65	32	6-24	1430	2.98	259				
6-21	1800	1.73	37	6-24	1530	3.00	265	6-29	0115	5.05	1,660
6-21	2000	1.70	35	6-24	1700	3.04	277	6-29	0245	4.83	1,530
6-21	2400	1.70	35	6-24	1715	2.88	231	6-29	0400	5.42	1,880
				6-24	1730	3.05	281	6-29	0445	5.28	1,800
				6-24	2100	2.97	256	6-29	0500	4.89	1,560
6-22	1400	1.88	48	6-24	2200	2.92	242	6-29	0800	4.86	1,550
6-22	2000	2.08	70	6-24	2230	2.90	236	6-29	1315	4.22	1,170
6-22	2130	2.19	85	6-24	2400	2.94	248	6-29	1830	3.75	910
6-22	2400	2.56	153					6-29	2400	3.46	762
				6-25	0200	2.82	215				
6-23	0200	3.01	268	6-25	0230	2.92	242	6-30	0015	3.39	551
6-23	0215	2.91	239	6-25	0245	2.82	215	6-30	0045	3.44	573
6-23	0230	3.22	336	6-25	0430	2.94	248	6-30	0330	3.37	543
6-23	0330	3.31	367	6-25	0445	2.80	210	6-30	2400	2.99	395
6-23	0415	3.46	420	6-25	0515	2.90	236				
6-23	0430	3.40	398	6-25	0530	2.80	210				
6-23	0515	3.77	543	6-25	0730	2.93	245	7-01	0015	2.99	271
6-23	0545	3.80	555	6-25	0815	2.98	259	7-01	0130	3.01	277
6-23	0745	3.67	503	6-25	1500	2.87	228	7-01	2400	2.75	205
6-23	0845	3.48	428	6-25	1600	2.79	208				
6-23	0900	3.69	511	6-25	1930	2.83	218				
6-23	1200	3.69	511	6-25	2400	2.79	208	7-02	0115	2.75	205
6-23	1230	3.55	455					7-02	2400	2.52	151
6-23	1615	3.32	370								
6-23	1645	3.48	428	6-26	0200	2.81	213				
6-23	1945	3.25	346	6-26	1945	2.73	193	7-03	1800	2.52	151
6-23	2130	3.31	367	6-26	2400	2.72	190	7-03	2045	2.60	169
6-23	2145	3.10	296					7-03	2215	2.54	155
6-23	2215	3.30	363					7-03	2400	2.50	147
6-23	2400	3.19	326	6-27	0230	2.71	188				
				6-27	2400	2.56	153				
								7-04	0045	2.49	144
6-24	0330	3.28	356					7-04	2400	2.29	106
6-24	0345	3.20	329	6-28	0015	2.56	253				
6-24	0400	3.02	271	6-28	1945	2.52	242				
6-24	0415	3.27	353	6-28	2045	2.64	277	7-05	0630	2.42	130
6-24	0515	3.20	329	6-28	2130	2.89	360	7-05	1015	2.49	144
6-24	0815	3.15	313	6-28	2145	3.08	428	7-05	2400	2.48	142
6-24	0845	3.00	265	6-28	2245	3.04	413				
6-24	0930	3.08	290	6-28	2330	3.40	555				

(824) 03076500 YOUGHIOGHENY RIVER AT FRIENDSVILLE, MD.

LOCATION.--Lat 39°39'13", long 79°24'31", Garrett County, on left bank 0.7 mile upstream from bridge on State Highway 42 at Friendsville, and 1.5 miles upstream from Bear Creek.

DRAINAGE AREA.--295 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,487.33 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,800 cfs and by slope-area measurement at 11,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 7,250 cfs 1815 hours June 23 (gage height, 6.72 ft).
1898 to May 1972: Discharge, about 15,600 cfs, Mar. 29, 1924 (gage height, 10.2 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	436	1,690	11...	146	594	21...	376	372
2....	365	1,110	12...	248	630	22...	749	163
3....	210	978	13...	251	450	23...	5,180	130
4....	178	921	14...	260	501	24...	5,460	300
5....	303	1,300	15...	403	225	25...	3,100	292
6....	294	1,830	16...	317	286	26...	2,110	382
7....	288	1,390	17...	159	436	27...	1,460	337
8....	279	1,100	18...	138	387	28...	1,030	359
9....	261	909	19...	286	366	29...	4,460	175
10...	147	781	20...	383	436	30...	2,890	109
						31...		338
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,070	622
RUNOFF,IN INCHES.....							4.06	2.43

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.65	215					6-29	0415	5.41	4,400
6-21	1300	2.65	215					6-29	0745	6.00	5,630
6-21	1430	2.67	224	6-25	0015	5.16	3,900	6-29	0815	5.99	5,610
6-21	1500	3.30	698	6-25	2400	4.46	2,520	6-29	2400	5.16	3,900
6-21	1545	3.42	830								
6-21	1900	3.45	868								
6-21	1930	3.38	784	6-26	0015	4.46	2,520	6-30	0015	5.10	3,780
6-21	2115	2.95	392	6-26	1330	4.23	2,090	6-30	1315	4.64	2,870
6-21	2245	2.92	370	6-26	1900	4.27	2,170	6-30	2400	4.35	2,320
6-21	2400	3.00	428	6-26	2130	3.98	1,660				
				6-26	2400	3.94	1,590				
								7-01	0015	4.34	2,300
6-22	1330	3.10	509					7-01	0415	4.06	1,790
6-22	1345	3.26	658	6-27	1315	3.90	1,520	7-01	1200	4.01	1,710
6-22	1415	3.64	1,130	6-27	1545	3.99	1,670	7-01	1745	4.00	1,690
6-22	2030	3.77	1,320	6-27	1915	3.90	1,520	7-01	2000	3.80	1,360
6-22	2100	3.72	1,240	6-27	2215	3.68	1,180	7-01	2300	3.80	1,360
6-22	2215	3.39	794	6-27	2400	3.65	1,140	7-01	2400	3.93	1,570
6-22	2400	3.52	958								
				6-28	1330	3.54	986	7-02	0030	3.92	1,550
6-23	0245	4.05	1,780	6-28	1700	3.69	1,200	7-02	0315	3.66	1,150
6-23	1315	6.45	6,630	6-28	1945	3.57	1,030	7-02	1315	3.59	1,060
6-23	1815	6.72	7,250	6-28	2215	3.43	843	7-02	1445	3.75	1,290
6-23	2400	6.51	6,760	6-28	2400	3.53	972	7-02	1915	3.63	1,110
								7-02	2100	3.45	868
								7-02	2315	3.45	868
6-24	0015	6.51	6,760	6-29	0200	3.75	1,290	7-02	2400	3.65	1,140
6-24	2400	5.18	3,940	6-29	0245	4.01	1,710				

(825) 03076600 BEAR CREEK AT FRIENDSVILLE, MD.

LOCATION.--Lat 39°39'22", long 79°23'41", Garrett County, on right bank 0.2 mile downstream from bridge on Accident-Friendsville Road, 0.6 mile downstream from South Branch Bear Creek, 0.8 mile southeast of Friendsville, and 1.2 miles upstream from mouth.

DRAINAGE AREA.--48.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1100 hours July 19 to 2400 hours July 31 when water-stage-recorder graph was used. Altitude of gage is 1,555 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,880 cfs 0400 hours June 29 (gage height, 5.42 ft).
1965 to May 1972: Discharge, 4,650 cfs Sept. 14, 1971 (gage height, 9.6 ft, from flood-marks), from rating curve extended above 2,000 cfs on basis of slope-area measurement at 4,650 cfs.

(826) 03077000 YOUGHIOGHENY RIVER LAKE AT YOUGHIOGHENY RIVER DAM, PA.

LOCATION.--Lat 39°47'56", long 79°22'06", Somerset County, remote control recorder at control house at dam, 1.2 miles upstream from Confluence. Water-stage recorder and transmitter at lat 39°45'21", long 79°24'00", at bridge on U.S. Highway 40, 500 ft upstream from Stuck Hollow Run, 0.6 mile upstream from Tub Run, on Youghiogheny River, and 7.5 miles upstream from Youghiogheny River Dam.

DRAINAGE AREA.--434 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed by Corps of Engineers.

MAXIMUMS.--June-July 1972: Inflow, 10,500 cfs 1700 hours June 23; contents, 194,840 acre-ft 1200 hours June 26 (elevation, 1,452.44 ft).
1944 to May 1972: 210,250 acre-ft May 16, 1967 (elevation, 1,457.23 ft).

REMARKS.--Reservoir is formed by an earthfill dam, rock-faced. Storage began during construction sometime prior to July 1943. Dam completed October 1943. Capacity, 254,000 acre-ft between elevations 1,319.50 ft (invert at intake to outlet tunnel) and 1,470.00 ft (full pool). Minimum pool elevation is 1,344.0 ft, capacity, 5,230 acre-ft. Reservoir is used for flood control, for low-flow augmentation of Youghiogheny River and downstream rivers, and for recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers, Pittsburgh.

Elevation, in feet, and contents, in acre-feet, at 2400 hours, 1972

Day	June		July		Day	June		July	
	Elevation	Contents	Elevation	Contents		Elevation	Contents	Elevation	Contents
1	1,441.03	160,330	1,446.86	177,600	16	1,440.40	158,510	1,440.31	158,250
2	1,441.16	160,700	1,444.20	169,620	17	1,440.26	158,110	1,440.24	158,050
3	1,441.15	160,680	1,443.10	166,360	18	1,440.12	157,710	1,439.95	157,220
4	1,441.15	160,680	1,443.27	166,870	19	1,439.79	156,760	1,439.74	156,620
5	1,441.20	160.820	1,443.65	167,990	20	1,439.81	156,820	1,439.63	156,450
6	1,441.21	160,850	1,443.74	168,250	21	1,439.91	157,100	1,439.55	156,080
7	1,441.15	160,680	1,443.03	166,160	22	1,440.91	159,980	1,439.30	155,360
8	1,441.04	160,360	1,442.78	165,430	23	1,445.53	173,590	1,438.95	154,370
9	1,440.95	160,100	1,442.09	163,400	24	1,449.98	187,140	1,438.95	154,370
10	1,440.76	159,550	1,441.30	161,110	25	1,452.14	193,890	1,438.74	153,770
11	1,440.56	158,970	1,440.70	159,380	26	1,451.98	193,390	1,438.57	153,290
12	1,440.46	158,680	1,440.67	159,290	27	1,449.38	185,290	1,438.33	152,780
13	1,440.40	158,510	1,440.67	159,290	28	1,446.21	175,630	1,438.23	152,330
14	1,440.35	158,370	1,440.66	159,260	29	1,449.12	184,490	1,437.94	151,510
15	1,440.37	158,430	1,440.47	158,710	30	1,449.55	185,810	1,437.61	150,560
					31			1,437.42	150,010
Change in contents.....				+25,940					-35,800

(827) 03077500 YOUGHIOGHENY RIVER AT YOUGHIOGHENY RIVER DAM, PA.

(Formerly published as Youghiogheny River at Confluence)

LOCATION.--Lat 39°48'19", long 79°21'52", Somerset County, on right bank 800 ft upstream from bridge on State Highway 281, 0.2 miles downstream from Youghiogheny River Dam, 0.2 mile south of Confluence, 0.7 mile upstream from Casselman River, and at mile 73.2.

DRAINAGE AREA.--436 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 1,310.17 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 6,740 cfs 1330 hours June 27 (gage height, 8.39 ft); maximum gage height, 9.98 ft 1330 hours June 23 (backwater from Casselman River).
1940 to May 1972: Discharge, 13,700 cfs March 5, 1948 (gage height, 11.28 ft); maximum gage height, 19.08 ft Oct. 15, 1954 (backwater from Casselman River).

REMARKS.--Flow regulated since 1925 by Deep Creek Reservoir (see station 03076000) and since 1943 by Youghiogheny River Lake 0.2 mile upstream (see station 03077000).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	274	6,650	11...	445	1,560	21...	455	615
2....	274	5,640	12...	445	769	22...	455	615
3....	274	3,530	13...	445	604	23...	455	626
4....	274	956	14...	450	604	24...	455	637
5....	274	956	15...	455	604	25...	1,180	637
6....	361	2,070	16...	455	604	26...	3,010	637
7....	407	2,870	17...	455	604	27...	5,740	637
8....	445	1,680	18...	455	615	28...	6,590	637
9....	445	2,160	19...	455	615	29...	2,300	637
10...	446	2,150	20...	455	615	30...	3,540	626
						31...		626
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,070	1,380
RUNOFF,IN INCHES.....							2.74	3.65

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0100	4.00	455	6-26	1130	5.26	2,020	6-29	0845	7.25	4,840
6-22	2400	4.02	450	6-26	1200	5.52	2,390	6-29	1000	5.52	2,390
				6-26	1600	5.52	2,390	6-29	1200	5.25	2,010
				6-26	1700	7.26	4,850	6-29	1300	4.06	510
6-23	1330	9.98	400	6-26	2400	7.24	4,820	6-29	2400	4.90	500
6-23	2400	8.30	455								
				6-27	1200	7.20	4,760	6-30	0300	5.08	500
6-24	2400	4.93	460	6-27	1330	8.39	6,740	6-30	0930	4.35	530
				6-27	2400	8.38	6,680	6-30	1100	5.87	2,470
								6-30	1330	7.51	4,820
6-25	1130	4.24	550					6-30	1630	8.66	6,700
6-25	1430	4.71	1,000	6-28	2400	8.36	6 650	6-30	2400	8.24	6,650
6-25	1530	5.47	2,000								
6-25	2400	5.34	2,000								
				6-29	0200	7.24	4,820	7-01	2400	8.10	6,500

(828) 03077700 NORTH BRANCH CASSELMAN RIVER TRIBUTARY AT FOXTOWN, MD.

(Crest-stage station)

LOCATION.--Lat 39°37'58", long 79°14'36", at upstream side of culvert at Dung Hill Road, at Foxtown, Garrett County, and 3.7 miles east of Accident.

DRAINAGE AREA.--1.0 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Altitude of gage is 2,660 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurement at 12 cfs and by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 51 cfs June 23 but may have occurred on June 29 (gage height, 4.92 ft).
1965 to May 1972: Discharge, 84 cfs Sept. 14, 1971 (gage height, 6.31 ft).

(829) 03078000 CASSELMAN RIVER AT GRANTSVILLE, MD.

LOCATION.--Lat 39°42'08", long 79°08'12", Garrett County, on left bank at downstream side of highway bridge, 0.3 mile upstream from Slaubaugh Run, 0.7 mile downstream from U. S. Highway 40, and 1 mile northeast of Grantsville.

DRAINAGE AREA.--62.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 2000 hours June 22 to 1400 hours June 24 and July 3-17. Graph reconstructed June 22-24 on basis of crest-stage indicator in well and normal recession curve. Datum of gage is 2,089.03 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements. Discharge June 22-24 computed on basis of reconstructed graph. Discharge July 3-17 estimated on basis of weather records and records for nearby stations.

MAXIMUMS.--June-July 1972: Discharge, 1,820 cfs about 1200 hours June 23 (gage height, 4.80 ft, from crest-stage indicator in well).
1948 to May 1972: Discharge, 8,400 cfs Oct. 15, 1954 (gage height, 10.70 ft), from rating curve extended above 2,600 cfs on basis of contracted-opening measurement at 5,150 cfs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	65	235	11...	30	64	21...	38	31
2....	56	157	12...	26	58	22...	70	28
3....	49	129	13...	25	54	23...	1,350	25
4....	42	110	14...	35	46	24...	720	22
5....	39	120	15...	37	41	25...	336	21
6....	37	130	16...	28	60	26...	228	20
7....	36	110	17...	29	49	27...	178	19
8....	31	100	18...	25	41	28...	132	20
9....	28	90	19...	24	36	29...	756	19
10...	35	72	20...	18	42	30...	435	20
						31...		25
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							165	64
RUNOFF, IN INCHES							2.94	1.19

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.78	256	6-23	0130	4.62	3,130				
6-21	1100	1.92	325	6-23	1030	8.66	13,500				
6-21	2330	2.57	736	6-23	1200	8.83	14,300	6-26	0030	4.17	2,410
6-21	2400	2.61	768	6-23	2400	7.59	9,910	6-26	2400	3.49	1,570
6-22	1000	2.94	1,040	6-24	0030	7.55	9,790	6-27	0030	3.48	1,560
6-22	1600	3.23	1,310	6-24	2400	5.24	4,290	6-27	2400	3.06	1,140
6-22	2100	3.39	1,470								
6-22	2400	3.95	2,120								
				6-25	0030	5.20	4,210	6-28	0030	3.05	1,140
				6-25	2400	4.19	2,440	6-28	2400	2.75	880

(832) 03080000 LAUREL HILL CREEK AT URSINA, PA.

LOCATION.--Lat 39°49'17", long 79°19'16", Somerset County, on right bank 500 ft downstream from bridge on State Highway 53, at Ursina, and 2.7 miles upstream from mouth.

DRAINAGE AREA.--121 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,335.26 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,100 cfs and by slope-area measurements at 10,300 and 10,900 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,350 cfs 1300 hours June 23 (gage height, 7.08 ft).
1918 to May 1972: Discharge, 10,900 cfs Oct. 15, 1954 (gage height, 10.63 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	74	808	11...	56	192	21...	211	64
2....	69	487	12...	43	153	22...	509	68
3....	67	426	13...	45	129	23...	5,180	64
4....	61	414	14...	84	110	24...	4,000	56
5....	58	414	15...	98	95	25...	1,940	54
6....	52	536	16...	70	95	26...	1,050	52
7....	47	426	17...	95	129	27...	620	47
8....	42	336	18...	72	122	28...	444	48
9....	38	285	19...	547	88	29...	1,300	44
10...	55	230	20...	273	73	30...	1,380	40
						31...		40
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							616	198
RUNOFF, IN INCHES							5.68	1.88

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.45	163								
6-21	1300	1.53	192	6-23	0330	5.08	3,750	6-25	0030	4.14	2,570
6-21	2330	1.78	300	6-23	1030	6.81	6,000	6-25	2400	3.11	1,370
6-21	2400	1.78	300	6-23	1300	7.08	6,350				
				6-23	2400	6.22	5,240	6-26	0030	3.09	1,350
								6-26	2400	2.48	772
6-22	1330	1.88	358								
6-22	2000	2.27	626	6-24	0100	6.23	5,250				
6-22	2130	2.65	955	6-24	2400	4.17	2,600	6-27	0030	2.47	763
6-22	2400	3.71	2,070					6-27	2400	2.12	494

(833) 03081000 YOUGHIOGHENY RIVER BELOW CONFLUENCE, PA.

LOCATION.--Lat 39°49'39", long 79°22'22", Fayette County, on left bank 1.0 mile downstream from Casselman River, 1.5 miles northwest of Confluence, and at mile 72.0.

DRAINAGE AREA.--1,029 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,302.77 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 25,000 cfs and by slope-area measurement at 69,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 23,200 cfs 1430 hours June 23 (gage height, 11.88 ft).
1936 to May 1972: Discharge, 85,000 cfs March 17 or 18, 1936 (gage height, 21.6 ft, from floodmark).

REMARKS.--Flow regulated since 1925 by Deep Creek Reservoir (see station 03076000) and since 1943 by Youghiogheny River Lake 1 mile upstream (see station 03077000).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	2400	1.30	20	6-23	1000	4.70	1,740				
				6-23	1200	4.80	1,820				
				6-23	1400	4.75	1,780	6-28	2400	1.94	120
6-21	0600	1.32	22	6-23	1800	4.50	1,580				
6-21	1000	1.37	28	6-23	2400	4.05	1,220				
6-21	1400	1.49	42					6-29	0400	2.36	246
6-21	1800	1.57	53					6-29	0600	2.86	475
6-21	2400	1.64	63	6-24	0600	3.60	900	6-29	0800	3.40	780
				6-24	1200	3.20	660	6-29	1000	4.02	1,200
				6-24	2400	2.74	415	6-29	1115	4.10	1,260
6-22	0600	1.60	57					6-29	1200	4.08	1,240
6-22	1000	1.58	54					6-29	1600	3.63	921
6-22	1400	1.58	54	6-25	1200	2.59	340	6-29	2000	3.38	768
6-22	1800	1.65	64	6-25	2400	2.44	276	6-29	2400	3.29	714
6-22	2100	1.80	88								
6-22	2300	2.10	160								
6-22	2400	2.30	224	6-26	2400	2.22	197	6-30	0600	2.92	506
								6-30	1200	2.71	400
								6-30	1800	2.58	336
6-23	0200	2.80	445	6-27	2400	2.05	147	6-30	2400	2.47	288
6-23	0600	4.10	1,260								

(830) 03078500 BIG PINEY RUN NEAR SALISBURY, PA.

(Crest-stage station; gaging station discontinued 1970)

LOCATION.--Lat 39°43'34", long 79°02'55", Somerset County, on left bank 660 ft upstream from Little Piney Run, 0.2 mile north of Maryland-Pennsylvania State line, and 2.5 miles southeast of Salisbury.

DRAINAGE AREA.--24.5 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 2,240 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 686 cfs June 23 (gage height, 3.83 ft).
1933 to May 1972: Discharge, 6,850 cfs Oct. 15, 1954 (gage height, 8.56 ft), from rating curve extended above 500 cfs on basis of slope-area measurements at 4,100 and 6,850 cfs.

(831) 03079000 CASSELMAN RIVER AT MARKLETON, PA.

LOCATION.--Lat 39°51'35", long 79°13'40", Somerset Cuunty, on right bank at downstream side of highway bridge at Markleton, 2 miles southwest of Casselman, and 7 miles downstream from Coxes Creek.

DRAINAGE AREA.--382 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 1,655.29 ft above mean sea level, adjustment of 1907.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 12,000 cfs and extended to 20,000 cfs by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 14,300 cfs 1200 hours June 23 (gage height, 8.83 ft).
1915 to May 1972: Discharge, 50,000 cfs (estimated on basis of summation of peak flows at nearby stations) Oct. 15, 1954 (gage height, 14.06 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	370	1,870	11...	160	432	21...	400	178
2....	290	1,230	12...	130	370	22...	1,160	175
3....	256	1,020	13...	139	330	23...	10,400	171
4....	222	936	14...	235	295	24...	6,740	133
5....	202	952	15...	198	252	25...	3,200	127
6....	178	1,170	16...	178	239	26...	1,960	118
7....	167	840	17...	340	280	27...	1,340	110
8....	149	648	18...	390	239	28...	992	113
9....	136	551	19...	610	214	29...	2,870	105
10...	182	476	20...	265	182	30...	3,830	100
						31...		113
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,260	451
RUNOFF,IN INCHES							3.67	1.36

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	790	9,910	11...	687	2,400	21...	1,010	904
2....	653	7,780	12...	625	1,450	22...	2,060	921
3....	610	5,480	13...	619	1,200	23...	17,500	899
4....	567	2,680	14...	773	1,130	24...	14,000	855
5....	532	2,570	15...	783	1,060	25...	7,540	828
6....	584	4,110	16...	740	1,040	26...	6,830	825
7....	632	4,520	17...	956	1,100	27...	8,130	794
8....	646	2,940	18...	768	1,070	28...	8,380	806
9....	622	3,250	19...	1,830	988	29...	7,260	787
10...	672	3,080	20...	958	937	30...	9,680	778
						31...		786
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							3,250	2,190
RUNOFF,IN INCHES							3.52	2.45

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.23	874					6-28	0100	7.09	8,670
6-21	1800	2.49	1,090					6-28	2400	6.99	8,450
6-21	2400	2.79	1,360	6-25	0030	7.21	8,950				
				6-25	1530	6.36	7,070				
				6-25	2400	6.26	6,870	6-29	0100	7.18	8,880
6-22	1430	3.38	1,990					6-29	0930	6.87	8,180
6-22	2300	4.36	3,380					6-29	1100	5.85	6,050
6-22	2400	4.83	4,150	6-26	1500	5.82	5,990	6-29	1530	5.58	5,510
				6-26	1730	6.85	8,140	6-29	2400	7.11	8,710
				6-26	2400	6.67	7,740				
6-23	0330	6.84	8,120								
6-23	1200	11.60	22,100					6-30	0730	6.71	7,830
6-23	1430	11.88	23,200	6-27	1230	6.61	7,610	6-30	1000	6.78	7,990
6-23	2400	10.84	19,300	6-27	1430	7.25	9,050	6-30	1300	7.55	9,770
				6-27	1530	7.24	9,030	6-30	1700	8.32	11,700
				6-27	2400	7.10	8,690	6-30	2000	8.18	11,400
6-24	0030	10.77	19,100					6-30	2400	8.00	10,900
6-24	2400	7.27	9,100								

(834) 03082200 POPLAR RUN NEAR NORMALVILLE, PA.

LOCATION.--Lat 40°00'59", long 79°25'33", Fayette County, on right bank at downstream side of bridge on State Highways 711 and 381, 0.7 mile upstream from mouth, 1.8 miles northeast of Normalville, and 7 miles southwest of Donegal.

DRAINAGE AREA.--9.27 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,408.26 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 480 cfs and by slope-area measurements at 990 and 1,890 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,240 cfs 1045 hours June 23 (gage height, 6.76 ft).
1962 to May 1972: Discharge, 1,890 cfs Sept. 14, 1971 (gage height, 8.37 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4.0	28	11...	3.4	16	21...	6.8	9.2
2....	4.2	20	12...	2.7	12	22...	186	86
3....	4.4	62	13...	14	9.6	23...	876	76
4....	3.2	57	14...	9.6	7.6	24...	351	30
5....	3.0	59	15...	6.2	6.4	25...	141	21
6....	2.8	69	16...	12	15	26...	70	15
7....	2.7	48	17...	10	32	27...	43	12
8....	2.5	33	18...	6.5	19	28...	28	9.6
9....	2.5	24	19...	5.9	12	29...	50	7.3
10...	8.9	20	20...	4.8	9.2	30...	38	6.7
						31...		6.1
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							63	27
RUNOFF,IN INCHES							7.63	3.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.13	6.5					6-24	0630	4.70	475
6-21	1430	2.20	7.8					6-24	2015	3.85	213
6-21	2400	2.25	9.0	6-23	0645	6.45	1,120	6-24	2400	3.80	200
				6-23	1045	6.76	1,240				
				6-23	1145	6.48	1,130				
6-22	0530	2.32	11	6-23	1430	5.86	884	6-25	0115	3.80	200
6-22	0800	2.47	18	6-23	2000	4.96	566	6-25	2400	3.28	97
6-22	0945	2.66	31	6-23	2345	5.03	591				
6-22	1315	3.06	76	6-23	2400	4.97	570				
6-22	1545	3.17	91					6-26	0030	3.28	97
6-22	1700	3.43	131					6-26	2400	2.95	53
6-22	1915	4.70	475	6-24	0015	4.91	549				
6-22	2400	5.90	900	6-24	0300	4.68	468				

(835) GIST RUN NEAR DUNBAR, PA.

(Miscellaneous site)

LOCATION.--Lat 39°57'49", long 79°37'15", Fayette County, 100 feet downstream from bridge on Baltimore and Ohio Railroad, 1 mile south of Dunbar, and 0.8 mile upstream from mouth.

DRAINAGE AREA.--7.36 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUM.--June-July 1972: Discharge, 1,230 cfs June 23.

(836) 03082500 YOUGHIOGHENY RIVER AT CONNELLSVILLE, PA.

LOCATION.--Lat 40°01'03", long 79°35'38", Fayette County, on left bank at downstream side of Crawford Avenue Bridge at Connellsville, 1.2 miles upstream from Mounts Creek, and at mile 44.0.

DRAINAGE AREA.--1,326 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 860.13 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 55,000 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 51,600 cfs 1500 hours June 23 (gage height, 16.53 ft). 1860, 1888, 1891-99, 1901 to May 1972: Discharge, 103,000 cfs Oct. 16, 1954 (gage height, 21.96 ft).

REMARKS.--Flow regulated since 1925 by Deep Creek Reservoir and since 1943 by Youghiogheny River Lake, 29.4 miles upstream, (combined usable capacity, 347,000 acre-ft) and by several smaller reservoirs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,250	11,600	11...	941	3,460	21...	1,410	1,320
2....	989	9,190	12...	844	2,280	22...	3,590	1,350
3....	903	7,510	13...	840	1,780	23...	38,100	1,550
4....	863	4,220	14...	1,160	1,660	24...	25,300	1,330
5....	790	3,820	15...	1,210	1,560	25...	12,000	1,230
6....	719	4,910	16...	1,090	1,550	26...	8,810	1,170
7....	865	6,170	17...	1,360	1,830	27...	9,230	1,130
8....	837	4,020	18...	1,210	1,760	28...	9,350	1,110
9....	840	4,060	19...	2,490	1,520	29...	8,940	1,080
10...	945	3,790	20...	1,600	1,400	30...	10,800	1,050
						31...		1,040
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4,980	2,950
RUNOFF,IN INCHES.....							4.19	2.56

(838) 03083500 YOUGHIOGHENY RIVER AT SUTERSVILLE, PA.

LOCATION.--Lat 40°14'24", long 79°48'24", Allegheny County, on left bank 500 ft upstream from highway bridge at Sutersville, 2.1 miles downstream from Sewickley Creek, and at mile 15.2.

DRAINAGE AREA.--1,715 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 1-hour intervals. Datum of gage is 733.36 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 77,000 cfs and by slope-area measurement at 100,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, about 83,000 cfs 1830 hours June 23; maximum gage height, 29.7 ft 2300 hours June 23 (backwater from Monongahela River).
1921 to May 1972: Discharge, 108,000 cfs Oct. 16, 1954 (gage height, 32.5 ft, from flood-mark).

REMARKS.--Flow regulated since 1925 by Deep Creek Reservoir (see station 03076000) and since 1943 by Youghiogheny River Lake 58 miles upstream (see station 03077000) and by several smaller reservoirs.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,230	12,800	11...	1,010	4,190	21...	2,120	1,680
2....	1,200	10,700	12...	961	3,070	22...	5,200	1,770
3....	1,070	9,180	13...	1,020	2,350	23...	56,600	2,500
4....	1,190	5,830	14...	1,290	2,030	24...	51,400	1,850
5....	1,220	5,330	15...	1,630	1,880	25...	21,600	1,530
6....	911	6,410	16...	2,180	2,210	26...	12,500	1,400
7....	871	7,590	17...	2,040	2,710	27...	10,600	1,340
8....	920	5,740	18...	1,680	2,490	28...	10,900	1,280
9....	919	4,530	19...	2,080	2,030	29...	10,700	1,230
10...	1,020	4,490	20...	2,220	1,780	30...	10,500	1,170
						31...		1,160
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							7,290	3,690
RUNOFF,IN INCHES.....							4.74	2.48

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	3.99	1,870	6-24	0600	26.54	58,700	6-28	2400	9.02	11,500
6-21	1200	4.11	2,030	6-24	1800	19.32	44,800				
6-21	1900	4.44	2,510	6-24	2400	16.26	33,500				
6-21	2100	4.57	2,710					6-29	1300	8.87	11,100
6-21	2400	4.42	2,480					6-29	1700	9.02	11,500
				6-25	0100	15.82	32,000	6-29	2200	8.33	9,830
				6-25	1600	11.42	18,100	6-29	2400	7.99	9,080
6-22	1000	4.99	3,340	6-25	2400	10.28	14,800				
6-22	2200	8.23	9,610								
6-22	2400	9.13	11,700					6-30	0800	8.58	10,400
				6-26	0100	10.21	14,600	6-30	1700	8.89	11,100
				6-26	2400	8.46	10,100	6-30	2400	9.18	11,900
6-23	0400	14.19	26,600								
6-23	1200	23.62	63,300								
6-23	1830	28.00	83,000	6-27	0700	8.96	11,300	7-01	0600	9.88	13,700
6-23	2300	29.7	75,200	6-27	2000	8.47	10,100	7-01	1200	9.61	13,000
6-23	2400	29.05	73,100	6-27	2400	8.69	10,700	7-01	2400	9.10	11,700
				6-28	2200	8.89	11,100				
				6-28	2300	9.06	11,600				

(839) 03083600 GILLESPIE RUN NEAR SUTERSVILLE, PA.

(Crest-stage station)

LOCATION.--Lat 40°13'59", long 79°49'06", Allegheny County, at upstream highway bridge at Mustard, 0.4 mile above mouth, and 0.7 mile west of Sutersville.

DRAINAGE AREA.--4.04 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 830 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 60 cfs and by contracted-opening and slope-area measurement at 586 cfs.

MAXIMUMS.--June-July 1972: Discharge, 586 cfs June 23 (gage height, 5.25 ft).
1959 to May 1972: Discharge, 394 cfs Aug. 19, 1969 (gage height, 6.29 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
				6-23	1500	16.53	51,600	6-26	0030	7.34	10,000
				6-23	2400	13.84	36,200	6-26	2030	6.62	8,220
6-21	0100	2.74	1,370					6-26	2400	7.18	9,600
6-21	2400	2.94	1,610								
				6-24	0030	13.69	35,500				
				6-24	2400	9.22	16,000	6-27	1700	6.89	8,880
6-22	1600	4.34	3,580					6-27	2000	7.36	10,100
6-22	2030	5.34	5,410					6-27	2400	7.28	9,850
6-22	2400	7.24	9,750	6-25	0030	9.14	15,700				
				6-25	2000	7.44	10,300				
				6-25	2400	7.38	10,100	6-28	0130	7.26	9,800
6-23	0130	8.98	15,200					6-28	2400	6.91	8,930
6-23	1300	16.40	50,800								

(837) 03083000 GREEN LICK RUN AT GREEN LICK RESERVOIR, PA.

LOCATION.--Lat 40°06'18", long 79°30'01", Fayette County, on left bank at upstream end of Green Lick Reservoir, 1.4 miles upstream from Latta Run, and 4 miles southeast of Mount Pleasant.

DRAINAGE AREA.--3.07 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,254.7 ft above mean sea level (Penn Central Railroad bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 150 cfs, by computation of flow over dam at 850 and 1,180 cfs, and by slope-area measurement at 1,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 848 cfs 0800 hours June 23 (gage height, 3.13 ft). 1942 to May 1972: Discharge, 1,400 cfs Aug. 13, 1943 (gage height, 5.1 ft, backwater from debris); maximum gage height, 5.42 ft May 24, 1944 (backwater from debris).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	1.0	11	11...	.67	4.8	21...	1.9	8.4
2...	1.0	8.7	12...	.55	3.0	22...	69	9.5
3...	.93	20	13...	2.5	2.4	23...	361	7.3
4...	1.4	18	14...	2.1	2.0	24...	73	4.4
5...	1.1	27	15...	1.1	1.8	25...	39	3.3
6...	.76	28	16...	2.5	4.1	26...	22	2.6
7...	.67	19	17...	2.5	8.7	27...	13	2.4
8...	.59	12	18...	1.2	4.5	28...	10	2.0
9...	.59	9.2	19...	.87	3.0	29...	22	1.6
10...	1.4	7.3	20...	1.0	2.3	30...	15	1.5
						31...		1.4
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							22	7.8
RUNOFF, IN INCHES							7.88	2.92

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	0.38	1.0	6-23	0100	2.67	339	6-23	2015	2.21	129
6-21	0900	0.41	1.1	6-23	0230	2.61	297	6-23	2300	2.29	149
6-21	1715	0.51	2.1	6-23	0315	2.73	384	6-23	2400	2.19	124
6-21	2115	0.63	3.5	6-23	0330	2.71	368				
6-21	2400	0.64	3.6	6-23	0345	2.80	440				
				6-23	0415	2.73	384	6-24	0015	2.17	120
				6-23	0445	2.75	400	6-24	0300	2.06	99
6-22	0400	0.91	8.6	6-23	0545	3.05	730	6-24	0630	2.01	90
6-22	0700	1.20	18	6-23	0600	2.94	588	6-24	1845	1.68	50
6-22	1000	1.51	36	6-23	0645	3.08	772	6-24	2400	1.68	50
6-22	1245	1.74	56	6-23	0715	3.00	660				
6-22	1545	1.87	70	6-23	0800	3.13	848				
6-22	1915	2.28	144	6-23	0830	3.00	660	6-25	0115	1.68	50
6-22	2230	2.40	173	6-23	0845	3.06	744	6-25	2400	1.38	28
6-22	2315	2.64	249	6-23	0900	3.00	660				
6-22	2330	2.47	194	6-23	1000	3.03	702				
6-22	2400	2.61	239	6-23	1215	2.73	384	6-26	0115	1.37	27
				6-23	1345	2.62	304	6-26	2400	1.15	16
				6-23	1700	2.33	161				

(840) 03084000 ABERS CREEK NEAR MURRYSVILLE, PA.

LOCATION.--Lat 40°27'01", long 79°42'50", Allegheny County, on right bank at downstream side of highway bridge, 30 ft upstream from small tributary, 2 miles northwest of Murrysville, and 5 miles northwest of Export.

DRAINAGE AREA.--4.39 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage-recorder graph. Datum of gage is 936.73 ft above mean sea level (Pennsylvania Department of Transportation bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurement below 900 cfs and by contracted-opening measurement at 1,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 720 cfs 0100 hours June 23 (gage height, 5.78 ft). 1949 to May 1972: Discharge, 1,600 cfs July 5, 1950 (gage height, 7.72 ft, from flood-marks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	1.7	4.4	11...	1.1	2.4	21...	17	7.5
2...	2.8	5.2	12...	1.1	2.3	22...	82	5.6
3...	4.4	4.9	13...	8.0	2.6	23...	239	4.6
4...	3.4	3.6	14...	4.1	2.1	24...	39	6.5
5...	2.0	9.0	15...	2.1	12	25...	26	2.6
6...	1.8	6.0	16...	2.2	13	26...	15	2.1
7...	1.4	4.1	17...	1.5	13	27...	10	3.0
8...	1.1	3.4	18...	1.4	4.9	28...	7.5	2.0
9...	1.8	2.8	19...	1.2	21	29...	5.6	1.7
10...	1.4	3.0	20...	17	11	30...	5.2	1.6
						31...		1.5
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							17	5.5
RUNOFF, IN INCHES							4.30	1.44

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.18	28	6-22	1530	2.61	68	6-23	2400	2.42	48
6-21	0145	2.08	20	6-22	1645	2.89	105				
6-21	0230	2.16	26	6-22	1900	2.92	109				
6-21	0530	1.99	14	6-22	2130	2.89	105	6-24	0030	2.42	48
6-21	0600	2.00	15	6-22	2200	3.22	153	6-24	0230	2.45	51
6-21	0630	2.11	22	6-22	2245	4.04	311	6-24	0715	2.35	42
6-21	0645	2.32	39	6-22	2315	4.69	448	6-24	1100	2.28	35
6-21	0700	2.36	42	6-22	2400	5.07	543	6-24	1115	2.19	28
6-21	0730	2.35	42					6-24	1215	2.25	33
6-21	0830	2.11	22					6-24	1745	2.26	34
6-21	0845	2.16	26	6-23	0045	5.70	700	6-24	1915	2.29	36
6-21	1215	2.00	15	6-23	0100	5.78	720	6-24	1930	2.19	28
6-21	1830	1.92	10	6-23	0215	5.00	525	6-24	2000	2.25	33
6-21	2400	1.87	7.5	6-23	0415	4.49	401	6-24	2045	2.19	28
				6-23	0515	4.44	391	6-24	2115	2.32	39
				6-23	0630	3.94	291	6-24	2315	2.37	43
6-22	0200	1.86	7.0	6-23	0745	3.99	301	6-24	2400	2.32	39
6-22	0215	1.87	7.5	6-23	0830	4.39	381				
6-22	0230	1.81	4.8	6-23	1200	3.33	172				
6-22	0245	1.93	11	6-23	1430	2.85	99	6-25	0030	2.31	38
6-22	0330	2.07	19	6-23	1730	2.58	65	6-25	0145	2.28	35
6-22	0545	2.06	19	6-23	1815	2.49	55	6-25	0200	2.19	28
6-22	0645	2.15	25	6-23	1845	2.61	68	6-25	0230	2.25	33
6-22	0700	2.11	22	6-23	2100	2.60	67	6-25	2400	2.05	18
6-22	0745	2.33	40	6-23	2115	2.49	55				
6-22	0830	2.43	49	6-23	2145	2.53	59				
6-22	0915	2.75	86	6-23	2245	2.48	54	6-26	0130	2.09	21
6-22	1245	2.61	68	6-23	2300	2.39	45	6-26	0215	2.07	19
6-22	1345	2.66	74	6-23	2345	2.43	49	6-26	0900	2.02	16
6-22	1500	2.61	68					6-26	2400	1.96	12

(841) 03085000 MONONGAHELA RIVER AT BRADDOCK, PA.

LOCATION.--Lat 40°23'28", long 79°51'30", Allegheny County, near right bank on river guide wall 300 ft upstream from dam at lock 2, at Braddock, 1,700 ft downstream from Turtle Creek, and 11.2 miles upstream from confluence with Allegheny River.

DRAINAGE AREA.--7,337 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 707.16 ft above mean sea level. Prior to Aug. 13, 1951, at site 700 ft upstream at same datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 180,000 cfs 0500 hours June 24 (gage height, 31.39 ft). 1936 to May 1972: Discharge, 210,000 cfs Mar. 18, 1936 (gage height, 38.8 ft).

REMARKS.--Flow regulated, since 1925, by several large reservoirs (combined capacity, 704,300

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,720	38,400	11...	2,330	13,400	21...	12,600	5,590
2....	5,240	35,900	12...	2,420	9,130	22...	15,500	4,610
3....	3,800	31,100	13...	3,250	7,670	23...	105,000	4,120
4....	2,740	33,200	14...	4,300	6,050	24...	158,000	3,500
5....	4,780	28,200	15...	4,960	5,640	25...	78,600	3,440
6....	3,580	33,900	16...	6,070	5,040	26...	51,800	3,330
7....	2,770	34,300	17...	6,320	4,150	27...	41,700	2,980
8....	2,810	29,800	18...	4,200	3,410	28...	37,600	2,690
9....	3,110	20,900	19...	5,680	5,920	29...	40,300	2,660
10...	3,140	16,300	20...	7,180	5,190	30...	32,700	2,330
						31...		2,720
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							21,900	13,400
RUNOFF, IN INCHES							3.33	2.10

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0015	14.82	14,300	6-23	0400	18.94	53,800	6-26	0015	19.52	60,200
6-21	0400	14.90	14,900	6-23	0815	21.26	85,900	6-26	1200	18.80	51,500
6-21	0915	14.40	11,400	6-23	1315	23.28	115,000	6-26	2400	18.30	46,200
6-21	1130	14.12	9,720	6-23	2015	28.64	155,000				
6-21	1300	14.12	9,720	6-23	2400	30.46	172,000				
6-21	2045	14.78	14,100					6-27	0015	18.30	46,200
6-21	2400	14.54	12,400					6-27	1415	17.84	41,100
				6-24	0500	31.39	180,000	6-27	2215	17.48	37,200
				6-24	1100	30.26	169,000	6-27	2400	17.60	38,500
6-22	0045	14.58	12,700	6-24	1830	26.92	138,000				
6-22	0130	14.44	11,700	6-24	2400	24.11	114,000				
6-22	0830	14.76	13,900					6-28	0500	17.78	40,500
6-22	1400	14.46	11,800					6-28	0815	17.88	41,600
6-22	1530	14.74	13,800	6-25	0015	23.98	114,000	6-28	1915	17.24	34,600
6-22	2000	15.66	20,500	6-25	1200	20.56	73,900	6-28	2400	17.46	37,000
6-22	2315	16.52	27,900	6-25	2400	19.54	60,500				
6-22	2400	16.82	30,600								

OHIO RIVER MAIN STEM

(842) 03086000 OHIO RIVER AT SEWICKLEY, PA.

LOCATION.--Lat 40°31'53", long 80°11'21", Allegheny County, on left bank 200 ft upstream from highway bridge at Sewickley, 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, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 690.00 ft above mean sea level, adjustment of 1912.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 370,000 cfs and by surface-method measurement at 543,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 370,000 cfs 0715 hours June 24 (gage height, 24.42 ft). 1934 to May 1972: Discharge, 574,000 cfs Mar. 18, 1936 (gage height, 34.75 ft, from floodmark in gage house).

REMARKS.--Flow regulated by locks, by 11 large reservoirs, excluding Chautauqua Lake, and by 15 smaller reservors above station (combined capacity, 2,787,000 acre-ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	12,100	139,000	11...	13,500	63,900	21...	36,600	22,100
2....	15,100	129,000	12...	11,100	55,600	22...	64,300	19,700
3....	14,800	114,000	13...	13,300	50,700	23...	218,000	17,900
4....	13,100	117,000	14...	20,300	44,700	24...	344,000	13,300
5....	12,800	102,000	15...	19,200	35,600	25...	237,000	14,600
6....	13,000	96,500	16...	19,100	29,000	26...	215,000	13,100
7....	13,000	101,000	17...	28,400	30,100	27...	180,000	12,500
8....	11,600	93,100	18...	23,700	29,200	28...	161,000	10,900
9....	11,300	74,400	19...	23,000	27,100	29...	152,000	10,700
10...	11,300	65,200	20...	23,700	24,400	30...	137,000	8,600
						31...		8,920
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							68,900	50,800
RUNOFF, IN INCHES							3.94	3.00

(845) 03150800 OHIO RIVER NEAR MARIETTA, OHIO

LOCATION.--Lat 39°23'21", long 81°29'03", Washington County, on right bank 1.5 miles southwest of Marietta, 2.0 miles downstream from Muskingum River, and at mile 174.3 (measured downstream from Pittsburgh, Pa.).

DRAINAGE AREA.--35,600 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 567.12 ft above mean sea level, Sandy Hook datum.

MAXIMUMS.--June-July 1972: Gage height, 36.09 ft 0100 hours June 26.
1969 to May 1972: Gage height, 31.75 ft Apr. 4, 1970.

GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	15.20	24.14	11...	15.02	18.30	21...	16.33	15.84
2....	15.42	23.55	12...	15.23	18.24	22...	16.85	15.52
3....	15.45	23.08	13...	15.14	17.56	23...	19.09	15.35
4....	15.59	22.30	14...	15.44	17.27	24...	28.27	15.33
5....	15.13	22.32	15...	15.68	16.90	25...	34.84	15.05
6....	15.31	21.96	16...	15.48	16.48	26...	34.91	15.39
7....	15.08	21.10	17...	15.83	16.38	27...	32.67	14.98
8....	15.14	20.84	18...	15.60	16.63	28...	29.11	15.21
9....	15.26	20.31	19...	15.54	16.15	29...	26.08	15.23
10...	15.10	19.00	20...	15.59	16.26	30...	25.28	14.88
						31...		14.98
MONTHLY MEAN GAGE HEIGHT, IN FEET							19.02	17.95
MAXIMUM							34.91	24.14
MINIMUM							15.02	14.88

(846) 03160000 OHIO RIVER AT POMEROY, OHIO

LOCATION.--Lat 39°00'50", long 82°02'30", Meigs County, at downstream end of left main pier of Pomeroy-Mason highway bridge on U.S. Highway 33, 1.0 mile downstream from Pomeroy, 1.2 miles upstream from Middleport, 2.9 miles upstream from Leading Creek, and at mile 251.6 (measured downstream from Pittsburgh, Pa.).

DRAINAGE AREA.--Not determined. At site 13.8 miles downstream, 40,500 sq mi, approximately.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is 517.50 ft above mean sea level, Sandy Hook datum.

MAXIMUMS.--June-July 1972: Gage height, 43.74 ft 2000 hours June 26.
1936-37, 1940 to May 1972: Gage height, not determined; (at site 13.8 miles downstream) discharge, 554,000 cfs Jan. 27, 1937 (gage height, 67.7 ft, pass sill gage, lock 24).
Maximum discharge known (at site 13.8 miles downstream), 633,000 cfs Mar. 30, 1913 (gage height, 70.1 ft, pass sill gage, lock 24).

GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	20.62	30.33	11...	20.60	23.15	21...	21.76	21.27
2....	20.83	29.28	12...	20.76	23.27	22...	22.75	21.01
3....	20.67	28.75	13...	20.66	22.88	23...	24.49	20.95
4....	20.87	27.95	14...	20.82	22.16	24...	32.00	20.71
5....	20.62	27.49	15...	20.95	21.98	25...	39.93	20.63
6....	20.78	28.38	16...	21.00	21.61	26...	43.36	20.69
7....	20.65	28.41	17...	20.99	21.60	27...	42.66	20.36
8....	20.44	26.69	18...	20.94	21.41	28...	39.73	20.53
9....	20.75	26.00	19...	20.99	21.60	29...	35.08	20.67
10...	20.48	24.67	20...	20.94	21.08	30...	31.64	20.65
						31...		20.62
MONTHLY MEAN GAGE HEIGHT, IN FEET							24.96	23.44
MAXIMUM							43.36	30.33
MINIMUM							20.44	20.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-22	0030	5.96	46,700	6-25	0015	19.18	270,000				
6-22	1445	7.00	67,600	6-25	2400	14.80	216,000				
6-22	2400	8.20	96,200					6-29	1400	10.66	154,000
								6-29	2400	10.31	147,000
				6-26	1330	14.84	217,000				
6-23	0945	13.83	203,000	6-26	2400	14.10	206,000				
6-23	2400	23.03	345,000					6-30	0015	10.28	147,000
								6-30	2400	9.80	136,000
				6-27	0015	14.07	206,000				
6-24	0715	24.42	370,000	6-27	2400	11.04	162,000				
6-24	1830	21.58	319,000					7-01	1400	10.02	141,000
6-24	2400	19.28	280,000					7-01	2400	9.81	136,000
				6-28	0930	11.23	165,000				
				6-28	2400	10.61	153,000				

(843) 03115000 OHIO RIVER AT ST. MARYS, W. VA.

LOCATION.--Lat 39°23'25", long 81°12'30", Pleasants County, on left bank at downstream side of bridge on U.S. Highway 50 (alternate) at St. Marys, 0.9 mile downstream from Middle Island Creek, and at mile 155.0 (measured downstream from Pittsburgh, Pa.).

DRAINAGE AREA.--26,850 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 1000 hours July 18 to July 31. Datum of gage is 577.30 ft above mean sea level, Sandy Hook datum.

DISCHARGE RECORD.--Stage-discharge relation is a constant-fall rating defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 382,000 cfs 1700 hours June 25 (gage height, 38.48 ft). 1939 to May 1972: Discharge, 421,000 cfs Jan. 1, 1943 (gage height, 46.67 ft). Maximum stage since at least 1884, 54.2 ft in March 1913.

GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9.56	23.22	11...	9.97	14.63	21...	11.36	-
2....	9.87	22.67	12...	10.12	14.22	22...	12.01	-
3....	9.77	21.92	13...	9.90	13.07	23...	16.94	-
4....	9.94	20.92	14...	10.23	12.32	24...	30.95	-
5....	9.76	20.91	15...	10.63	11.28	25...	37.87	-
6....	9.95	20.05	16...	10.34	10.42	26...	36.55	-
7....	9.85	18.90	17...	10.82	10.11	27...	33.24	-
8....	9.76	18.71	18...	9.77	9.94	28...	29.26	-
9....	10.04	17.76	19...	10.08	-	29...	25.97	-
10...	10.16	15.69	20...	10.33	-	30...	24.94	-
						31...		-
MONTHLY MEAN GAGE HEIGHT IN FEET							15.33	-
MAXIMUM							37.87	-
MINIMUM							9.56	-

(844) 03115200 OHIO RIVER NEAR WAVERLY, W. VA.

LOCATION.--Lat 39°20'50", long 81°23'40", Wood County, on left bank 1.2 miles northwest of Waverly, 1.5 miles upstream from lock 17, and at mile 166.0 (measured downstream from Pittsburgh, Pa.).

DRAINAGE AREA.--Not determined.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 577.30 ft above mean sea level, Sandy Hook datum.

MAXIMUMS.--June-July 1972: Gage height, 30.65 ft 2100 hours June 25. 1939 to May 1972: Gage height, not determined.

GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	9.11	17.40	11...	9.53	10.36	21...	8.64	8.82
2....	9.11	16.85	12...	9.56	10.14	22...	8.33	8.91
3....	8.90	16.27	13...	9.38	9.23	23...	12.06	9.05
4....	9.07	15.41	14...	9.34	8.72	24...	23.33	9.21
5....	9.17	15.43	15...	9.64	8.04	25...	29.84	9.15
6....	9.40	14.83	16...	9.33	7.42	26...	29.59	9.15
7....	9.28	13.85	17...	9.05	7.24	27...	26.44	9.17
8....	9.31	13.62	18...	8.55	7.33	28...	22.73	9.46
9....	9.54	12.89	19...	9.07	7.37	29...	19.68	9.23
10...	9.59	11.24	20...	9.32	8.91	30...	18.79	9.21
						31...		9.15
MONTHLY MEAN GAGE HEIGHT, IN FEET							12.82	10.74
MAXIMUM							29.84	17.40
MINIMUM							8.33	7.24

(847) 03180500 GREENBRIER RIVER AT DURBIN, W. VA.

LOCATION.--Lat 38°32'35", long 79°50'00", Pocahontas County, on left bank at Durbin, 500 ft downstream from confluence of East and West Forks, and at mile 150.1.

DRAINAGE AREA.--134 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 0500 hours July 16 to 2400 hours July 31. Datum of gage is 2,699.71 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 5,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,810 cfs 1500 hours June 23 (gage height, 6.14 ft). 1944 to May 1972: Discharge, 12,200 cfs Mar. 7, 1967 (gage height, 9.15 ft); gage height, 9.20 ft Feb. 2, 1956 (ice jam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	124	224	11...	55	159	21...	1,250	80
2....	105	190	12...	42	132	22...	1,470	70
3....	90	214	13...	48	117	23...	3,570	55
4....	79	229	14...	439	105	24...	1,730	45
5....	73	1,940	15...	519	97	25...	835	40
6....	65	1,310	16...	584	80	26...	497	35
7....	65	708	17...	619	80	27...	349	120
8....	54	425	18...	458	75	28...	250	400
9....	48	286	19...	324	70	29...	235	550
10...	70	206	20...	251	90	30...	209	700
						31...		450
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							484	299
RUNOFF, IN INCHES							4.03	2.58

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0200	2.15	258	6-23	1300	6.12	4,760				
6-20	2200	2.16	261	6-23	1500	6.14	4,810	6-27	0100	2.53	397
6-20	2400	2.14	254	6-23	2400	5.24	2,880	6-27	2400	2.23	286
6-21	0400	2.28	303	6-24	0100	5.16	2,730				
6-21	0600	2.79	515	6-24	1400	4.25	1,490	6-28	0100	2.22	282
6-21	0900	4.10	1,350	6-24	2400	3.76	1,090	6-28	2400	2.05	225
6-21	1400	4.63	1,910								
6-21	1500	4.64	1,920								
6-21	2400	4.41	1,650	6-25	0100	3.74	1,080	6-29	1700	2.08	234
				6-25	2400	2.99	620	6-29	2000	2.17	265
								6-29	2300	2.13	251
6-22	2200	4.17	1,410					6-29	2400	2.11	244
6-22	2400	4.40	1,640	6-26	0100	2.96	603				
				6-26	2400	2.54	401	6-30	0100	2.09	237
								6-30	2400	1.97	201

(848) 03180680 COOPER RUN NEAR GREEN BANK, W. VA.

(Crest-stage station)

LOCATION.--Lat 38°24'32", long 79°48'43", Pocahontas County, at culvert on Secondary Route 6, 0.4 mile upstream from mouth, and 1.3 miles southeast of Green Bank.

DRAINAGE AREA.--1.52 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 2,700.90 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 65 cfs June 21 (gage height, 4.25 ft). 1966 to May 1972: Discharge, 230 cfs Dec. 30, 1970 (gage height, 7.00 ft).

(849) 03181200 INDIAN DRAFT NEAR MARLINTON, W. VA.

LOCATION.--Lat 38°16'48", long 80°04'31", Pocahontas County, on left bank at highway bridge, and 4.2 miles northeast of Marlinton.

DRAINAGE AREA.--3.06 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 2,440 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 100 cfs and extended above on basis of theoretical weir formula.

MAXIMUMS.--June-July 1972: Discharge, 104 cfs 0645 hours June 21 (gage height, 5.39 ft); 266 cfs 2200 hours July 4 (gage height, 5.87 ft).
1969 to May 1972: Discharge, 428 cfs Dec. 30, 1969 (gage height, 5.26 ft), from rating curve extended above 20 cfs on basis of theoretical weir formula.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1.2	8.0	11...	.40	1.9	21...	46	.52
2....	1.1	5.1	12...	.37	1.5	22...	15	.46
3....	.87	3.4	13...	.40	1.3	23...	30	.46
4....	.69	37	14...	3.0	1.2	24...	12	.40
5....	.60	141	15...	1.8	.96	25...	6.1	.37
6....	.46	24	16...	1.2	.96	26...	3.4	.35
7....	.46	10	17...	1.3	.78	27...	2.6	.60
8....	.46	5.8	18...	1.1	.69	28...	2.1	1.6
9....	.40	3.4	19...	.87	.60	29...	8.0	4.1
10...	.46	2.4	20...	.96	.60	30...	8.0	15
						31...		8.9
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							5.0	9.1
RUNOFF, IN INCHES							1.84	3.44

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
7-04	0030	4.35	3.0	7-05	0145	5.72	203	7-06	2400	4.64	14
7-04	1845	4.31	2.1	7-05	0230	5.78	227				
7-04	1900	4.38	3.5	7-05	0245	5.74	211				
7-04	1915	4.63	14	7-05	0315	5.82	244	7-07	0030	4.64	14
7-04	1930	4.74	20	7-05	0345	5.74	211	7-07	2400	4.49	7.1
7-04	1945	4.73	19	7-05	0400	5.87	267				
7-04	2015	5.07	50	7-05	0500	5.73	207				
7-04	2045	5.50	132	7-05	0815	5.79	231	7-08	0100	4.49	7.1
7-04	2115	5.79	231	7-05	0915	5.65	179	7-08	2400	4.40	4.0
7-04	2145	5.79	231	7-05	1000	5.67	185				
7-04	2200	5.87	267	7-05	1015	5.60	162				
7-04	2300	5.74	211	7-05	1145	5.61	165	7-09	0215	4.40	4.0
7-04	2400	5.70	195	7-05	1345	5.40	106	7-09	2400	4.35	3.0
				7-05	1700	5.22	70				
				7-05	2400	4.99	41				
7-05	0015	5.66	182					7-10	0015	4.35	3.0
7-05	0045	5.75	215					7-10	2400	4.30	2.0
7-05	0100	5.70	195	7-06	0045	4.98	40				
7-05	0115	5.78	227	7-06	1315	4.76	21				

(850) 03181900 MOODY MOORE HOLLOW NEAR HUNTERSVILLE, W. VA.

(Crest-stage station)

LOCATION.--Lat 38°13'55", long 79°58'44", Pocahontas County, at culvert on Secondary Route 11, 0.1 mile upstream from mouth, and 3.5 miles northeast of Huntersville.

DRAINAGE AREA.--0.55 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 2,429.55 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 13 cfs June 21 (gage height, 3.95 ft).
1966 to May 1972: Discharge, 20 cfs Sept. 20, 1969 (gage height, 4.40 ft).

(852) 03182650 SPRING CREEK AT SPRING CREEK, W. VA.

LOCATION.--Lat 37°57'24", long 80°21'09", Greenbrier County, on right bank at Spring Creek, 0.3 mile upstream from highway bridge on Secondary State Route 13, and 0.4 mile upstream from mouth.

DRAINAGE AREA.--120 sq mi, including some 60 or more sq mi with sub-surface drainage.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 1,850 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,520 cfs 2100 hours June 21 (gage height, 11.52 ft); 7,020 cfs 1830 hours July 5 (gage height, 12.93 ft).
October 1971 to May 1972: Discharge, 8,820 cfs Feb. 26, 1972 (gage height, 14.52 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	87	484	11...	45	140	21...	3,540	57
2....	73	321	12...	35	118	22...	2,790	48
3....	64	272	13...	31	106	23...	1,500	42
4....	57	248	14...	57	89	24...	1,040	37
5....	53	4,470	15...	67	76	25...	496	32
6....	48	2,420	16...	53	69	26...	314	27
7....	50	572	17...	321	73	27...	224	37
8....	45	321	18...	504	72	28...	210	108
9....	40	224	19...	440	69	29...	612	512
10...	43	175	20...	242	56	30...	356	1,270
						31...		720
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							448	428
RUNOFF, IN INCHES							4.16	4.11

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
7-04	0030	4.08	239	7-05	2400	11.70	5,700				
7-04	2045	4.02	221								
7-04	2200	4.19	272					7-08	0015	4.54	396
7-04	2300	4.90	540	7-06	0015	11.59	5,590	7-08	2400	4.16	263
7-04	2400	5.60	870	7-06	0930	8.09	2,470				
				7-06	1815	6.25	1,240				
				7-06	2400	5.60	870	7-09	0015	4.16	263
7-05	0345	6.68	1,500					7-09	2400	3.93	196
7-05	0630	7.37	1,970								
7-05	1400	12.02	6,020	7-07	0015	5.58	860				
7-05	1830	12.93	7,020	7-07	1545	4.78	492	7-10	0015	3.93	196
7-05	2145	12.53	6,580	7-07	2400	4.54	396	7-10	2400	3.77	155

(853) 03182700 ANTHONY CREEK NEAR ANTHONY, W. VA.

LOCATION.--Lat 37°54'30", long 80°17'30", Greenbrier County, on right bank 0.3 mile downstream from Big Draft, 1.7 miles downstream from Rocky Run, 2.2 miles northeast of Anthony, and at mile 3.2.

DRAINAGE AREA.--144 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals, except 0730 hours to 2200 hours June 21; graph for June 21 reconstructed on basis of floodmarks. Altitude of gage is 1,850 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 13,500 cfs about 1400 hours June 21 (gage height, 17.1 ft, from floodmarks); 4,440 cfs 1530 hours July 5 (gage height, 12.67 ft); 7,000 cfs 2345 hours July 29 (gage height, 14.28 ft).
October 1971 to May 1972: Discharge, 12,900 cfs Feb. 26, 1972 (gage height, 16.90 ft).

(851) 03182500 GREENBRIER RIVER AT BUCKEYE, W. VA.

LOCATION.--Lat 38°11'15", long 80°07'50", Pocahontas County, on right bank at upstream side of highway bridge at Buckeye, 1,000 ft upstream from Swago Creek, 3.5 miles downstream from Knapp Creek, and at mile 103.1.

DRAINAGE AREA.--540 sq mi, includes that of Swago Creek.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 2,085.89 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 25,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 16,400 cfs 1800 hours June 21 (gage height, 11.72 ft); 21,800 cfs 1300 hours July 5 (gage height, 13.39 ft).
1930 to May 1972: Discharge, 41,500 cfs Feb. 5, 1932 (gage height, 17.5 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	372	992	11...	116	570	21...	8,820	262
2....	290	879	12...	129	459	22...	6,890	251
3....	247	760	13...	108	393	23...	5,540	200
4....	214	882	14...	159	340	24...	5,000	167
5....	190	15,400	15...	892	299	25...	2,360	139
6....	172	6,910	16...	773	282	26...	1,380	118
7....	165	3,020	17...	989	259	27...	968	110
8....	154	1,670	18...	905	246	28...	736	203
9....	135	1,080	19...	646	237	29...	792	651
10...	124	759	20...	502	201	30...	1,020	1,740
						31...		1,830
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							1,360	1,330
RUNOFF,IN INCHES.....							2.81	2.84

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0200	3.10	540					7-04	2100	3.81	1,010
6-20	0100	3.10	540	6-26	0100	4.60	1,700	7-04	2300	4.73	1,840
6-20	2400	3.01	495	6-26	2400	3.95	1,110	7-04	2400	6.62	4,350
6-21	0300	3.16	570	6-27	0100	3.93	1,090	7-05	0300	9.15	9,350
6-21	0400	3.38	706	6-27	2400	3.59	853	7-05	0700	10.78	13,600
6-21	0500	3.88	1,060					7-05	1200	13.32	21,500
6-21	0600	4.67	1,780					7-05	1300	13.39	21,800
6-21	0700	5.94	3,320	6-28	0100	3.58	846	7-05	2400	10.16	11,800
6-21	1400	11.33	15,200	6-28	2300	3.36	692				
6-21	1700	11.72	16,400	6-28	2400	3.37	699				
6-21	2000	11.16	14,700					7-06	0100	9.88	11,100
6-21	2400	9.92	11,200					7-06	1200	7.77	6,460
				6-29	1900	3.60	860	7-06	2400	6.51	4,170
				6-29	2400	3.80	1,000				
6-22	0100	9.63	10,500								
6-22	1100	7.70	6,330					7-07	0100	6.43	4,050
6-22	2400	6.58	4,290	6-30	0300	3.88	1,060	7-07	2400	5.02	2,170
				6-30	2400	3.78	986				
6-23	1000	6.95	4,920					7-08	0100	4.98	2,130
6-23	2200	8.29	7,510	7-01	2300	3.81	1,010	7-08	2400	4.18	1,310
6-23	2300	8.26	7,450	7-01	2400	3.80	1,000				
6-23	2400	8.20	7,320								
								7-09	0100	4.16	1,290
				7-02	0100	3.80	1,000	7-09	2400	3.65	895
6-24	0100	8.11	7,130	7-02	2400	3.45	755				
6-24	2200	5.99	3,390								
6-24	2400	5.85	3,210					7-10	0100	3.63	881
				7-03	1400	3.48	776	7-10	2400	3.29	644
				7-03	2400	3.46	762				
6-25	0100	5.78	3,110								
6-25	2400	4.63	1,730					7-11	0100	3.28	638
				7-04	1900	3.39	713	7-11	2400	3.03	505

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	84	307	11...	31	122	21...	6,650	43
2....	73	241	12...	28	103	22...	1,790	40
3....	62	208	13...	27	92	23...	617	68
4....	54	168	14...	27	81	24...	356	54
5....	49	2,280	15...	31	74	25...	241	43
6....	44	1,200	16...	31	65	26...	179	37
7....	43	491	17...	99	65	27...	140	38
8....	39	293	18...	215	56	28...	126	177
9....	35	201	19...	120	60	29...	576	2,710
10...	34	152	20...	105	50	30...	366	3,530
						31...		1,010
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							409	454
RUNOFF,IN INCHES.....							3.17	3.63

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	7.03	97					6-25	2400	7.53	203
6-20	1445	7.07	105	6-22	0015	12.51	4,210				
6-20	2400	7.22	134	6-22	0530	11.04	2,390				
				6-22	1415	9.81	1,290	6-26	0045	7.53	203
				6-22	2400	9.12	852	6-26	2400	7.32	154
6-21	0230	7.43	179								
6-21	0315	7.69	243								
6-21	0415	8.63	599	6-23	0030	9.10	840	6-27	0045	7.32	154
6-21	0500	9.64	1,160	6-23	2400	8.27	443	6-27	2400	7.17	124
6-21	0615	11.77	3,220								
6-21	0915	15.54	9,590								
6-21	1400	17.10	13,500	6-24	0030	8.26	439	6-28	1715	7.17	124
6-21	1415	16.97	13,100	6-24	2400	7.81	279	6-28	2200	7.34	159
6-21	2330	12.89	4,750					6-28	2400	7.57	213
6-21	2400	12.67	4,440								
				6-25	0030	7.81	279				

(854) DRY FORK AT WHITE SULPHUR SPRINGS, W. VA.

(Miscellaneous site)

LOCATION.--Lat 37°47'38", long 80°17'41", Greenbrier County, at White Sulphur Springs, 0.3 mile upstream from U.S. Highway 60, and 0.5 mile upstream from mouth.

DRAINAGE AREA.--23.0 sq mi.

DISCHARGE RECORD.--Peak discharge by slope-area measurement.

MAXIMUMS.--June-July 1972: Discharge, 4,100 cfs June 21.

(855) 03182950 HOWARD CREEK AT CALDWELL, W. VA.

LOCATION.--Lat 37°46'54", long 80°23'15", Greenbrier County, on right bank at Caldwell, 300 ft upstream from highway bridge on U.S. Highway 60, 0.9 mile upstream from mouth, 3.5 miles southeast of Lewisburg, and 5.0 miles southwest of White Sulphur Springs.

DRAINAGE AREA.--84.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0100 hours June 19 to 1800 hours June 21. Datum of gage is 1,681.01 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 800 cfs and by slope-area measurement at 14,100 cfs.

MAXIMUMS.--June-July 1972: Discharge, 14,000 cfs June 21 (gage height, 18.6 ft, from floodmarks); 4,010 cfs 2230 hours July 29 (gage height, 10.90 ft).
October 1971 to May 1972: Discharge, 6,740 cfs Feb. 26, 1972 (gage height, 13.45 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	35	88	11...	15	48	21...	7,500	25
2....	29	58	12...	19	41	22...	640	24
3....	25	46	13...	17	38	23...	386	25
4....	22	39	14...	16	35	24...	244	21
5....	21	675	15...	179	31	25...	177	20
6....	20	470	16...	235	29	26...	131	15
7....	19	235	17...	100	25	27...	98	14
8....	18	152	18...	538	27	28...	72	20
9....	18	103	19...	200	32	29...	177	1,200
10...	16	72	20...	100	27	30...	126	1,550
						31...		650
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							373	188
RUNOFF,IN INCHES.....							4.93	2.57

(856) 03183000 SECOND CREEK NEAR SECOND CREEK, W. VA.

LOCATION.--Lat 37°41'05", long 80°27'25", Monroe County, on left bank 100 ft upstream from bridge on U.S. Highway 219, 1.5 miles downstream from Second Creek, and at mile 8.0.

DRAINAGE AREA.--80.8 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,810.79 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,600 cfs and by slope-area measurement at 6,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 7,470 cfs 1030 hours June 21 (gage height, 9.41 ft).
1946 to May 1972: Discharge, 6,100 cfs Mar. 31, 1948 (gage height, 7.77 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	39	57	11...	17	53	21...	3,560	22
2....	33	50	12...	16	45	22...	907	21
3....	30	47	13...	16	42	23...	382	24
4....	27	43	14...	19	37	24...	215	19
5....	25	510	15...	17	33	25...	153	18
6....	24	333	16...	16	31	26...	111	15
7....	24	183	17...	105	31	27...	84	15
8....	21	126	18...	146	28	28...	69	21
9....	19	89	19...	63	31	29...	80	42
10...	18	67	20...	69	25	30...	61	133
						31...		203
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							212	77
RUNOFF,IN INCHES.....							2.93	1.10

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-19	0030	1.62	80	6-21	2400	4.80	1,850	6-26	0045	1.86	126
6-19	0030	1.62	80					6-26	2400	1.71	96
6-19	2400	1.40	47								
				6-22	0015	4.79	1,840				
				6-22	0615	4.00	1,130	6-27	0045	1.70	94
6-20	0700	1.43	51	6-22	1700	3.26	616	6-27	2400	1.56	71
6-20	2145	1.74	102	6-22	2400	3.10	530				
6-20	2400	1.83	120								
								6-28	1000	1.54	67
				6-23	0030	3.09	525	6-28	1115	1.48	58
6-21	0145	2.11	181	6-23	2230	2.46	273	6-28	2330	1.64	84
6-21	0230	2.48	279	6-23	2400	2.44	267	6-28	2400	1.69	92
6-21	0300	2.92	440								
6-21	0345	4.07	1,190								
6-21	0545	7.09	4,390	6-24	0015	2.44	267	6-29	0015	1.69	92
6-21	0745	8.75	6,550	6-24	2400	2.09	177	6-29	2400	1.54	67
6-21	1000	8.74	6,530								
6-21	1030	9.41	7,470								
6-21	1045	8.85	6,680	6-25	0100	2.08	175	6-30	0100	1.54	67
6-21	1130	9.27	7,260	6-25	2400	1.86	126	6-30	2400	1.49	60
6-21	1215	8.70	6,480								
6-21	2145	5.28	2,330								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	934	2,810	11...	406	1,960	21...	16,100	651
2....	853	2,850	12...	382	1,570	22...	32,500	567
3....	865	2,390	13...	353	1,310	23...	13,700	544
4....	737	2,070	14...	348	1,130	24...	11,400	591
5....	650	7,360	15...	379	1,030	25...	7,970	523
6....	586	27,100	16...	407	887	26...	4,710	446
7....	541	10,900	17...	2,110	850	27...	3,260	394
8....	505	5,690	18...	5,330	796	28...	2,500	433
9....	468	3,600	19...	3,530	757	29...	2,560	1,040
10...	433	2,560	20...	2,600	695	30...	3,240	12,000
						31...		9,040
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4,010	3,370
RUNOFF,IN INCHES.....							2.75	2.39

(859) 03184000 GREENBRIER RIVER AT HILLDALE, W. VA.

LOCATION.--Lat 37°38'25", long 80°48'20", Summers County, on left bank 100 ft downstream from highway bridge on State Highway 3 at Hilldale, 0.1 mile upstream from Howard Creek, 0.9 mile upstream from Powley Creek, 5.0 miles southeast of Hinton, and at mile 5.6. Records include flow of Howard Creek.

DRAINAGE AREA.--1,625 sq mi, includes that of Howard Creek.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,388.66 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 47,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 39,300 cfs 0200 hours June 22 (gage height, 17.79 ft); 33,300 cfs 0700 hours July 6 (gage height, 16.01 ft).
1936 to May 1972: Discharge, 60,800 cfs Mar. 18, 1936 (gage height, 21.85 ft), from data furnished by Corps of Engineers; gage height, 22.66 ft Mar. 8, 1967.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-16	0200	1.23	364								
6-16	2400	1.36	455								
				6-20	0100	3.85	2,900	6-24	1700	8.67	12,200
				6-20	2400	3.47	2,460	6-24	2200	8.33	11,300
6-17	0100	1.58	624					6-24	2400	8.09	10,700
6-17	0200	2.26	1,210								
6-17	0500	2.45	1,400	6-21	0600	4.11	3,210				
6-17	1500	2.59	1,540	6-21	1200	6.20	6,700	6-25	0100	7.97	10,400
6-17	2000	4.37	3,560	6-21	1300	8.16	10,900	6-25	2400	5.79	5,970
6-17	2200	5.24	5,310	6-21	1500	12.41	22,300				
6-17	2300	5.37	5,460	6-21	2300	17.56	38,500				
6-17	2400	5.35	5,440	6-21	2400	17.66	38,800	6-26	0100	5.73	5,900
								6-26	2400	4.55	3,870
6-18	1300	5.75	5,920	6-22	0200	17.79	39,300				
6-18	2200	5.20	5,260	6-22	1500	15.26	30,900	6-27	0100	4.51	3,770
6-18	2400	5.04	5,070	6-22	2400	11.50	19,700	6-27	2400	3.79	2,830
6-19	0100	4.96	4,920	6-23	0100	11.21	18,900	6-28	0100	3.76	2,790
6-19	1500	4.09	3,190	6-23	1800	8.32	11,300	6-28	2400	3.30	2,270
6-19	2400	3.88	2,940	6-23	2400	8.09	10,700				

(860) 03184200 BIG CREEK NEAR BELLEPOINT, W. VA.

LOCATION.--Lat 37°40'28", long 80°48'52", Summers County, on left bank 10 ft downstream from bridge on Secondary State Route 10, 4.0 miles northeast of Bellepoint, and at mile 2.0.

DRAINAGE AREA.--8.27 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1800 hours July 19 to 2400 hours July 31. Altitude of gage is 1,670 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 80 cfs and extended above on basis of step-backwater method.

MAXIMUMS.--June-July 1972: Discharge, 974 cfs 1930 hours June 17 (gage height, 4.49 ft); 237 cfs 1215 hours June 21 (gage height, 2.94 ft); July 30 (time and discharge unknown).
1970 to May 1972: Discharge, 1,040 cfs Feb. 26, 1972 (gage height, 4.60 ft).

(857) 03183500 GREENBRIER RIVER AT ALDERSON, W. VA.

LOCATION.--Lat 37°43'30", long 80°38'30", Monroe County, on left bank 400 ft upstream from highway bridge at Alderson, 0.5 mile upstream from Muddy Creek, and at mile 28.4.

DRAINAGE AREA.--1,357 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,529.42 ft above mean sea level. Prior to Oct. 15, 1929, nonrecording gage at bridge 400 ft downstream at same datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 37,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 38,000 cfs 2000 hours June 21 (gage height, 15.24 ft); 33,500 cfs 0200 hours July 6 (gage height, 13.94 ft).
1896 to May 1972: Discharge, 77,500 cfs Mar. 14, 1918 (gage height, 22.0 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	800	2,690	11...	394	1,790	21...	20,400	655
2....	790	2,640	12...	362	1,470	22...	27,400	602
3....	760	2,260	13...	332	1,290	23...	11,100	655
4....	664	1,970	14...	362	1,140	24...	10,300	637
5....	602	12,300	15...	368	1,030	25...	6,380	538
6....	546	23,400	16...	790	908	26...	3,740	466
7....	522	8,510	17...	1,920	884	27...	2,680	415
8....	482	4,680	18...	3,960	812	28...	2,080	474
9....	443	3,080	19...	2,660	750	29...	2,770	2,350
10...	415	2,300	20...	1,970	740	30...	2,820	11,500
						31...		7,460
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							3,630	3,240
RUNOFF,IN INCHES.....							2.98	2.75

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-16	0200	2.65	415	6-20	0100	4.05	2,190				
6-16	1300	2.68	436	6-20	2400	3.84	1,820	6-24	1200	7.56	11,200
6-16	1400	2.89	602					6-24	1700	7.32	10,500
6-16	1500	3.57	1,400					6-24	2400	6.68	8,540
6-16	1600	3.64	1,500	6-21	0500	4.10	2,280				
6-16	2400	3.52	1,330	6-21	0600	4.33	2,690				
				6-21	0700	4.87	3,740	6-25	0100	6.60	8,300
				6-21	0800	6.21	7,130	6-25	2400	5.27	4,680
6-17	1000	3.53	1,340	6-21	1100	10.89	22,800				
6-17	1500	4.06	2,210	6-21	1800	15.18	37,800				
6-17	2400	4.83	3,660	6-21	2000	15.24	38,000	6-26	0100	5.22	4,550
				6-21	2400	15.10	37,600	6-26	2400	4.55	3,100
6-18	0800	5.18	4,450								
6-18	0900	5.17	4,430	6-22	0100	15.07	37,400	6-27	0100	4.53	3,060
6-18	2400	4.55	3,100	6-22	2400	8.61	14,800	6-27	2400	4.11	2,300
6-19	0100	4.52	3,040	6-23	0100	8.45	14,300	6-28	0100	4.10	2,280
6-19	2400	4.07	2,230	6-23	1500	7.13	9,890	6-28	2400	3.97	2,050
				6-23	2400	7.05	9,650				

(858) 03183550 GRIFFITH CREEK NEAR ALDERSON, W. VA.

(Crest-stage station)

LOCATION.--Lat 37°44'15", long 80°42'36", Monroe County, at culvert on State Secondary Route 7/14 at Griffith School, 4.0 miles northwest of Alderson, and at mile 2.0.

DRAINAGE AREA.--3.84 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,850 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 145 cfs time and date unknown (gage height, 7.00 ft).
1966 to May 1972: Discharge, 420 cfs Aug. 20, 1969 (gage height, 10.75 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2.3	3.2	11...	.47	2.4	21...	150	1.8
2....	1.8	2.3	12...	.35	1.9	22...	60	1.1
3....	1.4	2.1	13...	.29	1.6	23...	34	2.0
4....	1.2	15	14...	.85	1.3	24...	22	1.1
5....	.95	89	15...	.47	1.3	25...	14	.90
6....	.85	34	16...	.85	4.6	26...	8.6	.85
7....	.95	14	17...	183	2.6	27...	5.3	1.0
8....	.75	7.6	18...	87	3.7	28...	4.8	6.0
9....	.56	4.6	19...	19	4.5	29...	5.0	100
10...	.65	3.5	20...	27	2.7	30...	3.7	140
						31...		45
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							21	16
RUNOFF,IN INCHES.....							2.87	2.26

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-16	0030	1.32	.35					6-22	0300	2.39	85
6-16	1315	1.32	.35	6-18	0015	2.90	216	6-22	2100	2.10	35
6-16	1415	1.35	.56	6-18	0030	2.82	192	6-22	2400	2.10	35
6-16	1445	1.35	.56	6-18	0730	2.45	99				
6-16	1600	1.39	.95	6-18	0845	2.42	93				
6-16	1900	1.42	1.2	6-18	1245	2.29	67	6-23	0415	2.17	44
6-16	1945	1.44	1.5	6-18	1345	2.30	69	6-23	0430	2.16	42
6-16	2115	1.50	2.3	6-18	2045	2.12	38	6-23	2045	2.03	27
6-16	2215	1.50	2.3	6-18	2400	2.07	32	6-23	2400	2.02	26
6-16	2400	1.47	1.8								
				6-19	0015	2.07	32	6-24	0145	2.02	27
6-17	0030	1.47	2.2	6-19	0845	1.96	22	6-24	2400	1.90	17
6-17	0645	1.42	1.5	6-19	2200	1.81	12				
6-17	0845	1.43	1.5	6-19	2400	1.80	11				
6-17	0915	1.45	1.8					6-25	0030	1.90	17
6-17	1015	1.47	2.2					6-25	2400	1.76	9.5
6-17	1130	1.53	3.5	6-20	0645	1.78	10				
6-17	1230	1.62	5.5	6-20	0915	1.87	15				
6-17	1245	1.68	7.5	6-20	1030	2.03	28	6-26	0445	1.76	9.8
6-17	1300	1.82	14	6-20	1215	2.21	53	6-26	1700	1.71	7.8
6-17	1315	2.15	48	6-20	1245	2.22	54	6-26	2400	1.65	6.0
6-17	1330	2.50	115	6-20	2215	2.04	29				
6-17	1345	3.07	280	6-20	2400	2.04	29				
6-17	1415	3.46	424					6-27	0500	1.65	6.0
6-17	1500	3.09	287					6-27	1615	1.62	5.0
6-17	1515	3.13	301	6-21	0130	2.15	48	6-27	2400	1.58	4.0
6-17	1545	2.90	225	6-21	0300	2.39	93				
6-17	1715	2.68	160	6-21	0445	2.47	109				
6-17	1730	2.68	160	6-21	0700	2.88	219	6-28	1645	1.56	3.6
6-17	1745	2.81	198	6-21	0745	2.84	207	6-28	1715	1.60	4.5
6-17	1900	4.10	740	6-21	1130	2.91	228	6-28	1730	1.60	4.5
6-17	1930	4.49	974	6-21	1215	2.94	237	6-28	1800	1.67	6.5
6-17	2130	3.46	424	6-21	2015	2.52	120	6-28	1815	1.78	11
6-17	2315	2.92	231	6-21	2400	2.44	103	6-28	2000	1.68	6.8
6-17	2330	3.08	283					6-28	2400	1.68	6.8
6-17	2400	2.98	249								
				6-22	0015	2.44	95				

(861) 03186500 WILLIAMS RIVER AT DYER, W. VA.

LOCATION.--Lat 38°22'45", long 80°29'05", Webster County, on left bank at Dyer, 0.2 mile downstream from Craig Run, 7.0 miles southwest of Webster Springs, and at mile 2.1.

DRAINAGE AREA.--128 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 2,193.46 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,000 cfs and by slope-area measurements at 11,700 cfs, 13,900 cfs, and 22,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 6,770 cfs 0745 hours June 23 (gage height, 9.21 ft); 4,990 cfs 1230 hours July 5 (gage height, 7.63 ft).
1930 to May 1972: Discharge, 22,000 cfs July 4, 1932 (gage height, 18.45 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	133	726	11...	58	180	21...	1,680	77
2....	97	456	12...	40	145	22...	1,900	67
3....	79	525	13...	38	123	23...	4,800	52
4....	66	570	14...	525	99	24...	1,410	43
5....	62	3,170	15...	375	110	25...	1,130	35
6....	55	1,660	16...	530	84	26...	645	30
7....	53	808	17...	438	79	27...	438	43
8....	47	485	18...	288	75	28...	316	208
9....	39	323	19...	205	110	29...	347	383
10...	48	226	20...	170	93	30...	372	1,080
						31...		850
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							546	417
RUNOFF,IN INCHES.....							4.76	3.75

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	1.97	173	6-22	2115	4.75	1,840	6-25	2400	3.46	822
6-20	1815	1.99	178	6-22	2400	5.61	2,770				
6-20	2400	2.06	195					6-26	0030	3.45	815
				6-23	0745	9.21	6,770	6-26	2400	2.89	505
6-21	0545	2.24	249	6-23	0800	9.20	6,760				
6-21	0830	2.68	407	6-23	2315	6.36	3,600				
6-21	0915	3.00	560	6-23	2400	6.29	3,520	6-27	0015	2.89	505
6-21	0930	3.46	822					6-27	2400	2.56	361
6-21	1015	5.74	2,910								
6-21	1215	6.44	3,680	6-24	0015	6.27	3,500				
6-21	1230	6.42	3,660	6-24	2345	4.42	1,540	6-28	0015	2.56	361
6-21	2130	4.78	1,870	6-24	2400	4.41	1,530	6-28	2130	2.38	298
6-21	2400	4.78	1,870					6-28	2400	2.47	330
				6-25	0015	4.41	1,530				

(862) 03187000 GAULEY RIVER AT CAMDEN ON GAULEY, W. VA.

LOCATION.--Lat 38°21'55", long 80°36'05", Webster County, on right bank at Baltimore & Ohio Railroad station at Camden on Gauley, 0.2 mile downstream from Coon Creek, 0.9 mile upstream from Strouds Creek, and at mile 69.6.

DRAINAGE AREA.--236 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 5-minute intervals. Datum of gage is 2,003.28 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 17,000 cfs and extended above by velocity-area studies.

MAXIMUMS.--June-July 1972: Discharge, 12,900 cfs 1045 hours June 23 (gage height, 15.19 ft); 7,090 cfs 1700 hours July 5 (gage height, 11.22 ft).
1909-16, 1930 to May 1972: Discharge, 42,500 cfs July 4, 1932 (gage height, 27.38 ft, from floodmarks).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	282	1,220	11...	82	296	21...	1,490	150
2....	186	910	12...	68	258	22...	2,720	117
3....	145	1,250	13...	62	207	23...	8,940	94
4....	117	1,280	14...	535	168	24...	4,770	76
5....	108	4,360	15...	780	148	25...	2,240	60
6....	98	3,140	16...	695	145	26...	1,260	52
7....	88	1,570	17...	835	123	27...	830	52
8....	78	904	18...	520	117	28...	585	251
9....	65	575	19...	380	180	29...	580	560
10...	76	388	20...	282	183	30...	610	1,660
						31...		1,840
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							984	720
RUNOFF,IN INCHES.....							4.65	3.52

(864) 03189590 SUMMERSVILLE LAKE NEAR SUMMERSVILLE, W. VA.

LOCATION.--Lat 38°13'20", long 80°53'35", Nicholas County, at Summersville Dam on Gauley River, 4.6 miles southwest of Summersville, and at mile 34.5.

DRAINAGE AREA.--803 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed from capacity table exhibit No. 13.

MAXIMUMS.--June-July 1972: Contents, 211,300 acre-ft 1200 hours June 24 (elevation, 1,658.80 ft).
1966 to May 1972: Contents, 421,800 acre-ft Mar. 5, 1966 (elevation, 1,711.7 ft), caused by flood before valves were operational.

REMARKS.--Reservoir is formed by rockfill dam with impervious core, completed in 1971; closure of dam was made and storage began in May 1965. Spillway is uncontrolled saddle spillway 1,250 ft long. Flow is controlled by three 9-ft and one 2.5-ft diameter Howell-Bunger fixed-cone dispersion valves. Total level pool capacity at elevation 1,710 ft (flood-control pool elevation) is 413,800 acre-ft of which 390,800 acre-ft is controlled storage above elevation 1,520 ft (minimum-pool elevation). Reservoir is used for flood control.

COOPERATION.--Records furnished by Corps of Engineers.

ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, AT 2400 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	1,652.21	192,100	1,652.55	193,100	16	1,652.20	192,100	1,652.41	192,700
2	1,652.11	191,800	1,652.47	192,900	17	1,652.34	192,500	1,652.51	193,200
3	1,652.31	192,400	1,652.33	192,500	18	1,652.38	192,600	1,652.58	193,200
4	1,652.51	193,000	1,652.55	193,100	19	1,652.24	192,200	1,652.75	193,600
5	1,652.60	193,200	1,653.62	196,100	20	1,652.03	191,600	1,652.71	193,500
6	1,652.53	193,000	1,652.49	192,900	21	1,652.47	192,900	1,652.42	192,700
7	1,651.86	191,200	1,652.39	192,600	22	1,652.30	192,400	1,652.45	192,800
8	1,652.00	191,500	1,652.25	192,200	23	1,657.80	208,300	1,652.42	192,700
9	1,652.17	192,000	1,652.21	192,100	24	1,657.90	208,600	1,652.34	192,500
10	1,652.35	192,500	1,652.20	192,100	25	1,653.56	195,900	1,652.25	192,200
11	1,652.48	192,900	1,652.14	191,900	26	1,652.55	193,100	1,652.22	192,200
12	1,652.50	192,900	1,652.25	192,200	27	1,652.04	191,600	1,652.30	192,400
13	1,652.52	193,000	1,652.17	192,000	28	1,652.11	191,800	1,652.43	192,700
14	1,652.65	193,400	1,651.98	191,500	29	1,652.31	192,400	1,652.17	192,000
15	1,652.88	194,000	1,652.08	191,800	30	1,652.25	192,200	1,652.75	193,600
					31			1,652.59	193,200
CHANGE IN CONTENTS.....							-900		+1,000

(865) 03189600 GAULEY RIVER BELOW SUMMERSVILLE DAM, W. VA.

LOCATION.--Lat 38°13'00", long 80°53'30", Nicholas County, on right bank 0.4 mile downstream from Summersville Dam, 5.0 miles southwest of Summersville, and at mile 34.1.

DRAINAGE AREA.--804 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 1,350.00 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 15,700 cfs 1400 hours June 24 (gage height, 18.49 ft).
1967 to May 1972: Discharge, 17,800 cfs Mar. 26, 1966 (gage height, 19.30 ft).

REMARKS.--Flow regulated by Summersville Lake (see sta 03189590).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,030	4,490	11...	124	1,380	21...	3,120	1,290
2....	1,010	3,950	12...	223	943	22...	7,510	418
3....	272	4,500	13...	353	971	23...	12,700	418
4....	272	3,600	14...	454	971	24...	15,600	418
5....	272	10,500	15...	1,620	505	25...	14,200	342
6....	615	11,700	16...	2,700	121	26...	5,480	265
7....	1,320	5,480	17...	2,110	307	27...	3,380	269
8....	68	3,530	18...	1,790	560	28...	2,220	1,300
9....	44	2,390	19...	1,790	585	29...	2,580	4,540
10...	62	1,840	20...	1,560	1,360	30...	2,940	7,270
						31...		8,800
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,950	2,740
RUNOFF,IN INCHES.....							4.09	3.93

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	3.05	328					6-25	2400	5.47	1,630
6-20	0030	3.05	328								
6-20	2330	2.89	272	6-23	0330	9.58	[illegible],140				
6-20	2400	2.89	272	6-23	0730	12.35	[illegible],590	6-26	0015	5.46	1,620
				6-23	0800	14.22	11,400	6-26	2400	4.44	994
				6-23	1045	15.19	12,900				
6-21	1130	3.11	349	6-23	1345	14.60	12,000				
6-21	1245	3.54	520	6-23	2400	11.34	[illegible],240	6-27	0015	4.43	988
6-21	1300	4.13	815					6-27	1630	4.14	820
6-21	1415	7.30	3,040					6-27	2400	3.98	740
6-21	1645	8.06	3,650	6-24	0015	11.28	7,160				
6-21	1730	7.94	3,550	6-24	1930	7.80	[illegible],440				
6-21	2400	6.65	2,520	6-24	2400	7.25	3,000	6-28	0015	3.97	735
								6-28	2400	3.50	500
6-22	2400	7.38	3,100	6-25	0015	7.25	[illegible],000				

(863) 03189100 GAULEY RIVER NEAR CRAIGSVILLE, W. VA.

LOCATION.--Lat 38°17'30", long 80°38'30", Nicholas County, on right bank at downstream side of highway bridge on W. Va. Route 20, 200 ft downstream from Cherry River, 1.8 miles downstream from Cranberry River, 2.7 miles south of Craigsville, and at mile 60.0.

DRAINAGE AREA.--528 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 1,870.00 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 24,700 cfs 1045 hours June 23 (gage height, 18.73 ft); 15,800 cfs 1500 hours July 5 (gage height, 16.36 ft).
1965 to May 1972: Discharge, 40,700 cfs Mar. 7, 1967 (gage height, 22.73 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	644	3,940	11...	202	750	21...	4,250	410
2....	434	2,600	12...	169	644	22...	6,650	314
3....	350	2,750	13...	149	524	23...	18,700	250
4....	278	2,620	14...	660	434	24...	10,900	202
5....	260	9,740	15...	1,470	374	25...	5,330	165
6....	235	7,250	16...	1,180	350	26...	2,980	137
7....	210	3,640	17...	1,580	356	27...	1,910	129
8....	190	2,150	18...	1,100	344	28...	1,370	489
9....	161	1,410	19...	950	503	29...	1,830	1,530
10...	177	980	20...	714	573	30...	1,940	3,860
						31...		3,940
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							2,230	1,720
RUNOFF,IN INCHES.....							4.72	3.76

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0030	10.46	804					6-25	0015	13.70	7,100
6-20	0030	10.46	804	6-22	2330	13.71	7,130	6-25	2400	12.40	3,800
6-20	2300	10.35	705	6-22	2400	13.81	7,430				
6-20	2400	10.36	714								
								6-26	0015	12.39	3,780
				6-23	0600	16.56	16,500	6-26	2400	11.64	2,330
6-21	0845	10.65	980	6-23	1045	18.73	24,700				
6-21	1015	10.90	1,250	6-23	1200	18.72	24,700				
6-21	1045	11.33	1,820	6-23	2400	16.54	16,400	6-27	0015	11.63	2,310
6-21	1145	12.37	3,740					6-27	2400	11.21	1,640
6-21	1315	13.32	6,000								
6-21	1600	13.33	6,030	6-24	0015	16.50	16,300				
6-21	1730	14.17	8,510	6-24	2230	13.84	7,520	6-28	0030	11.20	1,630
6-21	1815	14.18	8,540	6-24	2400	13.72	7,160	6-28	2115	10.92	1,270
6-21	2400	13.54	6,620					6-28	2400	11.07	1,460

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	8.47	1,150	6-27	1200	10.66	2,940	7-05	0300	11.36	3,610
6-21	1300	8.47	1,150	6-27	1500	10.65	2,940	7-05	0400	12.27	4,570
6-21	1400	9.09	1,640	6-27	1600	9.81	2,720	7-05	0800	12.28	4,590
6-21	1800	13.34	5,960	6-27	2400	9.81	2,220	7-05	1300	17.00	12,100
6-21	2000	15.46	9,140					7-05	1500	18.34	15,400
6-21	2100	15.47	9,160					7-05	2300	18.38	15,500
6-21	2400	15.46	9,140	6-28	2300	9.81	2,720	7-05	2400	18.37	15,400
				6-28	2400	9.80	2,710				
6-22	0500	15.47	9,160					7-06	0400	18.39	15,500
6-22	0800	15.44	9,110	6-29	1200	9.81	2,720	7-06	1300	18.35	15,400
6-22	0900	13.07	5,560	6-29	1300	10.65	2,940	7-06	1400	15.19	8,740
6-22	1400	13.05	5,530	6-29	2300	10.65	2,940	7-06	2000	15.17	8,710
6-22	1500	14.06	7,040	6-29	2400	10.64	2,930	7-06	2100	13.82	6,680
6-22	2400	14.07	7,060					7-06	2400	13.83	6,700
				6-30	2400	10.65	2,940				
6-23	0500	14.08	7,070					7-07	1000	13.84	6,710
6-23	0900	18.39	15,500					7-07	1600	13.82	6,680
6-23	2000	18.47	15,700	7-01	0900	10.65	2,940	7-07	1700	11.28	3,530
6-23	2400	18.45	15,600	7-01	1200	12.99	5,440	7-07	2400	11.28	3,530
				7-01	2400	13.01	5,470				
6-24	1400	18.49	15,700					7-08	0300	11.29	3,540
6-24	2400	18.44	15,600	7-02	0700	13.01	5,470	7-08	2400	11.27	3,520
				7-02	0800	13.00	5,450				
				7-02	1000	10.64	2,930				
6-25	1000	18.45	15,600	7-02	1700	11.00	3,250	7-09	0700	11.29	3,540
6-25	2000	18.36	15,400	7-02	2400	11.12	3,370	7-09	0800	11.28	3,530
6-25	2100	15.52	9,230					7-09	0900	9.85	2,250
6-25	2200	12.64	5,020					7-09	1000	9.36	1,860
6-25	2400	12.48	4,830	7-03	0800	11.12	3,370	7-09	2400	9.34	1,840
				7-03	1000	12.97	5,410				
				7-03	2100	13.00	5,450				
6-26	0800	12.44	4,780	7-03	2200	11.40	3,650	7-10	1400	9.35	1,850
6-26	1000	13.28	5,870	7-03	2400	11.34	3,590	7-10	2400	9.34	1,840
6-26	1500	13.29	5,890								
6-26	2400	13.27	5,860								
				7-04	2100	11.36	3,610				
				7-04	2400	11.35	3,600	7-11	1400	9.34	1,840
6-27	0800	13.28	5,870					7-11	1500	8.04	844
6-27	0900	11.13	3,380					7-11	2400	8.03	838

(866) 03193830 GILMER RUN NEAR MARLINTON, W. VA.

LOCATION.--Lat 38°19'12", long 80°05'52", Pocahontas County, on left bank 8.0 ft upstream from culvert on Forest Service Road 251, and 6.8 miles north of Marlinton.

DRAINAGE AREA.--1.80 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Altitude of gage is 3,120 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 120 cfs and computation of flow through culvert.

MAXIMUMS.--June-July 1972: Discharge, 114 cfs 0545 hours June 21 (gage height, 5.74 ft); 119 cfs 0300 hours July 5 (gage height, 5.81 ft).
1969 to May 1972: Discharge, 169 cfs Dec. 7, 1971 (gage height, 6.53 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	.40	4.8	11...	.08	.69	21...	48	.13
2....	.31	2.8	12...	.06	.50	22...	17	.10
3....	.23	2.1	13...	.23	.45	23...	33	.08
4....	.19	14	14...	5.3	.31	24...	10	.06
5....	.16	65	15...	1.5	.27	25...	4.6	.03
6....	.16	13	16...	1.7	.19	26...	2.4	.03
7....	.13	4.8	17...	1.5	.19	27...	2.4	.45
8....	.10	2.6	18...	.91	.16	28...	1.7	1.5
9....	.08	1.5	19...	.62	.19	29...	4.6	3.3
10...	.27	.91	20...	1.6	.23	30...	3.6	13
						31...		6.1
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4.8	4.5
RUNOFF,IN INCHES.....							2.95	2.88

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
7-04	0030	3.91	1.7	7-05	0815	5.65	108	7-08	0130	4.00	3.2
7-04	1245	3.89	1.5	7-05	1145	5.03	64	7-08	2100	3.92	2.0
7-04	1645	3.87	1.2	7-05	1745	4.63	36	7-08	2400	3.92	2.0
7-04	1830	3.89	1.5	7-05	2400	4.44	23				
7-04	1930	3.95	2.3								
7-04	1945	3.99	3.0					7-09	0030	3.92	2.0
7-04	2000	4.05	4.5	7-06	0030	4.43	22	7-09	1400	3.88	1.5
7-04	2015	4.26	12	7-06	1115	4.26	12	7-09	2000	3.85	1.0
7-04	2145	5.14	72	7-06	1945	4.16	7.7	7-09	2400	3.85	1.0
7-04	2215	5.22	77	7-06	2400	4.13	6.7				
7-04	2400	5.08	68								
								7-10	0645	3.85	1.0
				7-07	0130	4.13	6.7	7-10	1400	3.83	.91
7-05	0230	5.60	104	7-07	2030	4.01	3.5	7-10	2000	3.81	.76
7-05	0300	5.81	119	7-07	2400	4.00	3.2	7-10	2400	3.81	.76
7-05	0330	5.72	112								
7-05	0715	5.68	110								
7-05	0745	5.81	119								

(867) 03194700 ELK RIVER BELOW WEBSTER SPRINGS, W. VA.

LOCATION.--Lat 38°35'50", long 80°29'20", Webster County, on right bank 10 ft upstream from swinging footbridge, 6.5 miles upstream from town of Centralia, 8.9 miles southwest of Salisbury Station, 8.9 miles northwest of Webster Springs, and at mile 122.7.

DRAINAGE AREA.--268 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 0300 hours July 7 to 1400 hours July 11. Water-stage-recorder graph 0300 hours July 7 to 1400 hours July 11. Altitude of gage is 1,020 ft (by barometer).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 17,400 cfs 1100 hours June 23 (gage height, 12.25 ft). 1960 to May 1972: Discharge, 21,400 cfs Mar. 7, 1967 (gage height, 13.35 ft).
Flood in 1861 (probably in September) reached a stage of 26.34 ft and flood of July 26, 1896, reached a stage of 25.87 ft, present datum, at site 0.2 mile upstream, from levels to floodmarks pointed out by a local resident.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	380	1,220	11...	101	426	21...	1,340	375
2....	274	1,030	12...	90	570	22...	2,610	274
3....	210	1,090	13...	86	396	23...	12,500	218
4....	172	1,340	14...	360	300	24...	6,030	172
5....	169	3,980	15...	909	246	25...	2,630	143
6....	157	3,330	16...	747	258	26...	1,550	120
7....	140	1,810	17...	1,230	218	27...	1,320	123
8....	128	1,130	18...	819	175	28...	1,080	385
9....	110	756	19...	664	226	29...	1,090	414
10...	98	534	20...	480	696	30...	1,000	1,780
						31...		2,750
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							1,280	854
RUNOFF, IN INCHES.....							5.34	3.68

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	4.68	438	6-23	2400	9.77	9,630	6-27	1200	5.90	1,530
6-21	1300	4.78	498					6-27	1400	5.86	1,480
6-21	1500	4.90	570					6-27	2400	5.69	1,290
6-21	1600	5.79	1,400	6-24	0100	9.65	9,290				
6-21	1700	7.31	3,530	6-24	1800	7.78	4,470				
6-21	2400	6.84	2,760	6-24	2400	7.34	3,590	6-28	0100	5.67	1,270
								6-28	2400	5.35	945
6-22	1000	6.67	2,510	6-25	0100	7.28	3,470				
6-22	2300	7.00	3,000	6-25	2400	6.25	1,950	6-29	0700	5.60	1,190
6-22	2400	7.19	3,310					6-29	0900	5.58	1,170
								6-29	2400	5.46	1,050
				6-26	0100	6.22	1,910				
6-23	0200	8.00	4,930	6-26	2400	5.65	1,250				
6-23	0900	11.93	16,300					6-30	2100	5.44	1,030
6-23	1100	12.25	17,400					6-30	2400	5.50	1,090
6-23	1600	11.64	15,300	6-27	0800	5.66	1,260				

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0200	12.34	848	6-27	0100	19.91	7,420	7-04	1300	13.64	1,850
6-20	0300	12.34	848	6-27	2400	19.23	6,810	7-04	1600	13.64	1,850
6-20	0500	11.98	618					7-04	2400	13.32	1,600
6-20	1500	11.98	618								
6-20	1600	11.79	510	6-28	0100	19.22	6,800				
6-20	2400	11.79	510	6-28	1200	18.13	5,820	7-05	0400	13.53	1,760
				6-28	2000	15.78	3,700	7-05	0800	15.04	3,040
				6-28	2200	14.43	2,490	7-05	1100	15.80	3,720
6-21	0100	12.39	883	6-28	2400	14.30	2,380	7-05	1700	19.52	7,070
6-21	0600	12.43	911					7-05	2400	19.72	7,250
6-21	0700	12.88	1,240								
6-21	2100	12.90	1,260	6-29	0300	14.28	2,360				
6-21	2400	15.18	3,160	6-29	0500	13.68	1,880	7-06	0300	19.72	7,250
				6-29	1000	13.93	2,080	7-06	2300	17.91	5,620
				6-29	1800	14.37	2,440	7-06	2400	17.18	4,960
6-22	0400	15.62	3,560	6-29	1900	14.37	2,440				
6-22	0600	14.39	2,450	6-29	2400	13.89	2,050				
6-22	1700	14.54	2,590					7-07	0100	16.43	4,290
6-22	1900	15.19	3,170					7-07	0600	14.84	2,860
6-22	2100	16.14	4,030	6-30	0100	13.89	2,050	7-07	1500	14.47	2,520
6-22	2200	16.18	4,060	6-30	0400	13.33	1,600	7-07	1900	13.91	2,070
6-22	2400	15.82	3,740	6-30	2400	13.47	1,720	7-07	2400	13.51	1,750
6-23	0300	16.91	4,720	7-01	2400	13.47	1,720	7-08	2000	13.45	1,700
6-23	0900	19.77	7,290					7-08	2100	12.83	1,200
6-23	1400	20.18	7,700					7-08	2400	12.81	1,190
6-23	2400	19.94	7,450	7-02	1300	13.47	1,720				
				7-02	1500	13.16	1,470				
				7-02	1700	13.16	1,470	7-09	0100	12.81	1,190
6-24	0400	20.45	8,000	7-02	1800	12.65	1,070	7-09	0200	12.41	897
6-24	2400	20.36	7,900	7-02	2400	12.63	1,050	7-09	2400	12.41	897
6-25	1100	20.44	7,980	7-03	0800	12.64	1,060	7-10	1200	12.41	897
6-25	2400	20.35	7,890	7-03	1200	12.91	1,270	7-10	1300	12.04	654
				7-03	1500	12.91	1,270	7-10	2400	11.97	612
				7-03	1800	13.28	1,560				
6-26	0200	20.34	7,870	7-03	2400	13.28	1,560				
6-26	2400	19.96	7,460					7-11	0800	11.97	612
								7-11	1000	11.45	343
				7-04	1000	13.27	1,560	7-11	2400	11.45	343

OHIO RIVER MAIN STEM

(870) 03201500 OHIO RIVER AT POINT PLEASANT, W. VA.

LOCATION.--Lat 38°50'25", long 82°08'30", Mason County, on left bank at Point Pleasant, 1,200 ft upstream from Kanawha River, and at mile 265.4 (measured downstream from Pittsburgh, Pa.). Records include flow of Kanawha River.

DRAINAGE AREA.--52,760 sq mi, approximately, includes that of Kanawha River.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 514.10 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation is a constant-fall rating defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 385,000 cfs 1400 hours June 26 (gage height, 40.95 ft). 1941 to May 1972: Discharge, 522,000 cfs Jan. 1, 1943; gage height, 55.00 ft Apr. 16, 1948.
Maximum stage since at least 1896, 62.8 ft Mar. 30, 1913. Flood of Jan. 27, 1937, reached a stage of 62.7 ft.

GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	24.24	28.79	11...	24.21	25.16	21...	24.75	24.52
2....	24.28	28.10	12...	24.32	25.26	22...	25.43	24.37
3....	24.16	27.69	13...	24.26	25.25	23...	26.55	24.35
4....	24.33	27.34	14...	24.28	24.69	24...	30.43	24.36
5....	24.19	27.00	15...	24.34	24.71	25...	36.95	24.17
6....	24.36	28.31	16...	24.46	24.62	26...	40.33	24.22
7....	24.22	29.19	17...	24.24	24.51	27...	40.55	24.20
8....	24.05	27.33	18...	24.33	24.28	28...	38.65	24.33
9....	24.29	26.68	19...	24.43	24.60	29...	34.80	24.42
10...	24.12	26.11	20...	24.33	24.33	30...	30.05	24.37
						31...		24.41
MONTHLY MEAN GAGE HEIGHT, IN FEET.....							27.13	25.54
MAXIMUM.....							40.55	29.19
MINIMUM.....							24.05	24.17

(868) 03195400 SUTTON LAKE AT SUTTON, W. VA.

LOCATION.--Lat 38°39'40", long 80°41'40", Braxton County, at Sutton Dam on Elk River, 1.0 mile upstream from Sutton, and at mile 101.1.

DRAINAGE AREA.--537 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph. Datum of gage is at mean sea level.

CONTENTS RECORD.--Contents computed from capacity table exhibit No. 12.

MAXIMUMS.--June-July 1972: Contents, 99,940 acre-ft 1600 hours June 24 (elevation, 944.84 ft).
1961 to May 1972: Contents, 111,300 acre-ft May 8, 1961 (elevation, 950.16 ft).

REMARKS.--Reservoir is formed by concrete gravity-type dam completed in 1961; closure of dam was made in April 1959 and storage above minimum-pool elevation began Feb. 26, 1961. Spillway equipped with 6 taintor gates 40 ft long by 31 ft high and 5 sluice gates 5.67 ft wide by 10 ft high. Total level-pool capacity at elevation 1,000 ft (flood-control pool elevation) is 265,300 acre-ft of which 261,200 acre-ft is controlled storage above elevation 850 ft (minimum-pool elevation). Reservoir is used for flood control.

COOPERATION.--Records furnished by Corps of Engineers.

ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, AT 2400 HOURS, 1972

DAY	JUNE		JULY		DAY	JUNE		JULY	
	ELEVATION	CONTENTS	ELEVATION	CONTENTS		ELEVATION	CONTENTS	ELEVATION	CONTENTS
1	925.29	64,580	925.17	64,400	16	925.15	64,370	925.25	64,520
2	925.52	64,930	925.18	64,420	17	925.18	64,420	925.25	64,520
3	925.55	64,980	925.28	64,570	18	925.20	64,450	925.16	64,390
4	925.50	64,900	925.18	64,420	19	925.14	64,350	925.32	64,630
5	925.33	64,640	926.37	66,250	20	925.12	64,320	925.08	64,260
6	925.19	64,430	925.05	64,220	21	925.15	64,370	925.30	64,600
7	925.14	64,350	925.17	64,400	22	925.09	64,280	925.22	64,480
8	925.19	64,430	925.11	64,310	23	942.35	94,840	925.22	64,480
9	925.21	64,460	925.27	64,550	24	944.48	99,200	925.22	64,480
10	925.21	64,460	925.17	64,400	25	940.73	91,590	925.17	64,400
11	925.20	64,450	925.30	64,600	26	934.82	80,390	925.20	64,450
12	925.19	64,430	925.01	64,160	27	929.38	71,050	925.28	64,570
13	925.25	64,520	925.07	64,250	28	924.85	63,910	925.15	64,370
14	925.56	65,000	925.17	64,400	29	924.96	64,080	925.15	64,370
15	925.30	64,600	925.16	64,390	30	925.05	64,220	925.16	64,390
					31			924.99	64,130
CHANGE IN CONTENTS							-410		-90

(869) 03195500 ELK RIVER AT SUTTON, W. VA.

LOCATION.--Lat 38°39'45", long 82°42'35", Braxton County, on left bank 150 ft downstream from highway bridge at Sutton, 0.5 mile upstream from Granny Creek, 0.9 mile downstream from Sutton Dam, 2.5 miles downstream from Wolf Creek and at mile 100.1.

DRAINAGE AREA.--543 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 800.00 ft above mean sea level. Prior to Oct. 1, 1960 at site 150 ft downstream at datum 8.03 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 28,000 cfs.

MAXIMUMS.--June-July 1972: Discharge, 8,000 cfs 0400 hours June 24 (gage height, 20.45 ft).
1918, 1940 to May 1972: Discharge, about 49,000 cfs Mar. 13, 1918 (gage height, 45.2 ft, present datum, from floodmarks).

REMARKS.--Flow regulated since 1960 by Sutton Lake (see sta 03195400).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	582	1,720	11...	142	440	21...	1,280	406
2...	263	1,500	12...	126	883	22...	2,960	430
3...	298	1,300	13...	112	466	23...	6,710	298
4...	307	1,640	14...	112	311	24...	7,900	220
5...	379	4,590	15...	1,190	311	25...	7,930	220
6...	347	6,650	16...	841	311	26...	7,760	129
7...	243	2,770	17...	1,400	311	27...	6,860	102
8...	135	1,630	18...	925	311	28...	5,390	499
9...	139	918	19...	848	191	29...	2,200	488
10...	142	764	20...	612	1,260	30...	1,650	2,000
						31...		5,110
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,990	1,230
RUNOFF,IN INCHES							4.09	2.61

(871) 03202020 OHIO RIVER AT POINT PLEASANT, W. VA.

(Auxiliary gage)

LOCATION.--Lat 38°41'30", long 82°11'05", Mason County, on left bank at Lock 26 (now demolished), 0.7 mile upstream from Gallipolis locks and dam, 10.0 miles downstream from Gallipolis, Ohio, 13.0 miles downstream from Kanawha River, 13.1 miles downstream from base gage, and at mile 278.5 (measured downstream from Pittsburgh, Pa.).

DRAINAGE AREA.--Not determined. At site 13.1 miles upstream, 52,760 sq mi, approximately, includes that of Kanawha River.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 505.22 ft above mean sea level, Sandy Hook datum.

MAXIMUMS.--June-July 1972: Gage height, 44.03 ft June 27.
1941 to May 1972: Gage height, not determined.

GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	32.95	32.80	11...	32.93	32.86	21...	32.98	32.94
2....	32.89	32.73	12...	33.03	33.12	22...	32.89	32.92
3....	32.80	32.78	13...	33.00	33.10	23...	32.78	32.97
4....	32.93	32.96	14...	32.94	32.76	24...	33.58	32.99
5....	32.90	32.84	15...	32.96	32.88	25...	39.11	32.90
6....	33.06	33.26	16...	33.07	32.93	26...	43.19	32.91
7....	32.96	33.25	17...	32.81	32.84	27...	43.74	32.91
8....	32.40	32.74	18...	32.82	32.68	28...	41.68	33.05
9....	32.97	33.01	19...	32.95	33.00	29...	38.05	33.05
10...	32.92	33.14	20...	32.89	32.78	30...	33.66	32.97
						31...		32.84
MONTHLY MEAN GAGE HEIGHT, IN FEET							34.33	32.93
MAXIMUM							43.74	33.26
MINIMUM							32.40	32.68

(872) 03205220 OHIO RIVER AT 24TH STREET, HUNTINGTON, W. VA.

LOCATION.--Lat 38°25'56", long 82°25'03", Cabell County, on left bank at foot of 24th Street, 1.0 mile downstream from Indian Guyan Creek, 1.5 miles downstream from Guyandotte River, and at mile 306.9 (measured downstream from Pittsburgh, Pa.).

DRAINAGE AREA.--Not determined. At site 4.7 miles downstream, 55,900 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 490.102 ft above mean sea level, Sandy Hook datum.

MAXIMUMS.--June-July 1972: Gage height, 45.26 ft 0500 hours June 27.
1935 to May 1972: Gage height, not determined.

GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	25.13	34.59	11...	25.14	27.91	21...	26.59	25.91
2....	25.53	33.56	12...	24.99	27.46	22...	28.21	25.62
3....	25.21	32.89	13...	25.36	27.64	23...	30.79	25.35
4....	25.33	32.10	14...	25.39	26.82	24...	35.41	25.50
5....	25.14	31.43	15...	25.35	26.54	25...	40.64	25.13
6....	25.16	32.93	16...	25.65	26.39	26...	44.18	25.43
7....	25.21	34.71	17...	25.60	26.17	27...	45.05	25.05
8....	25.04	32.37	18...	25.91	26.00	28...	43.43	24.98
9....	25.11	30.68	19...	25.57	26.06	29...	40.30	25.66
10...	25.04	29.46	20...	25.63	25.89	30...	36.29	25.52
						31...	-	26.24
MONTHLY MEAN GAGE HEIGHT, IN FEET							29.25	28.13
MAXIMUM							45.05	34.71
MINIMUM							24.99	24.98

(873) 03206000 OHIO RIVER AT HUNTINGTON, W. VA.

LOCATION.--Lat 38°24'48", long 82°30'02", Lawrence County, Ohio, on right bank at lock 28 at Sybene, Ohio, 0.1 mile upstream from Fourpole Creek, 3.0 miles downstream from Symmes Creek, and at mile 311.6 (measured downstream from Pittsburgh, Pa.).

DRAINAGE AREA.--55,900 sq mi, approximately.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 490.263 ft above mean sea level, Sandy Hook datum.

DISCHARGE RECORD.--Stage-discharge relation is a constant-fall rating defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 375,000 cfs 0400 hours June 27 (gage height, 43.09 ft). 1935 to May 1972: Discharge, 654,000 cfs Jan. 28, 1937; gage height, 69.45 ft Jan. 27, 1937.

GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	25.00	32.97	11...	25.01	27.15	21...	25.99	25.53
2....	25.28	32.04	12...	24.85	26.70	22...	27.11	25.33
3....	24.99	31.46	13...	25.22	26.88	23...	29.30	25.10
4....	25.09	30.76	14...	25.20	26.23	24...	33.10	25.27
5....	24.96	30.14	15...	25.12	26.00	25...	38.15	24.97
6....	24.99	31.26	16...	25.41	25.97	26...	41.80	25.23
7....	25.06	33.03	17...	25.30	25.72	27...	42.88	24.87
8....	24.84	31.08	18...	25.60	25.62	28...	41.44	24.83
9....	24.96	29.58	19...	25.26	25.65	29...	38.50	25.40
10...	24.90	28.46	20...	25.34	25.52	30...	34.64	25.27
						31...	-	25.80
MONTHLY MEAN GAGE HEIGHT, IN FEET							28.51	27.41
MAXIMUM							42.88	33.03
MINIMUM							24.84	24.83

STREAMS TRIBUTARY TO LAKE ERIE

(874) 04213320 CHAUTAUQUA CREEK AT BARCELONA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°20'15", long 79°36'04", Chautauqua County, on bridge on State Highway 5 at Barcelona, 0.3 mile upstream mouth, and about 0.8 mile downstream from Westfield sewage treatment outfall.

DRAINAGE AREA.--36.0 sq mi.

MAXIMUM.--June-July 1972: Discharge, 7,730 cfs June 23, from contracted-opening measurement.

(875) 04213490 SOUTH BRANCH CATTARAUCUS CREEK NEAR OTTO, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°21'54", long 78°48'06", Cattaraugus County, at highway bridge, 0.2 mile upstream from Mansfield Creek, and 1.7 miles northeast of Otto.

DRAINAGE AREA.--25.6 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,280 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 610 cfs and by contracted-opening measurement at 2,460 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,910 cfs June 23 (gage height, 7.34 ft). 1963 to May 1972: Discharge, 2,780 cfs Sept. 28, 1967 (gage height, 7.23 ft).

(876) 04213492 SOUTH BRANCH CATTARAUGUS CREEK NEAR CATTARAUGUS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°20'28", long 78°50'59", Cattaraugus County, at bridge on Skinner Hollow Road, and 1.3 miles northeast of Cattaraugus.

DRAINAGE AREA.--70 sq mi (estimated).

MAXIMUM.--June-July 1972: Discharge, 4,000 cfs June 25, from contracted-opening measurement.

(880) 04214410 HUNTER CREEK AT COLEGRAVE, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°44'11", long 78°32'55", Erie County, at bridge on Center Line Road, 0.3 mile east of Colegrave, and 3.5 miles upstream from mouth.

DRAINAGE AREA.--14.0 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,040 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 320 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,160 cfs June 23 (gage height, 5.81 ft). 1964 to May 1972: Discharge, 1,680 cfs Sept. 28, 1967 (gage height, 6.66 ft).

(881) 04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County, on left bank 300 ft downstream from bridge on Union Road in Gardenville, and 2 miles upstream from Cayuga Creek.

DRAINAGE AREA.--144 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 604.04 ft above mean sea level, unadjusted.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,300 cfs and by slope-area measurement at 7,000 cfs; extended to 13,000 cfs by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 12,000 cfs 1030 hours June 23 (gage height, 9.09 ft). 1939 to May 1972: Discharge, 13,000 cfs Mar. 1, 1955 (gage height, 9.43 ft), Mar. 7, 1956 (gage height, 9.42 ft); gage height, 11.90 ft Mar. 9, 1942 (ice jam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	98	234	11...	49	320	21...	52	49
2....	85	135	12...	48	133	22...	410	45
3....	72	148	13...	52	89	23...	6,790	43
4....	74	210	14...	54	72	24...	904	40
5....	68	128	15...	59	79	25...	533	36
6....	62	143	16...	151	133	26...	305	34
7....	56	120	17...	83	115	27...	193	34
8....	53	91	18...	59	72	28...	138	33
9....	52	108	19...	53	60	29...	118	32
10...	50	380	20...	49	54	30...	196	29
						31...		28
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							366	104
RUNOFF, IN INCHES							2.83	0.83

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.55	48	6-23	0200	5.84	4,410	6-25	0100	3.09	669
6-21	1600	1.59	53	6-23	0830	8.73	11,000	6-25	2400	2.62	405
6-21	2400	1.68	65	6-23	1030	9.09	12,000				
				6-23	1330	8.62	10,700				
				6-23	1730	5.63	4,010	6-26	0030	2.61	400
6-22	0230	1.77	85	6-23	2030	4.68	2,350	6-26	2400	2.26	234
6-22	0400	2.02	145	6-23	2400	4.16	1,620				
6-22	0830	2.20	203								
6-22	1300	2.30	242					6-27	0030	2.26	234
6-22	1930	2.86	522	6-24	0030	4.10	1,550	6-27	2400	2.06	163
6-22	2030	3.25	761	6-24	1030	3.38	866				
6-22	2200	3.47	920	6-24	2100	3.09	669				
6-22	2400	4.53	2,090	6-24	2400	3.10	675				

(882) 04215000 CAYUGA CREEK NEAR LANCASTER, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 42°53'24", long 78°38'45", Erie County, on right bank 150 ft upstream from low flat-crested dam in Como Lake Park, 700 ft downstream from bridge on Bowen Road, 800 ft downstream from Little Buffalo Creek, and 2 miles southeast of Lancaster.

DRAINAGE AREA.--94.9 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 672.80 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 6,200 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 8,800 cfs June 23 (gage height, 10.09 ft). 1939-68, 1971 to May 1972: Discharge, 8,750 cfs Jan. 22, 1959 (gage height, 10.09 ft); gage height, 12.58 ft Mar. 30, 1960 (ice jam).

(877) 04213500 CATTARAUGUS CREEK AT GOWANDA, N.Y.

LOCATION.--Lat 42°27'50", long 78°56'10", Erie County, on right bank 380 ft downstream from bridge on State Highways 39 and 62 at Gowanda, and 4.2 miles downstream from South Branch.

DRAINAGE AREA.--432 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30 minute intervals and water-stage recorder graph. Datum of gage is 738.85 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 23,000 cfs and by contracted-opening measurement at 26,200 cfs and slope-area measurement at 29,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 25,300 cfs 0500 hours June 23 (gage height, 12.17 ft).
1940 to May 1972: Discharge, 4,600 cfs Mar. 7, 1956 (gage height, 14.14 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	318	790	11...	193	774	21...	464	336
2...	280	591	12...	188	552	22...	4,770	309
3...	253	633	13...	185	462	23...	18,500	296
4...	280	675	14...	207	445	24...	4,900	276
5...	268	516	15...	258	577	25...	2,730	264
6...	229	661	16...	631	498	26...	1,710	257
7...	213	1,150	17...	322	474	27...	1,100	253
8...	201	668	18...	242	417	28...	790	253
9...	195	552	19...	210	428	29...	689	243
10...	198	1,090	20...	406	350	30...	897	232
						31...		225
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							1,390	492
RUNOFF, IN INCHES							3.60	1.31

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	2.30	365	6-23	0300	10.85	19,700	6-25	0030	5.22	3,620
6-21	1400	2.16	292	6-23	0500	12.17	25,300	6-25	2100	4.33	2,250
6-21	1700	2.41	412	6-23	1000	11.80	23,600	6-25	2400	4.23	2,120
6-21	1900	2.82	661	6-23	1300	11.30	21,500				
6-21	2100	2.96	774	6-23	1500	10.75	19,300				
6-21	2400	3.40	1,160	6-23	1700	9.65	15,300	6-26	0030	4.22	2,110
				6-23	1900	8.72	12,300	6-26	2400	3.56	1,320
				6-23	2100	7.90	9,820				
6-22	0300	4.14	2,000	6-23	2400	7.02	7,450				
6-22	0900	4.57	2,600					6-27	0030	3.55	1,310
6-22	1100	4.49	2,480					6-27	2400	3.14	906
6-22	1400	4.78	2,910	6-24	0400	6.31	5,780				
6-22	1600	5.47	4,070	6-24	0700	6.13	5,350				
6-22	1800	6.35	5,870	6-24	2400	5.24	3,650				
6-22	2000	8.05	10,200								
6-22	2200	9.33	13,800								
6-22	2400	10.10	16,800								

(878) 04214200 EIGHTEENMILE CREEK AT NORTH BOSTON, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 42°41'04", long 78°46'41", Erie County, on left bank 60 ft upstream from bridge on Zimmerman Road at North Boston, 1.4 miles downstream from mouth of Irish Gulf, and 2.8 miles southeast of Hamburg.

DRAINAGE AREA.--37.2 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 807.87 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,900 cfs and by contracted-opening measurement at 5,790 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,670 cfs June 23 (gage height, 11.05 ft).
1964-68, 1970 to May 1972: Discharge, 5,790 cfs Sept. 28, 1967 (gage height, 12.50 ft).

(879) 04214400 BUFFALO CREEK NEAR WALES HOLLOW, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 42°44'54", long 78°30'31", Erie County, on right bank 80 ft downstream from bridge on Marlor Road, 1.1 miles northwest of Wales Hollow, and 1.8 miles upstream from Hunter Creek.

DRAINAGE AREA.--80.1 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 896 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,000 cfs and by contracted-opening measurement at 9,260 cfs.

MAXIMUMS.--June-July 1972: Discharge, 8,830 cfs June 23 (gage height, 11.37 ft).
1964-68, 1970 to May 1972: Discharge, 9,260 cfs Sept. 28, 1967 (gage height, 11.61 ft).

(883) 04215500 CAZENOVIA CREEK AT EBENEZER, N.Y.

LOCATION.--Lat 42°49'47", long 78°46'33", Erie County, on right bank 30 ft upstream from bridge on Ridge Road in Ebenezer, 4.4 miles upstream from mouth, and 5 miles southeast of Buffalo.

DRAINAGE AREA.--134 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 604.86 ft above mean sea level, unadjusted. Prior to Apr. 5, 1955, at datum 2 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 7,700 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 12,300 cfs 0700 hours June 23 (gage height, 13.53 ft).
1941 to May 1972: Discharge, 13,500 cfs Mar. 1, 1955 (gage height, 15.82 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	UNE	JULY	DAY	JUNE	JULY
1...	105	275	11...	38	305	21...	53	38
2...	83	131	12...	38	128	22...	1,140	34
3...	70	116	13...	39	85	23...	6,650	32
4...	78	134	14...	41	74	24...	1,060	29
5...	61	95	15...	58	74	25...	602	26
6...	53	108	16...	199	113	26...	343	25
7...	49	100	17...	90	98	27...	211	23
8...	46	78	18...	60	58	28...	137	23
9...	43	81	19...	49	50	29...	113	23
10...	41	497	20...	44	43	30...	295	21
						31...		19
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							396	95
RUNOFF, IN INCHES							3.30	0.81

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.34	44	6-22	2400	8.90	5,640	6-25	2400	3.34	436
6-21	1430	2.34	44								
6-21	1530	2.49	70								
6-21	2115	2.50	72	6-23	0700	13.53	12,300	6-26	0015	3.34	436
6-21	2400	2.58	90	6-23	0830	13.53	12,300	6-26	2400	3.06	280
				6-23	1500	7.79	4,330				
				6-23	1945	5.46	2,040				
6-22	0100	2.60	110	6-23	2400	4.93	1,600	6-27	0015	3.05	265
6-22	0300	2.60	110					6-27	1115	2.94	211
6-22	0400	2.83	187					6-27	2400	2.85	175
6-22	0530	2.89	211	6-24	0015	4.90	1,580				
6-22	0545	2.98	255	6-24	1700	3.91	847				
6-22	0615	3.27	412	6-24	2400	3.87	819				
6-22	1530	3.43	511								
6-22	1915	4.40	1,190								
6-22	2100	5.67	2,230	6-25	0030	3.86	791				

STREAMS TRIBUTARY TO LAKE ONTARIO

(884) 04220360 SPRING MILLS CREEK AT SPRING MILLS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°00'22", long 77°45'49", Allegany County, 0.35 mile upstream from Cobb Road at Spring Mills, and 2.2 miles south of Whitesville.

DRAINAGE AREA.--5.01 sq mi.

MAXIMUM.--June-July 1972: Discharge, 595 cfs June 22, from slope-area measurement.

(885) 0422037A CRYDER CREEK AT GENESEE, PA.
(Miscellaneous site)

LOCATION.--Lat 41°59'48", long 77°51'55", Potter County, at bridge on New York State Highway 248A extension, 600 ft south of New York State line, 0.25 mile upstream from mouth, and 0.25 mile northwest of Genesee.

DRAINAGE AREA.--50.0 sq mi.

MAXIMUM.--June-July 1972: Discharge, 6,610 cfs June 22, from contracted-opening measurement.

(886) 04220384 OREBED CREEK NEAR STANNARDS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°01'37", long 77°56'15", Allegany County, at upstream side of bridge on Graves Road, 0.7 mile upstream from mouth, and 4.2 miles southwest of Stannards.

DRAINAGE AREA.--4.07 sq mi.

MAXIMUM.--June-July 1972: Discharge, 965 cfs June 22, from slope-area measurement.

(887) 04220412 GENESEE RIVER AT STANNARDS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°04'34", long 77°55'30", Allegany County, at highway bridge 0.7 mile downstream from Ford Brook, and 0.7 mile south of Stannards.

DRAINAGE AREA.--179 sq mi.

MAXIMUM.--June-July 1972: Discharge, 20,200 cfs June 22, from contracted-opening measurement and computation of flow over road and over railroad.

(888) 04220418 FULLMER VALLEY CREEK TRIBUTARY NEAR ANDOVER, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°07'09", long 77°49'04", Allegany County, at culvert on Trapping Brook Road, 0.1 mile west of Fullmer Valley Road, 1.3 miles upstream from mouth, and 2.2 miles southwest of Andover.

DRAINAGE AREA.--0.72 sq mi.

MAXIMUM.--June-July 1972: Discharge, 173 cfs June 22, from computation of flow through culvert.

(889) 04220420 FULLMER VALLEY CREEK AT HALLSPORT, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°04'57", long 77°51'52", Allegany County, at bridge on Fullmer Valley Road, 0.2 mile upstream from mouth, and 0.7 mile northwest of Hallsport.

DRAINAGE AREA.--11.8 sq mi.

MAXIMUM.--June-July 1972: Discharge, 3,200 cfs June 22, from computation of flow through culvert and flow over road.

(890) 04220422 CHENUNDA CREEK TRIBUTARY NEAR STANNARDS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°04'31", long 77°52'43", Allegany County, at culvert on State Highway 248, 0.2 mile upstream Chenunda Creek, 0.3 mile east of Covel Road, and 2.1 miles southeast of Stannards.

DRAINAGE AREA.--0.04 sq mi.

MAXIMUM.--June-July 1972: Discharge, 27 cfs June 21, from computation of flow through culvert.

(891) 04220431 CHENUNDA CREEK AT STANNARDS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°05'16", long 77°55'00", Allegany County, 1,500 ft upstream from State Highway 19, at Stannards.

DRAINAGE AREA.--30.6 sq mi.

MAXIMUM.--June-July 1972: Discharge, 9,200 cfs June 22, from slope-area measurement.

(892) 04220450 DYKE CREEK NEAR WEST GREENWOOD, N.Y.
(Crest-stage station, discontinued 1969)

LOCATION.--Lat 42°08'41", long 77°44'07", Steuben County, at culvert on town road 300 ft north of State Highway 17, 0.1 mile upstream from unnamed tributary, and 1.2 miles southwest of West Greenwood.

DRAINAGE AREA.--1.64 sq mi.

MAXIMUMS.--June-July 1972: Gage height, 8.5 ft June 22, from floodmarks.
1964-1969, 1971 to May 1972: Gage height, 7.47 ft Mar. 15, 1971.

(899) 04220500 DYKE CREEK AT WELLSVILLE, N.Y.
(Gaging station, discontinued 1960)

LOCATION.--Lat 42°07'14", long 77°56'13", Allegany County, at bridge on Miller Street in Wellsville, 0.6 mile upstream from mouth, and 1.2 miles downstream from Trapping Brook.

DRAINAGE AREA.--71.4 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 12,000 cfs June 23, from contracted-opening measurement and computation of flow over railroad.
1956-1960, 1964-1967, 1969: Discharge, 5,230 cfs June 15, 1960 (elevation, 1,508.28 ft above mean sea level).

(900) 04221500 GENESEE RIVER AT SCIO, N.Y.

LOCATION.--Lat 42°09'50", long 77°58'50", Allegany County, on left bank 0.4 mile upstream from Vandermark Creek and 0.5 mile south of Scio.

DRAINAGE AREA.--308 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except after 1030 hours June 13 (gage destroyed by flood). Record reconstructed on the basis of 0700 hours daily telemark readings June 14-21, floodmarks, time of peak, and by comparison by stage and discharge hydrograph with records for upstream and downstream stations. Datum of gage is 1,438.83 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs and by contracted-opening measurement of peak flow at Wellsville adjusted for intervening area at 41,000 cfs.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)
June-July 1972:		
June 21, about 1000 hours	29,000	a12.3
June 23, about 0300 hours	41,000	b14.12
1917 to May 1972:		
Nov. 25, 1950	23,300	11.22

a About
b From floodmarks

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	305	820	11...	116	410	21...	19,000	150
2....	198	1,000	12...	103	370	22...	16,000	100
3....	176	800	13...	100	280	23...	26,000	58
4....	178	880	14...	96	230	24...	6,400	52
5....	181	620	15...	200	270	25...	3,300	32
6....	145	580	16...	540	300	26...	1,700	66
7....	133	500	17...	210	230	27...	1,300	96
8....	118	470	18...	140	180	28...	1,000	58
9....	114	420	19...	140	130	29...	940	74
10...	143	520	20...	250	130	30...	1,200	45
						31...		80
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							2,680	321
RUNOFF, IN INCHES							9.71	1.20

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	1.30	140	6-22	0900	8.60	6,700	6-24	1200	8.40	6,300
6-20	1800	1.20	125	6-22	1100	9.10	8,200	6-24	1600	7.90	5,300
6-20	2000	1.30	140	6-22	1300	9.70	11,000	6-24	2400	7.30	4,400
6-20	2100	1.50	180	6-22	1500	10.40	16,000				
6-20	2200	1.80	260	6-22	1700	11.20	21,000				
6-20	2300	3.40	1,000	6-22	1900	12.00	27,000	6-25	1200	6.70	3,900
6-20	2400	7.30	4,400	6-22	2100	12.80	32,000	6-25	1400	6.30	3,100
				6-22	2400	13.70	39,000	6-25	1800	5.80	2,600
								6-25	2200	5.30	2,200
6-21	0200	8.80	7,300					6-25	2400	5.10	2,100
6-21	0400	9.80	12,000	6-23	0300	14.12	41,000				
6-21	0600	10.80	18,000	6-23	0600	13.60	38,000				
6-21	0800	11.90	26,000	6-23	0800	12.60	31,000	6-26	0800	4.70	1,800
6-21	1000	12.30	29,000	6-23	1100	11.70	25,000	6-26	1200	4.50	1,700
6-21	1600	11.60	24,000	6-23	1300	11.30	22,000	6-26	2400	4.10	1,400
6-21	2000	10.80	18,000	6-23	1400	11.10	20,000				
6-21	2200	10.20	14,000	6-23	1800	10.50	16,000				
6-21	2400	9.50	9,800	6-23	2400	9.80	12,000	6-27	1800	3.90	1,300
								6-27	2400	3.80	1,200
6-22	0400	8.50	6,500	6-24	0400	9.40	9,300				
6-22	0700	8.30	6,100	6-24	0800	8.90	7,600				

(893) 04220455 QUIG HOLLOW BROOK NEAR ANDOVER, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°08'45", long 77°45'25", Allegany County, 40 ft downstream from bridge on town road, 0.2 mile south of State Highway 17, and 1.5 miles east of Andover.

DRAINAGE AREA.--4.24 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,820 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 57 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge about, 1,100 cfs June 23 (gage height, 5.11 ft).
1964 to May 1972: Discharge, 254 cfs Mar. 15, 1971 (gage height, 3.45 ft) ; gage height, 4.15 ft Mar. 5, 1964.

(894) 04220460 EAST VALLEY CREEK TRIBUTARY NEAR ANDOVER, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°11'22", long 77°46'02", Allegany County, on downstream abutment of culvert on town road, 0.2 mile upstream from mouth, and 1.9 miles northeast of Andover.

DRAINAGE AREA.--1.59 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,830 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current meter measurements below 40 cfs and by slope-area measurement.

MAXIMUMS.--June-July 1972: Discharge, 700 cfs June 22 (gage height, 3.04 ft).
1964 to 1968: Discharge, 920 cfs Feb. 13, 1966 (gage height, 3.38 ft).

(895) 04220465 RAILROAD BROOK NEAR ALFRED, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°12'51", long 77°47'47", Allegany County, at bridge on town road, 0.3 mile west of State Highway 21, 2.0 miles south of Alfred, and 4.9 miles upstream from mouth.

DRAINAGE AREA.--1.05 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,820 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by discharge measurements below 30 cfs and by slope-area measurement at 670 cfs.

MAXIMUMS.--June-July 1972: Discharge, 670 cfs June 22 (gage height, 4.75 ft, estimated).
1964-67, 1971 to May 1972: Discharge, 115 cfs Mar. 15, 1971 (gage height, 2.05 ft).

(896) 04220472 INDIAN CREEK NEAR ANDOVER, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°08'16", long 77°48'18", Allegany County, along Indian Creek Road about 300 ft upstream from Joe Lynch Road, and 1.3 miles southwest of Andover.

DRAINAGE AREA.--1.07 sq mi.

MAXIMUM.--June-July 1972: Discharge, 929 cfs June 23, from slope-area measurement.

(897) 04220478 ELM VALLEY CREEK NEAR ELM VALLEY, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°11'34", long 77°50'59", Allegany County, just south of Andover town line, 0.1 mile west of Elm Valley Road, about 0.3 mile north from former crest-stage station, and 3.0 miles north of Elm Valley.

DRAINAGE AREA.--4.18 sq mi.

MAXIMUM.--June-July 1972: Discharge, 1,840 cfs June 23, from slope-area measurement.

(898) 04220492 TRAPPING BROOK NEAR WELLSVILLE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°07'02", long 77°52'58", Allegany County, at culvert on Trapping Brook Road, 3.2 miles east of Wellsville.

DRAINAGE AREA.--3.19 sq mi.

MAXIMUM.--June-July 1972: Discharge, 630 cfs June 23, from computation of flow through culvert.

(901) 04221510 VANDERMARK CREEK NEAR SCIO, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°10'02", long 77°57'29", long 77°57'29", Allegany County, at bridge on Vandermark Road, 1.1 miles east of Scio, and 1.3 miles upstream from mouth.

DRAINAGE AREA.--22.0 sq mi.

MAXIMUM.--June-July 1972: Discharge, 8,670 cfs June 23, from contracted-opening measurement and computation of flow over road.

(902) 04221518 SNOWBALL HOLLOW CREEK NEAR SCIO, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°08'55", long 78°00'33", Allegany County, at bridge on Knight Creek Road, 0.2 mile upstream from mouth, and 1.9 miles southwest of Scio.

DRAINAGE AREA.--3.47 sq mi.

MAXIMUM.--June-July 1972: Discharge, 580 cfs June 21, from computation of flow through culvert. Water-surface elevation, 1,552.29 ft above mean sea level.

(903) 04221554 NORTH BRANCH PHILLIPS CREEK AT WITHEY, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°14'44", long 77°59'17', Allegany County, at bridge on State Highway 244 at Withey, and 0.1 mile upstream from mouth.

DRAINAGE AREA.--7.16 sq mi.

MAXIMUM.--June-July 1972: Discharge, 1,730 cfs June 22, from contracted-opening measurement.

(904) 04221555 PHILLIPS CREEK AT WITHEY, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°14'38", long 77°59'24", Allegany County, at bridge on county road 0.1 mile downstream from North Branch Phillips Creek, and 0.2 mile southwest of Withey.

DRAINAGE AREA.--24.1 sq mi.

MAXIMUM.--June-July 1972: Discharge, 5,910 cfs June 22, from contracted-opening measurement. Water-surface elevation, 1,532.66 ft above mean sea level.

(905) 04221561 FEATHERS CREEK NEAR BELMONT, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°14'48", long 78°00'51", Allegany County, along Feathers Creek Road 0.4 mile northeast of State Highway 244, and 1.9 miles northeast of Belmont.

DRAINAGE AREA.--3.69 sq mi.

MAXIMUM.--June-July 1972: Discharge, 931 cfs June 23, from slope-area measurement.

(906) 04221600 VAN CAMPEN CREEK AT FRIENDSHIP, N.Y.
(Gaging station, discontinued 1968)

LOCATION.--Lat 42°12'23", long 78°07'44", Allegany County, on left bank 210 ft downstream from bridge on Moss Street in Friendship.

DRAINAGE AREA.--45.8 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 9,400 cfs June 22 (elevation, 1,485.60 ft above mean sea level from floodmark), from rating extended above 5,000 cfs on basis of slope-area measurement at 13,400 cfs.
1964 to 1968: Discharge, 13,400 cfs Sept. 28, 1967 (elevation, 1,487.78 ft above mean sea level), from slope-area measurement.

(907) 04221640 BLACK CREEK NEAR BIRDSALL, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°22'21", long 77°55'21", Allegany County, at bridge on Hamilton Road 1.3 miles south of Birdsall.

DRAINAGE AREA.--19.4 sq mi.

MAXIMUM.--June-July 1972: Discharge, 1,860 cfs June 23, from contracted-opening measurement.

(908) 04221700 ANGELICA CREEK NEAR ANGELICA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°18'38", long 78°02'16", Allegany County, at bridge on State Highway 408 1.2 miles west of Angelica.

DRAINAGE AREA.--61.3 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 6,120 cfs June 22, from contracted-opening and slope-area measurements.
Flood of July 18, 1942 reached a peak of 14,000 cfs at upstream site with drainage area of 61.0 sq mi.

(909) 04221710 BAKER CREEK NEAR ANGELICA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°18'31", long 78°02'35", Allegany County, at bridge on State Highway 408, 0.3 mile upstream from mouth, and 1.3 miles west of Angelica.

DRAINAGE AREA.--22.4 sq mi.

MAXIMUM.--June-July 1972: Discharge, 3,050 cfs June 22, from contracted-opening and slope-area measurements.

(910) 04221720 ANGELICA CREEK AT TRANSIT BRIDGE, N.Y.
(Gaging station, discontinued 1968)

LOCATION.--Lat 42°17'43", long 78°03'28", Allegany County, on right bank 75 ft downstream from bridge on County Highway 43, 0.4 mile upstream from mouth, and 0.9 mile east of Transit Bridge.

DRAINAGE AREA.--86.5 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 8,400 cfs June 22, estimated from travel-time adjustment of measured discharges at upstream sites.
1964 to 1968: Discharge, 9,560 cfs Sept. 28, 1967.

(911) 04222510 SIXTOWN CREEK AT HIGGINS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°27'56", long 78°11'49", Allegany County, at bridge on Higgins Road, 0.3 mile southeast from junction of Higgins and Stickles Road at Higgins.

DRAINAGE AREA.--17.8 sq mi.

MAXIMUM.--June-July 1972: Discharge, 2,460 cfs June 22, from slope-area measurement.

(912) 04222600 WISCOY CREEK AT BLISS, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°34'59", long 78°14'16", Wyoming County, at bridge on county road, 0.1 mile north of State Highway 39, and 0.6 mile east of Bliss.

DRAINAGE AREA.--21.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,690 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 62 cfs and by contracted-opening measurement at 1,850 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,850 cfs June 23 (gage height, 4.06 ft).
1962-65, 1967 to May 1972: Discharge, 1,050 cfs Sept. 28, 1967 (gage height, 3.21 ft); gage height, 3.38 ft Mar. 5, 1964.

(914) 04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, N.Y.

LOCATION.--Lat 42°44'00", long 77°54'40", Livingston County, at Mount Morris Dam on Genesee River, 2.0 miles northwest of Mount Morris, 5 miles upstream from Canaseraga Creek, and 40 miles upstream from mouth.

DRAINAGE AREA.--1,075 sq mi.

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity table dated Jan. 28, 1955 (revised), based on capacities in acre-ft supplied by the Corps of Engineers.

MAXIMUMS.--June-July 1972: Contents, 322,600 acre-ft 1900 hours June 25 (elevation, 755.46 ft).
1952 to May 1972: Contents, 216,000 acre-ft Apr. 5, 1960 (elevation, 719.40 ft).

REMARKS.--Lake is formed by a concrete gravity-type dam with overflow spillway, completed by Corps of Engineers in 1951 for flood control; first used for flood regulation on Nov. 24, 1951. Usable capacity, 336,800 acre-ft between elevation 585.0 ft (sill of conduits) and 760.0 ft (crest of spillway). Dead storage, 609 acre-ft. Discharge is controlled by the operation of nine gates.

COOPERATION.--Gage-height recorder chart and data for development of capacity table furnished by Corps of Engineers.

DAILY ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, 1972

	JUNE		JULY			JUNE		JULY	
DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS	DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS
1...	595.44	3,580	743.06	283,600	16...	602.04	6,660	684.87	130,700
2...	594.64	3,270	740.67	276,300	17...	605.73	8,760	680.66	121,300
3...	594.97	3,400	737.26	266,200	18...	605.77	8,790	675.97	110,900
4...	597.45	4,420	736.92	265,200	19...	604.22	7,860	670.73	99,830
5...	598.79	5,040	734.38	257,800	20...	603.11	7,260	665.17	88,440
6...	598.61	4,950	730.50	246,600	21...	609.11	10,980	658.47	75,290
7...	597.88	4,610	726.59	235,700	22...	669.88	98,050	652.41	64,100
8...	597.96	4,640	722.77	225,200	23...	721.10	220,600	646.25	53,420
9...	597.83	4,590	718.79	214,400	24...	750.53	306,800	642.57	47,610
10...	597.69	4,530	714.38	202,700	25...	755.13	321,500	639.20	42,580
11...	598.20	4,760	710.35	192,300	26...	754.70	320,100	635.68	37,680
12...	598.87	5,090	706.04	181,300	27...	752.45	312,800	632.00	32,900
13...	599.16	5,220	701.15	169,200	28...	749.32	303,000	627.97	28,160
14...	599.50	5,380	695.78	156,100	29...	745.75	291,800	623.59	23,390
15...	599.94	5,580	690.37	143,400	30...	743.35	284,400	618.59	18,530
					31...			612.38	13,370
CHANGE IN CONTENTS.....							+282,160		-271,030

(915) 04224350 EWART CREEK AT SWAIN, N.Y.
(Crest-stage station, discontinued 1965)

LOCATION.--Lat 42°28'40", long 77°51'18", Allegany County, at bridge on town road at Swain, 0.3 mile upstream from mouth.

DRAINAGE AREA.--3.90 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 700 cfs June 22 (gage height, 3.75 ft), from critical-velocity estimate.
1964 to 1965: Discharge, 720 cfs Mar. 5, 1964 (gage height, 3.80 ft) based on estimate of June 1972 peak.

(916) 04224650 CANASERAGA CREEK NEAR CANASERAGA, N.Y.
(Gaging station, discontinued 1968)

LOCATION.--Lat 42°28'18", long 77°45'24", Allegany County, on right bank 150 ft upstream from bridge on road to village disposal area, 1.2 miles northeast of Canaseraga.

DRAINAGE AREA.--58.2 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 12,400 cfs June 22, from slope-area measurement.
1964 to 1968: Discharge, 5,480 cfs Sept. 28, 1967.

(913) 04223000 GENESEE RIVER AT PORTAGEVILLE, N.Y.

LOCATION.--Lat 42°34'10", long 78°02'45", Wyoming County, on left bank at Portageville, 300 ft downstream from small tributary, 350 ft downstream from abandoned bridge piers, and 0.7 mile upstream from Upper Falls.

DRAINAGE AREA.--981 sq mi.

GAGE-HEIGHT RECORD.--No record except once-daily telemark gage readings June 1-21 (station destroyed by flood) and once-daily wire-weight gage readings July 12-31. Gage height estimated June 21 to July 11 on basis of inflow to Mount Morris Lake adjusted for intervening-area inflow. Datum of gage is 1,082.60 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 25,000 cfs and by slope-area measurement at 32,000 cfs, and contracted-opening measurements at 71,000 cfs 0.4 mile upstream, and at 98,200 cfs 0.7 mile downstream, for the current flood.

MAXIMUMS.--Given in the following table.

Date June-July 1972:	Discharge (cfs)	Gage height (feet)
June 22, about 0300 hours	85,000	a33.8
June 23, about 1200 hours	90,000	b35.25
1909 to May 1972: Sept. 29, 1967	47,300	b22.94

a About
b From floodmark

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,800	3,000	11...	350	1,600	21...	16,000	580
2....	1,000	1,800	12...	320	1,200	22...	60,000	360
3....	720	2,100	13...	310	1,000	23...	72,000	230
4....	600	3,500	14...	320	1,100	24...	21,000	180
5....	940	1,700	15...	390	760	25...	9,400	150
6....	560	1,500	16...	2,300	1,600	26...	5,100	140
7....	410	1,700	17...	1,200	1,900	27...	3,300	280
8....	400	1,800	18...	640	700	28...	2,400	160
9....	360	1,400	19...	1,300	1,800	29...	1,900	150
10...	350	1,600	20...	1,200	380	30...	3,600	160
						31...		98
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							7,010	1,120
RUNOFF, IN INCHES							7.97	1.31

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	4.30	700	6-22	0300	33.80	85,000	6-23	1600	32.90	81,000
6-21	0700	4.29	722	6-22	0700	30.20	72,000	6-23	1900	30.20	72,000
6-21	0900	4.40	800	6-22	1100	26.60	59,000	6-23	2100	27.90	64,000
6-21	1100	5.10	1,500	6-22	1300	24.90	54,000	6-23	2300	24.50	52,000
6-21	1300	8.54	7,270	6-22	1600	23.30	48,000	6-23	2400	22.70	47,000
6-21	1500	12.70	18,000	6-22	2200	21.60	43,000				
6-21	1600	14.00	21,000	6-22	2400	23.30	48,000				
6-21	1800	15.10	24,000					6-24	0200	19.50	36,000
6-21	2000	17.50	31,000					6-24	0600	15.90	26,000
6-21	2200	23.30	48,000	6-23	0200	26.00	57,000	6-24	0800	13.40	19,000
6-21	2400	30.00	71,000	6-23	0300	27.40	62,000	6-24	0900	12.60	17,000
				6-23	0700	31.80	77,000	6-24	1500	11.90	16,000
				6-23	1000	33.20	83,000	6-24	1900	11.80	15,000
6-22	0100	32.40	80,000	6-23	1200	35.25	90,000	6-24	2300	10.80	13,000
								6-24	2400	10.50	12,000

(917) 04224700 SUGAR CREEK NEAR OSSIAN, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°30'52", long 77°48'12", Livingston County, on right bank 300 ft downstream from bridge on Linzy Road, 1.3 miles southwest of Ossian, and 5.1 miles upstream from mouth.

DRAINAGE AREA.--9.83 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,400 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 170 cfs and by slope-area measurement at 1,380 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,380 cfs June 23 (gage height, 6.85 ft).
1964 to May 1972: Discharge, 948 cfs Sept. 28, 1967 (gage height, 5.92 ft); gage height, 6.45 ft Mar. 5, 1964.

(918) 04224800 STONY BROOK AT SOUTH DANSVILLE, N.Y.
(Crest-stage station, discontinued 1969)

LOCATION.--Lat 42°28'15", long 77°39'08", Steuben County, at culvert on Day Road at South Dansville.

DRAINAGE AREA.--2.23 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 490 cfs June 22 (gage height, 3.46 ft), from computation of flow through culvert.
1964 to 1969: Gage height, 2.64 ft Jan. 30, 1968.

(919) 04224810 SPONABLE CREEK NEAR SOUTH DANSVILLE, N.Y.
(Crest-stage station, discontinued 1967)

LOCATION.--Lat 42°30'04", long 77°37'58", Steuben County, at culvert on town road 2.5 miles north of South Dansville, and 2.7 miles upstream from mouth.

DRAINAGE AREA.--0.69 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 121 cfs June 22 (gage height, 3.03 ft), from computation of flow through culvert.
1964 to 1967: Gage height, 2.04 ft Sept. 28, 1967.

(920) 04224900 MILL CREEK AT PATCHINVILLE, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°31'13", long 77°35'06", Steuben County, at bridge on Ellinger Road, 0.1 mile east of State Highway 21, 0.8 mile south of Patchinville, 3.3 miles south of Wayland, and 9.1 miles upstream from mouth.

DRAINAGE AREA.--5.00 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,440 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 50 cfs and by computation of flow through culvert and over road at 1,350 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,350 cfs June 23 (gage height, 3.01 ft).
1964 to May 1972: Discharge, 626 cfs Sept. 28, 1967 (gage height, 2.58 ft); gage height, 3.79 ft Mar. 5, 1964.

(921) 04224965 LITTLE MILL CREEK NEAR DANSVILLE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°34'18", long 77°38'58", Steuben County, at overflow dam 1.0 mile north of Whiteman Road, 2.5 miles northeast of Dansville.

DRAINAGE AREA.--7.54 sq mi.

MAXIMUM.--June-July 1972: Discharge, 835 cfs June 22, from computation of flow over dam and flow through pipe.

(922) 04224970 LITTLE MILL CREEK TRIBUTARY NEAR DANSVILLE, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°34'30", long 77°39'21", Steuben County, at culvert on Madalie Road 2.3 miles northeast of Dansville.

DRAINAGE AREA.--1.42 sq mi.

MAXIMUM.--June-July 1972: Discharge, 113 cfs June 22, from computation of flow through culvert.

(923) 04225000 CANASERAGA CREEK NEAR DANSVILLE, N.Y.

LOCATION.--Lat 42°33'36", long 77°42'57", Livingston County, on left bank 200 ft upstream from bridge on State Highway 245 (Ossian Street), 0.5 mile downstream from Mill Creek, and 1 mile west of Dansville.

DRAINAGE AREA.--153 sq mi. October 1917 to September 1919, October 1938 to September 1940, 155 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0500 hours June 10 to 1500 hours June 21 when record was reconstructed on the basis of comparison by stage and discharge hydrographs with records for stations on nearby streams. Datum of gage is 640.00 ft above mean sea level (levels by New York State Conservation Commission).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,700 cfs and by slope-area measurement at 4,020 cfs and contracted-opening measurement at 9,600 cfs.

MAXIMUMS.--June-July 1972: Discharge, 9,600 cfs 0245 hours June 23 (gage height, 14.85 ft, from floodmarks).
1911-12, 1916-68, 1971 to May 1972: Discharge, 9,110 cfs July 23, 1940 at site 0.9 mile downstream at different datum. Maximum gage height at present site, 13.68 ft Mar. 7, 1956.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	315	481	11...	86	213	21...	3,000	373
2....	229	373	12...	82	213	22...	4,720	213
3....	184	716	13...	78	250	23...	4,560	181
4....	170	646	14...	110	268	24...	1,600	161
5....	148	443	15...	440	272	25...	1,260	151
6....	120	443	16...	200	390	26...	810	136
7....	107	340	17...	140	281	27...	562	117
8....	96	295	18...	120	209	28...	413	110
9....	91	237	19...	110	188	29...	335	103
10...	91	254	20...	110	357	30...	604	94
						31...		89
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							696	277
RUNOFF,IN INCHES.....							5.08	2.09

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0400	5.9	170	6-23	0630	13.54	7,560				
6-21	0600	8.7	2,200	6-23	0815	11.36	4,850	6-25	0130	7.89	1,520
6-21	1445	10.44	3,910	6-23	1200	8.94	2,450	6-25	2400	7.27	1,030
6-21	1600	11.46	4,960	6-23	1400	9.05	2,550				
6-21	2245	10.32	3,790	6-23	1700	9.08	2,570				
6-21	2400	10.40	3,870	6-23	2015	8.33	1,900	6-26	0030	7.24	954
				6-23	2100	8.83	2,350	6-26	1945	6.89	681
				6-23	2115	8.38	1,940	6-26	2230	6.97	738
6-22	0245	11.00	4,470	6-23	2215	8.77	2,290	6-26	2400	6.95	723
6-22	1030	10.29	3,760	6-23	2400	8.61	2,150				
6-22	1830	11.50	5,000								
6-22	2100	12.53	6,180					6-27	0015	6.86	625
6-22	2400	14.08	8,370	6-24	0315	8.59	2,130	6-27	0030	6.85	618
				6-24	0445	8.35	1,920	6-27	2400	6.66	488
				6-24	0715	7.70	1,370				
6-23	0245	14.85	9,600	6-24	2400	7.93	1,550				
6-23	0445	14.20	8,560								

(924) 04227500 GENESEE RIVER NEAR MOUNT MORRIS, N.Y.

LOCATION.--Lat 42°46'00", long 77°50'21", Livingston County, on right bank at Jones Bridge, 0.8 mile downstream from Canaseraga Creek and 2.8 miles northeast of Mount Morris.

DRAINAGE AREA.--1,417 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 540.00 ft above mean sea level (levels by New York State Conservation Commission).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 17,800 cfs 0415 hours June 24 (gage height, 24.50 ft).
1904-05, 1909-13, 1916 to May 1972: Discharge, 55,100 cfs May 17, 1916 (gage height, 25.44 ft).

REMARKS.--Since November 1951, flows regulated by Mount Morris Lake (see station 04244000).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,850	8,020	11...	627	8,710	21...	1,200	7,740
2....	2,100	7,800	12...	531	8,360	22...	3,870	7,700
3....	1,590	9,530	13...	540	8,430	23...	11,500	7,180
4....	1,120	6,970	14...	546	8,660	24...	15,400	4,550
5....	985	7,730	15...	549	8,720	25...	16,200	3,500
6....	1,010	9,240	16...	711	8,630	26...	14,900	3,370
7....	978	9,690	17...	1,240	8,420	27...	13,700	3,250
8....	792	9,430	18...	1,230	8,040	28...	12,500	3,100
9....	720	9,060	19...	1,170	7,650	29...	10,700	2,940
10...	675	8,840	20...	1,150	7,390	30...	9,910	2,770
						31...		2,580
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							4,330	7,030
RUNOFF,IN INCHES.....							2.90	4.86

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	17.32	1,120	6-23	0500	33.92	10,400	6-25	2400	40.56	16,100
6-21	1945	17.78	1,280	6-23	0800	35.62	11,300				
6-21	2400	19.12	1,750	6-23	1200	36.79	12,100				
				6-23	2400	38.41	13,900	6-26	2400	40.03	14,600
6-22	1345	24.16	4,120								
6-22	2345	29.38	7,640	6-24	2400	40.56	16,400	6-27	2400	38.96	13,100
6-23	0200	31.19	9,120	6-25	0430	40.67	16,500				

(927) 04228845 HONEOYE LAKE NEAR HONEOYE, N.Y.

LOCATION.--Lat 42°45'44", long 77°30'21", Ontario County, on east shore of Honeoye Lake, at Trident Marina on East Shore Road, 1.9 miles south of U.S. Highway 20A, and 2.0 miles southeast of Honeoye.

DRAINAGE AREA.--41.1 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 0300 hours June 23 to 1000 hours June 27. Gage-height record was reconstructed on the basis of observer's staff-gage readings. Datum of gage is 800.00 ft above mean sea level.

MAXIMUMS.--June-July 1972: Gage height, 6.91 ft about 2400 hours June 23.
1965 to May 1972: Gage height, 4.72 ft Apr. 15, 1971.

REMARKS.--Area of water surface, 2.71 sq mi.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3.49	5.28	11...	3.08	4.17	21...	3.51	3.49
2....	3.46	5.12	12...	3.04	4.07	22...	4.56	3.42
3....	3.42	5.03	13...	3.01	3.98	23...	6.39	3.36
4....	3.39	4.97	17...	3.02	3.91	24...	6.49	3.29
5....	3.34	4.84	15...	3.04	3.86	25...	6.25	3.24
6....	3.30	4.73	16...	3.24	3.81	26...	6.09	3.19
7....	3.25	4.60	17...	3.25	3.75	27...	5.91	3.14
8....	3.20	4.47	18...	3.23	3.71	28...	5.66	3.09
9....	3.17	4.35	19...	3.22	3.61	29...	5.44	3.03
10...	3.11	4.27	20...	3.21	3.55	30...	5.40	2.99
						31...		2.95

(928) 04228900 SPRINGWATER CREEK AT SPRINGWATER, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 42°38'37", long 77°36'12", Livingston County, on left bank at downstream side of bridge on Kellogg Road, and about 0.5 mile northwest of Springwater.

DRAINAGE AREA.--10.1 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 920 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 160 cfs and by computation of flow through culvert at 1,180 cfs.

MAXIMUMS.--June-July 1972: Discharge, 1,180 cfs June 23 (gage height, 7.29 ft, estimated).
1965-68, 1970 to May 1972: Discharge, 184 cfs Mar. 16, 1971 (gage height, 5.37 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,100	6,100	11...	500	8,290	21...	2,200	7,970
2....	2,100	8,520	12...	500	8,260	22...	5,640	7,630
3....	1,400	8,520	13...	500	8,550	23...	13,200	6,160
4....	1,200	5,010	14...	500	8,710	24...	16,500	3,730
5....	1,200	8,620	15...	700	8,650	25...	15,200	3,570
6....	1,000	9,150	16...	1,200	8,450	26...	13,800	3,470
7....	800	9,190	17...	1,800	8,270	27...	12,000	3,330
8....	700	8,890	18...	1,300	7,860	28...	10,400	3,170
9....	600	8,650	19...	1,200	7,560	29...	9,100	3,010
10...	500	8,460	20...	1,400	7,660	30...	6,680	2,830
						31...		2,600
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							4,200	6,800
RUNOFF,IN INCHES							3.30	5.53

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	3.70	1,300	6-21	2400	6.28	3,330	6-24	0415	24.50	17,800
6-21	0300	3.80	1,400					6-24	2400	22.68	15,600
6-21	0500	4.00	1,500								
6-21	0700	4.20	1,700	6-22	1300	9.13	5,500				
6-21	1000	4.50	1,900	6-22	2400	13.61	8,910	6-25	1200	22.85	15,200
6-21	1200	4.80	2,100								
6-21	1400	5.00	2,300								
6-21	1500	5.19	2,460	6-23	2400	24.25	17,500				

(925) 04227980 CONESUS LAKE NEAR LAKEVILLE, N.Y.

LOCATION.--Lat 42°47'39", long 77°43'15", Livingston County, on west shore of Conesus Lake at Geneseo Water Works pumping station, 300 ft east of State Highway 256, and 3.0 miles south of Lakeville.

DRAINAGE AREA.--69.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 800.00 ft above mean sea level.

MAXIMUMS.--June-July 1972: Gage height, 22.50 ft 1200 hours June 24.
1964 to May 1972: Gage height, 20.53 ft Mar. 17, 18, 1971.

REMARKS.--Area of water surface, 5.08 sq mi. Lake level maintained by plank and pile dam at outlet.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	19.23	21.48	11...	18.90	20.36	21...	19.02	19.48
2....	19.23	21.33	12...	18.86	20.26	22...	19.73	19.40
3....	19.22	21.20	13...	18.83	20.15	23...	21.92	19.32
4....	19.19	21.08	14...	18.83	20.06	24...	22.49	19.24
5....	19.15	20.96	15...	18.85	19.98	25...	22.41	19.16
6....	19.11	20.86	16...	18.96	19.89	26...	22.23	19.08
7....	19.07	20.79	17...	18.96	19.81	27...	22.02	19.00
8....	19.02	20.67	18...	18.95	19.73	28...	21.80	18.92
9....	19.00	20.55	19...	18.94	19.65	29...	21.60	18.85
10...	18.95	20.47	20...	18.93	19.56	30...	21.59	18.78
						31...		18.72

(926) 04228500 GENESEE RIVER AT AVON, N.Y.

LOCATION.--Lat 42°55'04", long 77°45'27", Livingston County, on right bank 250 ft downstream from bridge on U.S. Highway 20 (State Highway 5), 0.3 mile west of Avon, and 0.8 mile downstream from Conesus Creek.

DRAINAGE AREA.--1,667 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 500.00 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 16,500 cfs 0430 hours June 25 (gage height, 40.67 ft).
1956 to May 1972: Discharge, 15,600 cfs Mar. 7, 1956 (gage height, 37.20 ft, from graph based on gage readings).

REMARKS.--High flows regulated by Mount Morris Lake (see station 04224000) and by Conesus Lake (see station 04227980).

(929) 04229500 HONEOYE CREEK AT HONEOYE FALLS, N.Y.
(Gaging station, discontinued 1970)

LOCATION.--Lat 42°57'24", long 77°35'21", Monroe County, on right bank 25 ft downstream from bridge on State Highway 65 at Honeoye Falls and 13 miles upstream from mouth.

DRAINAGE AREA.--195 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 4,800 cfs June 23 (elevation, 616.5 ft above mean sea level), from rating curve extended above 2,100 cfs.
1946 to 1970: Discharge, 4,630 cfs Mar. 28, 1950 (elevation, 616.40 ft above mean sea level), from rating curve extended above 2,100 cfs.

(930) 04230380 OATKA CREEK AT WARSAW, N.Y.

LOCATION.--Lat 42°44'39", long 78°08'16", Wyoming County, on right bank 400 ft downstream from bridge on Court Street at Warsaw.

DRAINAGE AREA.--41.9 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 987.15 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,300 cfs and by slope-area measurement at 4,010 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,010 cfs 0245 hours June 23 (gage height, 9.75 ft).
1964 to May 1972: Discharge, 1,760 cfs Sept. 28, 1967 (gage height, 7.28 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	40	110	11...	16	60	21...	67	17
2....	34	60	12...	15	40	22...	761	15
3....	25	75	13...	16	33	23...	1,510	14
4....	23	66	14...	18	32	24...	268	14
5....	20	49	15...	39	33	25...	177	25
6....	18	72	16...	51	33	26...	112	20
7....	17	90	17...	22	28	27...	78	15
8....	15	56	18...	18	23	28...	58	14
9....	19	42	19...	17	21	29...	52	12
10...	17	97	20...	25	20	30...	177	11
						31...		11
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							124	39
RUNOFF,IN INCHES							3.31	1.07

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.83	21	6-22	2400	8.51	2,640				
6-21	0530	1.85	23					6-25	0015	2.97	220
6-21	1045	1.99	39					6-25	2400	2.55	137
6-21	1645	1.96	35	6-23	0245	9.75	4,010				
6-21	1945	2.03	45	6-23	0330	9.74	3,990				
6-21	2030	2.13	60	6-23	0600	8.69	2,810	6-26	0015	2.55	137
6-21	2130	2.45	118	6-23	0845	6.43	1,310	6-26	2400	2.29	88
6-21	2200	2.79	183	6-23	1245	4.94	749				
6-21	2230	3.63	372	6-23	2000	3.91	442				
6-21	2400	4.22	525	6-23	2400	3.66	379	6-27	0200	2.29	88
								6-27	2400	2.14	64
6-22	0245	4.34	558	6-24	0015	3.65	377				
6-22	1300	4.20	519	6-24	1330	3.07	241				
6-22	1615	4.53	614	6-24	2400	2.98	222				
6-22	2045	5.88	1,090								

(931) 04230500 OATKA CREEK AT GARBUTT, N.Y.

LOCATION.--Lat 43°00'36", long 77°47'30", Monroe County, on right bank 40 ft downstream from bridge on Union Street in Garbutt, 1.5 miles west of Scottsville, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--204 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 0815 hours June 21 to 1800 hours June 23. Datum of gage is 450.89 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements. Discharge for June 21-23 estimated on basis of record for station at Warsaw (station 04220380).

MAXIMUMS.--June-July 1972: Discharge, 3,840 cfs 1500 hours June 24 (gage height, 6.89 ft).
1946 to May 1972: Discharge, 7,050 cfs Mar. 31, 1960 (gage height, 8.64 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	270	534	11...	108	408	21...	80	128
2....	249	532	12...	102	389	22...	130	120
3....	217	516	13...	97	282	23...	1,500	110
4....	188	497	14...	94	218	24...	3,170	102
5....	164	391	15...	91	212	25...	2,190	98
6....	144	316	16...	102	212	26...	1,020	95
7....	131	330	17...	125	199	27...	618	94
8....	119	417	18...	119	174	28...	417	94
9....	116	397	19...	94	154	29...	322	86
10...	128	332	20...	77	140	30...	464	80
						31...		76
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							422	249
RUNOFF,IN INCHES.....							2.31	1.41

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	2400	2.60	91	6-23	1800	4.81	1,390	6-25	0030	6.43	3,170
				6-23	2400	5.19	1,740	6-25	2145	4.96	1,520
								6-25	2400	4.86	1,430
6-22	0800	2.65	105								
6-22	1500	2.75	134	6-24	0130	5.34	1,890				
6-22	2000	2.90	184	6-24	0200	5.40	1,950	6-26	0015	4.86	1,370
6-22	2400	3.20	304	6-24	0300	5.50	2,050	6-26	1515	4.31	930
				6-24	0330	5.60	2,160	6-26	2400	4.13	802
				6-24	0400	5.74	2,310				
6-23	0200	4.15	865	6-24	0700	6.30	3,000				
6-23	0400	4.60	1,210	6-24	1500	6.89	3,840				
6-23	0600	4.95	1,520	6-24	1515	6.87	3,810				
6-23	1100	5.20	1,750	6-24	2400	6.45	3,200				
6-23	1700	4.85	1,420								

(932) 04231000 BLACK CREEK AT CHURCHVILLE, N.Y.

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, on right bank at east end of Carrol Street in Churchville, 100 ft downstream from main-line tracks of Penn Central Transportation Co., and 0.3 mile downstream from Black Creek Dam.

DRAINAGE AREA.--123 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 552.45 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 600 cfs 1130 hours June 25 (gage height, 4.24 ft).
1946 to May 1972: Discharge, 4,880 cfs Mar. 31, 1960 (gage height, 9.44 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	168	278	11...	39	139	21...	25	38
2....	132	310	12...	36	112	22...	92	33
3....	109	265	13...	34	88	23...	403	28
4....	85	260	14...	33	68	24...	517	25
5....	68	243	15...	37	60	25...	587	25
6....	57	188	16...	48	67	26...	413	24
7....	49	125	17...	48	71	27...	215	24
8....	44	137	18...	37	57	28...	125	22
9....	44	208	19...	29	48	29...	81	21
10...	42	168	20...	25	41	30...	180	19
						31...		18
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							127	104
RUNOFF,IN INCHES.....							1.15	0.97

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.69	22	6-23	0630	3.65	403	6-26	0100	4.07	541
6-21	2030	1.72	25	6-23	2400	3.93	496	6-26	2400	3.28	294
6-21	2230	1.79	31								
6-21	2400	1.83	36								
				6-24	2400	4.11	555	6-27	0030	3.26	286
								6-27	2400	2.67	157
6-22	0830	1.98	53								
6-22	1830	2.49	130	6-25	1130	4.24	600				
6-22	2400	2.85	198	6-25	2400	4.08	545				

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	37	75	11...	27	41	21...	38	28
2....	31	43	12...	27	37	22...	260	27
3....	29	58	13...	27	33	23...	760	58
4....	28	47	14...	27	31	24...	255	30
5....	27	37	15...	33	35	25...	64	39
6....	27	33	16...	30	61	26...	41	21
7....	27	31	17...	26	35	27...	40	20
8....	27	38	18...	24	32	28...	36	17
9....	32	33	19...	25	30	29...	31	16
10...	27	50	20...	25	30	30...	264	16
						31...		16
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							78	35
RUNOFF,IN INCHES.....							2.91	1.36

GAGE HEIGHT, IN FEET, AND DISCHARGE, N CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	T ME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.47	26	6-22	2115	3.72	278				
6-21	0145	2.49	27	6-22	2400	3.92	380				
6-21	0230	2.58	34					6-25	0030	3.07	90
6-21	0430	2.65	40					6-25	2030	2.74	50
6-21	1215	2.59	35	6-23	0100	4.15	544	6-25	2400	2.69	45
6-21	1845	2.57	33	6-23	0330	4.67	1,080				
6-21	2130	2.78	53	6-23	0715	4.82	1,280				
6-21	2300	2.88	63	6-23	0900	4.76	1,200	6-26	1700	2.56	34
6-21	2315	3.03	83	6-23	1400	4.26	641	6-26	1845	2.69	46
6-21	2400	3.13	99	6-23	1730	3.99	424	6-26	2015	2.69	46
				6-23	2400	4.20	587	6-26	2400	2.67	44
6-22	0145	3.50	191								
6-22	0430	3.53	201	6-24	0145	4.20	587	6-27	0030	2.67	44
6-22	0915	3.29	132	6-24	0615	3.92	380	6-27	2400	2.59	37
6-22	1000	3.35	147	6-24	1145	3.49	188				
6-22	1200	3.95	398	6-24	2000	3.16	105				
6-22	1330	3.97	410	6-24	2400	3.08	92				

(935) 04232100 STERLING CREEK AT STERLING, N.Y.

LOCATION.--Lat 43°19'31", long 76°38'51", Cayuga County, on right bank at Sterling, 25 ft downstream from bridge on State Highway 104A, 1.8 miles southwest of Sterling Valley and 1.9 miles upstream from Sterling Valley Creek.

DRAINAGE AREA.--44.4 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 264.69 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 460 cfs 2000 hours June 22 (gage height, 3.63 ft).
1958 to May 1972: Discharge, 1,490 cfs Apr. 4, 1960 (gage height, 5.13 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	37	173	11...	20	51	21...	92	22
2....	43	148	12...	16	47	22...	314	19
3....	37	247	13...	15	42	23...	348	17
4....	32	250	14...	14	41	24...	395	16
5....	27	171	15...	26	41	25...	325	23
6....	24	120	16...	89	37	26...	235	27
7....	21	81	17...	49	33	27...	156	22
8....	18	70	18...	34	33	28...	117	18
9....	29	57	19...	27	33	29...	71	15
10...	26	55	20...	26	25	30...	179	12
						31...		12
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							95	63
RUNOFF,IN INCHES.....							2.38	1.64

(933) 04232000 GENESEE RIVER AT ROCHESTER, N.Y.

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, on right bank 40 ft downstream from plant 5 of Rochester Gas and Electric Corp., 100 ft upstream from Driving Park Avenue Bridge at Rochester, and 6.1 miles upstream from mouth.

DRAINAGE AREA.--2,457 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 246.24 ft above mean sea level. Prior to October 1918, at site 5 miles upstream at datum 506.09 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 29,600 cfs 1245 hours June 25 (gage height, 15.89 ft).
1905 to May 1972: Discharge, 48,300 cfs Mar. 30, 1916 (gage height, 15.3 ft, site and datum then in use); at present site, 34,400 cfs Mar. 19, 1942 (gage height, 16.96 ft); gage height, 17.08 ft Apr. 2, 1940.
Flood of Mar. 18, 1865 (highest since 1835) reached a discharge of about 54,000 cfs.

REMARKS.--High flows regulated by Mount Morris, Rushford, Conesus, and Honeoye Lakes.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	3,570	13,100	11...	1,750	10,400	21...	2,200	8,540
2....	3,740	10,600	12...	1,490	10,000	22...	5,720	8,620
3....	3,500	11,500	13...	1,500	9,680	23...	15,700	8,410
4....	2,600	10,500	14...	1,720	9,790	24...	22,500	5,840
5....	2,270	8,870	15...	1,560	9,840	25...	24,900	4,360
6....	2,270	11,000	16...	1,730	9,840	26...	24,900	4,260
7....	2,260	11,500	17...	2,550	9,660	27...	23,800	4,150
8....	1,900	11,200	18...	2,560	9,110	28...	21,100	4,100
9....	1,810	10,800	19...	2,320	8,750	29...	17,700	3,780
10...	1,840	10,500	20...	1,880	8,390	30...	16,000	3,690
						31...		3,460
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							7,310	8,520
RUNOFF, IN INCHES.....							3.32	4.00

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	4.18	1,840	6-22	1530	6.22	3,990				
6-21	0500	4.29	1,930	6-22	1800	7.49	5,890				
6-21	0645	4.16	1,830	6-22	2145	9.05	8,900	6-25	1015	14.23	23,300
6-21	0845	4.02	1,720	6-22	2400	9.37	9,590	6-25	1030	13.49	20,800
6-21	0915	4.74	2,340					6-25	1045	14.81	25,400
6-21	0945	4.31	1,950					6-25	1100	15.02	26,200
6-21	1345	4.78	2,370	6-23	0115	9.92	10,800	6-25	1115	14.50	24,300
6-21	1630	4.55	2,170	6-23	0430	10.78	13,000	6-25	1145	13.77	21,800
6-21	1645	5.22	2,810	6-23	1900	12.75	18,500	6-25	1230	14.36	23,800
6-21	2015	4.73	2,330	6-23	1915	12.45	17,600	6-25	1245	15.89	29,600
6-21	2345	5.02	2,610	6-23	1930	13.38	20,500	6-25	1315	15.01	26,100
6-21	2400	5.47	3,080	6-23	1945	12.43	17,600	6-25	1330	14.86	25,600
				6-23	2400	13.28	20,200	6-25	2000	14.89	25,700
								6-25	2400	14.66	24,900
6-22	0100	6.40	4,230								
6-22	0230	5.96	3,650	6-24	1200	13.68	21,500				
6-22	0730	5.76	3,410	6-24	1215	13.06	19,500	6-26	0245	14.85	25,600
6-22	0945	6.62	4,540	6-24	1415	14.20	23,200	6-26	2400	14.55	24,500
6-22	1030	7.19	5,400	6-24	1430	14.26	23,400				
6-22	1100	10.21	11,500	6-24	1445	12.67	18,300				
6-22	1145	9.32	9,480	6-24	1500	12.84	18,800	6-27	0045	14.54	24,400
6-22	1315	8.67	8,100	6-24	1530	14.89	25,700	6-27	2400	14.05	22,700
6-22	1345	8.58	7,920	6-24	1545	15.03	26,200				
6-22	1400	7.22	5,450	6-24	1600	15.06	26,300				
6-22	1415	6.55	4,440	6-24	1615	14.97	26,000				
6-22	1445	7.49	5,890	6-24	2400	14.66	24,900				

(934) 04232050 ALLEN CREEK NEAR ROCHESTER, N.Y.

LOCATION.--Lat 43°07'49", long 77°31'08", Monroe County, on right bank 525 ft downstream from Penn Central Transportation Co. bridge, near Rochester, about 1 mile upstream from Irondequoit Creek.

DRAINAGE AREA.--30.1 sq mi, flow from 2.1 sq mi not contributing.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 323.54 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 480 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,280 cfs 0715 hours June 23 (gage height, 4.82 ft).
1960 to May 1972: Discharge, 5,040 cfs Mar. 30, 1960 (gage height, 6.06 ft).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.06	26	6-23	2400	3.48	399	6-27	2400	2.74	148
6-20	0600	2.06	26								
6-20	2400	2.03	24								
				6-24	0730	3.53	422	6-28	0100	2.74	148
				6-24	2400	3.39	359	6-28	2400	2.47	89
6-21	0600	2.08	28								
6-21	0930	2.26	48								
6-21	1530	2.79	148	6-25	0130	3.38	355	6-29	0100	2.46	87
6-21	2400	2.89	173	6-25	2400	3.20	288	6-29	2400	2.29	59
6-22	0800	3.11	247	6-26	0100	3.19	284	6-30	0400	2.33	65
6-22	1230	3.35	336	6-26	2400	2.90	189	6-30	0530	2.49	92
6-22	1700	3.47	386					6-30	0900	2.88	184
6-22	2000	3.63	460					6-30	1930	2.99	216
6-22	2100	3.59	441	6-27	1000	2.90	189	6-30	2200	3.27	314
6-22	2400	3.47	386	6-27	1100	2.83	171	6-30	2230	3.27	314
				6-27	1230	2.54	102	6-30	2400	3.21	292
				6-27	1430	2.54	102				
6-23	1930	3.29	321	6-27	2200	2.75	151				

(936) 04232192 CATHERINE CREEK TRIBUTARY NO. 4 NEAR MONTOUR FALLS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°18'38", long 76°50'46", Schuyler County, about 200 ft southeast of State Highway 14, about 600 ft upstream from mouth, and 2.5 miles south of Montour Falls.

DRAINAGE AREA.--1.00 sq mi.

MAXIMUM.--June-July 1972: Discharge, 296 cfs June 22, from slope-area measurement.

(937) 04232198 CATHERINE CREEK NEAR MONTOUR FALLS, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°19'22", long 76°50'45", Schuyler County, west of State Highway 14, 0.4 mile upstream from partial-record site, and 1.7 miles south of Montour Falls.

DRAINAGE AREA.--38.2 sq mi.

MAXIMUM.--June-July 1972: Discharge, 3,150 cfs June 22, from slope-area measurement.

(938) 04232400 SENECA LAKE AT WATKINS GLEN, N.Y.

LOCATION.--Lat 42°23'00", long 76°52'05", Schuyler County, on east bank about 300 ft from lake on shorter of two boat slips at Watkins Glen.

DRAINAGE AREA.--704 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 438.41 ft above mean sea level (440.00 ft Barge Canal datum).

MAXIMUMS.--June-July 1972: Gage height, 10.47 ft 0945 hours June 25.
1957 to May 1972: Daily gage height, 8.56 ft Mar. 16, 17, 1964

REMARKS.--Area of water surface, 67.6 sq mi. Lake regulated by taintor gates on Seneca River at lock 4, Waterloo, for operation of Seneca-Cayuga Canal (New York State Barge Canal) and power generation by New York State Electric & Gas Corp.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	7.27	10.35	11...	7.40	9.76	21...	7.67	9.08
2....	7.28	10.26	12...	7.37	9.68	22...	8.76	9.01
3....	7.29	10.27	13...	7.35	9.57	23...	10.12	8.95
4....	7.34	10.35	17...	7.33	9.51	24...	10.42	8.88
5....	7.38	10.26	15...	7.31	9.48	25...	10.44	8.78
6....	7.38	10.17	16...	7.43	9.43	26...	10.42	8.70
7....	7.39	10.11	17...	7.47	9.39	27...	10.38	8.60
8....	7.37	10.02	18...	7.48	9.28	28...	10.30	8.47
9....	7.37	9.89	19...	7.45	9.17	29...	10.22	8.42
10...	7.43	9.80	20...	7.40	9.15	30...	10.31	8.26
						31...		8.15

(939) 04232406 HECTOR FALLS CREEK AT BURDETT, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°25'21", long 76°49'58", Schuyler County, at bridge on State Highways 79, 227, 0.2 mile east of village line of Burdett, and 2.4 miles upstream from mouth.

DRAINAGE AREA.--11.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,010 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 40 cfs and by computation of flow through culvert at 4,600 cfs.

MAXIMUMS.--June-July 1972: Discharge estimated, 1,500 cfs June 23 (gage height, 5.40 ft).
1971 to May 1972: No discharge published; gage height, 2.73 ft Mar. 15, 1971.
Flood of July 9, 1935 reached a peak of 4,600 cfs (gage height, not determined).

(940) 04232450 KEUKA LAKE AT HAMMONDSPORT, N.Y.

LOCATION.--Lat 42°24'22", long 77°13'08", Steuben County, on left bank of Keuka Inlet 300 ft from mouth at Hammondsport.

DRAINAGE AREA.--182 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 710.00 ft above mean sea level.

MAXIMUMS.--June-July 1972: Gage height, 9.35 ft 1345 hours June 24.
1961 to May 1972: Gage height, 5.79 ft Apr. 27, 29, 1961.

REMARKS.--Area of water surface, 18.3 sq mi. Lake regulated by manipulation of three lift gates at a dam across the outlet by the village of Pen Yann.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4.89	8.77	11...	4.57	7.84	21...	5.29	7.10
2....	4.84	8.66	12...	4.51	7.72	22...	7.17	7.02
3....	4.81	8.62	13...	4.52	7.62	23...	9.08	6.92
4....	4.82	8.61	14...	4.51	7.58	24...	9.33	6.83
5....	4.83	8.49	15...	4.51	7.51	25...	9.28	6.72
6....	4.78	8.38	16...	4.58	7.46	26...	9.17	6.63
7....	4.75	8.26	17...	4.59	7.37	27...	9.03	6.53
8....	4.68	8.14	18...	4.55	7.27	28...	8.88	6.43
9....	4.66	8.02	19...	4.53	7.18	29...	8.74	6.32
10...	4.64	7.92	20...	4.50	7.14	30...	8.84	6.23
						31...		6.12

(941) 0423245A KEUKA LAKE TRIBUTARY NO. 13 NEAR HAMMONDSPORT, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°25'52", long 77°12'09", Steuben County, at culvert on town road 0.4 mile upstream from mouth, 1.1 miles southwest of Glen Grove, and 2.0 miles northeast of Hammondsport.

DRAINAGE AREA.--0.23 sq mi.

MAXIMUM.--June-July 1972: Discharge, 119 cfs June 23, from computation of flow through culvert.

(942) 04232468 KEUKA LAKE TRIBUTARY NO. 12 NEAR PULTENEY, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°30'30", long 77°11'00", Steuben County, at culvert on county road 0.5 mile northeast of South Pulteney and 1.4 miles southwest of Pulteney.

DRAINAGE AREA.--0.85 sq mi.

MAXIMUM.--June-July 1972: Discharge, 255 cfs June 23, from critical-depth measurement.

(946) 04232902 WEST BRANCH CAYUGA INLET AT NEWFIELD, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°21'48", long 76°35'05", Tompkins County, about 400 ft east from intersection of Depot Road and Main Street in Newfield.

DRAINAGE AREA.--8.05 sq mi.

MAXIMUM.--June-July 1972: Discharge, 1,480 cfs June 23, from slope-area measurement.

(947) 04233000 CAYUGA INLET NEAR ITHACA, N.Y.

LOCATION.--Lat 42°23'35", long 76°32'43", Tompkins County, on left bank 0.8 mile upstream from Enfield (formerly Butternut) Creek and 5 miles south of Ithaca.

DRAINAGE AREA.--35.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Doubtful gage-height record 1200 hours June 26 to 0930 hours July 26 (sluggish intake). Record reconstructed on the basis of comparison by stage and discharge hydrograph with records for stations on nearby streams. Datum of gage is 437.16 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,600 cfs and by slope-area measurements at 2,200 cfs and 4,400 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,800 cfs 0115 hours June 23 (gage height, 8.10 ft).
1939 to May 1972: Discharge, 4,110 cfs Aug. 13, 1942 (gage height, 7.58 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	56	130	11...	20	46	21...	99	33
2....	38	120	12...	18	44	22...	1,690	31
3....	31	120	13...	19	46	23...	1,200	33
4....	41	170	14...	18	100	24...	396	38
5....	33	110	15...	18	63	25...	223	32
6....	28	74	16...	76	72	26...	150	27
7....	25	63	17...	33	62	27...	110	22
8....	22	55	18...	24	50	28...	90	21
9....	23	50	19...	22	36	29...	90	19
10...	23	46	20...	19	34	30...	240	17
						31...		16
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							163	57
RUNOFF, IN INCHES							5.15	1.88

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	0.80	17	6-22	1800	4.82	1,780	6-23	1945	3.19	815
6-21	1315	0.85	21	6-22	1915	6.13	2,830	6-23	2400	2.82	630
6-21	1515	0.97	31	6-22	2130	5.15	2,020				
6-21	1700	1.25	68	6-22	2345	6.89	3,510				
6-21	1800	1.48	111	6-22	2400	7.14	3,760	6-24	0015	2.80	620
6-21	1915	1.93	236					6-24	0745	2.42	436
6-21	2030	2.51	479					6-24	2145	2.08	290
6-21	2300	2.10	298	6-23	0115	8.10	4,800	6-24	2400	2.04	275
6-21	2400	2.12	306	6-23	0300	5.16	2,030				
				6-23	0430	4.30	1,430				
				6-23	0630	3.76	1,120	6-25	0045	2.03	271
6-22	0400	2.53	488	6-23	0915	3.36	900	6-25	2400	1.74	177
6-22	0730	4.74	1,730	6-23	1130	3.60	1,030				
6-22	0900	6.90	3,520	6-23	1345	3.44	942				
6-22	1130	4.82	1,780	6-23	1630	3.34	890				
6-22	1615	3.72	1,100	6-23	1830	3.00	720				

(948) 04233250 BUTTERMILK CREEK NEAR ITHACA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°25'02", long 76°31'28", Tompkins County, at bridge on State Highways 13 and 34, 0.2 mile upstream from mouth, and 2.0 miles southwest of Ithaca.

DRAINAGE AREA.--11.3 sq mi.

MAXIMUM.--June-July 1972: Discharge, 1,060 cfs June 22, from computation of flow through culvert.

(943) 04232482 KEUKA LAKE OUTLET AT DRESDEN, N.Y.

LOCATION.--Lat 42°40'49", long 76°57'15", Yates County, on right bank at upstream side of bridge on Milo Street in Dresden, and 0.4 mile upstream from mouth.

DRAINAGE AREA.--207 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Doubtful gage-height record July 2-15. Datum of gage is 446.67 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 2,100 cfs and by contracted-opening measurement at Mays Mills, adjusted for intervening area, at 4,000 cfs. Discharge for period of doubtful gage height estimated on basis of adjacent record, weather records, record for Keuka Lake at Hammondsport (04232450), and record of gate settings at outlet of Keuka Lake as furnished by the village of Penn Yan.

MAXIMUMS.--June-July 1972: Discharge, 4,000 cfs 1045 hours June 22 (gage height, 8.37 ft).
1966 to May 1972: Discharge, 2,320 cfs Mar. 15, 1971 (gage height, 5.17 ft).

REMARKS.--Flow regulated by village of Penn Yan.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	365	1,400	11...	305	1,000	21...	912	730
2....	350	1,300	12...	248	940	22...	2,200	672
3....	342	1,300	13...	115	900	23...	2,070	703
4....	342	1,400	14...	115	880	24...	1,630	640
5....	338	1,300	15...	115	920	25...	1,540	627
6....	334	1,200	16...	117	825	26...	1,520	627
7....	323	1,200	17...	113	780	27...	1,450	609
8....	320	1,100	18...	111	739	28...	1,390	595
9....	320	1,000	19...	111	708	29...	1,320	587
10...	312	1,000	20...	111	840	30...	1,430	571
						31...		563
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							676	892
RUNOFF, IN INCHES							3.64	4.97

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	1.30	111	6-22	1115	8.27	3,940				
6-21	0545	1.33	117	6-22	1645	4.66	1,810	6-25	0100	4.24	1,580
6-21	0700	1.54	163	6-22	1930	4.54	1,750	6-25	2400	4.17	1,540
6-21	0745	1.71	206	6-22	2400	6.20	2,700				
6-21	0945	2.01	302								
6-21	1045	2.62	571					6-26	0100	4.19	1,550
6-21	1200	3.62	1,150	6-23	0230	7.13	3,260	6-26	2400	4.08	1,490
6-21	1400	4.42	1,630	6-23	0315	6.82	3,070				
6-21	1415	4.43	1,640	6-23	0800	4.82	1,900				
6-21	1730	4.25	1,530	6-23	1600	4.71	1,840	6-27	0130	4.07	1,490
6-21	2400	3.84	1,280	6-23	2400	4.52	1,740	6-27	2400	3.95	1,420
6-22	0445	4.17	1,540	6-24	0015	4.53	1,740	6-28	0130	3.95	1,420
6-22	0915	6.34	2,780	6-24	2400	4.22	1,570	6-28	2400	3.83	1,360
6-22	1045	8.37	4,000								

(944) 04232490 KASHONG CREEK NEAR BELLONA, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°45'54", long 76°58'36", Ontario County, at bridge on State Highway 14, 0.3 mile upstream from mouth, and 2.0 miles northeast of Bellona.

DRAINAGE AREA.--30.7 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 470 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 68 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 610 cfs June 23 (gage height, 3.19 ft).
1965 to 1970: Gage height, 3.94 ft Sept. 29, 1967.

(945) 04232630 KENDIG CREEK NEAR MACDOUGALL, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 42°50'57", long 76°53'33", Seneca County, on left bank at downstream side of bridge on County Highway 120, 3.0 miles north of MacDougall, 3.5 miles southwest of Waterloo, and 4.6 miles upstream from mouth.

DRAINAGE AREA.--13.8 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Datum of gage is 495.18 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 260 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 417 cfs June 23 (gage height, 4.93 ft).
1965 to May 1972: Discharge, 713 cfs July 10, 1968 (gage height, 6.14 ft); gage height, 6.23 ft Mar. 16, 1971 (backwater from ice).

(949) 04233255 CAYUGA INLET AT ITHACA, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°25'38", long 76°31'19", Tompkins County, on left headwall of hydraulic drop structure and fish ladder, 600 ft east of State Highway 13A, at Ithaca.

DRAINAGE AREA.--86.7 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 385 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 810 cfs and by computation of flow over dam at 2,240 cfs and 11,800 cfs.

MAXIMUMS.--June-July 1972: Discharge, 11,800 cfs June 23 (gage height, 14.60 ft).
1971 to May 1972: Rise of Mar. 15, 1971 reached a stage of 10.74 ft (backwater from ice).
Flood of Apr. 14, 15, 1970 reached a peak of 2,240 cfs (gage height, 8.3 ft).

(950) 04233257 COY GLEN CREEK AT ITHACA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°25'36", long 76°31'38", Tompkins County, at downstream side of bridge on State Highway 13A, 0.2 mile southwest of Ithaca city limits.

DRAINAGE AREA.--3.55 sq mi.

MAXIMUM.--June-July 1972: Discharge, 516 cfs June 22, from slope-area measurement.

(951) 04233310 SIXMILE CREEK ABOVE ITHACA, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°24'33", long 76°27'14", Tompkins County, at bridge on Burns Road, 1.8 miles southeast of Ithaca, and 4.4 miles upstream from mouth.

DRAINAGE AREA.--42.0 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 710 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 180 cfs and by computation of flow over dam at 5,360 cfs.

MAXIMUMS.--June-July 1972: Discharge, 5,360 cfs June 23 (gage height, 9.43 ft).
1967-69, 1971 to May 1972: Discharge, 2,640 cfs Nov. 3, 1967 (gage height, 5.59 ft).

(952) 04233314 SIXMILE CREEK TRIBUTARY NEAR ITHACA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°24'12", long 76°27'52", Tompkins County, at culvert on Coddington Road (between King and Burns Roads), 2.3 miles southeast of Ithaca city limits.

DRAINAGE AREA.--0.69 sq mi.

MAXIMUM.--June-July 1972: Discharge, 187 cfs June 22, from computation of flow through culvert.

(953) 04233317 SIXMILE CREEK AT POTTER FALLS NEAR ITHACA, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°25'02", long 76°27'40", Tompkins County, at dam of Ithaca Reservoir, 1.2 miles southeast of Ithaca city limits.

DRAINAGE AREA.--45.5 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 4,430 cfs June 23, from computation of flow over dam.
Flood of July 8, 1935 reached a peak of 4,330 cfs.

(954) 04233500 CAYUGA LAKE AT ITHACA, N.Y.

LOCATION.--Lat 42°26'45", long 76°30'45", Tompkins County, on left bank of natural channel 40 ft upstream from flood-control channel of Cayuga Inlet, at north end of Taughannock Boulevard, and 1 mile upstream from mouth, at Ithaca.

DRAINAGE AREA.--1,564 sq mi (Cayuga Lake Portion, 785 sq mi).

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 376.57 ft above mean sea level.

MAXIMUMS.--June-July 1972: Gage height, 9.76 ft 1100 hours June 26.
1906-25, 1957 to May 1972: Gage height observed, 8.4 ft Apr. 4, 5, 1916.

REMARKS.--Area of water surface, 66.9 sq mi. Lake regulated by manipulation of six taintor gates at Mud Lock by New York State Department of Transportation. Seneca River (Cayuga and Seneca Canal) enters lake 0.5 mile upstream from Mud Lock and is included in first drainage area given above.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	5.72	9.50	11...	5.94	8.60	21...	6.35	7.40
2....	5.75	9.38	12...	5.87	8.45	22...	7.74	7.26
3....	5.72	9.37	13...	5.87	8.29	23...	9.35	7.11
4....	5.77	9.40	14...	5.85	8.23	24...	9.71	6.98
5....	5.91	9.27	15...	5.87	8.17	25...	9.73	6.77
6....	5.92	9.16	16...	6.17	8.09	26...	9.72	6.72
7....	5.97	9.08	17...	6.27	7.99	27...	9.63	6.50
8....	5.91	8.96	18...	6.22	7.80	28...	9.51	6.38
9....	5.93	8.82	19...	6.15	7.66	29...	9.38	6.35
10...	6.02	8.68	20...	6.11	7.55	30...	9.48	6.25
						31...		6.19

(955) 04233676 VIRGIL CREEK AT DRYDEN, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°29'18", long 76°18'08", Tompkins County, at bridge on Mill Street at Dryden, and 0.1 mile upstream from Dryden Lake Outlet.

DRAINAGE AREA.--20.6 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 1,080 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 340 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,380 cfs June 23 (gage height, 3.90 ft).
1966 to 1970: Gage height, 5.09 ft June 24, 1969.

(958) 04234200 MUD CREEK AT EAST VICTOR, N.Y.
(Crest-stage station, gaging station, discontinued 1968)

LOCATION.--Lat 42°58'28", long 77°22'57", Ontario County, on right bank 25 ft downstream from bridge on State Highway 96 at East Victor and 0.3 mile upstream from Fish Creek.

DRAINAGE AREA.--64.2 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 560 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,200 cfs and by logarithmic extension above.

MAXIMUMS.--June-July 1972: Discharge, 1,800 cfs June 22 (gage height, 7.85 ft).
1959 to 1968: Discharge, 1,370 cfs Mar. 27, 1963 (gage height, 6.65 ft).

(959) 04234250 GANARGUA CREEK AT MACEDON, N.Y.
(Crest-stage station, discontinued 1969)

LOCATION.--Lat 43°03'25", long 77°19'04", Wayne County, at bridge on County Highway 137, 0.5 mile southwest of Macedon, and 1.0 mile upstream from Trap Brook.

DRAINAGE AREA.--104 sq mi.

MAXIMUMS.--June-July 1972: Discharge, 1,950 cfs June 22 (gage height, 6.75 ft), from logarithmic extension of rating above 500 cfs.
1965 to 1969: Discharge, 1,520 cfs Feb. 12, 1966 (gage height, 5.91 ft).

(960) 04234400 WEST RIVER NEAR MIDDLESEX, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°41'06", long 77°17'20", Yates County, at bridge on town road, 0.15 mile west of State Highway 245, 1.6 miles southwest of Middlesex, and 5.5 miles upstream from Naples Creek.

DRAINAGE AREA.--29.3 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 690 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 155 cfs and by computation of flow through contracted opening and over road at 2,790 cfs.

MAXIMUMS.--June-July 1972: Discharge, 2,790 cfs June 23 (gage height, 6.82 ft).
1965 to May 1972: Discharge, 1,530 cfs Apr. 24, 1969 (gage height, 5.77 ft).

(961) 04234428 RESERVOIR CREEK AT NAPLES, N.Y.
(Miscellaneous site)

LOCATION.--Lat 42°36'19", long 77°24'47", Ontario County, at bridge on State Highways 21 and 245, 0.1 mile southwest of Naples, and 0.15 mile upstream from mouth at Eelpot Creek.

DRAINAGE AREA.--5.76 sq mi.

MAXIMUM.--June-July 1972: Discharge, 1,600 cfs June 22, from computation of flow through culvert.

(956) 04234000 FALL CREEK NEAR ITHACA, N.Y.

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, on left bank in Forest Home, 0.2 mile east of Ithaca, 0.5 mile upstream from Cornell University dam, and 2.2 miles upstream from mouth.

DRAINAGE AREA.--126 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 794.81 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,800 cfs and by the average of computed flow over four dams at 15,500 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,660 cfs 0530 hours June 23 (gage height, 5.38 ft).
1926 to May 1972: Discharge, 15,500 cfs July 8, 1935 (gage height, 9.52 ft); gage height, 11.16 ft Feb. 21, 1971 (ice jam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	346	427	11...	157	200	21...	388	120
2...	273	290	12...	136	156	22...	3,500	103
3...	174	288	13...	136	150	23...	3,890	118
4...	556	405	14...	136	197	24...	1,910	99
5...	481	251	15...	124	158	25...	955	86
6...	254	220	16...	821	158	26...	633	81
7...	208	203	17...	496	178	27...	450	78
8...	177	188	18...	249	132	28...	351	73
9...	200	203	19...	200	123	29...	291	67
10...	201	194	20...	173	164	30...	592	63
						31...		57
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							615	169
RUNOFF,IN INCHES							5.45	1.54

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.37	161	6-22	1930	5.04	3,990				
6-21	1600	1.37	161	6-22	2400	5.27	4,440	6-25	0030	3.00	1,150
6-21	1900	1.53	210					6-25	2400	2.53	758
6-21	1930	1.63	245								
6-21	2000	1.94	380	6-23	0330	5.28	4,460				
6-21	2100	2.91	1,070	6-23	0530	5.38	4,660	6-26	0030	2.53	758
6-21	2400	3.62	1,840	6-23	1300	5.03	3,970	6-26	2400	2.18	513
				6-23	2400	4.35	2,840				
6-22	0630	4.19	2,610					6-27	0030	2.18	513
6-22	0730	4.73	3,450	6-24	0030	4.34	2,820	6-27	2400	1.95	385
6-22	1130	4.99	3,900	6-24	2130	3.10	1,250				
6-22	1200	5.24	4,380	6-24	2400	3.03	1,180				
6-22	1330	4.91	3,760								

(957) 04234018 SALMON CREEK AT LUDLOWVILLE, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 42°33'13", long 76°32'08", Tompkins County, on downstream right wingwall of highway bridge in Ludlowville, and 1.7 miles upstream from mouth.

DRAINAGE AREA.--81.7 sq mi.

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 410 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 550 cfs and by computation of flow through contracted opening at 4,160 cfs and flow over dam at 13,700 cfs.

MAXIMUMS.--June-July 1972: Discharge, 4,160 cfs June 23 (gage height, 10.62 ft).
1965-68, 1970 to May 1972: Discharge, 1,940 cfs Feb. 13, 1966 (gage height, 7.23 ft).
Flood of July 8, 1935 reached a peak of 13,700 cfs (gage height, not determined).

(962) 04234500 CANANDAIGUA LAKE AT CANANDAIGUA, N.Y.

LOCATION.--Lat 42°52'19", long 77°16'22", Ontario County, at south end of city pier at northern end of Canandaigua Lake, 1 mile southeast of Canandaigua.

DRAINAGE AREA.--184 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1100 hours June 23 to 1815 hours June 25. Record reconstructed on the basis of once-daily observer's readings, peak stage from floodmarks, and time of peak. Datum of gage is 681.17 ft above mean sea level.

MAXIMUMS.--June-July 1972: Gage height, 10.94 ft (from floodmark) about 1400 hours June 24.
1929 to May 1972: Daily gage height, 9.13 ft Mar. 11, 1956.

REMARKS.--Area of water surface, 16.6 sq mi. Lake regulated by gated dams on east and west outlets by city of Canandaigua.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	7.68	10.32	11...	7.33	9.26	21...	7.86	8.28
2...	7.64	10.21	12...	7.34	9.15	22...	8.78	8.18
3...	7.59	10.11	13...	7.32	9.05	23...	10.42	8.10
4...	7.53	10.07	14...	7.35	8.94	24...	10.90	8.00
5...	7.46	9.97	15...	7.39	8.88	25...	10.88	7.92
6...	7.42	9.86	16...	7.46	8.76	26...	10.75	7.82
7...	7.35	9.75	17...	7.47	8.66	27...	10.61	7.72
8...	7.37	9.61	18...	7.48	8.57	28...	10.45	7.63
9...	7.36	9.49	19...	7.48	8.52	29...	10.32	7.55
10...	7.31	9.40	20...	7.52	8.38	30...	10.35	7.48
						31...		7.41

(963) 04235000 CANANDAIGUA OUTLET AT CHAPIN, N.Y.

LOCATION.--Lat 42°55'00", long 77°14'00", Ontario County, on left bank at Chapin, 500 ft upstream from bridge on State Highway 88, and 3 miles downstream from Canandaigua Lake.

DRAINAGE AREA.--195 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals except 0100 hours June 1 to 1400 hours June 5. Record reconstructed on the basis of observer's readings, hydrographer's notes, weather records, and changes in storage in Canandaigua Lake. Datum of gage is 673.6 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,710 cfs 1500 hours June 24 (gage height, 5.62 ft).
1940 to May 1972: Discharge, 1,100 cfs Mar. 17, 1942 (gage height, 4.64 ft)

REMARKS.--Flow regulated by Canandaigua Lake (see station 04234500).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	560	1,320	11...	65	1,000	21...	284	679
2...	540	1,250	12...	65	953	22...	1,010	645
3...	520	1,270	13...	61	917	23...	1,440	629
4...	500	1,260	14...	46	895	24...	1,680	597
5...	500	1,220	15...	53	881	25...	1,630	577
6...	444	1,180	16...	70	832	26...	1,550	549
7...	263	1,140	17...	60	796	27...	1,420	521
8...	109	1,110	18...	58	760	28...	1,260	502
9...	74	1,070	19...	58	733	29...	1,160	488
10...	65	1,040	20...	36	706	30...	1,400	470
						31...		432
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							566	852
RUNOFF,IN INCHES							3.24	5.04

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0200	1.56	41	6-22	2200	4.70	1,130	6-25	2400	5.50	1,610
6-21	0400	1.59	46	6-22	2400	4.69	1,130				
6-21	0700	1.73	70								
6-21	1000	2.04	133					6-26	0200	5.50	1,580
6-21	1600	2.84	362	6-23	1000	5.10	1,400	6-26	2400	5.38	1,510
6-21	2200	3.51	591	6-23	2400	5.44	1,600				
6-21	2400	3.56	609								
								6-27	0100	5.38	1,470
				6-24	1500	5.62	1,710	6-27	2400	5.22	1,370
6-22	1000	4.21	900	6-24	2400	5.58	1,690				
6-22	1100	4.47	1,020								
6-22	1200	4.71	1,140					6-28	1400	5.12	1,260
6-22	2100	4.72	1,140	6-25	0200	5.58	1,660	6-28	2400	5.03	1,220

(964) 04235150 FLINT CREEK AT POTTER, N.Y.

LOCATION.--Lat 42°42'09", long 77°12'25", Yates County, on left bank 30 ft downstream from bridge on State Highway 364 at Potter, 0.1 mile downstream from unnamed tributary, and 0.5 mile upstream from Nettle Valley Creek.

DRAINAGE AREA.--31.0 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals except 1030 to 1900 hours June 22, 0600 hours June 23 to 2000 hours June 25 and 1415 hours July 4 to 1200 hours July 14. Record reconstructed on the basis of adjacent record, floodmarks, hydrographer's notes, photographs, weather records, and comparison by stage and discharge hydrographs with records for station at Phelps. Datum of gage is 883.93 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 700 cfs and extended above by logarithmic plotting.

MAXIMUMS.--Given in the following table.

Date	Discharge (cfs)	Gage height (feet)
June-July 1972:		
June 22 (about 1600 hours)	3,550	a9.35
June 23 (about 0600 hours)	5,040	b10.15
1964 to May 1972:		
Mar. 5, 1964	920	6.87

a About
b From floodmark

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	34	156	11...	11	29	21...	89	29
2...	28	89	12...	9.9	27	22...	2,020	25
3...	22	74	13...	9.5	24	23...	2,890	20
4...	20	90	14...	11	31	24...	1,050	16
5...	18	64	15...	12	43	25...	550	18
6...	15	50	16...	20	41	26...	207	19
7...	14	45	17...	13	40	27...	108	15
8...	12	40	18...	9.5	31	28...	64	13
9...	13	35	19...	8.6	26	29...	55	12
10...	12	32	20...	7.6	23	30...	100	10
						31...		9.8
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							248	38
RUNOFF,IN INCHES							8.92	1.41

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.13	7.2	6-22	1900	9.04	3,050	6-23	1800	8.50	2,300
6-21	0215	2.16	8.2	6-22	2000	8.90	2,840	6-23	2400	8.00	1,750
6-21	0330	2.32	14								
6-21	1100	3.63	99								
6-21	2200	4.19	138	6-23	0100	8.91	2,860	6-24	0800	7.40	1,200
6-21	2400	4.76	189	6-23	0300	9.08	3,110	6-24	1600	6.90	820
				6-23	0500	9.63	4,050	6-24	2400	6.50	600
				6-23	0600	10.15	5,040				
6-22	1100	8.10	1,850	6-23	1000	9.40	3,650				
6-22	1400	9.20	3,300	6-23	1200	9.10	3,000	6-25	1200	6.00	390
6-22	1600	9.35	3,550	6-23	1400	8.80	2,700	6-25	1800	5.70	320

(968) 04235396 OWASCO LAKE NEAR AUBURN, N.Y.

LOCATION.--Lat 42°53'56", long 76°32'17", Cayuga County, on west side of breakwater at city of Auburn water intake and pumping station, 1 mile south of city limits of Auburn, and 1.8 miles upstream from State dam.

DRAINAGE AREA.--205 sq mi.

GAGE-HEIGHT RECORD.--Once-daily readings of distance from reference mark to water surface. Readings converted to elevation above mean sea level. Prior to October 1967, records in files of city of Auburn.

MAXIMUMS.--June-July 1972: Elevation observed, 716.88 ft June 25.
1912 to May 1972: Elevation observed, 716.91 ft Mar. 23, 1936, Apr. 9, 1940.

REMARKS.--Area of water surface, 10.6 sq mi. Lake regulated by one taintor gate and five lift gates at state dam on the outlet by the city of Auburn.

COOPERATION.--Records furnished by city of Auburn, Water Division.

ELEVATION AT 0800, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	712.68	714.13	11...	713.16	713.00	21...	713.83	713.18
2...	712.88	713.73	12...	713.13	713.12	22...	715.98	713.03
3...	712.94	713.73	13...	713.05	713.13	23...	716.12	712.89
4...	713.05	713.58	14...	713.00	713.13	24...	716.38	712.74
5...	713.35	713.49	15...	712.98	713.42	25...	716.48	712.74
6...	713.44	713.27	16...	715.32	713.33	26...	715.89	712.58
7...	713.35	713.13	17...	713.58	713.20	27...	715.51	712.51
8...	713.33	713.03	18...	715.22	713.17	28...	715.03	712.36
9...	713.28	713.00	19...	713.83	713.21	29...	714.38	712.25
10...	713.22	712.97	20...	713.78	713.26	30...	714.33	712.13
						31...		712.03

(969) 04235500 OWASCO OUTLET NEAR AUBURN, N.Y.

LOCATION.--Lat 42°56'48", long 76°35'56", Cayuga County, on left bank 2.5 miles downstream from center of Auburn, and 4 miles downstream from State dam at outlet of Owasco Lake.

DRAINAGE AREA.--206 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 533.92 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 3,250 cfs 1715 hours June 23 (gage height, 6.28 ft).
1913 to May 1972: Discharge, 2,090 cfs Mar. 19, 1936, Apr. 9, 1940, Apr. 4, 1950; gage height, 4.88 ft Mar. 19, 1936, Apr. 9, 1940.

REMARKS.--Flow regulated by Owasco Lake (see station 04235396).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1...	57	1,710	11...	416	76	21...	1,230	481
2...	38	1,500	12...	409	122	22...	2,080	723
3...	127	1,430	13...	396	514	23...	3,020	663
4...	156	1,370	14...	390	549	24...	3,200	262
5...	197	1,270	15...	429	805	25...	3,030	244
6...	390	964	16...	556	820	26...	2,760	455
7...	474	693	17...	648	487	27...	2,490	535
8...	468	556	18...	648	334	28...	2,260	481
9...	468	487	19...	633	124	29...	2,060	442
10...	435	244	20...	619	212	30...	1,900	403
						31...		253
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,070	620
RUNOFF,IN INCHES							5.77	3.47

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.75	605	6-22	1900	5.00	2,310	6-25	0015	6.13	3,140
6-21	0630	2.82	655	6-22	2400	5.48	2,670	6-25	2400	5.80	2,910
6-21	0815	3.20	940								
6-21	0915	3.03	813								
6-21	1045	3.63	1,280	6-23	0700	5.69	2,830	6-26	0015	5.80	2,910
6-21	1130	4.02	1,580	6-23	0730	6.00	3,050	6-26	2400	5.40	2,610
6-21	1645	4.05	1,600	6-23	1715	6.28	3,250				
6-21	2400	4.25	1,750	6-23	2400	6.24	3,220				
								6-27	0100	5.39	2,600
6-22	0745	4.72	2,100	6-24	1100	6.28	3,250	6-27	2400	5.05	2,350
6-22	0930	3.77	1,390	6-24	2400	6.14	3,150				
6-22	1100	4.32	1,800								
6-22	1200	5.22	2,480								

(965) 04235250 FLINT CREEK AT PHELPS, N.Y.

LOCATION.--Lat 42°57'28", long 77°04'06", Ontario County, on right bank 25 ft downstream from bridge on Eagle Street at Phelps, and 1.1 miles upstream from Canandaigua Outlet.

DRAINAGE AREA.--102 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals except 0830 hours July 20 to 2400 hours July 31. Record reconstructed on the basis of weather records and comparison by stage and discharge hydrographs with records for station at Potter. Datum of gage is 523.14 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 2,820 cfs 1500 hours June 24 (gage height, 5.75 ft).
1960 to May 1972: Discharge, 2,940 cfs Mar. 30, 1960 (gage height, 5.83 ft); gage height, 6.20 ft Mar. 17, 1963 (ice jam).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	104	610	11...	27	145	21...	426	80
2....	89	452	12...	25	115	22...	1,750	68
3....	64	447	13...	23	92	23...	2,450	60
4....	56	512	14...	23	127	24...	2,670	52
5....	49	346	15...	28	170	25...	2,290	58
6....	42	256	16...	73	130	26...	1,680	60
7....	35	255	17...	54	120	27...	1,000	56
8....	31	212	18...	38	94	28...	620	52
9....	30	182	19...	30	72	29...	400	48
10...	29	162	20...	25	64	30...	900	40
						31...		38
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							502	167
RUNOFF,IN INCHES.....							5.49	1.89

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0100	1.83	23	6-22	1700	5.56	2,530				
6-21	0430	1.89	27	6-22	1800	5.41	2,310	6-25	0030	5.56	2,530
6-21	0600	2.04	39	6-22	2400	5.39	2,290	6-25	2400	5.23	2,060
6-21	0730	2.16	52								
6-21	0930	2.46	94								
6-21	1100	2.93	211	6-23	0430	5.74	2,800	6-26	0100	5.19	2,010
6-21	1500	3.80	620	6-23	0600	5.67	2,700	6-26	1830	4.77	1,470
6-21	2400	4.20	895	6-23	2200	5.43	2,340	6-26	2400	4.68	1,360
				6-23	2400	5.49	2,430				
6-22	0730	4.51	1,180					6-27	0030	4.66	1,250
6-22	1100	5.12	1,920	6-24	1500	5.75	2,820	6-27	2400	4.15	799
6-22	1130	5.44	2,360	6-24	2000	5.71	2,760				
6-22	1330	5.01	1,770	6-24	2200	5.53	2,490				
6-22	1500	5.43	2,340	6-24	2400	5.54	2,500				
6-22	1600	5.42	2,330								

(966) 04235276 BLACK BROOK AT TYRE, N.Y.
(Crest-stage station)

LOCATION.--Lat 42°59'30", long 76°48'13", Seneca County, at bridge on County Highway 101, in village of Tyre, and 0.8 mile upstream from mouth.

DRAINAGE AREA.--19.0 sq mi.

GAGE-HEIGHT RECORD.--Crest-stages only. Altitude of gage is 395 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 65 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 530 cfs June 23 (gage height, 3.61 ft).
1966 to May 1972: Discharge, 258 cfs Feb. 14, 1966 (gage height, 2.70 ft); gage height, 6.68 ft Nov. 5, 1970.

(967) 04235300 OWASCO INLET AT MORAVIA, N.Y.
(Gaging station, discontinued 1968)

LOCATION.--Lat 42°43'05", long 76°26'18", Cayuga County, on right bank 575 ft downstream from bridge on State Highway 38 and 1 mile west of Moravia.

DRAINAGE AREA.--106 sq mi.

MAXIMUMS.--June-July 1972: Elevation, 727.81 ft above mean sea level June 23, from floodmarks.
1961 to 1968: Discharge, 11,600 cfs June 30, 1961 (elevation, 723.85 ft above mean sea level); elevation, 724.40 ft Mar. 5, 1964 (backwater from Owasco Lake).

(970) 04236000 SKANEATELES LAKE AT SKANEATELES, N.Y.

LOCATION.--Lat 42°56'42", long 76°25'46", Onondaga County, on east side of breakwater, enclosed in city of Syracuse boat house, at Skaneateles.

DRAINAGE AREA.--72.7 sq mi.

GAGE-HEIGHT RECORD.--Nonrecording gage read once daily. Datum of gage is 800.00 ft above mean sea level (levels by city of Syracuse, Department of Engineering). Prior to October 1967, records in files of city of Syracuse.

MAXIMUMS.--June-July 1972: Gage height observed, 65.20 ft June 25, 26.
1891 to May 1972: Gage height observed, 63.75 ft June 5, 1947.

REMARKS.--Area of water surface, 13.6 sq mi. Lake regulated by manipulation of gates at dam at outlet by city of Syracuse.

COOPERATION.--Records furnished by city of Syracuse Water Division.

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	63.18	65.15	11...	63.26	64.68	21...	63.67	64.16
2....	63.21	65.05	12...	63.23	64.62	22...	64.22	64.08
3....	63.25	65.00	13...	63.20	64.54	23	64.63	64.00
4....	63.38	64.96	14...	63.16	64.52	24...	65.17	63.92
5....	63.39	64.97	15...	63.13	64.52	25...	65.20	63.85
6....	63.38	64.92	16...	63.60	64.55	26...	65.20	63.76
7....	63.36	64.88	17...	63.67	64.48	27...	65.17	63.64
8....	63.32	64.84	18...	63.66	64.40	28...	65.15	63.54
9....	63.34	64.70	19...	63.66	64.32	29...	65.09	63.46
10...	63.31	64.75	20...	63.67	64.24	30...	65.13	63.39
						31...		63.29

(971) 04237500 SENECA RIVER AT BALDWINSVILLE, N.Y.

LOCATION.--Lat 43°09'26", long 76°19'56", Onondaga County, on left bank 200 ft downstream from bridge on State Highways 31 and 48 in Baldwinsville, and 400 ft downstream from navigation dam at Lock 24 of New York State Erie (Barge) Canal system.

DRAINAGE AREA.--3,136 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tapes punched at 60-minute intervals. (Auxiliary recorder 1,500 ft downstream from base gage.) Datum of gage is 362.60 ft above mean sea level, Barge Canal datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 17,400 cfs 0900 hours June 28; daily discharge, 17,200 cfs June 28; gage height, 9.21 ft June 30.
1950 to May 1972: Daily discharge, 17,200 cfs Apr. 4, 1960; gage height, 9.21 ft Apr. 4, 1960.

REMARKS.--A large amount of natural storage and some artificial regulation is afforded by many large lakes and the Erie (Barge) Canal system in river basin.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	4,180	17,000	11...	2,520	13,800	21...	5,060	10,300
2....	3,570	17,000	12...	2,470	13,400	22...	7,220	9,910
3....	3,360	16,500	13...	2,140	12,700	23...	10,400	9,700
4....	3,320	16,600	14...	2,040	12,200	24...	12,800	9,620
5....	3,270	16,800	15...	2,150	12,000	25...	14,800	9,530
6....	3,220	16,100	16...	2,340	11,900	26...	16,200	9,350
7....	3,350	14,800	17...	2,560	11,800	27...	16,900	8,520
8....	3,040	14,200	18...	2,860	11,500	28...	17,200	8,630
9....	2,660	13,900	19...	3,540	11,100	29...	17,000	7,820
10...	2,570	13,600	20...	4,040	10,700	30...	16,900	7,290
						31...		6,750
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							6,456	12,100
RUNOFF,IN INCHES.....							2.30	4.45

(972) 04238500 ONONDAGA RESERVOIR NEAR NEDROW, N.Y.

LOCATION.--Lat 42°55'51", long 76°10'24", Onondaga County, at Onondaga Dam on Onondaga Creek, 3.5 miles southwest of Nedrow, 4 miles south of Syracuse, and 12.6 miles upstream from Onondaga Lake.

DRAINAGE AREA.--67.7 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is at mean sea level (levels by Corps of Engineers).

CONTENTS RECORD.--Contents computed from capacity table dated June 20, 1949 furnished by Corps of Engineers.

MAXIMUMS.--June-July 1972: Contents, 3,670 acre-ft 2100 hours June 24 (elevation, 480.43 ft).
1953 to May 1972: Contents, 5,960 acre-ft Apr. 1, 1960 (elevation, 485.9 ft).

REMARKS.--Reservoir is formed by a rolled earthfill dam, completed by Corps of Engineers in August 1949 for flood control; first used for flood regulation about a year prior to completion. Usable capacity, 18,200 acre-ft between elevations 457.0 ft (conduit invert at intake) and 504.5 ft (crest of spillway). No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually. Storage includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

DAILY ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET, 1972

	JUNE		JULY			JUNE		JULY	
DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS	DAY	ELEVATION	CONTENTS	ELEVATION	CONTENTS
1....	462.00	15.0	464.21	56.3	16...	468.27	393	462.12	16.8
2....	463.09	31.8	463.70	44.0	17...	473.85	1,658	462.06	15.9
3....	462.96	29.4	463.07	31.4	18...	472.50	1,290	461.84	13.4
4....	463.41	38.2	463.54	40.8	19...	467.86	332	461.62	11.2
5....	465.22	92.1	463.32	36.4	20...	463.12	32.4	461.46	9.6
6....	464.66	69.8	462.89	28.4	21...	462.70	25.5	461.34	8.4
7....	463.00	30.0	462.57	23.6	22...	468.61	448	461.23	7.3
8....	462.27	19.0	462.40	21.0	23...	476.26	2,348	461.14	6.4
9....	462.22	18.3	462.26	18.9	24...	480.11	3,557	461.07	5.7
10...	462.32	19.8	462.11	16.6	25...	479.84	3,469	461.01	5.1
11...	462.09	16.4	462.14	17.1	26...	477.35	2,678	461.01	5.1
12...	461.80	13.0	462.07	16.0	27...	473.97	1,692	461.02	5.2
13...	461.60	11.0	461.93	14.3	28...	470.08	718	460.98	4.9
14...	461.46	9.6	461.89	13.9	29...	465.14	87.7	460.91	4.6
15...	461.37	8.7	462.10	16.5	30...	463.62	42.4	460.85	4.2
					31...			460.79	4.0
CHANGE IN CONTENTS.....							+37.5		-38.4

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-14	0100	2.21	134	6-19	2400	2.81	269				
6-14	0700	2.22	137					6-24	0030	4.62	1,270
6-14	2400	2.14	119					6-24	2400	4.44	1,120
				6-20	0030	2.78	289				
				6-20	2400	2.42	180				
6-15	1700	2.11	109					6-25	0030	4.44	1,120
6-15	1830	2.43	183					6-25	2400	4.30	1,020
6-15	1900	2.94	347	6-21	0130	2.42	158				
6-15	2000	3.92	845	6-21	0900	2.49	175				
6-15	2130	4.48	1,270	6-21	1100	2.75	250	6-26	0100	4.30	1,020
6-15	2230	5.31	2,220	6-21	1500	3.79	709	6-26	2400	4.13	894
6-15	2300	5.34	2,260	6-21	1830	3.59	600				
6-15	2400	5.12	1,970	6-21	2100	4.32	1,070				
				6-21	2300	5.14	1,880	6-27	0130	4.12	894
				6-21	2400	5.00	1,710	6-27	2400	3.90	750
6-16	0030	4.96	1,600								
6-16	0100	4.82	1,450								
6-16	0730	4.22	957	6-22	0500	4.51	1,170	6-28	0100	3.89	756
6-16	2400	4.14	901	6-22	0830	4.65	1,280	6-28	2400	3.47	530
				6-22	1200	4.73	1,350				
				6-22	1930	4.36	1,050				
6-17	0130	4.13	901	6-22	2230	4.72	1,350	6-29	0030	3.45	545
6-17	2400	3.97	793	6-22	2330	5.09	1,740	6-29	2000	2.75	259
				6-22	2400	5.49	2,260	6-29	2400	2.71	247
6-18	0100	3.97	800								
6-18	2400	3.71	649	6-23	0100	6.12	3,200	6-30	0430	2.84	286
				6-23	0630	4.90	1,520	6-30	0830	3.33	483
				6-23	1530	4.57	1,220	6-30	0900	3.33	483
6-19	0030	3.71	665	6-23	2400	4.63	1,270	6-30	2400	3.23	438
6-19	2030	3.06	359								

(974) 04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, N.Y.

LOCATION.--Lat 43°03'27", long 76°09'46", Onondaga County, on right bank 240 ft upstream from bridge on Spencer Street in Syracuse, 1,000 ft upstream from Erie (Barge) Canal terminal and 1.0 mile upstream from mouth.

DRAINAGE AREA.--109 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 362.44 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,700 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, about 3,400 cfs 0330 hours June 23 (gage height, 8.09 ft) backwater from Onondaga Lake.
1971 to May 1972: Discharge, 1,640 cfs Mar. 15, 1971 (gage height, 6.74 ft).

REMARKS.--High flows regulated by Onondaga Reservoir. Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	591	400	11...	208	250	21...	703	140
2....	469	370	12...	189	210	22...	1,580	140
3....	260	450	13...	180	170	23...	1,800	130
4....	517	400	14...	176	250	24...	1,400	130
5....	608	310	15...	350	320	25...	1,200	160
6....	383	270	16...	1,040	250	26...	1,000	170
7....	253	250	17...	836	220	27...	800	150
8....	234	270	18...	738	200	28...	600	138
9....	313	240	19...	565	180	29...	450	126
10...	248	270	20...	307	160	30...	500	120
						31...		116
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							617	225
RUNOFF, IN INCHES.....							6.31	2.37

GAGE HEIGHT*, IN FEET, AND CONTENTS, IN ACRE-FEET, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	CONTENTS	DATE	TIME	GAGE HEIGHT	CONTENTS	DATE	TIME	GAGE HEIGHT	CONTENTS
6-14	0200	61.51	7.5	6-22	2400	72.60	1,320				
6-14	0200	61.51	7.5					7-03	1800	63.03	31
6-14	2400	61.39	7.0					7-03	2400	63.31	36
				6-23	2400	79.15	3,250				
6-15	2000	61.38	6.8					7-04	1500	63.60	42
6-15	2400	61.93	9.6	6-24	2100	80.43	3,670	7-04	2400	63.53	41
				6-24	2400	80.40	3,660				
6-16	0100	62.22	14					7-05	0100	63.52	40
6-16	0300	63.15	33	6-25	0100	80.38	3,650	7-05	2400	63.09	32
6-16	0500	64.90	77	6-25	2400	78.89	3,160				
6-16	0700	66.52	182								
6-16	2200	72.95	1,410					7-06	0100	63.07	31
6-16	2400	73.28	1,500	6-26	0100	78.78	3,130	7-06	2400	62.71	24
				6-26	2400	75.73	2,190				
6-17	1400	74.04	1,710					7-07	0100	62.70	24
6-17	2400	73.77	1,640	6-27	0100	75.59	2,150	7-07	2400	62.46	19
				6-27	2400	72.14	1,200				
6-18	0100	73.70	1,620					7-08	0200	62.45	19
6-18	2400	70.45	799	6-28	0100	71.98	1,160	7-08	2400	62.34	17
				6-28	2400	67.75	319				
6-19	0100	70.26	757					7-09	0100	62.33	17
6-19	1800	66.02	137	6-29	0100	67.53	291	7-09	2400	62.15	13
6-19	2100	64.90	77	6-29	0900	65.52	109				
6-19	2400	64.15	55	6-29	1300	64.61	68				
				6-29	2100	63.62	42	7-10	2400	62.14	13
				6-29	2400	63.42	38				
6-20	0100	63.97	49								
6-20	1000	63.12	32					7-11	1800	62.14	13
6-20	2400	62.55	21	6-30	1100	63.51	40	7-11	2400	62.12	12
				6-30	2400	64.11	53				
6-21	1100	62.38	18					7-12	0100	62.12	12
6-21	1900	62.96	29	7-01	1500	64.26	58	7-12	2400	62.00	10
6-21	2400	64.15	55	7-01	2400	64.10	53				
								7-13	0100	61.99	10
6-22	0300	65.23	93	7-02	0100	64.07	52	7-13	2400	61.90	9.5
6-22	0700	66.85	212	7-02	2400	63.24	35				
6-22	1600	70.18	740								

*NOTE.--Add 400 feet to obtain elevations above mean sea level.

(973) 04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, N.Y.

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, on left bank 550 ft upstream from bridge on Dorwin Avenue, at Syracuse, and 4 miles downstream from Onondaga Reservoir.

DRAINAGE AREA.--88.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 413.59 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 1,400 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 3,200 cfs 0100 hours June 23 (gage height, 6.12 ft). 1952 to May 1972: Discharge, 2,130 cfs Mar. 31, 1960 (gage height, 5.06 ft); gage height, 5.11 ft Feb. 25, 1961.

REMARKS.--High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	672	382	11...	164	201	21...	535	98
2....	498	266	12...	143	156	22...	1,250	94
3....	223	289	13...	137	137	23...	1,510	91
4....	648	351	14...	132	149	24...	1,180	84
5....	705	243	15...	225	239	25...	1,080	106
6....	369	207	16...	1,020	188	26...	957	131
7....	215	191	17...	852	156	27...	826	103
8....	180	194	18...	732	123	28...	665	82
9....	263	175	19...	506	108	29...	370	71
10...	207	195	20...	219	102	30...	407	65
						31...		60
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							563	162
RUNOFF,IN INCHES.....							7.35	2.19

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-14	0030	3.13	178	6-20	0400	3.77	337	6-23	0530	7.75	2,800
6-14	1715	3.13	178	6-20	2400	3.48	260	6-23	0600	7.58	2,500
6-14	2400	3.08	167					6-23	0700	7.32	2,200
								6-23	0800	7.10	2,000
				6-21	0645	3.47	258	6-23	0930	6.88	1,700
6-15	1745	3.05	161	6-21	0745	3.65	305	6-23	1030	6.75	1,600
6-15	1800	3.68	313	6-21	0815	4.33	499	6-23	2400	6.85	1,500
6-15	1830	6.84	1,750	6-21	0900	5.52	902				
6-15	1845	7.10	2,090	6-21	1015	5.12	762				
6-15	1930	6.44	1,340	6-21	1130	5.83	1,010	6-24	1200	6.86	1,400
6-15	2000	6.36	1,280	6-21	1245	5.68	958	6-24	2400	6.90	1,300
6-15	2015	6.81	1,720	6-21	1400	5.45	878				
6-15	2045	6.47	1,360	6-21	1530	5.04	734				
6-15	2130	5.51	899	6-21	1900	5.23	801	6-25	1500	7.12	1,200
6-15	2330	5.87	1,020	6-21	1915	5.90	1,040	6-25	2400	7.15	1,100
6-15	2400	6.53	1,410	6-21	2000	7.58	2,790				
				6-21	2130	6.28	1,230				
				6-21	2245	6.10	1,120	6-26	1400	7.27	980
6-16	0130	7.32	2,400	6-21	2345	6.68	1,580	6-26	2400	7.28	900
6-16	0545	6.23	1,190	6-21	2400	6.83	1,740				
6-16	1330	5.57	920								
6-16	2400	5.42	867					6-27	0900	7.34	820
				6-22	0130	7.23	2,270	6-27	1700	7.34	760
				6-22	0315	7.29	2,360	6-27	2400	7.30	710
6-17	0030	5.43	871	6-22	0515	6.71	1,610				
6-17	2400	5.19	787	6-22	0630	7.18	2,200				
				6-22	1015	6.61	1,500				
				6-22	1430	6.73	1,630	6-28	0630	7.27	650
6-18	0100	5.18	783	6-22	1800	6.38	1,300	6-28	1400	7.28	580
6-18	2400	4.87	675	6-22	2130	6.59	1,480	6-28	2400	7.14	520
				6-22	2245	6.93	1,860				
				6-22	2315	7.55	2,740				
6-19	0030	4.87	675	6-22	2400	7.25	2,300	6-29	0700	7.05	480
6-19	2400	3.98	394					6-29	1600	6.92	430
								6-29	2400	6.84	400
				6-23	0130	7.13	2,130				
6-20	0145	3.87	364	6-23	0330	8.09	3,400				
6-20	0215	4.27	481	6-23	0500	7.92	3,200				

(975) 04240100 HARBOR BROOK AT SYRACUSE, N.Y.

LOCATION.--Lat 43°02'08", long 76°11'17", Onondaga County, on right bank 145 ft downstream from bridge on Velasko Road at Syracuse, and about 3 miles upstream from mouth.

DRAINAGE AREA.--9.63 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 394.79 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 180 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 458 cfs 0030 hours June 23 (gage height, 7.45 ft). 1960 to May 1972: Discharge, 374 cfs May 19, 1969 (gage height, 7.13 ft).

REMARKS.--Flow includes some sewage and storm sewer inflow, some originating outside the basin.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	19	26	11...	9.0	15	21...	112	9.2
2....	12	21	12...	9.0	12	22...	136	8.9
3....	11	31	13...	8.8	11	23...	139	12
4....	12	21	14...	8.5	11	24...	59	8.6
5....	10	18	15...	42	14	25...	49	11
6....	10	16	16...	41	11	26...	38	8.3
7....	9.5	15	17...	17	10	27...	32	8.0
8....	11	14	18...	15	9.8	28...	27	7.4
9....	11	13	19...	15	9.5	29...	23	7.1
10...	9.3	23	20...	15	9.2	30...	55	6.8
						31...		7.1
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							32	13
RUNOFF,IN INCHES.....							3.73	1.56

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-14	0030	4.33	8.7					6-23	1530	5.73	80
6-14	0945	4.33	8.7	6-21	0545	4.55	15	6-23	1615	6.29	166
6-14	2400	4.32	8.5	6-21	0645	4.63	18	6-23	2400	5.79	89
				6-21	0745	5.57	76				
				6-21	0815	5.54	73				
6-15	1645	4.31	8.2	6-21	0845	5.32	55	6-24	0015	5.79	89
6-15	1700	4.36	9.5	6-21	0900	5.30	53	6-24	0945	5.55	59
6-15	1715	5.69	88	6-21	0930	5.56	75	6-24	2400	5.45	49
6-15	1745	6.31	174	6-21	1000	6.01	127				
6-15	1830	5.78	98	6-21	1130	6.60	228				
6-15	1845	5.91	113	6-21	1300	7.09	347	6-25	0615	5.50	53
6-15	1915	6.57	222	6-21	1415	7.15	365	6-25	1645	5.43	47
6-15	2015	6.50	208	6-21	1500	7.00	320	6-25	2400	5.38	43
6-15	2045	6.80	270	6-21	1700	6.18	153				
6-15	2100	6.78	266	6-21	1800	6.02	129				
6-15	2315	6.49	206	6-21	1815	6.09	139	6-26	0115	5.38	43
6-15	2400	6.33	177	6-21	1900	6.71	250	6-26	2400	5.27	34
				6-21	2345	6.66	240				
				6-21	2400	6.61	230				
6-16	0015	6.25	164					6-27	0130	5.27	34
6-16	0430	5.50	69					6-27	2400	5.20	29
6-16	0800	5.08	39	6-22	0315	6.08	131				
6-16	1500	4.81	25	6-22	0430	5.99	117				
6-16	2400	4.68	19	6-22	0530	6.30	168	6-28	0100	5.20	29
				6-22	0815	6.40	188	6-28	2400	5.14	25
				6-22	1500	5.59	63				
6-17	0045	4.68	19	6-22	1645	5.54	57				
6-17	2400	4.58	16	6-22	1800	5.55	59	6-29	0100	5.14	25
				6-22	1900	5.67	72	6-29	2400	5.09	21
				6-22	2030	5.96	112				
6-18	1130	4.58	16	6-22	2145	6.41	190				
6-18	2400	4.57	15	6-22	2300	7.05	335	6-30	0115	5.11	23
				6-22	2315	7.03	329	6-30	0130	5.27	34
				6-22	2330	7.25	395	6-30	0200	5.37	42
6-19	0945	4.58	16	6-22	2400	7.32	416	6-30	0315	6.02	121
6-19	2400	4.56	15					6-30	0445	6.14	140
								6-30	0530	6.08	131
				6-23	0030	7.45	458	6-30	0730	5.83	94
6-20	0130	4.63	18	6-23	0200	7.29	407	6-30	1215	5.43	47
6-20	0200	4.60	17	6-23	0400	6.48	204	6-30	1930	5.28	35
6-20	2045	4.54	14	6-23	0645	5.99	117	6-30	2400	5.23	31
6-20	2400	4.54	14	6-23	1215	5.65	70				
				6-23	1430	5.64	69				

(976) 04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, N.Y.

LOCATION.--Lat 43°03'22", long 76°11'07", Onondaga County, on left bank, 250 feet downstream from culvert on Hiawatha Boulevard, in Syracuse, 3,000 feet upstream from mouth.

DRAINAGE AREA.--11.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage-recorder graph. Datum of gage is 365.86 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 160 cfs and extended on the basis of step-backwater computation.

MAXIMUMS.--June-July 1972: Discharge, 474 cfs 2000 hours June 21 (gage height, 6.55 ft).
1971 to May 1972: Discharge, 410 cfs July 24, 1971 (gage height, 6.17 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	28	60	11...	14	24	21...	230	16
2....	18	45	12...	14	21	22...	206	16
3....	16	54	13...	15	21	23...	183	22
4....	17	40	14...	15	21	24...	72	15
5....	16	32	15...	109	26	25...	56	21
6....	16	30	16...	54	21	26...	50	15
7....	16	28	17...	20	19	27...	54	14
8....	19	27	18...	18	18	28...	62	14
9....	18	26	19...	18	18	29...	80	13
10...	15	43	20...	18	16	30...	90	13
						31...		13
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							52	25
RUNOFF,IN INCHES.....							5.12	2.51

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0200	3.05	87					6-24	0100	8.06	885
6-15	1500	3.02	84					6-24	2400	7.18	686
6-15	1600	3.43	116	6-20	0100	4.62	245				
6-15	1700	4.04	176	6-20	2400	4.35	212				
6-15	1900	5.77	409					6-25	0100	7.15	680
6-15	2000	5.80	414					6-25	2400	6.47	544
6-15	2400	5.54	370	6-21	0900	4.36	213				
				6-21	1500	5.75	406				
				6-21	1900	5.45	357	6-26	0100	6.44	538
6-16	1800	5.71	399	6-21	2200	6.26	502	6-26	2400	5.84	421
6-16	2400	5.66	390	6-21	2400	6.16	482				
								6-27	0100	5.81	418
6-17	0100	5.64	387	6-22	0800	6.43	536	6-27	2400	5.34	342
6-17	2400	5.28	332	6-22	1300	6.74	598				
				6-22	2200	6.86	622				
				6-22	2400	7.48	746	6-28	0100	5.33	341
6-18	0100	5.26	329					6-28	2400	4.92	285
6-18	2400	4.93	285								
				6-23	0300	8.65	1,030				
				6-23	2400	8.10	895	6-29	0100	4.91	284
6-19	0100	4.92	284					6-29	2400	4.56	238
6-19	2400	4.62	245								

(978) 04240200 NINEMILE CREEK AT CAMILLUS, N.Y.

LOCATION.--Lat 43°02'21", long 76°18'30", Onondaga County, on right bank 150 ft downstream from bridge on State Highway 5 (Main Street) in Camillus, 7.2 miles upstream from Onondaga Lake.

DRAINAGE AREA.--84.3 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 398.56 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,930 cfs 0700 hours June 23 (gage height, 8.73 ft).
1959 to May 1972: Discharge, 2,760 cfs Mar. 30, 1960 (gage height, 8.25 ft).

REMARKS.--Flow regulated by Otisco Lake.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	200	451	11...	186	192	21...	914	137
2....	181	368	12...	170	162	22...	1,460	110
3....	158	367	13...	159	165	23...	1,660	110
4....	260	381	14...	152	164	24...	1,300	105
5....	258	312	15...	178	194	25...	973	124
6....	281	279	16...	929	219	26...	821	130
7....	250	250	17...	585	171	27...	630	99
8....	222	185	18...	469	153	28...	522	109
9....	245	166	19...	403	146	29...	447	106
10...	212	201	20...	342	141	30...	519	103
						31...		102
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND.....							503	190
RUNOFF,IN INCHES.....							6.66	2.60

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0200	4.12	367					6-26	0100	6.18	887
6-20	0100	4.12	367					6-26	2400	5.60	692
6-20	2400	3.80	315	6-23	0700	8.73	1,930				
				6-23	0800	8.72	1,920				
				6-23	2400	7.94	1,500	6-27	0100	5.59	689
6-21	0800	3.97	341					6-27	2400	5.11	568
6-21	1100	4.71	477								
6-21	1400	5.88	814	6-24	0100	7.93	1,500				
6-21	1900	7.75	1,410	6-24	2400	6.86	1,080	6-28	0100	5.10	565
6-21	2400	7.98	1,520					6-28	2400	4.72	479
				6-25	0100	6.82	1,070				
6-22	1400	8.02	1,540	6-25	2400	6.20	892	6-29	0100	4.70	475
6-22	2100	7.55	1,330					6-29	2400	4.41	419
6-22	2400	7.63	1,360								

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0030	1.47	14	6-21	0800	4.60	190	6-23	0700	5.20	266
6-15	1530	1.58	15	6-21	0900	4.40	168	6-23	0730	4.85	220
6-15	1545	3.01	61	6-21	0930	4.70	202	6-23	0800	4.60	190
6-15	1600	5.06	248	6-21	1000	5.10	253	6-23	0830	4.40	168
6-15	1615	5.47	306	6-21	1130	5.30	280	6-23	0900	4.10	138
6-15	1745	5.35	288	6-21	1200	5.77	350	6-23	0930	3.90	118
6-15	1815	5.65	333	6-21	1730	5.60	325	6-23	1000	3.80	110
6-15	2030	5.00	240	6-21	1900	6.00	385	6-23	1100	3.60	96
6-15	2300	5.31	282	6-21	2000	6.55	474	6-23	1200	3.47	87
6-15	2400	5.01	241	6-21	2030	6.30	431	6-23	1400	3.30	77
				6-21	2130	6.00	385	6-23	1600	3.50	89
				6-21	2400	5.83	360	6-23	1630	4.40	168
6-16	0015	4.93	227					6-23	1800	4.20	148
6-16	0345	3.53	91					6-23	2000	4.08	136
6-16	0700	2.84	53	6-22	0130	5.60	325	6-23	2200	3.88	116
6-16	1330	2.24	29	6-22	0300	5.30	280	6-23	2400	3.67	101
6-16	2400	1.89	21	6-22	0330	5.10	253				
				6-22	0400	4.90	227				
				6-22	0500	5.10	253	6-24	0130	3.50	89
6-17	0945	1.91	21	6-22	0630	5.28	277	6-24	0300	3.38	82
6-17	2400	1.69	17	6-22	0800	5.10	253	6-24	0630	3.25	74
				6-22	1000	4.90	227	6-24	2400	3.17	69
				6-22	1130	4.70	202				
6-18	1015	1.75	18	6-22	1200	4.60	190				
6-18	2400	1.66	17	6-22	1230	4.40	168	6-25	0400	3.32	60
				6-22	1330	4.20	148	6-25	1300	3.50	56
				6-22	1400	4.10	138	6-25	2400	3.42	52
6-19	1445	1.72	18	6-22	1430	3.95	123				
6-19	2300	1.65	17	6-22	1500	3.80	110				
6-19	2400	2.05	24	6-22	1600	3.60	96	6-26	1200	3.53	50
				6-22	2000	3.85	115	6-26	2400	3.57	50
				6-22	2030	4.00	128				
6-20	0015	2.07	25	6-22	2100	4.25	153				
6-20	0245	1.70	18	6-22	2200	4.50	178	6-27	1200	3.64	54
6-20	2400	1.61	16	6-22	2230	5.30	280	6-27	2400	3.62	58
				6-22	2400	5.25	273				
6-21	0400	1.72	18								
6-21	0430	2.08	25	6-23	0100	5.45	302				
6-21	0500	2.19	28	6-23	0200	5.70	340				
6-21	0530	3.39	82	6-23	0330	6.00	385				
6-21	0600	1.72	18	6-23	0600	5.70	340				
6-21	0630	2.12	26	6-23	0630	5.50	310				
6-21	0700	2.30	31								
6-21	0730	3.50	89								

(977) 04240180 NINEMILE CREEK NEAR MARIETTA, N.Y.

LOCATION.--Lat 42°55'15", long 76°19'47", Onondaga County, on right bank 25 ft upstream from bridge on Schuyler road, 0.9 mile north of Marietta, and 1.8 miles downstream from Otisco Lake.

DRAINAGE AREA.--45.5 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Altitude of gage is 760 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 1,030 cfs 0300 hours June 23 (gage height, 8.65 ft). 1965 to May 1972: Discharge, 343 cfs Apr. 14, 1971 (gage height, 5.36 ft).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	75	216	11...	115	62	21...	340	48
2....	80	188	12...	104	59	22...	623	33
3....	79	177	13...	95	59	23...	931	33
4....	148	167	14...	90	63	24...	762	27
5....	176	152	15...	168	69	25...	597	17
6....	186	138	16...	377	63	26...	464	16
7....	161	106	17...	359	59	27...	371	29
8....	147	69	18...	308	59	28...	306	34
9....	149	65	19...	263	59	29...	258	34
10...	127	66	20...	227	58	30...	245	34
						31...		34
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							278	74
RUNOFF, IN INCHES							6.81	1.87

(979) 04240300 NINEMILE CREEK AT LAKELAND, N.Y.

LOCATION.--Lat 43°04'51", long 76°13'36", Onondaga County, on left bank 25 ft downstream from bridge on State Highway 48, 0.6 mile downstream from Geddes Brook, and 0.7 mile upstream from mouth.

DRAINAGE AREA.--115 sq mi.

GAGE-HEIGHT RECORD.--Water-stage-recorder graph except 1200 hours June 16 to 1600 hours June 21. Altitude of gage is 375 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements. Discharge June 16-21 estimated on basis of weather records and record for Ninemile Creek at Camillus, N.Y.

MAXIMUMS.--June-July 1972: Discharge, 2,290 cfs 1600 hours June 23 (gage height, 8.58 ft). 1971 to May 1972: Maximum daily discharge, 1,600 cfs Mar. 16, 1971; maximum gage height, 7.12 ft Mar. 19, 1971 (backwater from Onondaga Lake), but may have been higher during period of no gage-height record Mar. 1-17, 1971.

REMARKS.--Flow regulated by Otisco Lake.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	368	600	11...	318	330	21...	1,300	210
2....	344	500	12...	292	270	22...	1,810	170
3....	296	500	13...	282	270	23...	2,110	150
4....	366	520	14...	270	270	24...	1,500	150
5....	390	450	15...	318	340	25...	1,200	190
6....	395	400	16...	1,000	390	26...	980	200
7....	368	380	17...	800	280	27...	840	140
8....	344	300	18...	640	260	28...	700	160
9....	380	270	19...	540	240	29...	580	150
10...	356	350	20...	500	220	30...	700	150
						31...		140
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							676	289
RUNOFF, IN INCHES							6.56	2.90

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0100	3.30	260	6-21	0600	3.94	390	6-25	1000	8.15	1,200
6-15	1700	3.75	350	6-21	0900	4.14	440	6-25	1900	8.22	1,100
6-15	2000	4.06	420	6-21	1100	4.40	500	6-25	2400	8.24	1,100
6-15	2200	4.32	485	6-21	1200	4.60	560				
6-15	2300	4.52	535	6-21	1300	4.85	620				
6-15	2400	4.60	555	6-21	1400	5.20	730	6-26	1200	8.35	980
				6-21	1500	5.50	820	6-26	2400	8.39	900
				6-21	1630	5.80	920				
6-16	0200	4.80	610	6-21	1800	5.95	980				
6-16	0300	5.00	670	6-21	1900	6.20	1,080	6-27	1500	8.48	820
6-16	0500	5.30	760	6-21	2100	6.50	1,200	6-27	2400	8.45	770
6-16	0700	5.70	880	6-21	2230	6.80	1,320				
6-16	0800	5.90	960	6-21	2400	7.00	1,400				
6-16	1000	6.20	1,080					6-28	1200	8.47	700
6-16	1200	6.32	1,130					6-28	2400	8.41	630
6-16	1900	6.10	1,000	6-22	0200	7.30	1,530				
6-16	2400	5.85	940	6-22	0400	7.55	1,670				
				6-22	0700	7.85	1,850	6-29	1700	8.28	580
				6-22	0900	8.04	1,960	6-29	2400	8.21	560
6-17	0600	5.60	850	6-22	2400	7.85	1,850				
6-17	1600	5.30	760								
6-17	2400	5.15	720								
				6-23	0800	8.10	2,000				
				6-23	1200	8.50	2,240				
6-18	1200	4.90	640	6-23	1600	8.58	2,290				
6-18	2400	4.70	580	6-23	2400	8.40	2,180				
6-19	1700	4.50	530	6-24	0200	8.33	1,900				
6-19	2400	4.45	520	6-24	0230	8.32	1,800				
				6-24	0700	8.30	1,600				
				6-24	1500	8.22	1,400				
6-20	1600	4.26	470	6-24	2400	8.15	1,300				
6-20	2400	4.06	420								

(980) 04240495 ONONDAGA LAKE AT LIVERPOOL, N.Y.

LOCATION.--Lat 43°06'01", long 76°12'34", Onondaga County, on north shore of Onondaga Lake at Onondaga Park Marina basin, 200 ft southwest of Onondaga Lake Parkway, 1.9 miles upstream from outlet of lake.

DRAINAGE AREA.--285 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is at mean sea level (Barge Canal datum is at 0.99 ft).

MAXIMUMS.--June-July 1972: Maximum elevation, 369.21 ft 1600 hours June 30.
1971 to May 1972: Maximum elevation, 367.44 ft Mar. 19, 1971.

DAILY ELEVATION, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	363.23	369.14	11...	363.06	367.06	21...	363.91	365.03
2....	363.11	368.93	12...	362.97	366.79	22...	365.45	364.75
3....	363.07	368.77	13...	362.86	366.56	23...	366.79	364.71
4....	363.14	368.74	14...	362.79	366.45	24...	367.80	364.71
5....	363.28	368.56	15...	362.97	366.33	25...	368.42	364.70
6....	363.39	368.34	16...	363.64	366.25	26...	368.85	364.62
7....	363.14	368.09	17...	363.93	366.14	27...	369.08	364.50
8....	363.04	367.81	18...	363.87	365.97	28...	369.13	364.31
9....	363.18	367.50	19...	363.77	365.73	29...	369.05	364.05
10...	363.17	367.25	20...	363.54	365.47	30...	369.14	363.86
						31...		363.59

(981) 04242500 EAST BRANCH FISH CREEK AT TABERG, N.Y.

LOCATION.--Lat 43°18'06", long 75°37'09", Oneida County, on left bank at downstream side of bridge on Main Street at Taberg, just downstream from Furnace Creek, 300 ft upstream from bridge on State Highway 69, 2.8 miles upstream from confluence of East and West Branches near Blossvale.

DRAINAGE AREA.--188 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 490.12 ft above mean sea level. Prior to May 20, 1969, at datum 1.00 ft higher.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 8,800 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 14,500 cfs 0730 hours June 22 (gage height, 11.71 ft).
1924 to May 1972: Discharge, 13,600 cfs Oct. 2, 1945 (gage height, 10.90 ft, datum then in use).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	1,140	1,100	11...	445	604	21...	2,320	207
2....	1,030	652	12...	315	450	22...	10,900	195
3....	573	598	13...	259	320	23...	3,910	556
4....	486	882	14...	226	352	24...	2,110	1,120
5....	412	556	15...	566	372	25...	1,330	592
6....	286	430	16...	2,180	500	26...	1,010	677
7....	218	356	17...	906	440	27...	691	500
8....	335	313	18...	456	306	28...	530	328
9....	1,630	289	19...	365	243	29...	430	252
10...	866	320	20...	365	219	30...	684	207
						31...		173
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							1,230	455
RUNOFF,IN INCHES							7.31	2.79

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.05	320	6-22	2400	6.96	5,890				
6-20	1800	2.20	395					6-26	0030	3.66	1,220
6-20	2400	2.16	375					6-26	2400	3.21	818
				6-23	0030	6.85	5,580				
				6-23	1300	5.43	3,450				
6-21	0800	2.20	395	6-23	2400	5.10	2,950	6-27	0030	3.20	810
6-21	1000	2.61	658					6-27	2400	2.87	592
6-21	1430	4.29	2,250								
6-21	2100	6.32	4,930	6-24	0030	5.08	2,920				
6-21	2230	8.00	7,550	6-24	2400	3.96	1,520	6-28	0100	2.86	586
6-21	2400	9.77	10,600					6-28	2400	2.64	470
				6-25	0030	3.94	1,500				
6-22	0730	11.71	14,500	6-25	2100	3.72	1,280	6-29	0100	2.64	470
6-22	0800	11.63	14,400	6-25	2400	3.67	1,230	6-29	2400	2.47	388
6-22	1730	8.64	8,670								

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	660	615	11...	164	284	21...	630	99
2....	308	328	12...	142	179	22...	2,680	95
3....	200	415	13...	133	158	23...	2,310	97
4....	824	415	14...	126	161	24...	1,040	93
5....	730	259	15...	545	233	25...	700	111
6....	300	224	16...	1,440	158	26...	545	116
7....	239	203	17...	590	142	27...	384	88
8....	203	200	18...	292	121	28...	316	81
9....	300	209	19...	236	111	29...	266	75
10...	206	300	20...	206	106	30...	650	71
						31...		67
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							579	188
RUNOFF,IN INCHES							7.55	2.53

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-20	0100	2.28	209	6-22	2100	5.78	2,280	6-25	0030	3.61	806
6-20	0130	2.31	218	6-22	2330	6.61	2,950	6-25	2400	3.26	630
6-20	2400	2.19	182	6-22	2400	7.11	3,400				
								6-26	0030	3.26	630
6-21	0830	2.27	206	6-23	0100	7.56	3,800	6-26	2400	2.87	435
6-21	1730	2.54	296	6-23	0230	7.31	3,580				
6-21	1800	2.62	328	6-23	0700	5.81	2,310				
6-21	1900	3.08	540	6-23	1330	5.61	2,150	6-27	0130	2.85	425
6-21	1930	3.52	760	6-23	1900	5.05	1,750	6-27	2400	2.65	340
6-21	2200	6.24	2,650	6-23	2400	4.54	1,390				
6-21	2300	6.69	3,020								
6-21	2330	6.50	2,860					6-28	0030	2.65	340
6-21	2400	6.30	2,700	6-24	0030	4.48	1,350	6-28	2400	2.50	280
				6-24	1930	3.76	896				
				6-24	2400	3.62	812				
6-22	0630	5.70	2,220					6-29	0030	2.50	280
6-22	1030	7.13	3,420					6-29	2400	2.41	249

(984) 04245200 BUTTERNUT CREEK NEAR JAMESVILLE, N.Y.

LOCATION.--Lat 42°56'02", long 76°03'44", Onondaga County, on left bank 15 ft downstream from bridge on Walberger Road, 125 ft downstream from tributary from Stebbins Gulf, 2.2 miles upstream from Jamesville Reservoir, and 4 miles south of Jamesville.

DRAINAGE AREA.--32.2 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 717.93 ft above mean sea level.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 740 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,120 cfs 1930 hours June 21 (gage height, 7.15 ft).
1959 to May 1972: Discharge, 1,260 cfs Mar. 5, 1964 (gage height, 6.29 ft), maximum gage height, 7.54 ft Mar. 2, 1972.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	263	144	11...	81	84	21...	206	30
2....	118	109	12...	75	64	22...	770	23
3....	102	155	13...	72	59	23...	655	22
4....	444	133	14...	68	84	24...	353	19
5....	195	102	15...	138	93	25...	233	46
6....	129	91	16...	444	64	26...	184	28
7....	109	90	17...	159	50	27...	149	19
8....	102	88	18...	111	39	28...	127	16
9....	129	73	19...	93	32	29...	113	14
10...	95	109	20...	79	30	30...	195	12
						31...		11
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							200	62
RUNOFF,IN INCHES							6.92	2.23

(982) 04243500 ONEIDA CREEK AT ONEIDA, N.Y.

LOCATION.--Lat 43°05'51", long 75°38'22", Madison County, on right bank 70 ft upstream from bridge on Sconondoa Street, at Oneida, and 500 ft downstream from Sconondoa Creek.

DRAINAGE AREA.--113 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals. Datum of gage is 409.33 ft above mean sea level (Corps of Engineers bench mark).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 9,260 cfs 0930 hours June 22 (gage height, 14.61 ft). 1950 to May 1972: Discharge, 7,440 cfs Mar. 28, 1950 (gage height 13.78 ft); gage height, 14.30 ft Jan. 22, 1959 (backwater from ice).

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	566	453	11...	179	248	21...	265	83
2....	260	298	12...	153	177	22...	3,800	77
3....	169	303	13...	145	147	23...	1,660	88
4....	860	308	14...	135	139	24...	833	118
5....	378	232	15...	313	155	25...	560	103
6....	230	204	16...	1,570	131	26...	435	96
7....	185	181	17...	470	121	27...	338	76
8....	171	171	18...	288	105	28...	283	67
9....	430	163	19...	232	92	29...	246	63
10...	234	263	20...	195	86	30...	581	58
						31...		58
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							539	157
RUNOFF,IN INCHES							5.32	1.60

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-21	0030	2.50	169					6-26	0015	3.91	508
6-21	1400	2.61	191	6-23	0600	9.74	2,380	6-26	2400	3.35	368
6-21	1800	2.85	244	6-23	0815	9.42	2,210				
6-21	2015	3.00	280	6-23	1600	6.78	1,210				
6-21	2215	4.22	596	6-23	2400	5.99	977	6-27	0030	3.35	368
6-21	2400	6.89	1,400					6-27	2400	3.07	298
				6-24	0015	5.98	1,090				
6-22	0415	10.64	3,190	6-24	0215	5.86	1,060	6-28	0030	3.07	298
6-22	0800	14.08	7,660	6-24	2400	4.35	605	6-28	2400	2.88	250
6-22	0930	14.61	9,260								
6-22	1045	14.33	8,210								
6-22	1930	9.69	2,530	6-25	0015	4.34	632	6-29	1230	2.90	255
6-22	2330	8.62	1,960	6-25	2400	3.92	510	6-29	2400	2.77	225
6-22	2400	8.72	2,010								

(983) 04245000 LIMESTONE CREEK AT FAYETTEVILLE, N.Y.

LOCATION.--Lat 43°01'48", long 76°00'49", Onondaga County, on left bank 100 ft downstream from bridge on Genesee Street at Fayetteville, and 8 miles upstream from mouth.

DRAINAGE AREA.--85.5 sq mi, not including 14.0 sq mi of Middle Branch Tioughnioga Creek basin, flow from which may be completely diverted into Limestone Creek basin through DeRuyter Reservoir, and 0.8 sq mi in closed basin.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 30-minute intervals. Datum of gage is 427.62 ft above mean sea level (levels by Corps of Engineers).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 3,500 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 3,800 cfs 0100 hours June 23 (gage height, 7.56 ft). 1940 to May 1972: Discharge, 7,010 cfs Mar. 28, 1950 (gage height, 7.78 ft), maximum gage height, 7.95 ft Mar. 5, 1964.

REMARKS.--Flow regulated by DeRuyter Reservoir.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-13	0100	4.88	73	6-18	0100	5.16	124				
6-13	0930	4.89	75	6-18	2400	5.03	100				
6-13	1600	4.87	72					6-24	0030	6.35	480
6-13	1700	4.80	59					6-24	2400	5.74	272
6-13	2100	4.86	70	6-19	0500	5.04	102				
6-13	2400	4.86	70	6-19	2400	4.95	86				
								6-25	0330	5.77	253
								6-25	0530	5.78	255
6-14	1230	4.87	72	6-20	0730	4.95	86	6-25	2400	5.61	213
6-14	2400	4.82	63	6-20	2400	4.86	70				
								6-26	0100	5.60	210
6-15	1700	4.79	57	6-21	0030	4.86	106	6-26	0300	5.57	203
6-15	1730	4.91	79	6-21	1330	5.00	131	6-26	0330	4.56	19
6-15	1800	5.28	145	6-21	1730	5.16	160	6-26	0400	5.55	199
6-15	1900	7.16	836	6-21	1800	5.42	215	6-26	2400	5.37	162
6-15	2000	7.25	890	6-21	1900	6.95	830				
6-15	2030	7.06	776	6-21	1930	7.15	1,120				
6-15	2100	6.29	416	6-21	2130	6.68	680	6-27	0100	5.38	164
6-15	2130	6.25	400	6-21	2400	6.73	705	6-27	2400	5.23	136
6-15	2230	6.39	456								
6-15	2300	6.38	452								
6-15	2330	7.13	818	6-22	0100	6.88	938	6-28	0200	5.23	136
6-15	2400	7.11	806	6-22	0800	6.65	800	6-28	2400	5.12	117
				6-22	1930	6.42	675				
				6-22	2100	6.51	720				
6-16	0100	7.40	980	6-22	2130	6.26	595	6-29	0900	5.13	118
6-16	0130	7.33	938	6-22	2200	6.49	710	6-29	2400	5.07	108
6-16	0730	6.65	565	6-22	2230	7.05	1,050				
6-16	1430	6.04	332	6-22	2330	6.69	824				
6-16	2400	5.59	208	6-22	2400	6.68	818	6-30	0230	5.17	126
								6-30	0430	5.57	203
								6-30	0530	5.72	240
6-17	0030	5.57	203	6-23	0200	6.53	680	6-30	0600	5.70	235
6-17	2400	5.16	124	6-23	0530	6.56	695	6-30	1400	5.64	220
				6-23	0600	6.67	752	6-30	2400	5.41	170
				6-23	2400	6.35	590				

(985) 04245236 MEADOW BROOK AT HURLBURT ROAD, SYRACUSE, N.Y.

LOCATION.--Lat 43°02'30", long 76°06'02", Onondaga County, on right bank 170 ft downstream from culvert at intersection of Hurlburt Road and Meadowbrook Drive, 2.3 miles upstream from mouth on Butternut Creek.

DRAINAGE AREA.--2.90 sq mi

GAGE-HEIGHT RECORD.--Water-stage recorder graph. Altitude of gage is 525 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 52 cfs and extended on basis of step-backwater computation.

MAXIMUMS.--June-July 1972: Discharge, 156 cfs 1900 hours June 21 (gage height, 3.35 ft). 1971 to May 1972: Discharge, 179 cfs May 15, 1972 (gage height, 3.64 ft).

REMARKS.--Flow includes storm sewer inflow at times, some originating outside the basin.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	12	1.7	11...	.66	.61	21...	44	.71
2....	1.3	.90	12...	.61	.54	22...	37	.71
3....	.80	8.1	13...	.66	.56	23...	15	6.1
4....	1.5	.90	14...	.66	.89	24...	3.1	.66
5....	.80	.71	15...	27	5.8	25...	2.9	17
6....	.76	.54	16...	5.7	.71	26...	1.4	.61
7....	.76	.61	17...	1.0	.66	27...	1.0	.60
8....	1.8	.54	18...	.90	.76	28...	.85	.63
9....	3.4	.54	19...	.80	.71	29...	.66	.63
10...	.71	12	20...	1.0	.71	30...	15	.63
						31...		.63
MONTHLY MEAN DISCHARGE,IN CUBIC FEET PER SECOND							6.12	2.17
RUNOFF,IN INCHES							2.36	.86

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0100	.49	.66	6-20	0230	.70	3.1	6-22	0400	1.40	28
6-15	1730	.51	.76	6-20	0300	.62	1.7	6-22	0430	1.54	36
6-15	1800	3.07	144	6-20	0400	.55	1.0	6-22	0500	2.14	70
6-15	2000	3.30	152	6-20	0600	.52	.85	6-22	0700	2.00	63
6-15	2100	2.40	94	6-20	1200	.49	.71	6-22	0800	1.55	37
6-15	2200	1.85	62	6-20	2400	.48	.66	6-22	0900	1.37	27
6-15	2230	1.68	53					6-22	1000	1.25	21
6-15	2400	1.67	52					6-22	1200	1.10	14
				6-21	0530	.48	.66	6-22	1400	1.02	11
				6-21	0600	.59	.61	6-22	1700	1.15	16
6-16	0030	1.83	61	6-21	0700	.75	1.8	6-22	1830	1.40	28
6-16	0130	1.60	47	6-21	0730	1.48	34	6-22	1930	1.53	35
6-16	0230	1.25	27	6-21	0800	1.85	56	6-22	2100	1.87	56
6-16	0300	1.06	18	6-21	0900	1.73	48	6-22	2130	2.03	64
6-16	0330	1.00	16	6-21	1000	1.88	58	6-22	2200	2.45	89
6-16	0500	.83	7.8	6-21	1030	2.05	66	6-22	2300	2.25	77
6-16	0600	.77	4.7	6-21	1130	1.90	59	6-22	2400	1.70	45
6-16	0700	.74	3.9	6-21	1200	2.48	92				
6-16	0900	.70	2.9	6-21	1330	1.88	58				
6-16	1200	.65	1.9	6-21	1430	1.42	30	6-23	0100	1.37	27
6-16	1400	.63	1.7	6-21	1530	1.10	15	6-23	0300	1.09	14
6-16	1800	.61	1.5	6-21	1600	1.03	12	6-23	0500	.93	6.2
6-16	2400	.58	1.2	6-21	1700	.92	6.7	6-23	0600	.88	4.2
				6-21	1730	.88	4.7	6-23	0800	.82	11
				6-21	1800	2.00	63	6-23	1200	.72	5.7
6-17	1400	.55	1.0	6-21	1830	3.10	136	6-23	1430	.75	7.2
6-17	2400	.54	.95	6-21	1900	3.35	156	6-23	1500	.84	16
				6-21	1930	3.25	148	6-23	1600	1.12	29
				6-21	2000	2.85	116	6-23	1630	1.27	38
6-18	1200	.53	.90	6-21	2100	2.32	81	6-23	1700	1.18	32
6-18	2400	.52	.85	6-21	2230	1.90	58	6-23	1800	1.12	29
				6-21	2400	1.86	55	6-23	1930	.97	22
								6-23	2000	.87	18
6-19	1200	.51	.80					6-23	2100	.76	12
6-19	2400	.50	.76	6-22	0030	1.70	45	6-23	2400	.67	8.3
				6-22	0130	1.97	61				
				6-22	0230	1.80	52				
6-20	0100	.50	.76	6-22	0330	1.50	34				
6-20	0130	1.15	23								
6-20	0200	.90	11								

(986) 04245840 SCRIBA CREEK NEAR CONSTANTIA, N.Y.
(Crest-stage station; gaging station discontinued 1968)

LOCATION.--Lat 43°15'35", long 76°00'11", Oswego County, on right bank 8 ft upstream from road to Ingersol Road, and about 0.8 mile north of village of Constantia.

DRAINAGE AREA.--38.4 sq mi

GAGE-HEIGHT RECORD.--Crest stages only. Altitude of gage is 410 ft (from topographic map).

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements below 440 cfs and extended above by logarithmic plotting.

MAXIMUMS.--June-July 1972: Discharge, 1,200 cfs June 22 (gage height, 7.42 ft).
1966 to May 1972: Discharge, 870 cfs Apr. 14, 1971 (gage height, 6.45 ft).

(987) 04246000 ONEIDA LAKE AT BREWERTON, N.Y.

LOCATION.--Lat 43°14'24", long 76°08'30", Onondaga County, at west end of Oneida Lake, 100 ft west of bridge on U.S. Highway 11 at Brewerton.

DRAINAGE AREA.--1,382 sq mi, at dam at Caugndenoy.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 60-minute intervals. Datum of gage is 362.00 ft above mean sea level, Barge Canal datum.

MAXIMUMS.--June-July 1972: Maximum gage height, 11.84 ft 0200 hours June 26.
1952 to May 1972: Maximum daily gage height, 10.69 ft Apr. 7, 1960.

REMARKS.--Elevation of lake surface regulated by tainter-gate dam on Oneida River at Caughdenoy and gates on Oneida Canal and Erie (Barge) Canal. Lake volume below 369 ft elevation, 49,600 million cu ft. Area of water surface 79.8 sq mi; axes, 20.9 mi by 5.5 mi; shoreline length, 54.7 mi.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	8,200	32,200	11...	8,490	22,500	21...	12,500	13,400
2....	7,660	31,400	12...	8,170	21,500	22...	18,000	12,700
3....	6,180	30,800	13...	7,850	21,100	23...	23,100	12,000
4....	6,280	30,200	14...	7,200	20,700	24...	26,100	12,100
5....	6,780	29,500	15...	6,070	20,100	25...	29,900	12,300
6....	7,900	28,500	16...	8,680	19,700	26...	31,700	12,100
7....	8,340	27,300	17...	11,700	19,200	27...	32,300	12,000
8....	7,860	26,100	18...	11,500	18,700	28...	32,200	11,500
9....	8,670	24,300	19...	11,400	17,600	29...	31,900	10,900
10...	8,630	23,400	20...	11,300	16,300	30...	32,100	9,750
						31...		9,670
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND.....							14,600	19,700
RUNOFF, IN INCHES.....							3.20	4.45

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1972

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
6-15	0030	4.99	6,110	6-20	1030	6.86	11,500	7-02	2400	11.58	28,300
6-15	0115	4.44	4,710	6-20	1045	7.31	13,000				
6-15	0145	4.53	4,930	6-20	1130	6.59	10,700				
6-15	0215	4.99	6,110	6-20	2400	6.59	10,700	7-03	1645	11.58	28,300
6-15	0815	5.15	6,550					7-03	2400	11.55	28,200
6-15	0900	5.29	6,940								
6-15	1000	5.12	6,470	6-21	1530	7.31	13,000				
6-15	1100	4.32	4,420	6-21	2400	8.05	15,400	7-04	0130	11.55	28,200
6-15	1145	4.71	5,380					7-04	2400	11.39	27,600
6-15	1215	4.72	5,400								
6-15	1300	5.18	6,630	6-22	2400	9.43	20,300				
6-15	1445	5.11	6,440					7-05	0200	11.41	27,700
6-15	1500	3.11	1,880					7-05	2400	11.24	27,000
6-15	1515	3.76	3,150	6-23	0430	9.01	18,800				
6-15	1530	5.09	6,380	6-23	1800	9.69	21,200				
6-15	1615	4.60	5,100	6-23	2400	9.69	21,200	7-06	0045	11.24	27,000
6-15	1630	5.26	6,860					7-06	2400	11.02	26,200
6-15	1930	4.97	6,060								
6-15	2400	5.00	6,140	6-24	2400	9.83	21,700				
								7-07	0030	11.02	26,200
								7-07	2400	10.80	25,300
6-16	1100	5.54	7,640	6-25	0900	9.44	20,300				
6-16	1930	6.85	11,500	6-25	0915	11.30	27,200				
6-16	2130	6.20	9,530	6-25	2400	11.56	28,200	7-08	0145	10.80	25,300
6-16	2215	6.18	9,470					7-08	2400	10.48	24,100
6-16	2330	7.19	12,600								
6-16	2400	7.17	12,500	6-26	2400	11.75	29,000				
								7-09	0100	10.47	24,100
								7-09	2400	10.16	22,900
6-17	0015	7.15	12,500	6-27	0945	11.86	29,400				
6-17	2400	6.91	11,700	6-27	2400	11.83	29,300				
								7-10	1645	10.16	22,900
								7-10	2400	10.07	22,600
6-18	1215	6.55	10,600	6-28	1930	11.86	29,400				
6-18	1400	6.09	9,210	6-28	2400	11.80	29,200				
6-18	1945	7.24	12,700					7-11	0030	10.07	22,600
6-18	2030	7.63	14,000					7-11	2400	9.82	21,700
6-18	2400	7.05	12,100	6-29	1115	11.87	29,500				
				6-29	2400	11.70	28,800				
								7-12	0015	9.82	21,700
6-19	1445	6.46	10,300					7-12	2400	9.67	21,100
6-19	1715	6.54	10,500	6-30	2230	11.87	29,500				
6-19	2030	7.08	12,200	6-30	2400	11.86	29,400				
6-19	2100	6.88	11,600					7-13	1830	9.67	21,100
6-19	2400	6.95	11,800					7-13	2400	9.62	20,900
				7-01	0630	11.86	29,400				
				7-01	2400	11.75	29,000				
6-20	0845	6.79	11,300					7-14	0145	9.62	20,900
6-20	0900	5.98	8,890					7-14	2400	9.43	20,300
6-20	0930	6.88	11,600	7-02	0100	11.75	29,000				

DAILY GAGE HEIGHT, IN FEET, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	8.79	11.17	11...	9.11	9.75	21...	9.37	8.73
2....	8.96	11.09	12...	9.09	9.64	22...	10.05	8.76
3....	9.09	10.94	13...	9.01	9.48	23...	11.28	8.71
4....	9.19	10.84	14...	8.94	9.35	24...	11.61	8.79
5....	9.26	10.76	15...	8.88	9.23	25...	11.78	8.87
6....	9.27	10.58	16...	9.10	9.13	26...	11.80	8.82
7....	9.19	10.41	17...	9.26	9.05	27...	11.71	8.89
8....	9.20	10.22	18...	9.35	8.98	28...	11.59	8.89
9....	9.17	10.06	19...	9.38	8.84	29...	11.44	8.88
10...	9.13	9.88	20...	9.31	8.79	30...	11.34	8.88
						31...		8.86

(988) 04246500 ONEIDA RIVER AT CAUGHDENOY, N.Y.

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, on left bank at point of diversion to New York State Erie (Barge) Canal, 1.6 miles downstream from Oneida Lake, and 2.6 miles upstream from navigation dam at Caughdenoy.

DRAINAGE AREA.--1,382 sq mi; 1902-9, 1,439 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tapes punched at 60-minute intervals. (Auxiliary recorder 2.5 miles downstream from base gage, 350 ft upstream from navigation dam.) Datum of gage is 362.00 ft above mean sea level, Barge Canal datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 10,300 cfs 1300 hours June 27; daily discharge, 10,100 cfs June 25; gage height, 11.65 ft June 26.
1903-1912, 1948 to May 1972: Daily discharge, 13,800 cfs Mar. 25-27, 1903.

REMARKS.--Considerable seasonal regulation by operation of gates in Oneida and Erie (Barge) Canals. A large amount of natural storage by Oneida Lake.

MEAN DISCHARGE, IN CUBIC FEET PER SECOND, 1972

DAY	JUNE	JULY	DAY	JUNE	JULY	DAY	JUNE	JULY
1....	2,130	8,940	11...	4,750	6,910	21...	5,930	1,850
2....	2,330	8,860	12...	4,710	6,740	22...	7,190	1,840
3....	2,210	8,640	13...	4,660	6,480	23...	9,520	1,720
4....	2,320	8,490	14...	4,100	6,270	24...	9,940	1,760
5....	3,020	8,420	15...	3,620	6,030	25...	10,100	1,740
6....	3,670	8,160	16...	4,360	5,900	26...	10,000	2,030
7....	3,650	7,930	17...	5,160	5,760	27...	9,850	2,180
8....	4,250	7,680	18...	5,230	4,960	28...	9,620	2,170
9....	4,770	7,430	19...	5,280	4,320	29...	9,400	2,190
10...	4,730	7,140	20...	5,580	2,940	30...	9,230	2,120
						31...		2,080
MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND							5,710	5,151
RUNOFF, IN INCHES							4.61	4.30

(989) 04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, N.Y.

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, on right bank at lock 7 in Oswego, 0.8 mile upstream from mouth.

DRAINAGE AREA.--5,098 sq mi.

GAGE-HEIGHT RECORD.--Digital-recorder tape punched at 15-minute intervals and water-stage recorder graph. Datum of gage is 246.00 ft above mean sea level, Barge Canal datum.

DISCHARGE RECORD.--Stage-discharge relation defined by current-meter measurements.

MAXIMUMS.--June-July 1972: Discharge, 29,500 cfs 1115 hours June 29, 2230 hours June 30 (gage height, 11.87 ft), does not include flow through canal or bypass gates.
1901-06, 1934 to May 1972: Discharge, 37,500 cfs Mar. 28, 1936 (gage height, 13.10 ft), includes mean daily discharge of canals; gage height, 13.46 ft Apr. 10, 1940.

REMARKS.--A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin.

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APPENDICES

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APPENDIX B, DATA SOURCES

TABLE A1.—Summary of flood stages and discharges

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Streams tributary to Long Island Sound									
1	01208900	Patterson Brook near Easton, Conn.	1.21	1960-72	1962	5.37	90	June 19	5.1	80	(1)
2	01208950	Sasco Brook near Southport, Conn.	7.27	1960-72	1968	4.15	340	June 19	7.00	1,640	(1)
3	01208990	Saugatuck River near Redding, Conn.	20.8	1962-72	1969	5.88	2,160	June 19	4.33	851	(1)
4	01209600	Comstock Brook at North Wilton, Conn.	3.53	1960-72	1971	3.91	250	June 19	3.13	130	(1)
5	01209700	Norwalk River at South Wilton, Conn.	30.0	1963-72	1971	4.37	1,700	June 19	4.79	2,220	(1)
				1956	1955	13.5	(1)				
6	01209770	Fivemile River near Norwalk, Conn.	8.96	1962-72	1962	5.10	1,070	June 19	6.09	1,600	(1)
7	01211700	East Branch Byram River at Round Hill, Conn.	1.69	1960-72	1968	3.50	184	June 19	4.19	245	(1)
8	01212100	East Branch Byram River at Riversville, Conn.	7.40	1963-72	1968	6.77	1,040	June 19	7.62	1,700	(1)
9	01299000	Blind Brook near Purchase, N.Y.	1.79	---	---	---	---	June 19	---	1,140	(1)
10	01299100	Blind Brook tributary at Purchase, N.Y.	1.04	---	---	---	---	June 19	---	119	(1)
11	01300000	Blind Brook at Rye, N.Y.	9.20	1944-72	1955	9.62	1,360	June 19	12.44	2,320	>100
12	01300450	Beaver Swamp Brook at Rye, N.Y.	1.64	---	---	---	---	June 19	---	135	(1)
13	01300500	Beaver Swamp Brook at Mamaroneck, N.Y.	4.71	1944-72	1962	3.09	167	June 19	3.06	197	>100
14	01300700	West Branch Mamaroneck River at White Plains, N.Y.	1.09	---	---	---	---	June 19	---	253	(1)
15	01300800	Mamaroneck River at Winfield Avenue, Mamaroneck, N.Y.	14.5	---	---	---	---	June 19	---	2,590	>100
16	01300900	Sheldrake River at Mamaroneck, N.Y.	5.55	---	---	---	---	June 19	---	372	(1)
17	01301000	Mamaroneck River at Mamaroneck, N.Y.	23.4	1944-53,	1971	6.68	2,260	June 19	9.71	4,740	>100
				1955-72	1944	[2]/8.23	---				
				1938	1938	[2]/11.9	(1)				
18	01301500	Hutchinson River at Pelham, N.Y.	5.76	1944-72	1971	5.18	526	June 19	4.53	257	3
19	01302000	Bronx River at Bronxville, N.Y.	26.5	1944-72	1969	7.31	1,580	June 19	9.63	2,500	>100
		Hudson River basin									
20	01376430	Run Brook at Elmsford, N.Y.	.93	---	---	---	---	June 19	---	331	(1)
21	01376500	Saw Mill River at Yonkers, N.Y.	25.6	1945-72	1955	5.34	890	June 20	5.55	636	15
		Delaware River basin									
22	01469500	Little Schuylkill River at Tamaqua, Pa.	42.9	1920-72	1955	11.10	7,790	June 22	7.64	3,800	12
23	01470500	Schuylkill River at Berne, Pa.	355	1948-72	1955	15.73	29,400	June 22	19.0	42,800	>100
24	01470720	Maiden Creek tributary at Lenhartsville, Pa.	7.46	1962-72	1965	[3]/6.7	---	June 22	6.44	1,530	70
					1971	5.09	800				
25	01470960	Tulpehocken Creek at Blue Marsh damsite, near Reading, Pa.	175	1966-72	1971	11.68	9,400	June 22	18.7	16,100	50
26	01471000	Tulpehocken Creek near Reading, Pa.	211	1951-72	1971	(1)	10,000	June 23	15.65	17,000	>100
27	01471800	Pine Creek near Manatawny, Pa.	15.6	1961-72	1969	9.2	809	June 22	9.25	812	2
28	01472000	Schuylkill River at Pottstown, Pa.	1,147	1902-72	1902	21.0	53,900	June 23	29.97	95,900	>100
29	01472157	French Creek near Phoenixville, Pa.	59.1	1969-72	1971	9.66	3,330	June 22	13.66	11,200	35
30	01472174	Pickering Creek near Chester Springs, Pa.	5.98	1967-72	1971	4.99	1,640	June 22	5.21	2,410	90
31	01472200	Green Lane Reservoir at Green Lane, Pa.	70.9	1956-72	1961	[4]/288.25	[5]/15,430	June 23	[4]/290.08	[5]/17,030	---
32	01473000	Perkiomen Creek at Graterford, Pa.	279	1915-72	1935	18.26	39,900	June 22	17.08	35,800	60
33	01473100	Zacharias Creek near Skippack, Pa.	7.27	1960-72	1971	10.8	10,000	June 22	9.76	5,860	>100
34	01473120	Skippack Creek near Collegeville, Pa.	53.7	1966-72	1971	22.5	40,400	June 22	10.48	5,240	4
35	01473880	Pine Run tributary at Fort Washington, Pa.	2.01	1962-72	1967	7.34	300	June 22	6.40	128	>2
36	01473900	Wissahickon Creek at Fort Washington, Pa.	40.8	1961-72	1971	13.32	4,250	June 22	10.50	2,670	>2
37	01473980	Wissahickon Creek at Livezey Lane, Philadelphia, Pa.	59.2	1965-72	1971	6.27	5,390	June 22	4.39	2,390	>2
38	01474000	Wissahickon Creek at mouth, Philadelphia, Pa.	64.0	1965-72	1967	6.45	4,310	June 22	---	2,380	>2
								June 23	[6]/6.02	---	
39	01474500	Schuylkill River at Philadelphia, Pa.	1,893	1869-1972	1869	17.0	135,000	June 23	14.65	103,000	30
40	01475300	Darby Creek near Waterloo Mills near Devon, Pa.	5.15	---	---	---	---	June 22	5.49	985	4
41	01475510	Darby Creek near Darby, Pa.	37.4	1964-72	1968	9.12	4,610	June 22	7.04	2,690	>2
42	01475530	Cobbs Creek at U.S. Highway No. 1 near Philadelphia, Pa.	4.78	1965-72	1971	6.97	1,040	June 22	5.12	306	>2
43	01475540	Cobbs Creek below Indian Creek near Upper Darby, Pa.	9.65	1965-72	1971	11.12	2,920	June 22	8.18	1,300	4
44	01475550	Cobbs Creek at Darby, Pa.	22.0	1964-72	1971	7.21	4,390	June 22	5.16	2,010	4
45	01475030	Little Crum Creek at Swathmore, Pa.	1.15	1971-72	1971	9.77	605	June 22	4.34	105	>2
46	01477000	Chester Creek near Chester, Pa.	61.1	1932-72	1971	24.59	21,300	June 22	13.28	6,180	6
47	01477800	Shellpot Creek at Wilmington, Del.	7.46	1940-72	1971	11.91	6,850	June 22	6.66	2,240	5
48	01478000	Christiana River at Coochs Bridge, Del.	20.5	1944-72	1947	12.41	2,620	June 22	11.35	3,320	17
49	01478200	Middle Branch White Clay Creek near Lasdenberg, Pa.	12.7	1960-72	1960	9.41	1,900	June 22	12.29	3,860	60
50	01478500	White Clay Creek above Newark, Del.	66.7	1953-59,	1967	9.97	4,540	June 22	13.77	10,200	>100
				1963-72							
51	01478950	Pike Creek near Newark, Del.	6.04	1969-72	1969	9.15	2,550	June 22	6.78	942	11
52	01479000	White Clay Creek near Newark, Del.	87.8	1932-36,	1967	16.41	6,640	June 22	17.74	9,080	>100
				1944-57,							
				1960-72							
				1937	1937	23	(1)				
53	01479200	Mill Creek at Hockessin, Del.	4.19	1966-72	1969	11.29	2,100	June 22	7.98	687	(1)
54	01479950	Red Clay Creek tributary near Yorklyn, Del.	.38	1966-72	1969	6.53	200	June 22	5.29	56	(1)
55	01480000	Red Clay Creek at Wooddale, Del.	47.0	1944-72	1960	9.93	4,780	June 22	8.96	4,120	25
56	01480100	Little Mill Creek at Elsmere, Del.	6.70	1964-72	1967	8.58	3,960	June 22	5.85	1,130	(1)
57	01480300	West Branch Brandywine Creek near Honey Brook, Pa.	18.7	1961-72	1960	8.60	1,870	June 22	11.41	8,160	>100
58	01480500	West Branch Brandywine Creek at Coatesville, Pa.	45.8	1942-72	1942	[6]/12.3	8,600	June 22	9.92	7,770	>100
59	01480610	Sucker Run near Coatesville, Pa.	2.57	1964-72	1970	5.78	590	June 22	6.96	926	>100
60	01480617	West Branch Brandywine Creek at Modena, Pa.	55.0	1970-72	1971	8.17	2,530	June 22	11.48	7,950	>100

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Delaware River basin--Continued									
61	01480675	Marsh Creek near Glenmoore, Pa.	8.57	1967-72	1971	3.73	884	June 22	4.68	946	9
62	01480680	Marsh Creek near Lyndell, Pa.	17.8	1960-72	1960	6.32	1,150	June 22	7.80	(1)	---
63	01480700	East Branch Brandywine Creek near Downingtown, Pa.	60.6	1966-72	1971	8.49	4,440	June 22	12.06	8,070	80
64	01481000	Brandywine Creek at Chadds Ford, Pa.	287	1912-72	1920	15.0	17,200	June 22	16.56	23,800	>100
65	01481200	Brandywine Creek tributary near Centerville, Del.	.97	1966-72	1971	9.35	405	June 22	5.92	170	(1)
66	01481450	Willow Run at Rockland, Del.	.37	1966-72	1971	12.70	620	June 30	8.26	263	(1)
67	01481500	Brandywine Creek at Wilmington, Del.	314	1947-72	1971	13.83	21,300	June 23	15.49	29,000	>100
68	01482310	Doll Run at Red Lion, Del.	1.2	1966-72	1971	4.71	140	June 22	5.59	215	(1)
69	01483200	Blackbird Creek at Blackbird, Del.	3.85	1952-72	1960	4.10	510	June 22	5.04	712	>100
		Smyrna River basin									
70	01483290	Paw Paw Branch tributary near Clayton, Del.	1.3	1966-72	1969	8.13	350	June 22	8.43	760	(1)
71	01483400	Saw Mill Branch tributary near Blackbird, Del.	.6	1966-72	1969	4.88	39	June 22	4.82	37	(1)
		Leipsic River basin									
72	01483500	Leipsic River near Cheswold, Del.	9.35	1944-72	1960	6.45	1,340	June 22	5.53	785	13
		St. Jones River basin									
73	01483700	St. Jones River at Dover, Del.	31.9	1959-72	1960	9.45	1,900	June 23	7.52	996	6
		Chester River basin									
74	01493000	Unicorn Branch near Millington, Md.	22.3	1949-72	1960	7.17	1,060	June 22	7.03	1,020	40
75	01493500	Morgan Creek near Kennedyville, Md.	10.5	1952-72	1960	8.88	1,530	June 22	13.07	7,500	>100
76	01494020	Browns Branch tributary near Church Hill, Md.	1.7	1971-72	1971	12.3	890	June 22	10.95	450	(1)
		Elk River basin									
77	01495000	Big Elk Creek at Elk Mills, Md.	52.6	1932-72 1884	1937 1884	14.5 19	10,600 (1)	June 22	13.46	8,720	30
		Northeast River basin									
78	01496000	Northeast Creek at Leslie, Md.	24.3	1949-72	1967	7.74	4,060	June 22	8.41	4,800	60
79	01496080	Northeast River tributary near Charlestown, Md.	1.7	1967-72	1970	5.08	380	June 22	6.4	615	(1)
		Principio Creek basin									
80	01496200	Principio Creek near Principio Furnace, Md.	9.03	1968-72	1969	9.26	7,060	June 22	8.49	3,020	(1)
		Susquehanna River basin									
81	01496370	Mink Creek at Richfield Springs, N.Y.	10.4	1969-72	1970	4.13	380	June 22	2.36	100	<2
82	01496450	Conadarago Lake at Schuyler, N.Y.	65.0	1969-72	1972	5.66	---	June 25	3.11	---	---
83	01496500	Oaks Creek at Index, N.Y.	102	1930-32, 1938-72	1959	6.87	2,550	June 23	4.35	608	<2
84	01497800	Schenevus Creek at Schenevus, N.Y.	57.8	1963-72	1964	8.14	2,200	June 23	(1)	200	<2
85	01498500	Charlotte Creek at West Davenport, N.Y.	167	1938-72	1938	4/ 9.65	14,000	June 23	4/ 4.93	1,820	<2
86	01499500	East Sidney Lake at East Sidney, N.Y.	103	1953-72	1960	1,194.4	5/25,100	June 24	1,158.63	5/5,480	---
87	01500000	Ouleout Creek at East Sidney, N.Y.	103	1941-72 1935	1942 1935	7.62 (1)	7,250 16,700	June 30	3.72	1,170	<2
88	01500500	Susquehanna River at Unadilla, N.Y.	982	1938-72	1942 1960	13.94 14.25	21,500 ---	June 23	7.87	6,140	<2
89	01502000	Butternut Creek at Morris, N.Y.	59.7	1938-72	1964	8.47	4,260	June 22	6.05	1,480	<2
90	01502500	Unadilla River at Rockdale, N.Y.	520	1930-33, 1938-72	1942	12.98	17,400	June 23	8.73	6,640	<2
91	01503000	Susquehanna River at Conklin, N.Y.	2,232	1913-72	1936 1948	20.14 20.83	61,600 ---	June 23	12.89	26,500	<2
92	01503980	Chenango River at Eaton, N.Y.	24.3	1964-65, 1967-72	1964	8.12	2,570	June 22	7.92	1,100	<2
93	01505000	Chenango River at Sherburne, N.Y.	263	1938-72 1936	1942 1964 1936	3/9.99 9.80 10.6	--- 9,200 (1)	June 22	9.57	7,500	17

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Susquehanna River basin--Continued									
94	01505500	Canasawacta Creek near South Plymouth, N.Y.	57.9	1945-72	1961	5.94	6,980	June 22	5.40	5,000	7
95	01507000	Chenango River at Greene, N.Y.	593	1937-72	1942	18.33	18,900	June 23	14.50	12,000	5
96	01508500	Albright Creek at East Homer, N.Y.	6.81	1939-68, 1970-72	1947	3.71	787	June 23	4.40	1,200	>100
97	01509000	Tioughnioga River at Cortland, N.Y.	292	1939-72	1964	12.49	13,000	June 23	10.47	7,730	4
98	01510000	Otselic River at Cincinnatus, N.Y.	147	1938-72	1942	10.67	8,390	June 23	9.39	5,530	4
					1950	4/ 10.68	7,830				
99	01511000	Whitney Point Lake at Whitney Point, N.Y.	257	1943-72	1948	1,005.0	5/ 71,440	June 25	4/ 996.52	5/ 51,720	---
100	01511500	Tioughnioga River at Itaska, N.Y.	735	1930-67, 1969-72	1935	16.61	61,100	June 23	8.38	11,400	2
101	01512500	Chenango River near Chenango Forks, N.Y.	1,483	1913-72	1935	20.3	96,000	June 23	11.19	26,200	3
102	01513500	Susquehanna River at Vestal, N.Y.	3,960	1936-72	1936	30.5	107,000	June 23	22.35	38,000	2
103	01513790	Naticoke Creek at Union Center, N.Y.	89.7	1956, 1963-64, 1966-68, 1970-72	1955	---	9,900	June 23	15.33	13,500	>100
104	01513840	Pumpelly Creek at Owego, N.Y.	8.59	1967-68	1967	5.15	1,100	June 23	7.17	1,660	>100
105	01514000	Owego Creek near Owego, N.Y.	185	1930-72	1935	11.50	23,500	June 23	10.15	10,600	9
106	01514100	Catatonk Creek at Spencer, N.Y.	26.5	1955	1955	---	1,680	June 23	---	1,500	4
107	01515000	Susquehanna River near Waverly, N.Y.	4,773	1936-72	1936	21.4	128,000	June 23	21.24	121,000	40
108	01516500	Corey Creek near Mainesburg, Pa.	12.2	1955-72	1955	7.88	2,120	June 23	10.44	5,580	>100
109		Corey Creek at Mansfield, Pa.	22.1	---	---	---	---	June 22	---	10,600	>100
110	---	Tioga River at Mansfield, Pa.	156	---	---	---	---	June 22	---	24,200	80
111	01516800	Manns Creek near Mansfield, Pa.	3.01	1960-72	1965	5.79	566	June 22	7.00	714	16
112	01517000	Elk Run near Mainesburg, Pa.	10.2	1954-72	1955	7/ 6.77	1,240	June 22	6.00	3,940	>100
113	01518000	Tioga River at Tioga, Pa.	282	1939-72	1946	15.47	39,000	June 22	19.70	59,000	>100
				1889	1889	17.4	(1)				
114	01518500	Crooked Creek at Tioga, Pa.	122	1954-72	1955	12.73	10,900	June 23	18.29	21,000	>100
115	01518970	Troups Creek near Troupsburg, N.Y.	30.2	---	---	---	---	June 23	---	4,500	(1)
116	01520000	Cowanesque River near Lawrenceville, Pa.	298	1952-72	1964	11.89	25,400	June 23	17.26	40,500	>100
117	01520500	Tioga River at Lindley, N.Y.	771	1930-72	1946	22.87	75,000	June 23	26.27	128,000	>100
118	01520507	Tannery Creek near Lindley, N.Y.	9.13	---	---	---	---	June 23	---	2,730	100
119	01520970	Canisteo River tributary near Almond, N.Y.	.17	---	---	---	---	June 23	---	56	(1)
120	01520973	Canisteo River tributary No. 2 near Almond, N.Y.	.31	---	---	---	---	June 23	---	43	(1)
121	01520991	Canisteo River at Bishopville, N.Y.	22.4	---	---	4/ ---	---	June 23	4/ ---	3,400	30
122	01521000	Arkport Reservoir near Arkport, N.Y.	30.5	1952-72	1956	1,268.4	5/ 2,730	June 23	1,304.04	5/ 7,940	---
123	01571500	Canisteo River at Arkport, N.Y.	30.6	1937-72	1938	---	2,000	June 23	3.60	1,080	19
					1939	3/ 5.63	---				
				1935	1935	---	4,820				
124	01521610	Big Creek near North Hornell, N.Y.	16.8	1935	1935	---	11,900	June 23	---	6,680	>100
125	01522075	Canacadea Creek near Alfred, N.Y.	1.28	---	---	---	---	June 23	---	656	(1)
126	01522076	Canacadea Creek tributary No. 2 at Alfred, N.Y.	.52	---	---	---	---	June 23	---	358	(1)
127	01522078	Canacadea Creek tributary No. 1 at Alfred, N.Y.	1.02	---	---	---	---	June 21	---	570	(1)
128	01522083	East Branch Canacadea Creek at Alfred Station, N.Y.	6.54	---	---	---	---	June 23	---	2,660	>100
129	01522085	Canacadea Creek at Alfred Station, N.Y.	14.8	---	---	---	---	June 21	---	6,080	>100
130	01522430	McHenry Valley Creek tributary No. 2 near Alfred, N.Y.	1.73	---	---	---	---	June 21	---	1,100	(1)
131	01522435	McHenry Valley Creek tributary No. 1 near Alfred, N.Y.	.96	---	---	---	---	June 21	---	450	(1)
132	01522500	Karr Valley Creek near Almond, N.Y.	27.6	1937-68, 1971-72	1967	9.11	6,250	June 23	12.2	10,900	>100
133	01523000	Almond Lake near Almond, N.Y.	55.8	1950-72	1956	4/ 1,286.0	5/ 8,700	June 23	4/ 1,298.58	5/ 14,100	---
134	01523500	Canacadea Creek near Hornell, N.Y.	57.9	1927-28, 1935, 1939-72	1935	16.61	21,000	June 23	6.14	5,880	(1)
135	01524500	Canisteo River below Canacadea Creek at Hornell, N.Y.	158	1943-72	1943	13.30	9,340	June 23	13.45	9,560	>100
136	01524610	Bennetts Creek tributary at Greenwood, N.Y.	3.14	---	---	---	---	June 21	---	680	(1)
137	01524990	Purdy Creek near Canisteo, N.Y.	21.2	1935	1935	4/ ---	8,990	June 22	1,160.12	6,940	>100
138	01525000	Bennetts Creek at Canisteo, N.Y.	95.3	1939-47	1946	1,130.50	10,000	June 22	4/ 1,134.42	19,500	>100
139	01525050	Colonel Bill's Creek at South Canisteo, N.Y.	10.1	---	---	---	---	June 22	---	2,820	>100
140	01525500	Canisteo River at West Cameron, N.Y.	340	1931, 1935, 1937-72	1935	20.8	35,000	June 23	23.48	43,000	>100
141	01525750	Tuscarora Creek tributary near Woodhull, N.Y.	9.43	1967-68	1968	4.67	2,360	June 23	6.53	1,440	(1)
142	01526000	Tuscarora Creek near South Addison, N.Y.	114	1937-72	1951	8.79	14,000	June 22	10.4	18,700	>100
143	01526070	Canisteo River at Erwins, N.Y.	551	---	---	---	---	June 23	4/ 967.4	65,000	>100
144	01526495	Mulholland Creek near Erwins, N.Y.	5.06	1967-68	1966	3.20	96	June 23	---	590	(1)
145	01526500	Tioga River near Erwins, N.Y.	1,377	1919-72	1946	23.54	94,000	June 23	26.74	190,000	>100
146	01526976	Kirkwood Creek near Kirkwood, N.Y.	3.70	---	---	---	---	June 23	---	810	>100
147	01527000	Cohocton River at Cohocton, N.Y.	52.2	1951-72	1960	6.23	883	June 23	9.82	2,260	>100
148	01527428	Neils Creek near Bloomerville, N.Y.	18.0	1935	1935	---	5,040	June 23	---	3,750	>100
149	01527485	Tenmile Creek at Avoca, N.Y.	17.9	---	---	4/ ---	---	June 23	---	2,240	>100
150	01527500	Cohocton River at Avoca, N.Y.	157	1939-45	1942	1,188.22	3,880	June 23	---	13,300	>100
151	01527580	Goff Creek tributary near Howard, N.Y.	4.86	---	---	---	---	June 21	---	660	100
152	01527620	Goff Creek near Avoca, N.Y.	23.8	---	---	---	---	June 22	---	3,550	>100
153	01528000	Fivemile Creek near Kanona, N.Y.	66.8	1937-72	1940	3/ 6.10	---	June 23	5.95	5,110	>100
					1956	4.59	2,680				
154	01528210	Campbell Creek near Kanona, N.Y.	32.7	1935	1935	---	14,000	June 23	---	7,340	>100
155	01528375	Stocking Creek tributary at North Cameron, N.Y.	2.64	---	---	---	---	June 23	---	452	(1)
156	01528950	Mud Creek tributary near Bradford, N.Y.	2.34	---	---	---	---	June 23	---	757	(1)
157	01529000	Mud Creek near Savona, N.Y.	76.6	1919, 1937-72	1956	6.89	1,860	June 23	8.66	6,100	>100

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Susquehanna River basin--Continued									
158	01529500	Cohocton River near Campbell, N.Y.	470	1919-72	1935	11.6	41,100	June 23	11.16	32,000	>100
159	01529530	South Branch Michigan Creek near Risingville, N.Y.	.96	1953	1953	---	819	June 22	---	168	(1)
160	01530200	Post Creek at Corning, N.Y.	31.6	---	---	---	---	June 23	---	3,000	>100
161	01530285	Sing Sing Creek near Big Flats, N.Y.	14.7	---	---	---	---	June 22	---	3,000	>100
162	01530303	Chemung River near Big Flats, N.Y.	2,150	1936	1936	---	87,200	June 23	4/898.7	235,000	>100
163	01530440	Newtown Creek at Horseheads, N.Y.	56.4	---	---	---	---	June 22	---	5,200	>100
164	01530500	Newtown Creek at Elmira, N.Y.	77.5	1938-72	1942	15.23	3,460	June 23	6/19.28	4,000	>100
					1955	17.06	(1)				
165	01530770	Seeley Creek near Elmira, N.Y.	95.6	---	---	---	---	June 23	4/909.48	18,900	>100
166	01530910	Rorick Hollow Creek near Breesport, N.Y.	1.65	---	---	---	---	June 23	---	333	(1)
167	01531000	Chemung River at Chemung, N.Y.	2,506	1904-72	1946	23.97	132,000	June 23	31.62	189,000	>100
168	01531250	North Branch Sugar Creek tributary near Columbia Cross Roads, Pa.	8.83	1963-72	1967	5.14	1,150	June 22	6.24	2,410	70
169	01531500	Susquehanna River at Towanda, Pa.	7,797	1865-1972	1946	25.08	191,000	June 24	33.43	320,000	>100
170	01532000	Towanda Creek near Monroeton, Pa.	215	1914-72	1946	12.53	31,300	June 22	15.30	47,000	>100
171	01532200	South Branch Towanda Creek at New Albany, Pa.	13.3	1963-72	1964	7.4	1,530	June 22	9.86	2,850	35
172	01532850	Middle Branch Wyalusing Creek tributary near Birchardville, Pa.	5.67	1960-72	1967	6.20	640	June 22	6.85	1,120	16
173	01533250	Tuscarora Creek near Silvara, Pa.	11.8	1963-72	1964	12.92	1,350	June 22	13.07	1,610	9
174	01533800	Butler Creek at Gibson, Pa.	7.38	1963-72	1967	17.2	2,460	June 22	7.8	870	5
175	01533950	South Branch Tunkhannock Creek near Montdale, Pa.	12.6	1961-72	1970	5.73	1,440	June 22	5.43	1,160	3
176	01534000	Tunkhannock Creek near Tunkhannock, Pa.	383	1914-72	1964	14.26	33,600	June 23	11.26	15,100	3
177	---	Susquehanna River at West Pittston, Pa.	9,533	---	---	4/ ---	---	June 24	4/ ---	339,000	>100
178	01534180	Stillwater Lake near Forest City, Pa.	37.1	1960-72	1960	1,603.2	5/5,860	June 23	1,602.00	5/5,460	---
179	01534300	Lackawanna River near Forest City, Pa.	38.8	1942-72	1942	---	2,530	June 26	4.84	1,010	(1)
180	01534500	Lackawanna River at Archbald, Pa.	108	1940-72	1942	10.58	9,510	June 22	6.09	3,000	(1)
181	01536000	Lackawanna River at Old Forge, Pa.	332	1939-72	1955	20.05	31,000	June 23	8.78	9,340	(1)
182	---	Abrahams Creek at West Wyoming, Pa.	10.5	---	---	---	---	June 22	---	1,040	9
183	01536500	Susquehanna River at Wilkes-Barre, Pa.	9,960	1784-1972	1936	33.07	232,000	June 24	40.91	345,000	>100
					1865	33.1					
184	01537000	Toby Creek at Luzerne, Pa.	32.4	1942-72	1942	---	3,010	June 22	6.07	3,390	70
					1946	5.01	---				
185	01537500	Solomon Creek at Wilkes-Barre, Pa.	15.7	1940-72	1955	9.83	2,450	June 22	6.92	1,220	6
					1933	11.4	(1)				
186	01538000	Wapwallopen Creek near Wapwallopen, Pa.	43.8	1920-72	1955	9.23	3,140	June 22	11.04	5,410	>100
187	01538800	Huntington Creek near Pikes Creek, Pa.	4.94	1960-72	1969	8.87	740	June 22	9.34	948	60
188	01539000	Fishing Creek near Bloomsburg, Pa.	274	1939-72	1940	12.08	18,100	June 22	15.18	30,900	>100
189	01540200	Trexler Run near Ringtown, Pa.	1.77	1959-72	1961	3.11	178	June 22	5.15	487	60
190	01540500	Susquehanna River at Danville, Pa.	11,220	1899-72	1904	3/30.7	---	June 24	6/32.32	---	
					1936	27.4	250,000	June 25	32.16	363,000	>100
				1865	1865	28	(1)				
191	---	Schler Run at Danville, Pa.	5.42	---	---	---	---	June 22	---	2,310	>100
192	---	Blizzard Run at Danville, Pa.	1.95	---	---	---	---	June 22	---	460	50
193	01540650	West Branch Susquehanna River at Cherry Tree, Pa.	58.8	---	---	---	---	June 23	---	6,790	50
194	01541000	West Branch Susquehanna River at Bower, Pa.	315	1899-1972	1936	4/ 19.74	31,500	June 23	4/ 18.64	27,500	>100
195	01541180	Curwensville Lake near Curwensville, Pa.	365	1966-72	1968	1,197.06	5/54,500	June 23	1,214.11	5/87,650	---
196	01541200	West Branch Susquehanna River near Curwensville, Pa.	367	1956-72	1964	14.19	15,700	June 25	11.40	8,590	(1)
197	01541308	Bradley Run near Ashville, Pa.	6.77	1968-72	1971	4/ 2.68	558	June 23	4/ 3.82	679	6
198	01541340	Glendale Lake at Prince Gallitzin State Park near Flinton, Pa.	41.9	1963-72	1967	1,429.40	5/29,180	June 24	1,431.63	5/33,390	---
199	---	North Whitmer Run at Irvona, Pa.	20.7	---	---	---	---	June 23	---	2,650	30
200	---	Clearfield Creek at Irvona, Pa.	193	---	---	---	---	June 23	---	24,800	>100
201	01541500	Clearfield Creek at Dimeling, Pa.	371	1914-72	1936	18.49	30,600	June 23	17.56	22,400	(1)
202	01542000	Moshannon Creek at Osceola Mills, Pa.	68.8	1941-72	1964	9.34	2,930	June 23	14.25	5,120	>100
				1936	1936	19.36	(1)				
203	---	Moshannon Creek at Phillipsburg, Pa.	81.1	---	---	---	---	June 23	---	6,070	100
204	01542500	West Branch Susquehanna River at Karthaus, Pa.	1,462	1936-72	1936	24.5	135,000	June 23	18.57	84,300	(1)
205	01542720	Wilson Run at Penfield, Pa.	8.34	1962-72	1964	4.39	592	June 22	4.68	403	2
206	01542810	Waldy Run near Emporium, Pa.	5.24	1963-72	1967	6.32	828	June 22	5.86	469	4
207	---	Driftwood Branch Sinnemahoning Creek at Emporium, Pa.	86.2	---	---	---	---	June 22	---	6,180	9
208	01542860	West Creek near Emporium, Pa.	59.1	---	---	---	---	June 22	---	7,510	30
209	01543000	Driftwood Branch Sinnemahoning Creek at Sterling Run, Pa.	272	1914-72	1942	14.70	47,800	June 22	12.20	32,000	40
210	01543500	Sinnemahoning Creek at Sinnemahoning, Pa.	685	1936-72	1936	21.94	61,200	June 23	4/ 21.78	60,800	40
211	01543900	First Fork Sinnemahoning Creek Reservoir near Sinnemahoning, Pa.	243	1956-72	1964	4/994.50	5/39,250	June 26	1,015.87	5/62,030	---
212	01544000	First Fork Sinnemahoning Creek near Sinnemahoning, Pa.	245	1942-72	1942	---	80,000	June 28	4.75	7,150	(1)
213	01544450	Germania Branch at Germania, Pa.	2.40	1964-72	1964	2.63	141	June 23	4.55	210	2
214	01544500	Kettle Creek at Cross Fork, Pa.	136	1936, 1941-42	1936	14.0	20,000	June 23	11.76	14,300	70
215	01544800	Kettle Creek Lake near Westport, Pa.	226	1962-72	1970	4/913.50	5/45,350	June 25	4/919.13	5/51,700	---
216	01545000	Kettle Creek near Westport, Pa.	233	1955-72	1956	---	7,970	June 28	8.69	5,750	(1)
					1959	3/13.31	---				
217	01545500	West Branch Susquehanna River at Renovo, Pa.	2,975	1889-1972	1936	29.39	236,000	June 23	26.56	181,000	>100
218	01545600	Young Womans Creek near Renovo, Pa.	46.2	1965-72	1970	3.33	844	June 23	7.98	5,370	18
219	01546500	Spring Creek near Axemann, Pa.	87.2	1941-72	1950	5.44	1,670	June 23	8.75	5,410	>100
				1936	1936	8.6	(1)				
220	01547100	Spring Creek at Milesburg, Pa.	142	1967-72	1970	7.14	1,360	June 23	13.20	8,170	>100

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Susquehanna River basin--Continued									
221	01547200	Bald Eagle Creek below Spring Creek at Milesburg, Pa.	265	1956-72	1964	6.60	8,950	June 23	11.67	21,300	>100
222	01547480	Foster Joseph Sayers Lake near Blanchard, Pa.	339	1971-72	1972	4/ 638.68	5/ 46,100	June 25	4/ 658.41	5/ 103,950	---
223	01547500	Bald Eagle Creek at Blanchard, Pa.	339	1955-72	1964	11.59	10,100	June 28	9.37	4,890	(1)
224	01547700	Marsh Creek at Blanchard, Pa.	44.1	1956-72	1961	6.63	3,300	June 23	7.96	4,870	80
225	01547800	South Fork Beech Creek near Snow Shoe, Pa.	12.2	1959-72	1964	4.92	967	June 23	5.36	1,170	45
226	01547950	Beech Creek near Monument, Pa.	152	1968-72	1970	10.24	3,070	June 23	15.22	9,740	13
227	01548000	Bald Eagle Creek at Beech Creek Station, Pa.	559	1911-72	1936	14.42	25,600	June 23	12.29	19,400	(1)
228	01548020	Bull Run near Loganton, Pa.	1.99	1963-72	1967	7.26	113	June 22	8.97	351	13
229	---	Fishing Creek at Mill Hall, Pa.	179	---	---	---	---	June 23	---	25,000	>100
230	---	Pine Creek at Galeton, Pa.	167	---	---	---	---	June 22	---	15,900	30
231	01548500	Pine Creek at Cedar Run, Pa.	604	1919-72	1946	14.39	52,000	June 23	16.0	66,000	>100
232	01549500	Block House Creek near English Center, Pa.	37.7	1936, 1941-72	1936	9.0	5,780	June 23	9.34	6,260	60
233	01549700	Pine Creek below Little Pine Creek near Waterville, Pa.	944	1958-72	1959	3/ 16.0	---	June 23	22.76	104,000	>100
					1964	13.67	45,300				
234	01549780	Larrys Creek at Cogan House, Pa.	6.80	1960-72	1964	4.49	701	June 22	5.29	1,130	100
235	01550000	Lycoming Creek near Trout Run, Pa.	173	1914-72	1946	19.37	21,800	June 22	20.19	25,900	>100
236	01551500	West Banch Susquehanna River at Williamsport, Pa.	5,682	1889-1972	1936	33.57	264,000	June 23	34.75	279,000	>100
237	01552000	Loyalsock Creek at Loyalsockville, Pa.	443	1926-72	1926	12.3	51,200	June 23	14.74	88,700	>100
					1950	12.32	51,200				
238	01552100	Mill Creek near Warrensville, Pa.	11.9	1961-72	1964	4.73	962	June 22	6.14	2,230	23
239	01552500	Muncy Creek near Sonestown, Pa.	23.8	1941-72	1952	8.61	7,310	June 22	8.94	8,260	>100
240	---	Glade Run at Muncy, Pa.	6.62	---	---	---	---	June 22	---	1,780	50
241	01553050	White Deer Hole Creek near Elimsport, Pa.	18.2	1961-72	1964	9.05	1,480	June 22	11.83	4,200	>100
242	01553120	White Deer Creek above Sand Spring Run near White Deer, Pa.	17.8	1968-72	1970	5.30	302	June 22	9.47	2,330	30
243	01553130	Sand Spring Run near White Deer, Pa.	4.93	1968-72	1971	5.38	180	June 22	5.68	1,000	50
244	01553140	White Deer Creek near White Deer, Pa.	40.0	1968-72	1970	6.22	637	June 22	9.89	6,410	>100
					1971	3/ 6.84	---				
245	01553500	West Branch Susquehanna River at Lewisburg, Pa.	6,847	1936-72	1936	32.1	287,000	June 24	34.23	300,000	>100
246	01553600	East Branch Chillisquaque Creek near Washington, Pa.	9.48	1961-72	1970	7.85	1,440	June 22	11.11	4,390	>100
247	01554000	Susquehanna River at Sunbury, Pa.	18,300	1819-1972	1936	34.65	556,000	June 24	35.80	620,000	>100
248	01554500	Shamokin Creek near Shamokin, Pa.	54.2	1940-72	1962	5.00	3,120	June 22	8.72	4,070	>100
249	01555000	Penns Creek at Penns Creek, Pa.	301	1930-72	1934	13.00	14,900	June 23	14.85	34,600	>100
250	01555500	East Mahantango Creek near Dalmatia, Pa.	162	1930-72	1933	13.66	10,600	June 22	26.62	69,900	>100
251	---	Wiconisco Creek at Lykens, Pa.	29.0	---	---	---	---	June 22	---	18,700	>100
252	---	Rattling Creek at Lykens, Pa.	18.9	---	---	---	---	June 22	---	13,500	>100
253	01555800	McDonald Run near East Freedom, Pa.	1.54	1959-72	1966	3.38	350	June 23	3.63	134	<2
254	01556000	Frankstown Branch Juniata River at Williamsburg, Pa.	291	1889-1972	1936	18.58	47,600	June 23	18.39	16,400	15
					1889	19.1	35,500				
255	01556400	Sandy Run near Bellwood, Pa.	5.58	1962-72	1967	6.25	887	June 22	5.75	628	7
256	01556500	Little Juniata River at Tipton, Pa.	93.7	1946-72	1950	9.06	5,700	June 23	9.24	6,140	16
257	01557100	Schell Run at Tyrone, Pa.	1.68	1958-72	1969	3.00	225	June 22	2.68	220	5
258	01557500	Bald Eagle Creek at Tyrone, Pa.	44.1	1945-72	1950	7.5	5,140	June 22	6.66	5,050	60
				1936	1936	7/ 15	(1)				
259	01558000	Little Juniata River at Spruce Creek, Pa.	220	1936-72	1936	19.1	39,800	June 23	16.98	28,600	>100
260	---	Juniata River at Warrior Ridge Dam, Pa.	805	---	---	---	---	June 23	---	53,700	90
261	01559000	Juniata River at Huntingdon, Pa.	816	1896-98, 1900-22, 1924-29, 1931-38, 1942-72	1936	21.87	81,000	June 23	20.02	57,000	90
262	---	Crooked Creek near Huntingdon, Pa.	26.4	---	---	---	---	June 22	---	4,540	>100
263	01559700	Buffalo Run tributary near Manns Choice, Pa.	5.28	1962-72	1967	4.26	1,010	June 22	3.33	528	5
264	01560000	Dunning Creek at Belden, Pa.	172	1936, 1940-72	1936	17.8	16,900	June 23	12.67	12,000	>100
265	01562000	Raystown Branch Juniata River at Saxton, Pa.	756	1889-1972	1936	24.54	80,500	June 22	17.74	40,000	45
266	01563000	Raystown Branch Juniata River near Huntingdon, Pa.	957	1936-72	1936	31.0	87,000	June 23	4/ 725.2	68,000	(1)
267	01563200	Raystown Branch Juniata River below Raystown Dam near Huntingdon, Pa.	960	1970-72	1970	18.54	24,100	June 23	18.22	23,300	(1)
268	01563500	Juniata River at Mapleton Depot, Pa.	2,030	1936-72	1936	38.2	145,000	June 23	33.07	125,000	>100
269	01563800	Elders Branch near Hustontown, Pa.	3.46	1960-72	1967	7.23	294	June 22	8.60	540	8
270	01564500	Aughwick Creek near Three Springs, Pa.	205	1939-72	1950	18.04	20,600	June 22	19.20	23,700	80
				1889	1889	19.3	(1)				
271	01565000	Kishacoquillas Creek at Reedsville, Pa.	164	1940-72	1950	13.12	9,830	June 23	16.17	16,400	>100
272	01565700	Little Lost Creek at Oakland Mills, Pa.	6.52	1960-72	1970	7.33	288	June 22	8.41	468	(1)
273	01565920	Lick Run near East Waterford, Pa.	8.38	1962-72	1966	9.33	340	July 16	9.85	1,870	30
274	01567000	Juniata River at Newport, Pa.	3,354	1889-1972	1889	35.9	209,000	June 23	33.97	187,000	>100
275	01567500	Bixler Run near Loysville, Pa.	15.0	1954-72	1956	10.39	8,780	July 16	9.69	6,570	30
276	01568000	Sherman Creek at Shermans Dale, Pa.	200	1927-72	1927	20.34	44,000	June 23	18.09	27,500	60
277	01568500	Clark Creek near Carsonville, Pa.	22.5	1938-72	1937	---	988	June 22	10.98	4,800	>100
					1946	4.81	---				
278	01569000	Stony Creek near Dauphin, Pa.	35.0	1938-72	1943	7.97	2,360	June 22	14.44	9,990	>100
279	01569340	Newburg Run at Newburg, Pa.	5.29	1964-71	1969	8.6	5,000	June 22	7.4	1,180	(1)
280	01570000	Conodoguinet Creek near Hogestown, Pa.	470	1912-19, 1930-58, 1968-72	1952	12.16	15,700	June 23	17.01	33,700	>100
281	01570100	Conodoguinet Creek tributary No. 1 near Enola, Pa.	.77	1969-72	1971	3.49	64	June 22	5.71	604	>100
282	01570300	Conodoguinet Creek tributary No. 3 at Enola, Pa.	.38	1969-72	1970	5.04	77	June 22	7.73	263	>100
283	01570500	Susquehanna River at Harrisburg, Pa.	24,100	1786-1972	1936	29.23	740,000	June 24	32.57	1,020,000	>100
284	01571000	Paxton Creek near Penbrook, Pa.	11.2	1940-50	1949	6.97	1,900	June 22	---	3,300	>100

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Susquehanna River basin--Continued									
285	01571020	Paxton Creek at Wildwood Lake at Harrisburg, Pa.--	19.0	---	---	---	---	June 22	---	2,290	(1)
286	01571500	Yellow Breeches Creek near Camp Hill, Pa.----------	216	1909-19, 1955-72	1915	8.61	5,550	June 22	18.33	15,900	>100
287	01572900	Reeds Creek near Ono, Pa.----------	8.63	1962-72	1966	7.55	1,700	---	[6/] 14.74	(1)	---
288	01573000	Swatara Creek at Harper Tavern, Pa.----------	337	1899-1972	1889	25.6	88,000	June 23	23.72	66,700	>100
289	01573086	Beck Creek near Cleona, Pa.----------	7.87	1964-72	1970	6.25	640	June 22	11.53	5,150	>100
290	01574000	West Conewago Creek near Manchester, Pa.----------	510	1929-72	1933	24.14	47,600	June 22	30.26	81,700	>100
291	01574500	Codorus Creek at Spring Grove, Pa.----------	75.5	1930-64, 1966-72	1933	11.84	11,200	June 22	15.57	19,400	>100
292	01574700	Indian Rock Reservoir near York, Pa.----------	93.7	1943-72	1952	[4/] 402.80	[5/] 3,360	June 23	[4/] 436.44	[5/] 30,220	---
293	01574800	East Branch Codorus Creek tributary near Winterstown, Pa.	5.17	1960-72	1969	7.02	351	June 22	10.44	2,190	>100
294	01575000	South Branch Codorus Creek near York, Pa.----------	117	1928-72	1933	17.97	19,300	June 22	22.62	26,700	>100
295	01575500	Codorus Creek near York, Pa.----------	222	1933, 1940-72	1933	24.0	32,000	June 22	26.36	30,000	>100
296	01576000	Susquehanna River at Marietta, Pa.----------	25,990	1889-1972	1936	60.73	787,000	June 23	64.54	1,080,000	>100
297	01576320	Stony Run at Reamstown, Pa.----------	3.55	1964-72	1968	6.30	890	June 22	7.00	995	35
298	01576500	Conestoga Creek at Lancaster, Pa.----------	324	1929-72	1933	17.52	22,800	June 23	27.80	88,300	>100
299	01577500	Muddy Creek at Castlefin, Pa.----------	133	1929-38, 1968-71	1933	21.11	16,600	June 22	20.25	18,000	70
300	01577940	Broad Creek tributary at Whiteford, Md.----------	.77	1971-72	1971	6.62	156	June 22	9.65	310	(1)
301	01578200	Conowingo Creek near Buck, Pa.----------	8.71	1963-72	1970	6.94	693	June 22	7.76	1,270	11
302	01578310	Susquehanna River at Conowingo, Md.----------	27,100	1968-72	1970	26.40	434,000	June 24	36.83	1,130,000	>100
303	01578400	Bowery Run near Quarryville, Pa.----------	5.98	1963-72	1964	7.7	2,220	June 22	6.55	1,050	14
304	01578500	Octoraro Creek near Rising Sun, Md.----------	193	1933-58, 1963-72	1942	17.57	35,000	June 22	18.92	29,000	(1)
				1884	1884	24.3	(1)				
305	01578800	Basin Run at West Nottingham, Md.----------	1.3	1967-71	1967	13.60	825	June 22	11.80	640	(1)
306	01579000	Basin Run at Liberty Grove, Md.----------	5.31	1949-58, 1965-72	1967	7.66	3,500	June 22	6.92	2,560	16
307	01580000	Deer Creek at Rocks, Md.----------	94.4	1888-1972	1933	17.7	13,600	June 22	17.09	12,200	70
308	01580200	Deer Creek near Kalmia, Md.----------	125	1968-72	1967	10.45	6,130	June 22	16.08	16,800	80
		Bush River basin									
309	01581500	Bynum Run at Bel Air, Md.----------	8.52	1945-50, 1956-72	1945	6.25	3,620	June 22	8.32	4,650	60
310	01581700	Winters Run near Benson, Md.----------	34.8	1968-72	1971	8.96	5,350	June 22	11.60	7,600	100
		Gunpowder River basin									
311	01581900	Prettyboy Reservoir near Hereford, Md.----------	79.8	1933-72	1934	[4/] 522.46	[8/] 21,110	June 22	[4/] 525.12	[8/] 22,480	---
312	01582000	Little Falls at Blue Mount, Md.----------	52.9	1945-72	1950	13.32	5,730	June 22	18.54	8,280	>100
				1933	1933	14	(1)				
313	01582510	Piney Creek near Hereford, Md.----------	1.5	1966-72	1971	13.27	790	June 22	19.4	1,370	(1)
314	01583000	Slade Run near Glydon, Md.----------	2.09	1948-72	1956	4.68	485	June 22	4.80	515	60
315	01583495	Western Run tributary at Western Run, Md.----------	.26	1966-72	1967	8.11	236	June 22	---	515	(1)
316	01583500	Western Run at Western Run, Md.----------	59.8	1945-72	1956	10.84	5,590	June 22	26.0	38,000	>100
317	01583580	Baisman Run at Broodmoor, Md.----------	1.47	1965-72	1968	5.43	490	June 22	6.08	692	(1)
318	01583980	Loch Raven Reservoir near Carney, Md.----------	303	1914-72	1933	[4/] 245.85	[8/] 28,520	June 22	[4/] 248.62	[8/] 31,040	---
319	01584500	Little Gunpowder Falls at Laurel Brook, Md.----------	36.1	1927-72	1933	10.3	9,200	June 22	10.18	9,030	60
320	01585100	Whitemarsh Run at White Marsh, Md.----------	7.61	1960-72	1971	14.05	8,000	June 22	10.04	2,170	(1)
		Back River basin									
321	01585200	West Branch Herring Run at Idlewylde, Md.----------	2.13	1958-72	1971	6.80	1,740	June 29	6.50	1,560	12
322	01585300	Stemmers Run at Rossville, Md.----------	4.94	1959-72	1971	11.34	5,950	June 22	7.55	1,530	4
323	01585400	Brien Run at Stemmers Run, Md.----------	1.97	1959-72	1971	10.75	3,500	June 22	5.66	632	6
		Patapsco River basin									
324	01585500	Cranberry Branch near Westminster, Md.----------	3.29	1949-72	1970	5.54	1,070	June 22	5.85	1,510	80
325	01586000	North Branch Patapsco River at Cedarhurst, Md.------	56.6	1946-72	1955	[4/] 10.38	[8/] 4,130	June 22	[4/] 20.75	[8/] 27,800	>100
326	01586990	Liberty Reservoir near Marriottsville, Md.----------	164	1953-72	1956	[4/] 421.60	[8/] 44,670	June 22	[4/] 427.42	[8/] 49,550	---
327	01587050	Hay Meadow Branch tributary at Poplar Springs, Md.	.54	1966-72	1971	10.55	630	June 21	8.48	420	(1)
328	01587500	South Branch Patapsco River at Henryton, Md.--------	64.4	1949-72	1956	19.40	12,100	June 22	28.14	26,900	>100
329	01588000	Piney Run near Sykesville, Md.----------	11.4	1932-72	1956	12.0	7,380	June 22	11.0	9,700	>100
330	01589000	Patapsco River at Hollofield, Md.----------	285	1945-72	1956	15.88	19,000	June 22	31.3	80,600	>100
				1933	1933	19.5	(1)				
331	01589100	East Branch Herbert Run at Arbutus, Md.----------	2.47	1956-72	1971	5.94	1,180	June 22	6.35	1,340	(1)
332	01589200	Gwynns Falls near Owings Mills, Md.----------	4.90	1959-72	1971	5.13	1,360	June 22	5.70	5,500	>100
333	01589240	Gwynns Falls at McDonogh, Md.----------	19.3	1958-72	1967	8.81	1,650	June 22	18.8	14,700	>100
334	01589300	Gwynns Falls at Villa Nova, Md.----------	32.5	1956-72	1956	12.6	5,270	June 22	21.5	16,200	>100
335	01589330	Dead Run at Franklintown, Md.----------	5.52	1960-72	1968	10.22	2,750	June 22	12.5	7,400	>100
336	01589440	Jones Falls at Sorrento, Md.----------	25.2	1958-72	1968	11.30	2,160	June 22	18.11	45,900	>100
		South River basin									
337	01590000	North River near Annapolis, Md.----------	8.5	1933-72	1944	6.22	5,000	June 22	2.36	122	>2
338	01590500	Bacon Ridge Branch at Chesterfield, Md.----------	6.92	1944-52, 1965-72	1944	5.49	2,100	June 22	3.68	215	>2

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Patuxent River basin									
339	01591000	Patuxent River near Unity, Md.	34.8	1945-72	1971	18.60	21,800	June 22	16.1	14,500	35
340	01591500	Cattail Creek at Roxbury Mills, Md.	27.7	1945-56	1956	14.19	10,100	June 22	16.4	(1)	---
341	01591600	Triadelphia Lake near Brighton, Md.	78.4	1942-72	1971	4/367.5	8/7,250	June 22	4/371.0	8/8,210	---
342	01592495	T. Howard Duckett Reservoir near Laurel, Md.	132	1954-72	1971	4/289.1	8/7,130	June 22	4/289.65	8/7,290	---
343	01592500	Patuxent River near Laurel, Md.	132	1945-72	1971	18.5	12,000	June 22	25	26,000	(1)
344	01593350	Little Patuxent River tributary at Guilford Downs, Md.	.95	1966-72	1968	8.53	(1)	June 22	10.28	620	(1)
345	01593500	Little Patuxent River at Guilford, Md.	38.0	1933-72	1952	13.26	5,300	June 22	18.38	12,400	>100
346	01594000	Little Patuxent River at Savage, Md.	98.4	1940-72	1952	13.15	6,280	June 22	25.4	35,400	>100
				1933	1933	17.5	(1)				
347	01594400	Dorsey Run near Jessup, Md.	11.6	1949-72	1955	12.77	1,400	June 22	14.0	1,700	60
348	01594440	Patuxent River at U.S. Highway 50 near Mitchellville, Md.	348	---	--	---	---	June 22	---	31,100	(1)
349	01594445	Mill Branch near Mitchellville, Md.	1.1	1966-72	1969	11.42	540	June 22	6.56	150	(1)
350	01594500	Western Branch near Largo, Md.	30.2	1950-72	1971	8.87	1,760	June 22	8.54	1,540	12
351	01594600	Cocktown Creek near Huntingtown, Md.	3.85	1957-72	1960	7.96	1,120	June 22	5.63	165	<2
		Potomac River basin									
352	01595200	Stony River near Mt. Storm, W.Va.	48.8	1962-72	1963	3/8.41	3,120	June 23	5.10	750	(1)
353	01595300	Abram Creek at Oakmont, W.Va.	47.3	1955, 1957-72	1955	9.82	3,830	July 5	6.95	1,540	<2
354	01595500	North Branch Potomac River at Kitzmiller, Md.	225	1950-72	1954	13.73	33,400	June 23	7.07	4,680	<2
355	01595800	North Branch Potomac River at Barnum, W.Va.	266	1967-72	1967	9.70	12,200	June 23	7.47	5,440	<2
356	01596005	Savage River near Frostburg, Md.	1.5	1971-72	1972	19.60	60	June 23	19.74	70	(1)
357	01596500	Savage River near Barton, Md.	49.1	1949-72	1954	8.45	7,510	June 23	3.39	854	<2
358	01597000	Crabtree Creek near Swanton, Md.	16.7	1949-72	1949	5.01	3,260	June 29	2.19	233	<2
359	01597490	Savage River Reservoir near Bloomington, Md.	105	1952-72	1954	4/1471.78	5/21,200	June 29	4/1469.87	5/20,500	---
360	01597500	Savage River below Savage River Dam, near Bloomington, Md.	106	1949-72	1954	7.70	6,530	June 29	4.57	1,660	<2
361	01598500	North Branch Potomac River at Luke, Md.	404	1900-06, 1950-72	1954	17.15	39,400	June 23	7.50	5,620	<2
				1924	1924	---	51,000				
362	01599000	Georges Creek at Franklin, Md.	72.4	1931-72	1936	9.6	8,500	June 29	6.44	1,250	<2
				1924	1924	10	(1)				
363	01600000	North Branch Potomac River at Pinto, Md.	596	1924, 1936, 1939-72	1924	24	55,000	June 29	10.45	8,380	<2
364	01600700	Little Wills Creek at Byard, Pa.	10.2	1961-72	1967	8.91	1,100	June 22	9.13	789	4
365	01601000	Wills Creek below Hyndman, Pa.	146	1952-72	1954	11.02	11,600	June 23	8.91	7,560	6
366	01601500	Wills Creek near Cumberland, Md.	247	1924, 1930-72	1936	20.2	38,100	June 23	10.06	11,300	8
367	01603000	North Branch Potomac River near Cumberland, Md.	875	1889-1972	1889	29.2	89,000	June 23	14.55	17,400	<2
368	01603500	Evitts Creek near Centerville, Pa.	30.2	1933-72	1936	7.13	5,240	June 22	5.06	2,750	17
369	01604500	Patterson Creek near Headsville, W.Va.	219	1939-72	1955	12.20	16,000	June 23	9.93	4,090	<2
370	01605500	South Branch Potomac River at Franklin, W.Va.	182	1941-69	1949	11.40	15,000	June 21	5.68	3,610	<2
				1936	1936	13	(1)				
371	01605600	Friends Run near Franklin, W.Va.	4.55	1970-72	1969	1.87	58	June 21	(1)	9/40	(1)
372	01605700	Unnamed Run on North Fork Mountain near Franklin, W.Va.	.45	1965-72	(1)	<4.47	(1)	June 22	3.40	17	(1)
373	01606000	North Fork South Branch Potomac River at Cabins, W.Va.	314	1936-72	1949	18.0	50,000	June 21	9.15	6,530	<2
374	01606500	South Branch Potomac River near Petersburg, W.Va.	642	1877, 1929-72	1949	22.83	62,000	June 21	9.25	10,600	<2
375	01606800	Brushy Run near Petersburg, W.Va.	1.43	1965-72	1971	4.62	57	June 22	4.30	46	(1)
376	01607500	South Fork South Branch Potomac River at Brandywine, W.Va.	102	1944-72	1949	14.6	41,200	June 21	8.55	6,170	4
377	01608000	South Fork South Branch Potomac River near Moorefield, W.Va.	283	1924, 1929-36, 1939-72	1949	16.1	39,000	June 22	7.28	5,740	2
378	01608050	Fort Run near Moorefield, W.Va.	4.92	1970-72	1972	3.18	137	June 23	8.49	888	(1)
379	01608100	Williams Hollow near Moorefield, W.Va.	.24	1965-72	(1)	<5.37	(1)	June 22	5.70	75	(1)
380	01608400	Buffalo Creek near Romney, W.Va.	4.37	1969-72	1969	8.00	550	June 22	7.15	438	(1)
381	01608500	South Branch Potomac River near Springfield, W.Va.	1,471	1878, 1900-01, 1904-06, 1929-72	1936	34.2	143,000	June 23	17.87	31,500	4
382	01609000	Town Creek near Oldtown, Md.	148	1928-36, 1968-72	1936	19.08	27,000	June 22	14.13	11,700	(1)
383	01609500	Sawpit Run near Oldtown, Md.	5.08	1948-58, 1963-72	1954	4.72	770	June 22	4.33	600	20
384	01609800	Little Cacapon River near Levels, W.Va.	108	1967-72	1967	10.24	5,510	June 22	12.97	10,500	13
385	01610000	Potomac River at Paw Paw, W.Va.	3,109	1936-72	1936	54.0	240,000	June 23	28.83	64,500	5
386	01610105	Pratt Hollow tributary at Pratt, Md.	.70	1971-72	1971	11.40	40	June 22	12.84	110	(1)
387	01610155	Sideling Hill Creek near Bellegrove, Md.	102	1968-72	1970	8.18	5,750	June 22	12.44	14,200	(1)
388	01610200	Lost River at McCauley, near Baker, W.Va.	155	1972	1972	7.04	4,070	June 23	11.58	14,600	16
389	01610300	Cacapon River above Wardensville, W.Va.	181	1972	1972	7.76	5,270	June 23	11.15	16,200	15
390	01611150	Tearcoat Creek tributary near Augusta, W.Va.	2.65	1965-72	(1)	<3.96	(1)	June 22	4.50	160	(1)
391	01611500	Cacapon River near Great Cacapon, W.Va.	677	1889, 1923-72	1936	30.1	87,600	June 22	22.17	45,500	17
392	01613000	Potomac River at Hancock, Md.	4,073	1889-1972	1936	47.6	340,000	June 23	30.79	112,000	7
393	01613050	Tonoloway Creek near Needmore, Pa.	10.7	1963-72	1970	6.81	685	June 22	9.17	1,300	9
					1971	3/7.37	---				

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Potomac River basin--Continued									
394	01613150	Ditch Run near Hancock, Md.	4.8	1965-72	1970	7.69	400	June 22	9.07	555	(1)
395	01613160	Potomac River tributary near Hancock, Md.	1.2	1965-72	1965	4.75	140	June 22	5.10	174	(1)
396	01613900	Hogue Creek near Hayfield, Va.	15.0	1961-72	1970	7.43	1,950	June 22	8.85	2,760	>100
397	01614000	Back Creek near Jones Springs, W.Va.	243	1929-31, 1936, 1937-1972	1942	25.17	22,400	June 22	23.15	18,700	>100
398	01614090	Conococheague Creek near Fayetteville, Pa.	5.05	1961-72	1961	2.80	114	June 22	3.45	392	50
399	01614500	Conococheague Creek at Fairview, Md.	494	1889, 1928-72	1889	16.5	22,000	June 23	24.5	32,400	>100
400	01614700	Conococheague Creek tributary at Kemps, Md.	1.1	1968-72	1970	3.81	100	June 22	3.55	43	(1)
401	01615000	Opequon Creek near Berryville, Va.	57.4	1944-72	1970	12.82	10,600	June 22	12.59	9,870	>100
				1942	1942	18.4	(1)				
402	01616500	Opequon Creek near Martinsburg, W.Va.	272	1906, 1948-72	1970	15.81	14,000	June 22	17.45	19,000	>100
				1936	1936	17.5	(1)				
403	01617000	Tuscarora Creek above Martinsburg, W.Va.	11.3	1949-63, 1968-72	1971	10.52	308	June 23	11.20	450	>100
404	---	Tuscarora Creek near mouth below Martinsburg, W.Va.	25.0	---	--	--	--	June 23	--	900	>100
405	01617800	March Run at Grimes, Md.	18.9	1964-72	1971	2.74	146	June 22	3.44	268	(1)
406	01618000	Potomac River at Shepherdstown, W.Va.	5,936	1889-1972	1936	42.1	335,000	June 23	31.58	187,000	18
407	01619000	Antietam Creek near Waynesboro, Pa.	93.5	1949-51, 1966-72	1970	7.87	2,040	June 22	12.53	5,430	(1)
408	01619475	Dog Creek tributary near Locust Grove, Md.	.13	1966-72	1967	8.10	111	June 22	5.36	30	(1)
409	01619500	Antietam Creek near Sharpsburg, Md.	281	1929-72	1956	16.73	12,600	June 23	14.30	9,880	50
410	01620500	North River near Stokesville, Va.	17.2	1942, 1947-72	1949	10.9	11,100	June 21	5.25	1,650	7
411	01621200	War Branch near Hinton, Va.	9.45	1949-72	1949	6.70	2,500	June 21	3.70	700	4
412	01622000	North River near Burketown, Va.	379	1852-1972	1949	36.3	62,600	June 22	16.58	12,900	4
413	01624300	Middle River near Verona, Va.	178	1968-72	1971	13.79	7,220	June 21	13.10	6,590	7
414	01624800	Christians Creek near Fishersville, Va.	70.1	1968-72	1969	12.78	3,800	June 21	12.50	3,630	7
415	01625000	Middle River near Grottoes, Va.	375	1877-1972	1936	28.57	24,500	June 22	21.51	16,300	15
416	01626000	South River near Waynesboro, Va.	127	1928-72	1969	15.27	17,400	June 21	14.25	14,000	20
417	01627500	South River at Harriston, Va.	222	1924-51, 1969-72	1942	17.2	23,100	June 21	15.25	21,300	20
				1870	1870	18.8	(1)				
418	01628500	South Fork Shenandoah River near Lynnwood, Va.	1,084	1870-1972	1942	27.2	80,000	June 22	23.45	50,700	15
419	01628600	Cub Run tributary near Montevideo, Va.	.42	1966-72	1969	5.15	92	June 21	5.12	91	4
420	01629100	South Fork Shenandoah River tributary near Luray, Va.	.54	1966-72	1967	6.60	102	June 22	6.48	99	4
421	01631000	South Fork Shenandoah River at Front Royal, Va.	1,642	1870-1972	1942	34.8	130,000	June 22	23.98	75,100	20
422	01632000	North Fork Shenandoah River at Cootes Store, Va.	210	1836-1972	1942	25.3	50,000	June 22	14.98	13,900	4
423	01632900	Smith Creek near New Market, Va.	93.2	1961-72	1971	9.96	2,860	June 22	13.22	6,280	>100
424	01632950	Crooked Run tributary near Conicville, Va.	.31	1966-72	1967	4.32	26	June 22	4.72	34	<2
425	01633000	North Fork Shenandoah River at Mount Jackson, Va.	506	1942-72	1942	20.2	80,000	June 22	16.08	21,200	6
426	01633500	Stony Creek at Columbia Furnace, Va.	79.4	1947-72	1959	9.20	6,900	June 22	9.19	6,850	40
				1942	1942	11.5	(1)				
427	01633700	Pugh Run tributary near Columbia Furnace, Va.	.56	1966-72	1971	4.54	84	June 22	4.96	98	3
428	01634000	North Fork Shenandoah River near Strasburg, Va.	768	1870-1972	1942	31.2	100,000	June 22	20.88	25,100	8
429	01634500	Cedar Creek near Winchester, Va.	103	1936-72	1942	27.0	22,000	June 22	23.19	20,300	90
430	01635200	North Fork Shenandoah River tributary near Waterlick, Va.	.48	1966-72	1971	3.89	29	June 21	4.86	63	3
431	01635500	Passage Creek near Buckton, Va.	87.8	1933-72	1942	15.5	21,000	June 22	13.56	13,100	20
432	01636210	Happy Creek at Front Royal, Va.	14.0	1949-72	1948	7/6.40	2,490	June 22	6.13	1,600	9
				1942	1942	10/14	(1)				
433	01636500	Shenandoah River at Millville, W.Va.	3,040	1870, 1896-98, 1900-01, 1903-18, 1924, 1929-1972	1942	32.4	230,000	June 23	21.89	103,000	18
434	01637000	Little Catoctin Creek at Harmony, Md.	8.83	1948-72	1952	8.49	5,400	June 21	5.64	1,960	9
435	01637500	Catoctin Creek near Middletown, Md.	66.9	1948-72	1949	11.18	7,760	June 22	12.28	11,200	>100
436	01637600	Hollow Road Creek near Middletown, Md.	2.3	1965-72	1971	6.28	440	June 21	9.4	815	(1)
437	01638500	Potomac River at Point of Rocks, Md.	9,651	1889-1972	1936	41.03	480,000	June 23	37.43	347,000	40
438	01638900	White Run near Gettysburg, Pa.	12.4	1961-72	1961	11.9	2,760	June 22	13.55	4,360	>100
439	01639000	Monocacy River at Bridgeport, Md.	173	1943-72	1943	20.53	15,000	June 22	24.05	21,300	>100
				1933	1933	25	(1)				
440	01639095	Piney Creek tributary at Taneytown, Md.	.62	1967-72	1969	10.22	210	June 22	11.64	278	(1)
441	01639500	Big Pipe Creek at Bruceville, Md.	102	1948-72	1949	11.92	9,500	June 22	17,86	22,800	>100
442	01640000	Little Pipe Creek at Avondale, Md.	8.10	1948-56, 1959-64, 1967-72	1956	8.47	1,880	June 22	10.45	2,400	60
443	01640500	Owens Creek at Lantz, Md.	5.93	1932-72	1934	8.4	3,270	June 22	5.14	940	6
444	01640700	Owens Creek tributary near Rocky Ridge, Md.	1.2	1967-72	1970	13.40	383	June 22	12.29	363	(1)
445	01641000	Hunting Creek at Jimtown, Md.	18.4	1950-72	1952	4.94	1,170	June 22	5.26	1,330	15
446	01641500	Fishing Creek near Lewistown, Md.	7.29	1948-72	1949	3.73	500	June 21	4.01	610	50
447	01642400	Dollyhyde Creek at Libertytown, Md.	2.7	1967-72	1969	8.88	760	June 21	13.20	1,620	(1)
448	01642500	Linganore Creek near Frederick, Md.	82.3	1933-72	1955	11.39	4,130	June 22	19,46	20,100	>100
449	01643000	Monocacy River at Jug Bridge near Frederick, Md.	817	1930-72	1933	28.1	51,000	June 23	35.9	81,600	>100
				1889	1889	30	56,000				
450	01643500	Bennett Creek at Park Mills, Md.	62.8	1949-72	1971	14.33	13,000	June 21	22.1	32,200	>100
451	01643700	Goose Creek near Middleburg, Va.	123	1966-67, 1970-72	1967	14.44	6,920	June 22	27.46	19,200	>100
452	01644000	Goose Creek near Leesburg, Va.	332	1910-12, 1930-72	1937	7/26.86	35,600	June 22	30.59	78,100	>100
					1942	--	35,600				
				1889	1889	29	45,000				

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Potomac River basin--Continued									
453	01644100	South Fork Sycolin Creek near Leesburg, Va.	2.05	1966-72	1969	8.00	550	June 21	12.33	1,130	40
454	01644200	Lenah Run at Lenah, Va.	1.09	1962-72	1969	4.34	(1)	June 21	8.46	(1)	(1)
455	01644250	South Fork Broad Run near Arcola, Va.	4.12	1966-72	1967	10.80	1,070	June 21	16.80	4,180	>100
456	01644264	Frying Pan Branch near Herndon, Va.	1.50	--	--	--	--	June 21	4/302.63	1,840	(1)
457	01644271	Horsepen Run at Sully Road, near Herndon, Va.	7.20	--	--	--	--	June 21	4/287.38	8,250	(1)
458	01644272	Merrybrook Run at Sully Road, near Herndon, Va.	1.43	--	--	--	--	June 21	4/281.15	1,330	(1)
459	01644290	Stave Run at Reston, Va.	.08	1969-72	1971	1.61	55	June 21	1.84	87	(1)
460	01644295	Smilax Branch at Reston, Va.	.32	1967-72	1971	4.38	70	June 21	5.79	230	(1)
461	01644370	Sugarland Run near Dranesville, Va.	13.4	1960-72	1969	4.68	(1)	June 21	8.69	8,800	(1)
462	01644420	Bucklodge Branch tributary near Barnesville, Md.	.27	1967-72	1969	11.60	153	June 21	13.75	396	(1)
463	01645000	Seneca Creek at Dawsonville, Md.	101	1931-72	1971	16.32	25,900	June 22	16.4	26,100	>100
464	01645200	Watts Branch at Rockville, Md.	3.70	1958-72	1970	6.55	1,220	June 21	7.22	2,900	>100
465	01645895	Difficult Run at Washington and Old Dominion Railroad, near Vienna, Va.	24.7	--	--	--	--	June 22	4/227.0	12,000	(1)
466	01645950	Piney Run at Reston, Va.	2.06	--	--	--	--	June 21	4/300.60	1,270	(1)
467	01645975	Rock Run near Great Falls, Va.	3.22	1967-72	1968	5.2	1,200	June 21	5.9	1,360	(1)
468	01646000	Difficult Run near Great Falls, Va.	57.9	1935-72	1967	13.18	6,610	June 22	21.40	32,200	>100
469	01646200	Scott Run near McLean, Va.	4.69	1961-72	1966	23.30	3,560	June 21	25.0	2,800	(1)
470	01646500	Potomac River near Washington, D.C.	11,560	1931-72	1936	7/28.1	484,000	June 24	22.03	359,000	30
471	01646550	Little Falls Branch near Bethesda, Md.	4.1	1945-72	1966	6.82	2,680	June 21	6.62	2,540	25
472	01647685	Williamsburg Run near Olney, Md.	2.25	1967-72	1971	5.90	1,140	June 21	8.26	3,110	(1)
473	01647720	North Branch Rock Creek near Norbeck, Md.	9.73	1967-72	1971	5.86	1,030	June 22	14.1	10,100	(1)
474	01647725	Manor Run near Norbeck, Md.	1.01	1967-72	1971	4.67	536	June 21	5.12	909	(1)
475	01648000	Rock Creek at Sherrill Drive, Washington, D.C.	62.2	1930-72	1956	13.19	7,220	June 22	16.2	12,500	>100
476	01649100	Paint Branch at Interstate Highway 495 near College Park, Md.	16.5	--	--	--	--	June 22	---	6,410	(1)
477	01649500	Northeast Branch Anacostia River at Riverdale, Md.	72.8	1933-72	1933	7/15.5	10,500	June 22	9.52	10,600	>100
478	01650050	Northwest Branch Anacostia River at Norwood, Md.	2.45	1967-72	1971	5.43	1,500	June 21	6.24	3,750	(1)
479	01650085	Nursery Run at Cloverly, Md.	.35	1967-72	1971	3.56	260	June 21	4.85	695	(1)
480	01650190	Batchellors Run at Oakdale, Md.	.47	1967-72	1969	2.83	240	June 21	4.09	550	(1)
481	01650450	Bel Pre Creek at Layhill, Md.	1.69	1963-72	1971	8.49	1,030	June 21	10.47	1,930	(1)
482	01650470	Lutes Run at Lutes, Md.	.47	1967-69, 1971-72	1967	7/4.60	570	June 21	5.92	571	(1)
483	01650500	Northwest Branch Anacostia River near Colesville, Md	21.1	1924-72	1953	10.99	4,910	June 22	15.89	11,000	>100
484	01650990	Sligo Creek at Green Meadows, Md.	13	--	--	--	--	June 22	--	6,990	(1)
485	01651000	Northwest Branch Anacostia River near Hyattsville, Md	49.4	1933, 1939-72	1966	13.50	7,000	June 22	14.47	18,000	>100
486	01652400	Long Branch at Arlington, Va.	.94	1963-72	1969	26.9	1,280	June 21	24.68	980	(1)
487	01652430	Doctors Run at Arlington, Va.	.90	1966-72	1969	8.6	1,780	June 21	5.44	700	(1)
488	01652470	Lucky Run at Arlington, Va.	1.22	1966-72	1969	9.5	1,900	June 21	8.22	1,250	(1)
489	01652500	Four Mile Run at Alexandria, Va.	14.4	1951-72	1969	11.6	14,600	June 21	12.4	10,000	(1)
490	01652610	Holmes Run near Annandale, Va.	7.10	1960-72	1967	8.7	2,700	June 21	9.2	3,000	(1)
491	01653000	Cameron Run at Alexandria, Va.	33.7	1953, 1955-72	1966	14.14	9,300	June 22	18.14	19,900	(1)
492	01653500	Henson Creek at Oxon Hill, Md.	16.7	1949-72	1971	7.63	3,440	June 22	6.89	2,450	9
493	01653600	Piscataway Creek at Piscataway, Md.	39.5	1966-72	1971	7.19	1,180	June 22	9.80	4,900	(1)
494	01653950	Long Branch at Vienna, Va.	1.18	1960-72	1969	6.5	2,000	June 21	5.85	1,280	(1)
495	01653960	Long Branch at Arlington Boulevard near Vienna, Va.	2.12	--	--	--	--	June 21	4/290.73	1,800	(1)
496	01653987	Accotink Creek at King Arthur Road, near Annandale, Va.	18.2	--	--	--	--	June 22	4/255.24	11,500	(1)
497	01654000	Accotink Creek near Annandale, Va.	23.5	1947-72	1969	11.85	7,870	June 22	15.96	12,000	(1)
498	01655112	Accotink Creek near Newington, Va.	39.9	--	--	--	--	June 22	68.8	19,000	(1)
499	01655500	Cedar Run near Warrenton, Va.	12.3	1951-72 1942	1955 1942	9.59 13	3,100 (1)	June 21	12.87	7,840	>100
500	01656000	Cedar Run near Catlett, Va.	93.4	1951-72 1942	1955 1942	17.25 22	7,300 (1)	June 22	27.66	38,600	>100
501	01656200	Broad Run near Warrenton, Va.	2.94	1950-72	1967	6.99	200	June 21	7.86	276	3
502	01656500	Broad Run at Buckland, Va.	50.5	1951-72	1956	13.08	11,600	June 21	13.92	16,800	>100
503	01656600	Broad Run tributary at Buckland, Va.	.79	1966-72	1968	9.10	310	June 21	16.20	575	>100
504	01656700	Occoquan River near Manassas, Va.	343	1969-72 1967	1971 1967	14.64 16	16,900 (1)	June 22	50.31	56,400	>100
505	01656725	Bull Run near Catharpin, Va.	25.8	1969-72	1969	8.52	2,940	June 22	18.92	39,400	>100
506	01656800	Cub Run near Chantilly, Va.	7.13	1963-72	1967	6.22	443	June 21	10.68	8,300	(1)
507	01656850	Cain Branch near Chantilly, Va.	1.67	--	--	--	--	June 21	4/266.51	2,200	(1)
508	01656910	Flatlick Branch at Sully Road near Chantilly, Va.	5.92	--	--	--	--	June 21	4/253.44	6,600	(1)
509	01656940	Cub Run near Centreville, Va.	39.6	1961-72	1971	11.44	2,300	June 22	23.9	36,000	(1)
510	---	Big Rocky Run at Sulley Road, near Centreville, Va.	7.10	--	--	--	--	June 21	4/247.62	7,100	(1)
511	01657000	Bull Run near Manassas, Va.	148	1951-72	1967	19.27	13,000	June 22	37.80	76,100	>100
512	01658000	Mattawoman Creek near Pomonkey, Md.	57.7	1950-72	1955	7.52	9,300	June 22	7.10	7,350	50
513	01658500	South Fork Quantico Creek near Independent Hill, Va.	7.64	1952-72	1969	8.40	1,040	June 21	11.35	3,940	>100
514	01660400	Aquia Creek near Garrisonville, Va.	34.9	--	--	--	--	June 22	16.32	11,600	>100
515	01660900	Wolf Den Branch near Cedarville, Md.	2.3	1966-72	1969	5.42	140	June 22	6.59	255	(1)
516	01660930	Clark Run near Bel Alton, Md.	10.4	1966-72	1971	7.00	320	June 22	8.91	4,820	>100
517	01661000	Chaptico Creek at Chaptico, Md.	10.7	1948-72	1950	8.56	7,800	June 22	6.63	1,600	35
518	01661050	St. Clement Creek near Clements, Md.	18.5	1969-72	1969	5.55	1,500	June 22	6.55	4,350	>100
519	01661430	Glebe Branch at Valley Lee, Md.	.3	1968-72	1969	8.66	100	June 22	4.56	29	(1)
520	01661500	St. Marys River at Great Mills, Md.	24.0	1947-72	1969	13.34	7,950	June 22	9.75	1,890	5
		Great Wicomico River basin									
521	01661800	Bush Mill Stream near Heathsville, Va.	6.82	1964-72	1969	6.13	450	June 22	5.42	165	3

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Rappahannock River basin									
522	01662000	Rappahannock River near Warrenton, Va.	195	1942-72	1942	23.5	32,000	June 22	20.87	21,900	50
523	01662300	Thornton River tributary near Thornton Gap, Va.	1.38	1967-72	1971	8.34	54	June 22	9.90	140	<2
524	01662500	Rush River at Washington, Va.	14.7	1954-72	1955	8.14	2,500	June 22	6.44	1,460	4
525	01662800	Battle Run near Laurel Mills, Va.	27.6	1958-72	1960	11.37	1,120	June 21	11.53	1,230	50
526	01663500	Hazel River at Rixeyville, Va.	287	1937, 1942-72	1942	31.8	60,000	June 22	23.40	2,500	20
527	01664000	Rappahannock River at Remington, Va.	620	1828-1972	1942	30.0	90,000	June 22	24.82	52,900	35
528	01664800	Harpers Run near Morrisville, Va.	2.28	1966-72	1969	5.65	460	June 21	12.53	1,900	>100
529	01665000	Mountain Run near Culpeper, Va.	15.9	1950-72	1950	11.20	---	June 21	9.86	3,040	10
					1955	---	5,440				
530	01665200	Rock Run tributary near Goldvein, Va.	1.00	1966-72	1967	4.70	200	June 21	7.37	536	90
531	01665300	Rapidan River near Stanardsville, Va.	37.6	1967-72	1971	17.0	(1)	June 21	18.28	(1)	(1)
532	01665400	Conway River near Stanardsville, Va.	25.8	1967-72	1971	17.33	(1)	June 21	20.43	(1)	(1)
533	01665500	Rapidan River near Ruckersville, Va.	114	1942-72	1942	20.8	30,700	June 21	16.87	17,600	20
534	01666500	Robinson River near Locust Dale, Va.	179	1942-72	1942	23.9	44,000	June 22	20.92	24,500	35
535	01667500	Rapidan River near Culpeper, Va.	472	1931-72	1942	30.3	58,100	June 22	29.53	55,600	50
536	01667600	Cedar Run tributary near Culpeper, Va.	.58	1966-72	1966	6.43	117	June 21	6.63	125	9
537	01668000	Rappahannock River near Fredericksburg, Va.	1,596	1889-1972	1942	26.9	140,000	June 22	22.56	107,000	55
538	01668200	Gingoteague Run near Port Royal, Va.	2.82	1966-72	1969	8.4	130	June 22	9.94	388	15
539	01668300	Farmers Hall Creek near Champlain, Va.	2.18	1966-72	1969	19.20	510	June 22	15.72	452	35
540	01668500	Cat Point Creek near Montross, Va.	45.6	1935, 1944-72	1969	10.45	6,820	June 22	9.33	4,200	40
541	01668800	Hoskins Creek near Tappahannock, Va.	15.5	1965-72	1969	10.23	1,380	June 22	5.99	289	3
542	01669000	Piscataway Creek near Tappahannock, Va.	28.0	1952-72	1969	7.52	2,380	June 22	6.04	1,090	11
		Piankatank River basin									
543	01669500	Dragon Swamp near Church View, Va.	84.9	1944-72	1963	10.00	3,990	June 24	7.81	1,610	4
				1935	1935	17	(1)				
		Ware River basin									
544	01670000	Beaverdam Swamp near Ark, Va.	6.63	1950-72	1960	5.88	570	June 22	3.39	84	<2
		York River basin									
545	01670100	Mountain Run tributary near Gordonsville, Va.	.50	1966-72	1971	8.50	118	June 21	11.13	147	13
546	01671000	North Anna River near Doswell, Va.	441	1927-72	1969	32.60	24,800	June 22	31.58	23,300	75
				1928	1928	33.7	---				
547	01671100	Little River near Doswell, Va.	107	1962-72	1969	11.09	12,000	June 22	9.88	8,300	15
548	01671500	Bunch Creek near Boswells Tavern, Va.	4.37	1949-72	1969	10.64	2,750	June 21	10.44	2,580	90
549	01671750	Harris Creek near Trevilians, Va.	3.31	1969-72	1969	16.7	3,300	June 21	14.54	2,310	>100
550	01672400	South Anna River tributary near Ashland, Va.	.33	1966-72	1969	9.3	360	June 21	9.93	414	>100
551	01672500	South Anna River near Ashland, Va.	394	1928, 1931-72	1969	24.99	17,100	June 21	21.90	12,600	30
552	01673000	Pamunkey River near Hanover, Va.	1,081	1942-72	1969	31.12	40,300	June 23	29.22	29,900	50
				1928	1928	32.6	(1)				
553	01673500	Totopotomoy Creek near Atlee, Va.	5.89	1945, 1949-72	1955	8.62	748	June 22	6.88	308	11
554	01673800	Po River near Spotsylvania, Va.	77.4	1963-72	1969	14.00	4,480	June 22	19.03	10,900	>100
555	01674000	Mattaponi River near Bowling Green, Va.	257	1942-72	1942	17.45	10,400	June 23	18.95	13,400	75
				1928	1928	19.5	15,000				
556	01674500	Mattaponi River near Beulahville, Va.	601	1928, 1942-72	1969	24.04	12,300	June 25	23.97	16,900	>100
557	01674700	Aylett Creek at Aylett, Va.	6.17	1969-72	1969	4.50	320	June 22	4.75	625	20
		James River basin									
558	02011500	Back Creek near Mountain Grove, Va.	134	1951-72	1967	10.77	12,700	June 21	9.25	8,270	5
				1913	1913	17	(1)				
559	02012500	Jackson River at Falling Spring, Va.	411	1926-72	1936	14.74	24,700	June 21	12.72	16,100	5
				1913	1913	20	50,000				
560	02013000	Dunlap Creek near Covington, Va.	164	1929-72	1969	13.13	10,300	June 21	15.65	13,400	>100
				1913	1913	18	(1)				
561	02014000	Potts Creek near Covington, Va.	153	1929-56, 1966-72	1935	10.10	7,510	June 21	12.33	12,400	60
				1913	1913	12.5	(1)				
562	02015700	Bullpasture River at Williamsville, Va.	110	1961-72	1967	5.91	6,230	June 21	4.54	3,720	3
563	02016000	Cowpasture River near Clifton Forge, Va.	461	1926-72	1936	18.62	34,200	June 22	12.63	15,700	5
				1913	1913	20.8	45,000				
564	02016500	James River at Lick Run, Va.	1,373	1924, 1926-72	1936	25.65	66,600	June 21	27.01	66,300	25
				1877	1877	33	120,000				25
565	02017300	Craig Creek near New Castle, Va.	112	1967-72	1969	10.49	3,600	June 21	17.09	16,500	80
566	02017400	Johns Creek tributary near New Castle, Va.	1.57	1967-72	1971	4.32	75	June 21	8.48	354	8
567	02017500	Johns Creek at New Castle, Va.	104	1927-72	1935	10.80	8,000	June 21	12.48	7,960	60
568	02017700	Craig Creek tributary near New Castle, Va.	2.05	1968-72	1970	6.38	252	June 21	7.85	372	7
569	02018000	Craig Creek at Parr, Va.	329	1926-72	1935	17.0	19,100	June 21	19.29	20,200	50
570	02018500	Catawba Creek near Catawba, Va.	34.3	1944-72	1954	6.58	2,780	June 21	10.35	7,740	65
				1940	1940	13.26	(1)				
571	02018800	North Fork near Fincastle, Va.	4.17	1968-71	1968, 1971	5.15	304	June 21	7.00	620	7
572	02019400	Mill Creek near Buchanan, Va.	29.6	1950-72	1961	10.83	7,200	June 21	9.08	4,370	6
				1928	1928	14	(1)				

See footnotes at end of table

TABLE A1.—Summary of flood stages and discharges

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		James River basin--Continued									
573	02019500	James River at Buchanan, Va.	2,075	1870-1972	1877	34.9	142,000	June 22	30.49	111,000	100
574	02020500	Calfpasture River above Mill Creek at Gosher, Va.	144	1939-72	1949	12.14	---	June 22	11.43	13,700	25
					1971	11.97	16,600				
575	02021500	Maury River at Rockbridge Baths, Va.	329	1929-1972	1936	13.07	33,000	June 22	10.81	19,000	15
576	02022500	Kerrs Creek near Lexington, Va.	35.0	1927-72	1950	7/13.8	23,000	June 21	7.92	3,300	3
577	02023300	South River near Steeles Tavern, Va.	15.7	1951-72	1969	8.70	4,700	June 21	5.80	2,040	10
578	02024000	Maury River near Buena Vista, Va.	646	1936-72	1969	31.23	105,000	June 21	17.10	27,800	12
579	02025500	James River at Holcombs Rock, Va.	3,259	1900-17, 1927-72	1969	35.50	150,000	June 22	32.28	126,000	70
580	02025800	Burton Creek tributary near Lynchburg, Va.	2.36	1966-72	1970	5.40	380	June 21	7.88	790	35
581	02026000	James River at Bent Creek, Va.	3,683	1925-72	1969	24.77	144,000	June 21	27.13	176,000	>100
582	02027000	Tye River near Lovingston, Va.	92.8	1934, 1939-72	1969	29.0	80,000	June 21	14.34	12,200	15
583	02027500	Piney River at Piney River, Va.	47.6	1949-72	1969	13.8	38,000	June 21	9.95	10,000	45
584	02027700	Buffalo River tributary near Amherst, Va.	.46	1966-72	1971	3.32	30	June 21	7.18	187	25
585	02027800	Buffalo River near Tye River, Va.	147	1961-72	1969	27.95	45,000	June 21	25.22	36,600	>100
586	02028500	Rockfish River near Greenfield, Va.	94.6	1943-72	1969	31.2	70,000	June 21	18.11	17,500	15
587	02029000	James River at Scottsville, Va.	4,584	1870-1972	1870	30.7	215,000	June 22	34.02	301,000	>100
588	02029400	South Branch North Folk Hardware River near North Garden, Va.	6.59	1949-72	1969	8.7	6,200	June 21	8.80	(1)	(1)
589	02029450	Thomas Creek near Keene, Va.	.28	1966-72	1969	7.37	440	June 21	6.96	325	>100
590	02030000	Hardware River below Briery Run, near Scottsville, Va.	116	1939-72	1969	31.0	52,000	June 21	25.50	21,600	50
591	02030100	Frisby Branch near Buckingham, Va.	4.35	1967-72	1971	7.80	800	June 21	16.50	2,110	>100
592	02030500	Slate River near Arvonia, Va.	226	1927-72	1935	22.18	26,900	June 22	25.10	42,200	>100
593	02030800	Stockton Creek near Afton, Va.	2.80	1967-72	1969	9.3	650	June 21	9.68	678	12
594	02030900	Powells Creek near Crozet, Va.	2.32	1967-72	1971	3.92	(1)	June 21	5.21	(1)	(1)
595	02031500	North Fork Moormans River near Whitehall, Va.	11.4	1952-72	1955	7.94	2,400	June 21	7.42	2,190	30
				1942	1942	11.7	7,620				
596	02032200	Doyles River near Whitehall, Va.	6.70	1967-72	1971	12.04	(1)	June 21	12.90	(1)	(1)
597	02032300	Muddy Run near Stanardsville, Va.	3.36	1967-72	1971	6.77	2,500	June 21	7.20	3,160	>100
598	02032530	Parker Branch near Stanardsville, Va.	3.24	1967-72	1969	8.54	1,300	June 21	8.44	1,270	50
599	02032540	Haneytown Creek near Stanardsville, Va.	4.45	1967-72	1971	12.70	520	June 21	13.72	1,120	20
600	02032550	Lynch River near Nortonsville, Va.	13.6	1967-72	1971	14.35	6,500	June 21	16.50	18,000	>100
601	02032600	Swift Run tributary near Stanardsville, Va.	.35	1966-72	1971	6.20	19	June 21	8.50	63	80
602	02032680	North Fork Rivanna River near Proffit, Va.	176	1970-72	1971	16.67	5,000	June 21	30.40	31,800	>100
603	02033300	Moores Creek near Charlottesville, Va.	3.52	1967-72	1969	16.85	2,000	June 21	16.30	790	20
604	02033700	Henderson Creek near Shadwell, Va.	1.76	1966-72	1969	9.60	2,000	June 21	11.59	(1)	(1)
605	02034000	Rivanna River at Palmyra, Va.	664	1934-72	1969	39.85	86,000	June 22	37.34	73,400	50
606	02034050	Hunters Branch near Palmyra, Va.	1.63	1967-72	1969	10.82	1,500	June 21	10.50	1,400	>100
607	02034500	Willis River at Flanagan Mills, Va.	262	1927-72	1937	23.86	9,580	June 22	29.8	12/24,000	---
608	02035000	James River at Cartersville, Va.	6,257	1899-1972	1969	33.75	250,000	June 22	37.87	362,000	>100
609	02035400	Big Lickinghole Creek tributary near Ferncliff, Va.	.55	1962-72	1969	5.55	600	June 21	4.93	280	30
610	02035450	Rocketts Creek tributary near Gum Springs, Va.	.34	1966-72	1969	9.72	190	June 21	9.58	187	30
611	02036500	Fine Creek at Fine Creek Mills, Va.	22.1	1945-72	1961	8.35	3,640	June 22	6.60	2,140	15
612	02037500	James River near Richmond, Va.	6,758	1935-72	1969	24.95	222,000	June 23	28.62	313,000	>100
613	02038000	Falling Creek near Chesterfield, Va.	32.8	1955-72	1960	12.67	2,510	June 22	8.46	614	<2
614	02038800	Appomattox River near Appomattox, Va.	5.79	1955-72	1971	6.06	780	June 21	8.68	3,870	>100
615	02038850	Holiday Creek near Andersonville, Va.	8.53	1967-72	1971	5.24	635	June 21	14.64	9,640	>100
616	02039000	Buffalo Creek near Hampden Sydney, Va.	69.7	1947-72	1971	11.96	8,280	June 21	12.38	9,160	>100
				1940	1940	15	(1)				
617	02039500	Appomattox River at Farmville, Va.	303	1927-72	1940	23.60	21,000	June 22	29.70	33,100	>100
618	02040000	Appomattox River at Mattoax, Va.	726	1901-05, 1927-72	1940	35.3	35,000	June 25	34.08	31,100	75
619	02040600	Nibbs Creek tributary near Amelia, Va.	.35	1966-72	1969	8.00	115	June 21	9.48	740	>100
620	02041000	Deep Creek near Mannboro, Va.	158	1946-72	1971	19.53	10,200	June 22	16.93	7,640	15
621	02041650	Appomattox River at Matoaca, Va.	1,344	1940, 1970-72	1971	14.35	22,000	June 27	14.60	22,800	25
622	02042500	Chickahominy River near Providence Forge, Va.	248	1942-72	1955	11.67	7,710	June 25	10.07	3,440	6
		Chowan River basin									
623	02044000	Nottoway River near Burkeville, Va.	38.7	1930-72	1940	27.4	(1)	June 21	21.95	11,800	>100
				1947-72	1971	22.33	13,400				
624	02044200	Falls Creek tributary near Victoria, Va.	.34	1962-72	1971	5.75	138	June 21	9.15	343	>100
625	02044400	Hurricane Branch near Blackstone, Va.	1.61	1967-72	1971	9.20	440	June 21	13.31	1,340	>100
626	02044500	Nottoway River near Rawlings, Va.	309	1940, 1951-72	1971	21.36	23,900	June 22	20.42	21,100	>100
627	02045500	Nottoway River near Stony Creek, Va.	579	1930-72	1940	23.66	25,200	June 24	19.85	8,630	6
628	02046000	Stony Creek near Dinwiddie, Va.	112	1947-72	1971	15.07	5,030	June 23	8.72	1,040	<2
629	02047000	Nottoway River near Sebrell, Va.	1,421	1940-72	1940	29.7	48,000	June 27	18.58	9,840	4
630	02047500	Blackwater River near Dendron, Va.	294	1940-72	1940	13.1	10,000	June 24	4.46	848	<2
631	02048000	Blackwater River at Zuni, Va.	456	1940-72	1940		16,000	June 26	8.25	1,010	<2
632	02049500	Blackwater River near Franklin, Va.	617	1940-72	1940	22	21,000	July 2	---	1,610	<2
								July 16	8.74	---	
633	02050400	North Meherrin River near Briery, Va.	1.19	1966-72	1971	7.85	472	June 21	7.65	448	35
634	02050500	North Meherrin River near Keysville, Va.	9.2	1949-61, 1966-72	1971	7.94	1,670	June 21	8.03	1,720	60
				1940	1940	10.3	(1)				
635	02051000	North Meherrin River near Lunenburg, Va.	55.6	1947-72	1971	28.30	14,400	June 21	20.65	4,780	20
				1940	1940	48	(1)				
636	02051500	Meherrin River near Lawrenceville, Va.	552	1873-1972	1940	42.0	38,000	June 23	23.96	9,760	4
637	02051600	Great Creek near Cochran, Va.	30.7	1958-72	1959	---	4,810	June 22	15.34	5,470	20
					1966	14.58	---				
638	02052000	Meherrin River at Emporia, Va.	747	1873-1972	1940	31.5	40,000	June 24	21.84	9,770	3
639	02052500	Fontaine Creek near Brink, Va.	65.2	1954-72	1958	18.18	2,660	June 22	13.60	1,600	3
				1940	1940	18.5	(1)				

TABLE A1.—Summary of flood stages and discharges --Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Roanoke River basin									
640	02053800	South Fork Roanoke River near Shawsville, Va. ------	110	1961-72	1967	6.35	3,340	June 21	11.12	14,200	>100
				1959	1959	9.89	(1)				
641	02054500	Roanoke River at Lafayette, Va.----------	257	1940-72	1940	12.2	19,000	June 21	15.60	24,500	>100
642	02055000	Roanoke River at Roanoke, Va.----------	395	1899-1972	1940	18.25	22,800	June 21	19.61	25,300	>100
643	02055100	Tinker Creek near Daleville, Va.----------	11.7	1957-72	1961	8.52	2,180	June 21	9.82	4,000	>100
				1940	1940	9.0	(1)				
644	02056000	Roanoke River at Niagara, Va.----------	512	1927-72	1940	17.5	24,400	June 21	18.98	28,800	>100
645	02057400	Smith Mountain Lake near Penhook, Va.----------	1,024	1963-72	1971	4/795.2	2/1,146,500	June 22	4/797.6	1,200,600	---
646	02057700	Powder Mill Creek at Rock Mount, Va.----------	.64	1967-72	1969	15.10	158	July 5	15.65	202	(1)
647	02058400	Pigg River near Sandy Level, Va.----------	350	1964-72	1964	21.11	14,900	June 22	24.07	22,700	25
648	02059400	Leesville Lake near Leesville, Va.----------	1,505	1962-72	1965	4/614.0	5/98,180	June 23	4/613.0	5/94,960	---
649	02059450	South Fork Goose Creek at Montvale, Va.----------	7.56	1967-72	1968	5.0	750	June 21	8.10	2,060	(1)
650	02059500	Goose Creek near Huddleston, Va.----------	188	1924-27, 1930-72	1937	25.75	20,300	June 21	19.43	13,600	10
				1928	1928	7/35.3	(1)				
651	02060500	Roanoke (Staunton) River at Altavista, Va.----------	1,789	1931-72	1940	40.08	105,000	June 22	26.78	37,300	4
652	02061500	Big Otter River near Evington, Va.----------	320	1937-72	1937	---	27,500	June 21	21.03	18,800	15
					1939	23.1	---				
653	02062500	Roanoke (Staunton) River at Brookneal, Va.----------	2,415	1878, 1924-72	1940	46.5	130,000	June 22	34.27	58,400	10
654	02063600	Button Creek near Rustburg, Va.----------	.59	1966-72	1971	4.05	72	June 21	5.65	152	8
655	02063700	Button Creek tributary near Rustburg, Va.----------	.16	1962-72	1964	4.65	45	June 21	4.35	35	3
656	02064000	Falling River near Naruna, Va.----------	173	1930-34, 1940-72	1940	26.5	22,000	June 22	29.21	32,600	>100
657	02065100	Snake Creek near Brookneal, Va.----------	1.68	1967-72	1971	7.10	380	June 21	10.00	715	>100
658	02065200	Roanoke (Staunton) River at Clarkton, Va.----------	2,691	1964-72	1967	24.87	24,700	June 22	35.56	85,500	10
659	02065300	Right Hand Fork near Appomattox, Va.----------	2.08	1964-72	1971	9.50	400	June 21	15.54	705	50
660	02065500	Cub Creek at Phenix, Va.----------	98.0	1946-72	1948	13.0	2,720	June 22	20.37	7,380	25
				1940	1940	17.5	(1)				
661	02066000	Roanoke (Staunton) River at Randolph, Va.----------	2,977	1878, 1901-72	1940	41.6	150,000	June 23	30.96	72,500	15
662	02066500	Roanoke Creek at Saxe, Va.----------	135	1947-72	1971	15.83	7,110	June 22	13.11	4,270	25
				1940	1940	6/25.7	(1)		6/14.79		
663	02068500	Dan River near Francisco, N. C.----------	124	1925-72	1937	12.45	12,400	June 21	9.32	7,530	11
				1916	1916	15	16,000				
664	02068610	Hog Rock Creek near Moores Springs, N. C.----------	.30	1954-72	1964	22.12	279	June 21	19.95	145	3
665	02068660	Little Snow Creek near Lawsonville, N. C.----------	5.4	1954-72	1962	23.52	2,000	June 21	24.3	3,000	>100
666	02069030	Belews Creek near Kernersville, N. C.----------	15	1954-72	1969	24.36	3,600	June 21	24.87	5,600	100
667	02069700	South Mayo River near Nettleridge, Va.----------	84.6	1963-72	1970	10.91	3,290	June 21	18.32	16,100	75
668	02070000	North Mayo River near Spencer, Va.----------	108	1929-72	1947	15.80	17,200	June 21	13.41	12,600	35
669	02070500	Mayo River near Price, N. C.----------	260	1930-72	1937	14.00	30,000	June 21	14.02	27,100	50
670	02070810	Jacobs Creek near Wentworth, N. C.----------	16	1954-72	1954	28.94	2,800	June 21	30.2	4,500	35
671	02071000	Dan River near Wentworth, N. C.----------	1,050	1940-72	1945	27.78	38,100	June 22	31.60	54,200	>100
				1908	1908	34.9	(1)				
672	02071410	Matrimony Creek near Leaksville, N. C.----------	12.0	1958-72	1969	17.98	2,300	June 21	18.59	2,800	100
673	02071900	Philpott Lake near Philpott, Va.----------	216	1950-72	1971	4/977.67	5/174,740	June 22	4/983.06	5/191,700	---
674	02072000	Smith River near Philpott, Va.----------	216	1947-72	1949	20.3	17,000	June 22	8.10	4,560	(1)
675	02072500	Smith River at Bassett, Va.----------	259	1938-72	1937	22.9	38,200	June 21	8.61	6,550	(1)
676	02073000	Smith River at Martinsville, Va.----------	380	1930-72	1937	21.50	39,000	June 21	14.95	20,900	(1)
677	02074000	Smith River at Eden, N. C.----------	538	1940-72	1940	19.28	45,600	June 21	16.24	24,800	(1)
678	02074500	Sandy River near Danville, Va.----------	112	1930-72	1940	14.8	23,000	June 21	9.92	10,500	25
679	02075000	Dan River at Danville, Va.----------	2,050	1892-1972	1940	20.96	75,000	June 22	21.34	59,200	25
680	02075160	Moon Creek near Yanceyville, N. C.----------	29.9	1954-72	1954	20.70	3,050	June 21	13.81	4,010	50
681	02075230	South Country Line Creek near Hightowers, N. C.------	7.1	1954-72	1955	22.12	2,360	June 21	17.59	1,050	3
682	02075500	Dan River at Paces, Va.----------	2,550	1951-72	1954	25.40	34,000	June 23	33.15	64,800	25
				1940	1940	32.3	(1)				
683	02075900	Lawsons Creek near Turbeville, Va.----------	8.7	1951-72	1959	14.0	7,740	June 21	14.90	2,040	10
684	02076200	Bearskin Creek near Chatham, Va.----------	4.06	1967-72	1967	11.5	1,530	June 21	13.12	1,920	10
685	02076500	Georges Creek near Gretna, Va.----------	9.24	1950-72	1967	7.66	1,440	June 21	7.75	1,160	10
686	02076600	Whitethorn Creek tributary near Gretna, Va.----------	1.93	1966-72	1967	5.70	340	June 21	7.00	510	10
687	02076700	Blacks Creek near Mt. Airy, Va.----------	3.44	1966-72	1971	10.45	870	June 21	13.66	1,080	10
688	02077000	Banister River at Halifax, Va.----------	547	1905, 1929-72	1944	40.8	50,000	June 22	28.90	16,000	10
689	02077200	Hyco Creek near Leasburg, N. C.----------	44.0	1965-72	1968	35.92	2,480	June 21	35.98	2,540	5
690	02077210	Kilgore Creek tributary near Leasburg, N. C.	.22	1954-72	1961	24.21	252	June 21	(1)	(1)	---
691	02077240	Double Creek near Roseville, N. C.----------	7.47	1965-72	1968	4.74	892	June 21	2.97	178	<2
692	02077250	South Hyco Creek near Roseville, N. C.----------	55	1962-72	1968	21.05	2,400	June 21	21.74	2,770	4
693	02077300	Hyco River at McGehees Mill, N. C.----------	191	1965-72	1966	15.58	3,870	June 22	15.15	3,420	---
694	02077310	Storys Creek near Roxboro, N. C.----------	2.0	1954-72	1955	20.95	350	June 21	20.7	320	15
695	02077500	Hyco River near Denniston, Va.----------	289	1929-34, 1951-72	1929	21.88	7,630	June 22	16.82	3,820	(1)
				1928	1928	26.4	(1)				
696	02079490	John H. Kerr Reservoir near Boydton, Va.----------	7,780	1950-72	1958	4/309.02	5/1,965,700	June 27	4/314.58	6/2,332,300	---
697	02079640	Allen Creek near Boydton, Va.----------	53.4	1962-72	1971	21.80	5,620	June 22	16.80	2,160	3
698	02080500	Roanoke River at Roanoke Rapids, N. C.----------	8,410	1771-1972	1940	39.0	261,000	June 28	9.55	24,600	---

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Allegheny River basin									
699	---	Mill Creek at Coudersport, Pa.	31.3	---	---	---	---	June 22	---	3,490	80
700	---	Allegheny River at Coudersport, Pa.	44.6	---	---	---	---	June 22	---	5,790	>100
701	---	Newell Creek near Port Allegany, Pa.	7.79	1960-72	1960	6.93	740	June 21	6.40	3,000	>100
702	---	Marvin Creek at Smethport, Pa.	55.2	---	---	---	---	June 22	---	4,200	40
703	---	Potato Creek at Smethport, Pa.	160	---	---	---	---	June 22	---	12,800	100
704	03010500	Allegheny River at Eldred, Pa.	550	1940-72	1942	27.6	55,000	June 23	29.05	65,400	>100
705	03010678	Little Genesee Creek at Little Genesee, N. Y.	37.0	---	---	---	---	June 23	---	8,330	>100
706	03010718	Dodge Creek at Portville, N. Y.	45.7	---	---	---	---	June 23	---	4,200	15
707	03010783	Johnson's Creek at Cuba, N. Y.	2.1	1967	1967	---	632	June 23	---	609	(1)
708	03010800	Olean Creek near Olean, N. Y.	198	1959-68, 1970-72	1967	16.06	18,200	June 23	11.52	6,000	3
709	03011020	Allegheny River at Salamanca, N. Y.	1,608	1904-72	1956	15.11	49,100	June 23	24.01	73,000	>100
710	03011800	Kinzua Creek near Guffey, Pa.	46.4	1966-72	1967	8.33	4,090	June 22	8.99	5,220	>100
711	03012520	Allegheny Reservoir near Kinzua, Pa.	2,180	1966-72	1969	1,339.17	719,560	June 27	1,362.20	1,121,120	---
712	03012600	Allegheny River at Warren, Pa.	2,223	1936-72	1956	19.95	60,500	June 28	14.12	25,000	(1)
713	03013000	Conewango Creek at Waterboro, N. Y.	290	1939-72	1947	---	8,600	June 26	10.16	3,970	2
					1956	11.58	---				
714	03013070	Mill Creek at Sinclairville, N. Y.	17.6	1954	1954	---	2,740	June 23	---	2,070	(1)
715	03013990	Chautauqua Lake near Mayville, N. Y.	189	1950-72	1956	10.67	---	June 25	10.17	---	(1)
716	03014500	Chadakoin River at Falconer, N. Y.	194	1935-72	1947	4.56	2,050	June 24	4.01	1,650	5
717	03015000	Conewango Creek at Russell, Pa.	816	1940-72	1947	10.69	14,400	June 26	8.81	9,920	(1)
				1936	1936	10.9	14,600				
718	03015080	Akeley Run near Russell, Pa.	9.64	1962-72	1966	2.96	735	June 23	2.60	683	3
719	03015280	Jackson Run near North Warren, Pa.	12.8	1963-72	1972	5.35	1,020	June 23	4.22	627	2
720	03015390	Hare Creek near Corry, Pa.	12.3	1964-72	1964	6.30	1,370	June 23	5.63	744	3
721	03015500	Brokenstraw Creek at Youngsville, Pa.	321	1910-72	1913	14.2	18,000	June 23	10.78	11,800	9
722	03016000	Allegheny River at West Hickory, Pa.	3,660	1942-72	1956	17.20	101,000	June 25	11.18	42,300	(1)
723	03017500	Tionesta Creek at Lynch, Pa.	233	1938-72	1959	11.25	15,000	June 23	10.42	12,400	16
724	03017800	Minister Creek near Truemans, Pa.	10.8	1961-72	1969	3.87	726	June 23	3.41	539	<2
725	03019500	Tionesta Lake at Tionesta Dam, Pa.	478	1941-72	1964	1,161.55	111,320	June 25	1,143.38	72,080	---
726	03020000	Tionesta Creek at Tionesta, Pa.	479	1941-72	1964	---	13,500	June 27	8.43	8,890	6
					1964	11.31	---				
727	03020440	West Branch Caldwell Creek near Grand Valley, Pa.	4.37	1964-72	1964	9.99	500	June 23	8.59	397	4
728	03020500	Oil Creek at Rouseville, Pa.	300	1910-72	1959	11.97	21,000	June 23	10.25	12,000	7
729	03021518	Union City Reservoir near Union City, Pa.	220	1970-72	1972	1,263.90	21,600	June 26	1,264.30	22,170	---
730	03021520	French Creek near Union City, Pa.	221	1910-72	1947	13.50	20,000	June 26	8.00	2,880	(1)
731	03021700	Little Conneauttee Creek near McKean, Pa.	3.60	1961-72	1969	4.90	830	June 23	4.52	596	25
732	03024000	French Creek at Utica, Pa.	1,028	1912-72	1913	15.7	35,600	June 26	10.01	13,600	(1)
733	03025000	Sugar Creek at Sugarcreek, Pa.	166	1932-72	1946	11.49	10,000	June 23	9.85	8,240	10
734	03025200	Patchel Run near Franklin, Pa.	5.69	1961-72	1968	5.17	504	July 2	6.28	1,650	>100
735	03025500	Allegheny River at Franklin, Pa.	5,982	1864-1972	1865	25.0	196,000	June 25	15.84	85,400	(1)
736	03026400	Richey Run at Emlenton, Pa.	5.88	1963-72	1963	3.35	509	June 23	3.40	521	5
					1964	3.35	509				
					1966	3.35	509				
737	03026500	Sevenmile Run near Rasselas, Pa.	7.84	1952-72	1967	4.79	1,620	June 21	4.84	976	7
738	03027000	East Branch Clarion River Lake at East Branch Clarion River Dam, Pa.	72.4	1952-72	1956	1,676.58	73,230	June 24	1,685.55	85,010	---
739	03027500	East Branch Clarion River at East Branch Clarion River Dam, Pa.	73.2	1949-72	1957	7.25	2,590	June 24	6.03	1,810	(1)
				1946	1946	8.3	4,000				
740	03028000	West Branch Clarion River at Wilcox, Pa.	63.0	1954-72	1967	10.01	5,490	June 22	9.64	4,900	18
741	03028500	Clarion River at Johnsonburg, Pa.	204	1946-72	1946	9.2	11,700	June 22	9.94	11,600	(1)
				1942	1942	16.7	(1)				
742	03029000	Clarion River at Ridgway, Pa.	303	1941-53	1942	16.4	34,000	June 23	19.49	19,000	(1)
743	03029200	Clear Creek near Sigel, Pa.	8.67	1960-72	1964	7.22	766	June 22	7.57	871	3
744	03029400	Toms Run at Cooksburg, Pa.	12.6	1960-72	1964	4.37	---	June 22	3.65	532	11
					1964	4.17	656				
745	03029500	Clarion River at Cooksburg, Pa.	807	1935-72	1936	19	56,000	June 23	18.84	53,300	>100
746	03030500	Clarion River near Piney, Pa.	951	1935-72	1936	(1)	50,000	June 23		74,500	>100
747	03031500	Allegheny River at Parker, Pa.	7,671	1865-1972	1865	29.4	250,000	June 23	22.23	147,000	(1)
				1959	1959	29.60	---				
748	03031780	Mill Creek near Brockway, Pa.	2.12	1965-72	1966	6.43	306	June 22	6.15	235	4
749	03031950	Big Run near Sprankle Mills, Pa.	7.38	1964-72	1966	6.23	822	June 22	6.11	854	14
750	03032500	Redbank Creek at St. Charles, Pa.	528	1919-72	1936	18.60	50,000	June 23	17.75	32,800	60
751	03034000	Mahoning Creek at Punxsutawney, Pa.	158	1936-72	1936	15.6	12,500	June 23	15.94	17,300	>100
752	03034500	Little Mahoning Creek at McCormick, Pa.	87.4	1940-72	1952	11.42	5,300	June 23	13.20	6,200	50
					1959	13.86	---				
753	03035500	Mahoning Creek Lake at Mahoning Creek Dam, Pa.	340	1942-72	1964	1,161.32	72,580	June 27	1,160.16	69,870	---
754	03036000	Mahoning Creek at Mahoning Creek Dam, Pa.	344	1939-72	1942	8.10	10,400	June 27	7.85	7,820	5
755	03036500	Allegheny River at Kittanning, Pa.	8,973	1806-1972	1913	30.7	269,000	June 23	25.42	184,000	(1)
756	03038000	Crooked Creek at Idaho, Pa.	191	1936-72	1936	18.6	19,400	June 23	15.93	13,200	(1)
757	03038500	Crooked Creek Lake at Crooked Creek Dam, Pa.	277	1941-72	1948	889.02	58,020	June 25	901.29	61,450	---
758	03039000	Crooked Creek at Crooked Creek Dam, Pa.	278	1910-72	1936	17.86	21,000	June 25	8.85	5,350	6
759	03039200	Clear Run near Buckstown, Pa.	3.68	1961-72	1961	5.30	250	June 23	4.53	266	<2
760	03040000	Stony Creek at Ferndale, Pa.	451	1914-72	1936	30.26	59,000	June 23	13.36	22,800	11
761	03041000	Little Conemaugh River at East Conemaugh, Pa.	183	1935-72	1936	(1)	28,800	June 23	10.48	16,600	>100
762	03041500	Conemaugh River at Seward, Pa.	715	1935-72	1936	26.4	90,000	June 23	18.93	49,300	>100
763	03042000	Blacklick Creek at Josephine, Pa.	192	1952-72	1954	12.67	11,900	June 23	13.99	20,800	>100
764	03042170	Stony Run at Indiana, Pa.	4.39	1964-72	1969	8.33	394	June 23	8.56	420	<2
765	03042200	Little Yellow Creek near Strongstown, Pa.	7.36	1960-72	1963	5.56	---	June 23	6.10	820	40
					1964	5.06	541				
766	03042260	Yellow Creek Lake at Yellow Creek State Park, Pa.	52.5	1971-72	1972	1,282.90	16,410	June 23	1,285.02	18,420	---

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Allegheny River basin--Continued									
767	03042280	Yellow Creek near Homer City, Pa.	59.5	1968-72	1968	3/7.76	1,300	June 23	7.46	4,100	(1)
					1971	3/8.37	---				
768	03042500	Twolick Creek at Graceton, Pa.	171	1952-72	1954	12.71	12,900	June 23	14.69	19,600	(1)
769	03043500	Conemaugh River Lake at Conemaugh River Dam, Pa.	1,351	1952-72	1964	4/968.23	5/230,520	June 25	4/969.45	5/237,980	---
770	03044000	Conemaugh River at Tunnelton, Pa.	1,358	1940-72	1945	21.0	59,200	June 25	12.60	25,900	6
771	03045000	Loyalhanna Creek at Kingston, Pa.	172	1918-72	1954	15.8	29,700	June 23	13.76	21,500	50
772	03046500	Loyalhanna Lake at Loyalhanna Dam, Pa.	290	1943-72	1948	4/956.82	5/47,910	June 25	4/967.41	5/72,830	---
773	03047000	Loyalhanna Creek at Loyalhanna Dam, Pa.	292	1940-72	1941	10.30	11,700	June 30	8.05	6,080	<2
774	03048500	Kiskiminetas River at Vandergrift, Pa.	1,825	1920-72	1936	41.64	185,000	June 25	17.81	32,600	10
775	03049000	Buffalo Creek near Freeport, Pa.	137	1941-72	1954	13.60	14,000	June 23	11.21	9,980	25
776	03049100	Little Buffalo Creek at Cabot, Pa.	4.66	1959-72	1962	5.85	326	June 23	7.49	404	<2
777	03049500	Allegheny River at Natrona, Pa.	11,410	1936-72	1936	32.06	365,000	June 23		205,000	(1)
778	03049800	Little Pine Creek near Etna, Pa.	5.78	1963-72	1963	3.85	360	June 23	3.82	357	<2
					1971	3/5.76	---				
		Monongahela River basin									
779	03050000	Tygart Valley River near Dailey, W. Va.	187	1916-72	1932	17.2	13,100	June 23	12.77	10,400	14
780	03050500	Tygart Valley River at Elkins, W. Va.	272	1945-72	1969	15.65	13,100	June 24	14.42	10,800	10
781	03050650	Unnamed Run at Gilman, W. Va.	.38	1964-72	1964	10.90	310	June 23	4.25	25	<2
782	03051000	Tygard Valley River at Belington, W. Va.	408	1888, 1908-72	1888	21.7	21,200	June 23	17.52	15,800	15
783	03052000	Middle Fork River at Audra, W. Va.	149	1943-72	1967	12.68	10,900	June 23	13.67	11,500	90
784	03052300	Bridge Run near Buckhannon, W. Va.	2.60	1967-72	1969	11.40	330	June 23	9.50	145	<2
785	03052340	Mud Lick Run near Buckhannon, W. Va.	2.33	1967-72	1969	7.90	250	June 23	6.72	110	<2
786	03052500	Sand Run near Buckhannon, W. Va.	14.5	1947-72	1950	6.18	2,000	June 23	6.07	1,050	4
787	03053500	Buckhannon River at Hall, W. Va.	277	1908, 1916-72	1967	15.07	13,000	June 24	14.42	12,000	22
788	03054500	Tygart Valley River at Philippi, W. Va.	916	1940-72	1967	25.93	43,000	June 23	24.67	39,500	40
				1912	1912	26	(1)				
789	03055020	Bonica Run on U.S. Highway 250 near Philippi, W. Va.	.60	1965-72	1971	6.15	156	June 23	4.90	86	3
790	03055500	Tygart Lake near Grafton, W. Va.	1,184	1939-72	1958	4/1,152.72	2/43,600	June 25	4/1,155.22	5/251,100	---
791	03056600	Right Fork Wickwire Run on U.S. Highway 119 near Grafton, W. Va.	2.33	1965-72	1969	9.60	430	June 23	7.50	220	2
792	03057000	Tygart Valley River at Colfax, W. Va.	1,366	1940-72	1948	16.86	22,500	June 25	13.85	16,800	<2
					1963	6/19.77	---				
793	03057500	Skin Creek near Brownsville, W. Va.	25.7	1946-72	1957	7.90	2,280	June 23	4.85	900	<2
					1950	8.64	---				
794	03058000	West Fork River at Brownsville, W. Va.	102	1947-72	1950	17.20	6,420	June 23	9.89	2,000	<2
795	03058500	West Fork River at Butcherville, W. Va.	181	1916-72	1950	16.81	18,000	June 23	6.21	2,790	<2
796	03059000	West Fork River at Clarksburg, W. Va.	384	1924-72	1967	23.40	17,800	June 24	9.36	4,700	<2
797	03061000	West Fork River at Enterprise, W. Va.	759	1908-16, 1934-72	1967	28.05	36,500	June 24	12.10	9,740	<2
				1888	1888	33	(1)				
798	03061500	Buffalo Creek at Barrackville, W. Va.	115	1908, 1912, 1916-23, 1933-72	1912	18	11,600	July 17	6.77	1,340	<2
799	03062400	Cobun Creek at Morgantown, W. Va.	10.9	1965-72	1967	9.87	983	June 23	12.80	1,770	60
800	03062500	Deckers Creek at Morgantown, W. Va.	63.2	1947-69	1956	10.12	5,680	June 23	9.40	5,120	40
801	03063600	Horse Camp Run at Harman, W. Va.	6.57	1970-72	1970	4.02	304	June 23	3.58	223	<2
802	03065000	Dry Fork at Hendricks, W. Va.	345	1941-72	1954	15.23	47,000	June 23	9.67	16,900	4
803	03066000	Blackwater River at Davis, W. Va.	86.2	1922-72	1924	13.20	7,170	June 23	6.86	1,920	<2
804	03069000	Shavers Fork at Parsons, W. Va.	214	1888, 1907, 1911-26, 1941-72	1888	7/12.5	25,000	June 23	10.15	11,800	8
805	03069500	Cheat River near Parsons, W. Va.	718	1888-1972	1954	19.08	52,100	June 23	13.79	33,600	6
806	03069650	Right Fork Clover Run near Parsons, W. Va.	2.21	1967-72	1968	8.00	(1)	June 23	4.50	(1)	(1)
807	03069850	Long Run near Parsons, W. Va.	.95	1967-72	1969	10.10	205	June 23	7.36	65	<2
808	03069880	Buffalo Creek near Rowlesburg, W. Va.	12.2	1968-72	1971	5.66	2,690	June 23	4.56	1,520	15
809	03070000	Cheat River at Rowlesburg, W. Va.	972	1844, 1888, 1912-18, 1921, 1925-72	1844	16.7	89,000	June 23	13.46	55,000	15
810	03070500	Big Sandy Creek at Rockville, W. Va.	200	1888, 1910-72	1888	20	30,000	June 23	15.86	16,200	22
811	03072000	Dunkard Creek at Shannopin, Pa.	229	1941-72	1941	14.02	16,800	June 23	9.49	5,900	<2
812	03072500	Monongahela River at Greensboro, Pa.	4,407	1936, 1939-72	1967	29.61	134,000	June 23	23.64	103,000	4
				1888	1888	36	(1)				
813	03072590	Georges Creek at Smithfield, Pa.	16.3	1964-72	1967	6.80	1,100	June 23	10.01	1,640	7
814	03072840	Tenmile Creek near Clarksville, Pa.	133	1969-72	1971	5.49	4,200	June 23	6.28	6,620	4
815	03072880	Browns Creek near Nineveh, Pa.	17.5	1963-72	1963	10.84	2,100	June 23	10.02	1,420	3
816	03073000	South Fork Tenmile Creek at Jefferson, Pa.	180	1932-72	1941	18.45	13,800	June 23	12.07	6,980	2
817	03074300	Lick Run at Hopwood, Pa.	3.80	1959-72	1971	3.85	371	June 23	4.30	690	12
818	03074500	Redstone Creek at Waltersburg, Pa.	73.7	1943-72	1954	11.83	4,400	June 23	14.83	8,660	>100
819	03075000	Monongahela River at Charleroi, Pa.	5,213	1887-1972	1888	44.0	156,000	June 24	35.4	110,000	3
					1967	41.63	158,000				
820	03075450	Little Youghiogheny River tributary near Deer Park, Md.	.57	1965-72	1968	5.05	32	June 29	5.31	40	(1)
821	03075500	Youghiogheny River near Oakland, Md.	134	1942-72	1954	12.16	11,800	June 23	8.01	4,980	3
				1936	1936	15.3	(1)				
822	03075600	Toliver Run tributary near Hoyes Run, Md.	.53	1965-72	1971	4/5.89	60	June 23	4/5.03	35	(1)
823	03076000	Deep Creek Reservoir near Oakland, Md.	64.7	1926-72	1949	2,462.08	5/93,258	July 6	2,460.3	5/86,700	---
824	03076500	Youghiogheny River at Friendsville, Md.	295	1898-1972	1924	10.2	15,600	June 23	6.72	7,250	2

See footnotes at end of table

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Monongahela River basin--Continued									
825	03076600	Bear Creek at Friendsville, Md.	48.9	1965-72	1971	4/ 9.6	5/ 4,650	June 29	4/ 5.42	1,880	<2
826	03077000	Youghiogheny River Lake at Youghiogheny River Dam, Pa.	434	1944-72	1967	4/1,457.23	5/10,250	June 26	4/1,452.44	5/194,840	---
827	03077500	Youghiogheny River at Youghiogheny River Dam, Pa.	436	1940-72	1954 1948	6/19.08 11.28	--- 13,700	June 27	8.39	6,740	3
828	03077700	North Branch Casselman River tributary at Foxtown, Md.	1.0	1965-72	1971	6.31	84	June 23	4.92	51	(1)
829	03078000	Casselman River at Grantsville, Md.	62.5	1948-72	1954	10.70	8,400	June 23	4.80	1,820	<2
830	03078500	Big Piney Run near Salisbury, Pa.	24.5	1933-72	1954	8.56	6,850	June 23	3.83	686	<2
831	03079000	Casselman River at Markleton, Pa.	382	1915-72	1954	14.06	50,000	June 23	8.83	14,300	3
832	03080000	Laurel Hill Creek at Ursina, Pa.	121	1918-72	1954	10.63	10,900	June 23	7.08	6,350	5
833	03081000	Youghiogheny River below Confluence, Pa.	1,029	1936-72	1936	21.6	85,000	June 23	11.88	23,200	5
834	03082200	Poplar Run near Normalville, Pa.	9.27	1962-72	1971	8.37	1,890	June 23	6.76	1,240	5
835	---	Gist Run near Dunbar, Pa.	7.36	---	---	---	---	June 23	---	1,230	10
836	03082500	Youghiogheny River at Connellsville, Pa.	1,326	1860,1888, 1891-99, 1901-72	1954	21.96	103,000	June 23	16.53	51,600	10
837	03083000	Green Lick Run at Green Lick Reservoir, Pa.	3.07	1942-72	1943 1944	5.1 5.42	1,400 ---	June 23	3.13	848	17
838	03083500	Youghiogheny River at Sutersville, Pa.	1,715	1921-72	1954	32.5	108,000	June 23 June 23	6/--- 29.7	83,000 ---	30
839	03083600	Gillespie Run near Sutersville, Pa.	4.04	1959-72	1969	6.29	586	June 23	5.25	586	5
840	03084000	Abers Creek near Murrysville, Pa.	4.39	1949-72	1950	7.72	1,600	June 23	5.78	720	5
841	03085000	Monongahela River at Braddock, Pa.	7,337	1936-72	1936	38.8	210,000	June 24	31.39	180,000	22
		Ohio River main stem									
842	03086000	Ohio River at Sewickley, Pa.	19,500	1934-72	1936	34.75	574,000	June 24	24.42	370,000	(1)
843	03115000	Ohio River at St. Mary s, W. Va.	26,850	1884-1972 1939-72	1913 1943	54.2 46.67	(1) 421,000	June 25	38.48	382,000	(1)
844	03115200	Ohio River near Waverly, W. Va.	(1)	1939-72	(1)	(1)	(1)	June 25	30.65	(1)	---
845	03150800	Ohio River near Marietta, Ohio	35,600	1969-72	1970	31.75	(1)	June 26	36.09	(1)	---
846	03160000	Ohio River at Pomeroy, Ohio	(1)	1936-37, 1940-72 1913	1937 1913	(1) (1)	554,000 633,000	June 26	43.74	(1)	---
		Kanawha River basin									
847	03180500	Greenbriar River at Durbin, W. Va.	134	1944-72	1956 1967	3/9.20 9.15	--- 12,200	June 23	6.14	4,810	3 3
848	03180680	Cooper Run near Green Bank, W. Va.	1.52	1966-72	1970	7.00	230	June 21	4.25	65	<2
849	03181200	Indian Draft near Marlinton, W. Va.	3.06	1969-72	1969	5.26	428	July 4	5.87	266	2
850	03181900	Moody Moore Hollow near Huntersville, W. Va.	.55	1966-72	1969	4.40	20	June 21	3.95	13	<2
851	03182500	Greenbriar River at Buckeye, W. Va.	540	1930-72	1932	17.5	41,500	July 5	13.39	21,800	4
852	03182650	Spring Creek at Spring Creek, W. Va.	120	1972	1972	14.52	8,820	July 5	12.93	7,020	4
853	03182700	Anthony Creek near Anthony, W. Va.	144	1972	1972	16.90	12,900	June 21	17.1	13,500	35
854	---	Dry Fork at White Sulphur Springs, W. Va.	23.0	---	---	---	---	June 21	---	4,100	>100
855	03182950	Howard Creek at Caldwell, W. Va.	84.4	1972	1973	13.45	6,740	June 21	18.6	14,000	>100
856	03183000	Second Creek near Second Creek, W. Va.	80.8	1946-72	1958	7.77	6,100	June 21	9.41	7,470	60
857	03183500	Greenbriar River at Alderson, W. Va.	1,357	1896-1972	1918	22.0	77,500	June 21	15.24	38,000	3
858	03183550	Griffith Creek near Alderson, W. Va.	3.84	1966-72	1969	10.75	420	---	7.00	145	<2
859	03184000	Greenbriar River at Hilldale, W. Va.	1,625	1936-72	1936 1967	21.85 22.66	60,800 56,400	June 22	17.79	39,300	3
860	03184200	Big Creek near Bellepoint, W. Va.	8.27	1970-72	1972	4.60	1,040	June 17	4.49	974	8
861	03186500	Williams River at Dyer, W. Va.	128	1930-72	1932	18.45	22,000	June 23	9.21	6,770	<2
862	03187000	Gauley River at Camden Gauley, W. Va.	236	1909-16, 1930-72	1932	27.38	42,500	June 23	15.19	12,900	3
863	03189100	Gauley River near Craigsville, W. Va.	528	1965-72	1967	22.73	40,700	June 23	18.73	24,700	2
864	03189590	Summersville Lake near Summersville, W. Va.	803	1966-72	1966	4/1,711.7	5/421,800	June 24	4/1,658.80	5/211,300	---
865	03189600	Gauley River below Summersville Dam, W. Va.	804	1967-72	1966	19.30	17,800	June 24	18.49	15,700	(1)
866	03193830	Gilmer Run near Marlinton, W. Va.	1.80	1969-72	1971	6.53	169	July 5	5.81	119	<2
867	03194700	Elk River below Webster Springs, W. Va.	268	1960-72 1861	1967 1861	13.35 26.34	21,400 5/ (1)	June 23	12.25	17,400	8
868	03195400	Sutton Lake at Sutton, W. Va.	537	1961-72	1961	4/950.16	5/111,300	June 24	4/944.84	5/99,940	---
869	03195500	Elk River at Sutton, W. Va.	543	1918, 1940-72	1918	45.2	49,000	June 24	20.45	8,000	(1)
		Ohio River main stem									
870	03201500	Ohio River at Point Pleasant, W. Va.	52,760	1896-1972 1941-72	1913 1943 1948	62.8 --- 55.00	(1) 522,000 ---	June 26	40.95	385,000	(1)
871	03202020	Ohio River at Point Pleasant, W. Va. (Auxilary gage)	(1)	1941-72	---	---	---	June 27	44.03	(1)	---
872	03205220	Ohio River at 24th Street, Huntington, W. Va.	(1)	1935-72	---	---	---	June 27	45.26	(1)	---
873	03206000	Ohio River at Huntington, W. Va.	55,900	1935-72	1937	69.45	654,000	June 27	43.09	375,000	(1)

See footnotes at end of table

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Streams tributary to Lake Erie									
874	04213320	Chautaugus Creek at Barcelona, N. Y.	36.0	---	---	---	---	June 23	---	7,730	>100
875	04213490	South Branch Cattaraugus Creek near Otto, N. Y.	25.6	1963-72	1967	7.23	2,780	June 23	7.34	2,910	5
876	04213492	South Branch Cattaraugus Creek near Cattaraugus, N.Y.	70	---	---	---	---	(1)	---	4,000	<2
877	04213500	Cattaraugus Creek at Gowanda, N. Y.	432	1940-72	1956	14.14	34,600	June 23	12.17	25,300	7
878	04214200	Eighteenmile Creek at North Boston, N. Y.	37.2	1964-68, 1970-72	1967	12.50	5,790	June 23	11.05	4,670	10
879	04214400	Buffalo Creek near Wales Hollow, N. Y.	80.1	1964-68, 1970-72	1967	11.61	9,260	June 23	11.37	8,830	19
880	04214410	Hunter Creek at Colgrave, N. Y.	14.0	1964-72	1967	6.66	1,680	June 23	5.81	1,160	<2
881	04214500	Buffalo Creek at Gardenville, N. Y.	144	1939-72	1942	3/11.90	---	June 23	9.09	12,000	14
					1955	9.43	13,000				
882	04215000	Cayuga Creek near Lancaster, N. Y.	94.9	1939-68, 1971-72	1959	10.09	8,750	June 23	10.09	8,800	35
					1960	3/12.58	---				
883	04215500	Cazenovia Creek at Ebenezer, N. Y.	134	1941-72	1955	15.82	13,500	June 23	13.53	12,300	19
		Streams tributary to Lake Ontario									
884	04220360	Springmills Creek at Springmills, N. Y.	5.01	---	---	---	---	June 22	---	595	(1)
885	0422037A	Cryder Creek at Genesee, Pa.	50.0	---	---	---	---	June 22	---	6,610	>100
886	04220384	Crebed Creek near Stannards, N. Y.	4.07	---	---	---	---	June 22	---	965	(1)
887	04220412	Genesee River at Stannards, N. Y.	179	---	---	---	---	June 22	---	20,200	>100
888	04220418	Fullmer Valley Creek tributary near Andover, N. Y.	.72	---	---	---	---	June 22	---	173	(1)
889	04220420	Fullmer Valley Creek near Hallsport, N. Y.	11.8	---	---	---	---	June 22	---	3,200	>100
890	04220422	Chenunda Creek tributary near Stannards, N. Y.	.04	---	---	---	---	June 21	---	27	(1)
891	04220431	Chenunda Creek at Stannards, N. Y.	30.6	---	---	---	---	June 22	---	9,200	>100
892	04220450	Dyke Creek near West Greenwood, N. Y.	1.64	1964-69, 1971-72	1971	7.47	(1)	June 22	8.5	(1)	(1)
893	04220455	Quig Hollow Brook near Andover, N. Y.	4.24	1964-72	1964, 1971	4.15	254	June 23	5.11	9,200	(1)
894	04220460	East Valley Creek tributary near Andover, N. Y.	1.59	1964-68	1966	3.38	920	June 22	3.04	700	(1)
895	04220465	Railroad Brook near Alfred, N. Y.	1.05	1964-67, 1971-72	1971	2.05	115	June 22	4.75	670	(1)
896	04220472	Indian Creek near Andover, N. Y.	1.07	---	---	---	---	June 23	---	929	(1)
897	04220478	Elm Valley Creek near Elm Valley, N. Y.	4.18	---	---	---	---	June 23	---	1,840	(1)
898	04220492	Trapping Brook near Wellsville, N. Y.	3.19	---	---	4/ ---	---	June 23	---	630	(1)
899	04220500	Dyke Creek at Wellsville, N. Y.	71.4	1956-60, 1964-67, 1969	1960	1,508.28	5,230	June 23	---	12,000	>100
900	04221500	Genesee River at Scio, N. Y.	308	1917-72	1950	11.22	23,300	June 23	14.12	41,000	>100
901	04221510	Vandermark Creek near Scio, N. Y.	22.0	---	---	---	---	June 23	4/ ---	8,670	>100
902	04221518	Snowball Hollow Creek near Scio, N. Y.	3.47	---	---	---	---	June 21	1,552.29	580	(1)
903	04221554	North Branch Phillips Creek at Witney, N.Y.	7.16	---	---	---	---	June 22	4/ ---	1,730	(1)
904	04221555	Phillips Creek at Witney, N. Y.	24.1	---	---	---	---	June 22	1,532.66	5,910	>100
905	04221561	Feathers Creek near Belmont, N. Y.	3.69	---	---	4/ ---	---	June 23	4/ ---	931	(1)
906	04221600	Van Campen Creek at Friendship, N. Y.	45.8	1964-68	1967	1,487.78	13,400	June 22	1,485.60	9,400	>100
907	04221640	Black Creek near Birdsall, N. Y.	19.4	---	---	---	---	June 23	---	1,860	15
908	04221700	Angelica Creek near Angelica, N. Y.	61.3	1942	1942	---	1,400	June 22	---	6,120	>100
909	04221710	Baker Creek near Angelica, N. Y.	22.4	---	---	---	---	June 22	---	3,050	>100
910	04221720	Angelica Creek at Transit Bridge, N. Y.	86.5	1964-68	1967	---	9,560	June 22	---	8,400	>100
911	04222510	Sixtown Creek at Higgins, N. Y.	17.8	---	---	---	---	June 22	---	2,460	>100
912	04222600	Wiscoy Creek at Bliss, N. Y.	21.8	1962-65, 1967-72	1964	3.38	---	June 23	4.06	1,850	10
					1967	3.21	1,050				
913	04223000	Genesee River at Portageville, N. Y.	981	1909-72	1967	22.94	47,300	June 23	35.25	90,000	>100
914	04224000	Mount Morris Lake near Mount Morris, N. Y.	1,075	1952-72	1960	4/719.40	5/216,000	June 25	4/755.46	5/322,600	---
915	04224550	Ewart Creek at Swain, N. Y.	3.90	1964-65	1964	3.80	720	June 22	3.75	700	(1)
916	04224650	Canaseraga Creek at Canaseraga, N. Y.	58.2	1964-68	1967	---	5,480	June 22	---	12,400	>100
917	04224700	Sugar Creek near Ossian, N. Y.	9.83	1964-72	1964	6.45	---	June 23	6.85	1,380	45
					1967	5.92	948				
918	04224800	Stony Brook at South Dansville, N. Y.	2.23	1964-69	1968	2.64	(1)	June 22	3.46	490	(1)
919	04224810	Sponable Creek near South Dansville, N. Y.	.69	1964-67	1967	2.04	(1)	June 22	3.03	121	(1)
920	04224900	Mill Creek at Patchinville, N. Y.	5.00	1964-72	1964	3.79	---	June 23	3.01	1,350	(1)
					1967	2.58	626				
921	04224965	Little Mill Creek near Dansville, N. Y.	7.54	---	---	---	---	June 22	---	835	(1)
922	04224970	Little Mill Creek tributary near Dansville, N. Y.	1.42	---	---	---	---	June 22	---	113	(1)
923	04225000	Canaseraga Creek near Dansville, N. Y.	153	1911-12, 1916-68, 1971-72	1940	7/9.93	9,110	June 23	14.85	9,600	(1)
924	04227500	Genesee River near Mount Morris, N. Y.	1,417	1904-05, 1909-13, 1916-72	1916	25.44	55,100	June 24	24.50	17,800	(1)
925	04227980	Conesus Lake near Lakeville, N. Y.	69.7	1964-72	1971	20.53	---	June 24	22.50	---	---
926	04228500	Genesee River at Avon, N. Y.	1,667	1956-72	1956	37.20	15,600	June 25	40.67	16,500	(1)
927	04228845	Honeoye Lake near Honeoye, N. Y.	41.1	1965-72	1971	4.72	---	June 23	6.91	---	---
928	04228900	Springwater Creek at Springwater, N. Y.	10.1	1965-68, 1970-72	1971	5.37	184	June 23	7.29	1,180	25
929	04229500	Honeoye Creek at Honeoye Falls, N. Y.	195	1946-70	1950	4/616.40	4,630	June 23	4/616.5	4,800	40
930	04230380	Oatka Creek at Warsaw, N. Y.	41.9	1964-72	1967	7.28	1,760	June 23	9.75	4,010	45
931	04230500	Oatka Creek at Garbutt, N. Y.	204	1946-72	1960	8.64	7,050	June 24	6.89	3,840	5
932	04231000	Black Creek at Churchville, N. Y.	123	1946-72	1960	9.44	4,880	June 25	4.24	600	<2
933	04232000	Genesse River at Rochester, N. Y.	2,457	1835-1972	1865	---	54,000	June 25	15.89	29,600	(1)
				1905-72	1916	7/15.3	48,300				
934	04232050	Allen Creek near Rochester, N. Y.	30.1	1960-72	1960	6.06	5,040	June 23	4.82	1,280	4

See footnotes at end of table.

TABLE A1.—Summary of flood stages and discharges--Continued

Report No.	Permanent station No.	Stream and place of determination	Drainage area (sq mi)	Maximum previously known				Maximum June–July 1972			
				Period	Year	Gage height (ft)	Discharge (cfs)	Date	Gage height (ft)	Discharge (cfs)	Recurrence interval (years)
		Streams tributary to Lake Ontario--Continued									
935	04232100	Sterling Creek at Sterling, N. Y.	44.4	1958-72	1960	5.13	1,490	June 22	3.63	460	<2
936	04232192	Catherine Creek tributary No. 4 near Montour Falls, N. Y.	1.00	---	---	---	---	June 22	---	296	(1)
937	04232198	Catherine Creek near Montour, N. Y.	38.2	---	---	---	---	June 22	---	3,150	18
938	04232400	Seneca Lake at Watkins Glen, N. Y.	704	1957-72	1964	11/8.56	---	June 25	10.47	---	---
939	04232406	Hector Falls Creek at Burdett, N. Y.	11.8	1971-72	1971	2.73	(1)	June 23	5.40	1,500	40
				1935	1935	---	4,600				
940	04232450	Keuka Lake at Hammondsport, N. Y.	182	1961-72	1961	5.79	---	June 24	9.35	---	---
941	04232454	Keuka Lake tributary No. 13 near Hammondsport, N. Y.	.23	---	---	---	---	June 23	---	119	(1)
942	04232468	Keuka Lake tributary No. 12 near Pulteney, N. Y.	.85	---	---	---	---	June 23	---	255	(1)
943	04232482	Keuka Lake outlet at Dresden, N. Y.	207	1966-72	1971	5.17	2,320	June 22	8.37	4,000	(1)
944	04232490	Kashong Creek near Bellona, N. Y.	30.7	1965-70	1967	3.49	(1)	June 23	3.19	610	<2
945	04232630	Kendig Creek near Mac Dougall, N. Y.	13.8	1965-72	1968	6.14	713	June 23	4.93	417	<2
					1971	3/6.23	---				
946	04232902	West Branch Cayuga Inlet at Newfield, N. Y.	8.05	---	---	---	---	June 23	---	1,480	(1)
947	04233000	Cayuga Inlet near Ithaca, N. Y.	35.2	1937-72	1942	7.58	4,110	June 23	8.10	4,800	>100
948	04233250	Buttermilk Creek near Ithaca, N. Y.	11.3	---	---	---	---	June 22	---	1,060	(1)
949	04233255	Cayuga Inlet at Ithaca, N. Y.	86.7	1971-72	1971	3/10.74	(1)	June 23	14.6	11,800	>100
950	04233257	Coy Glen Creek at Ithaca, N. Y.	3.55	---	---	---	---	June 22	---	516	(1)
951	04233310	Sixmile Creek near Ithaca, N. Y.	42.0	1967-69, 1971-72	1967	5.59	2,640	June 23	9.43	5,360	>100
952	04233314	Sixmile Creek tributary near Ithaca, N. Y.	.69	---	---	---	---	June 22	---	187	(1)
953	04233317	Sixmile Creek at Potlers Falls near Ithaca, N. Y.	45.5	1935	1935	---	4,330	June 23	---	4,430	(1)
954	04233500	Cayuga Lake at Ithaca, N. Y.	1,564	1906-25, 1957-72	1916	8.4	---	June 26	9.76	---	---
955	04233676	Virgil Creek at Dryden, N. Y.	20.6	1966-70	1969	5.09	(1)	June 23	3.90	1,380	4
956	04234000	Fall Creek near Ithaca, N. Y.	126	1926-72	1935	9.52	15,500	June 23	5.38	4,600	5
					1971	3/11.16	---				
957	04234018	Salmon Creek at Ludlowville, N. Y.	81.7	1965-68, 1970-72	1966	7.23	1,940	June 23	10.62	4,160	6
				1935	1935	---	13,700				
958	04234200	Mud Creek at East Victor, N. Y.	64.2	1959-68	1963	6.65	1,370	June 22	7.85	1,800	15
959	04234250	Ganargua Creek at Macedon, N. Y.	104	1965-69	1966	5.91	1,520	June 22	6.75	1,950	5
960	04234400	West River near Middlesex, N. Y.	29.3	1965-72	1969	5.77	1,530	June 23	6.82	2,790	30
961	04234428	Reservoir Creek at Naples, N. Y.	5.76	---	---	---	---	June 22	---	1,600	(1)
962	04234500	Canandaigua Lake at Canandaigua, N. Y.	184	1929-72	1956	11/9.13	---	June 24	10.94	---	---
963	04235000	Canandaigua Outlet at Chapin, N. Y.	195	1940-72	1942	4164	1,100	June 24	5.62	1,710	>100
964	04235150	Flint Creek at Potter, N. Y.	31.0	1964-72	1964	6.87	920	June 23	10.15	5,040	(1)
965	04235250	Flint Creek at Phelps, N. Y.	102	1960-72	1960	5.83	2,940	June 24	5.75	2,820	21
					1963	3/6.20	---				
966	04235276	Black Brook at Tyre, N. Y.	19.0	1966-72	1970	6.68	(1)	June 23	3.61	530	<2
967	04235300	Owasco Inlet at Moravia, N. Y.	106	1961-68	1961	4/723.84	11,600	June 23	4/727.81	(1)	---
					1964	4/724.40	---				
968	04235396	Owasco Lake near Auburn, N. Y.	205	1912-72	1936	4/716.91	---	June 25	4/716.88	---	---
969	04235500	Owasco Outlet near Auburn, N.Y.	206	1913-72	1936	4.88	2,090	June 23	6.28	3,250	>100
970	04236000	Skaneateles Lake at Skaneateles, N. Y.	72.7	1891-1972	1947	63.75	---	June 25	65.20	---	---
971	04237500	Seneca River at Baldwinsville, N. Y.	3,136	1950-72	1960	9.21	7/17,200	June 28	---	7/17,400	25
								June 30	9.21	---	
972	04238500	Onondaga Reservoir near Nedrow, N. Y.	67.7	1953-72	1960	4/485.9	5/5,960	June 24	4/480.43	5/3,670	---
973	04239000	Onondaga Creek at Darwin, N. Y.	88.5	1952-72	1960	5.06	2,130	June 23	6.12	3,200	>100
					1961	5.11	---				
974	04240010	Onondaga Creek at Spencer Street, Syracuse, N. Y.	109	1971-72	1971	6.74	1,640	June 23	6/8.09	3,400	(1)
975	04240100	Harbor Brook at Syracuse, N. Y.	9.63	1960-72	1969	7.13	374	June 23	7.45	458	(1)
976	04240105	Harbor Brook at Hiawatha Boulevard, Syracuse, N. Y.	11.3	1971-72	1971	6.17	410	June 21	6.55	474	(1)
977	04240180	Ninemile Creek near Marietta, N. Y.	45.5	1965-72	1971	5.36	343	June 22	8.65	1,030	(1)
978	04240200	Ninemile Creek at Camillus, N. Y.	84.3	1959-72	1960	8.25	2,760	June 23	8.73	1,930	3
979	04240300	Ninemile Creek at Lakeland, N. Y.	115	1971-72	1971	6/7.12	1,600	June 23	8.58	2,290	(1)
980	04240495	Onondago Lake at Liverpool, N. Y.	285	1971-72	1971	4/367.44	---	June 30	4/369.21	---	---
981	04242500	East Branch Fish Creek at Taberg, N. Y.	188	1924-72	1945	10.90	13,600	June 22	11.71	14,500	>100
982	04243500	Oneida Creek at Oneida, N. Y.	113	1950-72	1950	13.78	7,440	June 22	14.61	9,260	>100
					1959	3/14.30	---				
983	04245000	Limestone Creek at Fayetteville, N. Y.	85.5	1940-72	1950	7.78	7,010	June 23	7.56	3,800	4
					1964	7.95	---				
984	04245200	Butternut Creek near Jamesville, N. Y.	32.2	1959-72	1964	6.29	1,260	June 21	7.15	1,120	6
					1972	7.54	---				
985	04245236	Meadow Brook at Hurlburt Road, Syracuse, N. Y.	2.90	1971-72	1972	3.64	179	June 21	3.35	156	(1)
986	04245840	Scriba Creek near Constantia, N. Y.	38.4	1966-72	1971	6.45	870	June 22	7.42	1,200	<2
987	04246000	Oneida Lake at Brewerton, N. Y.	1,382	1952-72	1960	10.69	---	June 26	11.84	---	---
988	04246500	Oneida River at Caughdenoy, N. Y.	1,382	1903-12, 1948-72	1903	---	9/13,800	June 25	---	9/10,100	>100
989	04249000	Oswego River at Lock 7, Oswego, N. Y.	5,098	1901-06, 1934-72	1936	---	37,500	June 29	11.87	29,500	24
					1940	13.46	---				

< Less than value shown.
> Greater than value shown.
1 Not determined.
2 Hurricane wave.
3 Result of ice jam.
4 Elevation above mean sea level, in feet.
5 Contents, in acre feet.
6 Affected by backwater; see station description.
7 Site and datum then in use.
8 Contents, in millions of gallons.
9 Maximum daily discharge, in cubic feet per second.
10 Site and datum used prior to 1950.
11 Maximum daily gage height, in feet.

TABLE A2.—Flood-crest data, June 19, 1972, for streams in Westchester County, N.Y., and southeast Connecticut

[Stationing is that used by U.S. Army Corps of Engineers in flood-plain information studies in the area]

Stream and location	Stationing (ft)	Elevation (ft)
East Branch Byram River:		
Riversville, Conn., U. S. Geological Survey gage.	23,600	154.4
Glenville, Conn., 40 ft upstream from Comly Avenue bridge.	8,800	35.5
Glenville, Conn., 30 ft downstream from Comly Avenue bridge.	8,700	34.0
Port Chester, N.Y., just downstream from U.S. Highway 1 bridge.	2,300	10.0
Blind Brook:		
Rye, N.Y., downstream from Purchase Street bridge.	14,930	35.0
Rye, N.Y., 500 ft upstream from Highland Avenue.	12,700	29.2
Rye, N.Y., 65 ft downstream from Highland Avenue.	12,100	29.6
Rye, N.Y., U.S. Geological Survey gage----	11,000	25.5
Rye, N.Y., 60 ft upstream from Central Avenue bridge.	8,800	18.3
Rye, N.Y., 100 ft downstream from Central Avenue bridge.	8,600	16.8
Mamaroneck River:		
Mamaroneck, N.Y., 6 ft upstream from Winfield Avenue bridge.	10,700	37.8
Mamaroneck, N.Y., 40 ft downstream from Winfield Avenue bridge.	10,600	35.9
Mamaroneck, N.Y., 300 ft downstream from foot of Warren Street.	8,500	32.2
Mamaroneck, N.Y., 75 ft upstream from North Barry Avenue.	5,500	25.5
Mamaroneck, N.Y., upstream side of Jefferson Avenue bridge.	3,560	23.8
Mamaroneck, N.Y., U.S. Geological Survey gage, 113 ft downstream from Halstead Avenue bridge.	2,700	21.2
Sheldrake River:		
Mamaroneck, N.Y., 10 ft upstream from Weaver bridge.	12,500	83.8
Mamaroneck, N.Y., 25 ft upstream from Bonnie Briar Road bridge.	10,900	78.5
Mamaroneck, N.Y., 100 ft upstream from Rockland Avenue bridge.	10,200	77.1
Mamaroneck, N.Y., at downstream side of Forrest Avenue bridge.	9,300	71.0
Mamaroneck, N.Y., 40 ft upstream from Briarcliff Road.	9,000	70.1
Mamaroneck, N.Y., at confluence with East Branch.	8,300	59.7
Mamaroneck, N.Y., 18 ft upstream from Sheldrake Dam.	6,960	31.4
Mamaroneck, N.Y., 5 ft downstream from Sheldrake Dam.	6,940	30.1
Mamaroneck, N.Y., downstream side of Rockland Avenue bridge.	5,200	26.8
Mamaroneck, N.Y., 50 ft downstream from Fenimore Avenue bridge.	3,400	25.4
Mamaroneck, N.Y., 100 ft downstream from Waverly Avenue bridge.	1,800	24.9
Mamaroneck, N.Y., 200 ft downstream from Mamaroneck Avenue bridge.	500	24.3
Hutchinson River:		
New Rochelle, N.Y., 80 ft upstream from Hutchinson Boulevard.	2,900	211.7
New Rochelle, N.Y., 70 ft upstream from Old Wilmot Road.	350	197.6
Eastchester, N.Y., at New Wilmot Road-----	0	191.5
Pelham, N.Y., upstream side of Lincoln Avenue bridge.	6,300	27.0
Pelham, N.Y., U.S. Geological Survey gage, 100 ft downstream from Pelham Lake.	4,000	17.4
Pelham, N.Y., 20 ft upstream from Sanford Avenue bridge.	500	6.0
Saw Mill River:		
Eastview, N.Y., upstream side of River Road bridge.	12,500	196.1
Eastview, N.Y., downstream side of River Road bridge.	12,500	194.5
Elmsford, N.Y., 55 ft downstream from Mine Brook.	4,200	177.0
Elmsford, N.Y., Warehouse Lane (A&P access road).	3,600	176.4
Elmsford, N.Y., at downstream side of Penn Central Railroad bridge.	2,000	175.1
Elmsford, N.Y., upstream side of Tarrytown Road bridge.	- 50	174.2
Elmsford, N.Y., downstream side of Tarrytown Road bridge.	- 100	172.8
Ardsley, N.Y., at N.Y.C. water-supply blowoff.	2,400	131.0
Ardsley, N.Y., 300 ft upstream from Old Ashford Avenue.	2,000	130.4
Ardsley, N.Y., at downstream side of Elm Street bridge.	200	127.6
Yonkers, N.Y., 200 ft downstream from Tompkins Avenue bridge.	21,400	114.9
Yonkers, N.Y., 60 ft downstream from Hearst Avenue bridge.	19,800	113.4
Yonkers, N.Y., downstream side of Odell Avenue bridge.	16,700	112.7
Yonkers, N.Y., 125 ft downstream from Nepperhan Avenue bridge.	12,000	109.4
Yonkers, N.Y., at downstream side of Silk Place bridge.	10,500	107.8
Yonkers, N.Y., at downstream side of Worth Avenue bridge.	9,500	106.2
Yonkers, N.Y., at downstream side of Lake Street bridge.	8,000	104.4
Yonkers, N.Y., 300 ft downstream from Axminster Avenue bridge.	6,500	102.2
Yonkers, N.Y., upstream side of Ashburton Avenue bridge.	5,600	102.8
Yonkers, N.Y., downstream side of Ashburton Avenue bridge.	5,500	100.5
Yonkers N.Y., U.S. Geological Survey gage at Old Croton Aqueduct.	4,500	96.5
Yonkers, N.Y., 20 ft downstream from Nepperhan Avenue bridge.	3,800	88.6
Yonkers, N.Y., 100 ft upstream from Elm Street bridge.	1,300	63.0

TABLE A3.--Flood-crest elevations, June 1972

Stream and location	Miles upstream from mouth	Day	Elevation (ft)
Delaware River basin			
Schuylkill River:			
River View Park, Pa., 500 ft upstream from Ashebrown Street.	80.2	23	242.8
River View Park, Pa., 100 ft downstream from Laurel Run.	79.4	23	241.2
Reading, Pa., 125 ft upstream from Schuylkill Ave. bridge.	76.8	23	225.5
Reading, Pa., 450 ft upstream from Reading Railroad bridge.	75.8	23	219.2
Reading, Pa., 800 ft upstream from Lancaster Ave. bridge.	74.5	23	215.8
Reading, Pa., abandoned sewage disposal plant.	72.8	23	207.2
Titus Power Station----------	70.8	23	197.3
Neversink, Pa., under U.S. Highway 422 bridge.	69.0	23	187.5
Gibraltar, Pa----------	67.2	23	182.7
Birdsboro, Pa., under State Highway 82 bridge.	63.4	23	173.2
Monocacy, Pa., 600 ft upstream from Monocacy School.	61.3	23	166.7
Monocacy Station, Pa., 450 ft upstream from Monocacy Creek.	60.8	23	165.0
Douglassville, Pa., 250 ft downstream from Reading Railroad station.	58.4	23	158.5
Douglassville, Pa., 1.5 miles downstream.	56.8	23	156.3
Pottstown, Pa., 0.3 mile upstream from State Highway 100 bridge.	54.4	23	150.2
Pottstown, Pa., U.S. Geological Survey gage, at Hanover Street bridge.	53.6	23	147.8
Pottstown, Pa., at sewage disposal plant.	52.4	23	143.8
Sanatoga, Pa., at highway bridge------	49.1	23	134.4
Linfield, Pa., upstream side of Parker Ford bridge.	46.8	23	130.3
Linfield, Pa., 0.2 mile downstream from Vincent Dam.	44.5	23	124.9
Spring City, Pa., 150 ft upstream from Bridge Street.	42.2	23	117.6
Spring City, Pa., at sewage treatment plant.	41.3	23	115.3
Mingo, Pa., mouth of Mingo Creek------	40.8	23	113.4
Cromby, Pa., powerplant----------	39.6	23	111.3
Phoenixville, Pa., waterworks---------	39.1	23	110.8
Phoenixville, Pa., railroad overpass, State Highway 29.	35.6	23	100.1
Oaks, Pa., 700 ft upstream from railroad bridge.	32.8	23	94.2
Perkiomen Junction, Pa., downstream from Paulingo Road bridge.	31.7	23	92.5
Valley Forge, Pa., mouth of Valley Creek.	30.6	23	90.1
Port Kennedy, Pa., at State Highway 363 bridge.	28.3	23	80.5
Barbados Island, Pa., at powerplant gage.	24.5	23	75.3
Norristown, Pa., downstream side DeKalb Street bridge.	23.8	23	74.1
Norristown, Pa., sewage treatment plant at Ford Street.	23.2	23	72.0
Ivy Rock, Pa., at left end of railroad bridge.	21.9	23	67.2
Conshohocken, Pa., 275 ft downstream from Fayette Street bridge.	20.1	23	62.3
Spring Mill, Pa., at Reading Railroad station.	18.8	23	58.6
Miquon, Pa., 260 ft downstream from small creek.	16.7	23	52.0
Shawmont, Pa----------	16.0	23	51.0
Philadelphia, Pa., Flat Rock Road-----	14.8	23	43.0
Philadelphia, Pa., 1,000 ft downstream from Green Lane bridge.	14.0	23	39.6
Philadelphia, Pa., at mouth of Wissahickon Creek.	12.8	23	32.6
Philadelphia, Pa., at U.S. Geological Survey gage, 150 ft upstream from Fairmont Dam.	8.5	23	20.4

Stream and location	Miles upstream from mouth	Day	Elevation (ft)
Susquehanna River basin			
Susquehanna River:			
Athens, Pa., downstream side of highway bridge.	286.1	24	766.5
Mouth of Chemung River----------	283.5	----	760.4
Tioga River (head of Chemung River):			
Lawrenceville, Pa., U.S. Highway 15 bridge.	14.19	23	1,002.5
Lawrenceville, Pa., intersection of James and Main Streets.	13.50	23	1,001.4
Lawrenceville, Pa., Presbyterian Church.	13.12	23	1,000.7
Lawrenceville, Pa., 150 ft downstream from highway bridge.	13.07	23	999.5
Lawrenceville, Pa., upstream from Cowanesque River.	12.87	23	999.2
Lawrenceville, Pa., downstream from Cowanesque River.	11.65	23	997.1
Lindley, N.Y., U.S. Geological Survey gage, just downstream from County Highway 120 bridge.	10.65	23	990.2
Leland Harris barn (right bank)-------	10.10	23	989.1
No. 891 Presho-Lindley Road----------	9.45	23	986.5
Penn-Central Railroad track----------	8.65	23	983.2
	8.25	23	980.8
	7.65	23	977.8
	7.00	23	976.9
Upstream side of Presho-Lindley Road bridge.	6.35	23	974.9
Downstream side of Presho-Lindley Road bridge.	6.30	23	972.6
Country Club building----------	5.45	23	968.8
Mouth of Canisteo River----------	4.05	23	
Canisteo River:			
Addison, N.Y., old water tower--------	6.05	23	991.5
Addison, N.Y., American Legion building.	5.90	23	989.4
Between Addison, N.Y., and mouth------	5.45	23	985.2
	4.00	23	978.4
	2.90	23	971.9
	1.95	23	968.5
Near junction of State Highway 17 and U.S. Highway 15.	.76	23	964.9
Downstream side of old U.S. Highway 15 bridge.	.55	23	962.7
Tioga River—Continued			
Erwins, N.Y., Gang Mills Diner--------	3.45	23	961.9
Erwins, N.Y., Cemetery----------	3.15	23	958.6
Erwins, N.Y., U.S. Geological Survey gage, 20 ft downstream from Mulholland Road bridge.	2.95	23	958.0
Gang Mills, N.Y., 150 ft north of Mobil gas station on State Highway 17.	2.30	23	956.2
Gang Mills, N.Y., No. 640 Addison Road--	1.90	23	955.0
Gang Mills, N.Y., corner of Forrest and Hamilton Streets.	1.50	23	953.3
Gang Mills, N.Y., Corning Gas utility building.	1.05	23	952.6
Gang Mills, N.Y., Corning 1st Bank and Trust Co.	.65	23	952.0
Confluence of Tioga and Cohocton Rivers.	0	----	-------
Cohocton River:			
Kanona, N.Y., 0.2 mile downstream from U.S. Highway 15 bridge.	24.2	23	1,141.2
Kanona, N.Y., 0.9 mile downstream from U.S. Highway 15 bridge.	23.6	23	1,140.4
	23.0	23	1,136.5
	22.8	23	1,128.2
Bath, N.Y., 0.05 mile upstream from Veterans Administration bridge.	22.1	23	1,124.3
	21.7	23	1,123.4
	20.5	23	1,102.6
	19.7	23	1,096.1
	18.4	23	1,091.9
	18.1	23	1,089.5
0.6 mile downstream from Morgan bridge, southeast of Bath, N.Y.	17.0	23	1,082.6

TABLE A3.--Flood-crest elevations, June 1972-- Continued

Stream and location	Miles upstream from mouth	Day	Elevation (ft)
Susquehanna River basin—Continued			
Cohocton River—Continued			
0.8 mile downstream from Stocking Creek.	16.6	23	1,079.0
	16.2	23	1,075.7
	14.6	23	1,054.4
0.3 mile downstream from Erie Railroad bridge, west of Savona, N.Y.	14.0	23	1,050.1
	12.4	23	1,039.8
	11.6	23	1,032.8
Campbell, N.Y., U.S. Geological Survey gage 1.9 miles upstream from Michigan Creek.	11.1	23	1,027.7
Campbell, N.Y----------	10.6	23	1,024.6
Campbell, N.Y., upstream side of State Highway 333 bridge.	9.1	23	1,012.5
	8.8	23	1,010.8
	7.8	23	1,007.0
	7.4	23	1,002.4
0.4 mile upstream from Curtis Highway bridge.	6.5	23	994.0
0.3 mile downstream from Curtis Highway bridge.	5.8	23	986.7
0.3 mile upstream from Meads Creek---	2.6	23	956.9
U.S. Highway 15 overpass west of Painted Post, N.Y.	1.6	23	954.0
Painted Post, N.Y., 574 West High Street.	1.2	23	950.8
Painted Post, N.Y., church on Hamilton Street, south of High Street.	.50	23	950.5
Painted Rock, N.Y., corner of Stanton and Rand Streets.	.10	23	950.0
Chemung River:			
Corning, N.Y., intersection of West William and Poultney Streets.	44.2	23	945.8
Corning, N.Y., corner of Fuller Avenue and Onondaga Street.	43.8	23	943.9
Corning, N.Y., Grace Church on Bridge Street.	43.2	23	941.4
Corning, N.Y., No. 247 E. Poultney Street.	42.5	23	939.3
South Corning, N.Y., 35 ft upstream from State Highway 17 bridge.	43.8	23	944.7
South Corning, N.Y., corner of Chestnut and Market Streets.	43.0	23	939.5
South Corning, N.Y., No. 119 East Market Street.	42.6	23	932.0
South Corning, N.Y., corner of East Market and Columbia Streets.	42.2	23	929.6
South Corning, N.Y., at sewage treatment plant.	41.2	23	928.3
South Corning, N.Y., Corning Saw and Supply Co. on State Highway 225.	40.6	23	924.5
Along Erie-Lackawanna Railroad (left bank).	41.8	23	934.2
Gibson, N.Y., Main Street----------	41.2	23	928.5
Gibson, N.Y., 0.6 mile downstream---	40.6	23	924.9
Along right bank----------	39.4	23	920.8
Rex Robertson property (left bank)---	38.0	23	912.0
East Corning, N.Y., corner of Sidney and Steele Streets.	37.0	23	908.5
East Corning, N.Y., upstream side of Corning Road bridge.	36.0	23	904.6
East Corning, N.Y., fire station-----	35.4	23	903.4
Along State Highway 352----------	34.8	23	901.9
Along State Highway 352----------	33.0	23	898.7
Along State Highway 352----------	31.8	23	891.8
Harris Hill Manor, N.Y----------	30.2	23	884.1
Golden Glow, N.Y., 1485 Golden Glow Drive.	29.8	23	882.2
Elmira, N.Y., Woodland Apartments (left bank).	29.6	23	881.9
Elmira, N.Y., No. 67 Durland Avenue (left bank).	28.2	23	874.0
Elmira, N.Y., No. 901 Water Street (left bank).	27.4	23	868.1
Elmira, N.Y., No. 303 Homewood Avenue (right bank).	27.2	23	868.8
Elmira, N.Y., No. 634 Water Street (left bank).	26.9	23	866.8
Elmira, N.Y., No. 306 West Hudson Street (right bank).	26.4	23	862.7
Elmira, N.Y., No. 360 Water Street (left bank).	26.4	23	864.1
Chemung River—Continued			
Elmira, N.Y., Chemung Canal Trust Co., State Street (left bank).	26.0	23	861.1
Elmira, N.Y., 101 Henry Street (right bank).	26.0	23	860.5
Elmira, N.Y., corner of Orchard and East Church Streets (left bank).	25.6	23	859.0
Elmira, N.Y., mouth of Newton Creek (left bank).	24.8	23	856.2
Elmira, N.Y., No. 458 Maple Avenue (right bank).	24.8	23	853.5
Elmira, N.Y., corner of Luce Street and Baylor Drive (right bank).	24.6	23	850.2
Elmira, N.Y., on State Highway 17 (left bank).	24.5	23	852.4
Elmira, N.Y., on State Highway 17 (left bank).	24.0	23	849.8
Elmira, N.Y., No. 1301 Maple Avenue (right bank)	23.5	23	847.5
At dead end road by Seeley Creek (right bank).	22.1	23	842.9
Mouth of Seeley Creek----------	21.45	23	839.4
Seeley Creek:			
	7.45	----	976.2
	6.45	----	952.7
	4.91	----	909.5
	4.68	----	904.5
	4.15	----	886.4
	3.20	----	865.3
	1.60	----	842.4
	0	----	839.4
Chemung River—Continued			
1 mile downstream from Seeley Creek (right bank).	20.4	23	836.1
Along State Highway 427 (right bank)--	19.8	23	834.3
Wellsburg, N.Y., Methodist Church-----	18.6	23	831.6
Along Erie-Lackawanna Railroad (right bank).	17.6	23	828.9
Venturia Inn (left bank)----------	16.4	23	827.3
At State Highway 17 bridge (right bank).	15.6	23	821.2
Left bank----------	14.5	23	821.8
Texaco gas station (left bank)--------	13.8	23	817.9
Chemung, N.Y., U.S. Geological Survey gage, 100 ft upstream from State Highway 427 bridge (right bank).	12.1	23	810.2
Susquehanna River—Continued			
Athens, Pa., at railroad bridge over Wolcott Creek.	283.4	24	759.7
Mouth of Sugar Creek----------	273.2	24	731.6
Towanda, Pa., U.S. Geological Survey gage at Bridge Street bridge.	270.2	24	727.8
Wysox, Pa., 0.4 mile downstream from Wysox Creek.	265.5	24	716.9
Mouth of Wyalusing Creek----------	250.3	24	679.7
Skinners Eddy, Pa----------	239.2	24	658.4
Myobeach, Pa----------	233.4	24	647.4
Mehoopony Station, Pa., former bridge site.	229.2	24	640.2
Vosburg, Pa----------	221.6	24	621.5
Tunkhannock, Pa., 830 ft upstream from State Highway 309 bridge.	217.6	24	613.4
Tuckhannock, Pa., downstream side of State Highway 309 bridge.	217.4	24	613.4
Falls, Pa., 0.2 mile downstream from State Highway 92 bridge.	206.4	24	587.5
Ransom, Pa., mouth of Gardner Creek---	200.7	24	575.1
Coxton Yards, 400 ft downstream from railroad bridge.	196.9	24	566.5
Erie-Lackawanna Railroad bridge-------	195.8	24	564.9
West Pittston, Pa., east of York Avenue.	195.5	24	564.2
West Pittston, Pa., 0.2 mile downstream from Ft. Jenkins Bridge.	195.0	24	563.0
West Pittston, Pa., National Guard Armory.	194.5	24	562.0
Exeter, Pa., streamward end of Schooly Street.	193.7	24	561.3
Port Blanchard, Pa., 0.5 mile upstream from Wyoming Bridge.	193.1	24	559.8
Kingston, Pa., railroad embankment at Pierce Street.	187.8	24	551.3
Wilkes-Barre, Pa., U.S. Geological Survey gage, 800 ft downstream from North Street.	187.6	24	553.0

TABLE A3.--Flood-crest elevations, June 1972-- Continued

Stream and location	Miles upstream from mouth	Day	Elevation (ft)
Susquehanna River basin—Continued			
Susquehanna River—Continued			
Kingston, Pa., railroad embankment at Northampton Street.	186.9	24	551.1
Wilkes-Barre, Pa., upstream side of railroad embankment.	186.2	24	550.9
Plymouth, Pa., 500 ft upstream from Gaylord Avenue bridge.	183.9	24	548.6
Breslau, Pa., Wilkes-Barre Avenue at First Street.	183.8	24	548.3
Plymouth, Pa., 365 ft downstream from Gaylord Avenue bridge.	183.8	24	548.4
Avondale, Pa., base of Sickler Hill--	181.8	24	546.3
Nanticoke, Pa., at Nanticoke Creek---	180.9	24	545.4
Nanticoke, Pa., upstream side of highway bridge.	179.9	24	545.0
Hunlock Creek, Pa----------	176.3	24	537.3
Shickshinny, Pa., 350 ft upstream from highway bridge.	170.5	24	526.2
Shickshinny, Pa., 650 ft downstream from highway bridge.	170.3	24	525.6
Beach Haven, Pa., 1 mile downstream, at mouth of Salem Creek.	161.7	24	506.0
Nescopeck, Pa., 1,000 ft upstream from railroad bridge over Nescopeck Creek.	159.5	24	503.5
Mifflinville, Pa., downstream side of highway bridge.	155.0	24	493.2
Bloomsburg, Pa., bridge on State Highway 487.	147.6	24	482.8
Bloomsburg, Pa., railroad station----	146.8	24	481.5
Rupert, Pa., Reading Railroad bridge-	145.6	24	479.6
Catawissa, Pa., upstream side of highway bridge.	144.3	24	477.6
Boyd, Pa., 1.6 miles upstream from Danville gage.	137.0	24	463.8
Danville, Pa., U.S. Geological Survey gage, 200 ft upstream from Mill Street bridge.	135.4	24	463.6
Wolverton, Pa., 0.8 mile downstream--	128.1	24	456.9
Packers Island, Pa., downstream side of railroad bridge.	124.2	24	453.5
Mouth of West Branch Susquehanna River.	123.9	24	--------
West Branch Susquehanna River:			
Bower, Pa., U.S. Geological Survey gage at downstream side of highway bridge.	199.8	23	1,225.8
Curwensville, Pa., U.S. Geological Survey gage, downstream side of highway bridge.	183.8	25	1,135.9
Karthaus, Pa., U.S. Geological Survey gage, 900 ft upstream from bridge on State Highway 879.	132.4	23	849.2
Renovo, Pa., U.S. Geological Survey gage, upstream side of Eighth Street bridge.	97.6	23	660.8
Mouth of Young Womans Creek----------	93.8	23	648.0
Hyner, Pa., upstream side of State Highway 120 bridge.	90.8	23	633.8
Glen Union, Pa., 0.7 mile upstream---	84.8	23	608.8
Mouth of Tangascootack Creek---------	77.3	23	585.7
Pennsylvania Railroad bridge---------	74.0	23	580.1
Lock Haven, Pa., Lock Haven State College.	70.9	23	568.3
Lock Haven, Pa., U.S. Post Office on Main Street.	70.2	23	566.8
Lock Haven, Pa., 300 ft upstream from U.S. Highway 220 bridge.	69.3	23	565.9
Mouth of Bald Eagle Creek at downstream side of railroad bridge.	67.6	23	564.8
McElhattan, Pa., downstream side of highway bridge.	64.8	23	560.1
Avis, Pa., junction State Highway 44 and old U.S. Highway 220.	58.7	23	558.9
Jersey Shore, Pa., downstream side of highway bridge (left channel).	55.4	23	551.4
Mouth of Larrys Creek----------	53.2	23	542.3
Linden, Pa., 500 ft downstream from Quineshakeny Run.	46.6	23	539.2
Duboistown, Pa., upstream side of Arch Street bridge.	41.9	23	535.6
Williamsport, Pa., U.S. Geological Survey gage on upstream side of Market Street bridge.	39.3	23	529.7
West Branch Susquehanna River—Continued			
Mouth of Loyalsock Creek----------	36.6	23	525.9
Railroad bridge over Loyalsock Creek--	36.3	23	525.1
Railroad bridge over Carpenters Dry Run.	29.7	24	509.4
Muncy, Pa., junction State Highways 405 and 147.	27.7	24	501.5
Montgomery, Pa., 700 ft downstream from highway bridge.	22.6	24	491.5
Allenwood, Pa., downstream side of highway bridge.	18.2	24	481.9
Watsontown, Pa., upstream side of highway bridge.	15.8	24	477.4
Milton, Pa., near east end of 5th Street.	12.1	24	471.5
Milton, Pa., 275 ft upstream from Broadway Street.	11.6	24	470.8
Milton, Pa., 100 ft upstream from Reading Railroad bridge.	11.0	24	468.3
Lewisburg, Pa., U.S. Geological Survey gage at downstream side of Market Street bridge.	7.5	24	462.4
Winfield, Pa., mouth of Winfield Creek.	3.6	24	458.2
Northumberland, Pa., 200 ft downstream from bridge on U.S. Highway 11.	.1	24	453.9
Susquehanna River—Continued			
Sunbury, Pa., downstream side of highway bridge.	122.0	24	448.8
Mouth of Shamokin Creek----------	121.2	24	447.6
Sunbury, Pa., U.S. Geological Survey gage at Shamokin Dam powerplant.	120.2	24	444.4
Selinsgrove Junction, Pa., 200 ft upstream from Pennsylvania Railroad bridge.	117.8	24	440.2
Confluence of Penns Creek and Middle Creek.	115.9	24	435.0
Mouth of Penns Creek----------	114.1	24	-------
Penns Creek:			
Glen Iron, Pa., 150 ft downstream from bridge on State Highway 235.	29.0	23	605.1
Penns Creek, Pa., U.S. Geological Survey gage, 200 ft downstream from bridge on State Highway 104.	20.3	23	521.6
New Berlin, Pa., 100 ft upstream from highway bridge.	16.0	23	496.2
Mouth of Monongahela Creek----------	8.1	23	454.6
Mouth of Middle Creek----------	1.9	23	435.0
Middle Creek:			
Middleburg, Pa., downstream side of bridge on State Highway 104.	12.7	23	497.7
Kreamer, Pa., 250 ft upstream from bridge on U.S. Highway 522.	7.7	23	472.2
Susquehanna River—Continued			
Mouth of Mahanoy Creek----------	112.2	24	428.4
Mahanoy Creek:			
Gowen, Pa., 1.5 miles southwest on downstream side of bridge on State Highway 125.	22.3	23	607.7
Dornsife, Pa., 125 ft upstream from bridge on State Highway 225.	8.0	23	498.7
Herndon, Pa., 1.5 mile northeast------	1.2	23	432.5
Susquehanna River—Continued			
Dalmatia, Pa----------	106.7	24	418.9
Mouth of East Mahantango Creek--------	102.9	----	-------
East Mahantango Creek:			
Klingerstown, Pa., upstream side of highway bridge.	17.4	23	535.0
Mouth of Pine Creek----------	16.8	23	543.9
Pine Creek:			
Sacramento, Pa., at highway bridge, 1 mile east.	12.2	23	674.9
Sacramento, Pa., 450 ft upstream from highway bridge.	12.1	23	661.8
Klingerstown, Pa., upstream side of highway bridge.	.4	23	534.9
Klingerstown, Pa., 425 ft downstream from highway bridge.	.3	23	534.9
East Mahantango Creek—Continued			
Pillow, Pa., 50 ft upstream from highway bridge.	9.35	23	482.6
Pillow, Pa., 250 ft downstream from highway bridge.	9.3	23	480.7
Dalmatia, Pa., U.S. Geological Survey gage, 3.2 miles south of Dalmatia at highway bridge.	2.2	23	427.1

See footnotes at end of table.

TABLE A3.--Flood-crest elevations, June 1972-- Continued

Stream and location	Miles upstream from mouth	Day	Elevation (ft)
Susquehanna River basin—Continued			
Susquehanna River—Continued			
Paxton, Pa., 1.1 miles downstream	100.6	24	401.5
Millersburg, Pa., mouth of Wiconisco Creek.	96.5	24	389.9
Wiconisco Creek:			
Williamstown, Pa., downstream side of highway bridge.	32.2	23	700.0
Lykens, Pa., east end of North Street.	27.95	23	682.3
Lykens, Pa., 100 ft upstream from Market Street.	27.85	23	680.4
Lykens, Pa., 516 North Street	27.7	23	673.9
Mouth of Rattling Creek	26.9	----	-------
Rattling Creek:			
Downstream side of railroad embankment at railroad station.	.85	23	699.8
Downstream side of railroad embankment.	.55	23	683.8
Wiconisco Creek—Continued			
Elizabethville, Pa., upstream side of highway bridge.	15.4	23	526.0
Susquehanna River—Continued			
Halifax, Pa	91.1	24	376.6
Clarks Ferry, Pa., 0.3 mile upstream from highway bridge.	85.0	24	365.8
Mouth of Juniata River	84.3	24	-------
Juniata River:			
Huntingdon, Pa., U.S. Geological Survey gage, 170 ft downstream from Smithfield Bridge.	94.2	23	619.7
Mapleton Depot, Pa., U.S. Geological Survey gage, 0.3 mile downstream from bridge on State Highway 655.	85.0	23	590.4
Mount Union, Pa., downstream side of highway bridge.	82.3	23	571.8
Mouth of Aughwick Creek	77.7	23	551.6
Ryde, Pa., upstream side of railroad bridge.	67.4	23	520.2
Lewistown, Pa., upstream side Penn-Central railroad bridge.	49.4	23	491.5
Lewistown, Pa., 500 ft downstream from Penn-Central railroad bridge.	49.3	23	490.2
Lewistown, Pa., downstream side of railroad bridge.	46.8	23	486.9
Mifflin, Pa., upstream side of bridge on State Highway 35.	34.6	23	448.3
Port Royal, Pa., at bridge on State Highway 75.	31.7	23	442.3
Vandyke, Pa., 0.4 mile upstream	26.5	23	424.2
Thompsontown Station, Pa., downstream from highway bridge.	22.9	23	423.2
Thompsontown Station, Pa., 700 ft upstream from highway bridge.	22.8	23	422.4
Millerstown, Pa., mouth of Raccoon Creek.	17.2	23	409.8
Newport, Pa., U.S. Geological Survey gage, at downstream side of highway bridge.	12.3	23	397.9
Trimmers Rock, Pa., 0.35 mile downstream.	10.75	23	396.0
Powerline crossing	.7	23	366.4
Susquehanna River—Continued			
Duncannon, Pa., railroad station	83.4	24	361.3
Mouth of Sherman Creek	83.0	24	
Sherman Creek:			
Landisburg, Pa., 300 ft upstream from bridge on State Highway 233.	26.0	22	530.6
Bridgeport, Pa., upstream side of bridge on State Highway 74.	23.0	22	508.0
Bridgeport, Pa., 1.2 miles southeast	21.4	22	496.5
Falling Spring, Pa., mouth of Perry Furnace Run.	16.8	23	468.6
Dromgold Corners, Pa., upstream side of highway bridge.	15.6	23	457.6
Shermans Dale, Pa., U.S. Geological Survey gage, on downstream side of bridge on State Highway 34.	13.5	23	440.7
Dellville, Pa., upstream side of covered bridge.	7.5	23	402.9
Downstream side of truss bridge	3.4	23	376.7
Upstream side of old U.S. Highways 11, 15 bridge.	.15	23	348.4
Susquehanna River—Continued			
Dauphin, Pa., 0.2 mile downstream from Stony Creek.	76.9	24	338.2
Rockville, Pa., upstream side of railroad bridge.	75.3	24	332.1
Lucknow, Pa., 100 ft downstream from State Highway 39 underpass.	74.8	24	331.0
Harrisburg, Pa., intersection McClay and Susquehanna Streets.	71.2	24	326.6
Mouth of Conodoguinet Creek	71.1	24	326.7
Conodoguinet Creek:			
Plainfield, Pa., 0.55 mile downstream from Grieder bridge.	46.4	22	455.1
Meadowbrook Road, downstream side of bridge.	41.8	22	441.5
Spring Road (State Highway 34), upstream side of bridge.	34.0	22	414.9
Middlesex, Pa., upstream side of highway bridge.	31.8	22	411.3
Rich Valley Road, downstream side of bridge.	24.7	22	390.7
Hogestown, Pa., U.S. Geological Survey gage, 0.4 mile downstream from Hogestown Run.	18.0	23	368.0
Lambs Gap Road, downstream side of highway bridge.	15.4	23	360.9
Sporting Hill Road, upstream side of highway bridge.	11.7	23	348.2
Orrs' Road, downstream side of highway bridge.	8.5	23	340.0
Upstream side of railroad bridge	0.15	24	1326.7
Susquehanna River—Continued			
Wormleysburg, Pa., 200 ft downstream from bridge on U.S. Highways 11 and 15.	70.3	24	326.6
Wormleysburg, Pa., 100 ft upstream from Locust Street.	69.8	24	325.9
Harrisburg, Pa., upstream side of Walnut Street bridge.	69.5	24	324.1
Harrisburg, Pa., City Island at Market Street.	69.4	24	323.3
Harrisburg, Pa., southeast corner of Front and Tuscarora Streets.	68.9	24	323.1
Harrisburg, Pa., U.S. Geological Survey gage at Nagle Street.	68.8	24	322.6
Mouth of Paxton Creek	67.7	24	320.0
Paxton Creek:			
Harrisburg, Pa., Progress Avenue bridge, upstream side.	8.39	22	358.4
Harrisburg, Pa., Progress Avenue bridge, downstream side.	8.37	22	356.8
Harrisburg, Pa., Crooked Hill and Paxton Church Roads.	6.02	22	332.6
Harrisburg, Pa., Wildwood Lake Dam, upstream side.	4.91	22	331.2
Harrisburg, Pa., Wildwood Lake Dam, downstream side.	4.88	-----	325.6
Harrisburg, Pa., Harrisburg Community College campus.	4.05	-----	324.0
Harrisburg, Pa., farm show-grounds garage.	3.40	-----	322.6
Harrisburg, Pa., Maclay Street	3.09	-----	322.2
Harrisburg, Pa., PP and L steamplant	1.84	24	322.2
Harrisburg, Pa., Paxton and Cameron Streets.	1.04	24	321.9
Harrisburg, Pa., Shaonis and Cameron Streets.	.47	24	320.8
Harrisburg, Pa., mouth of Paxton Creek.	0	24	320.0
Susquehanna River—Continued			
Harrisburg, Pa., south city boundary	67.6	24	318.6
Mouth of Yellow Breeches Creek	66.9	----	--------
Yellow Breeches Creek:			
Mount Holly Springs, Pa., 1.1 mile upstream from State Highway 34.	34.7	22	526.7
Mouth of Mountain Creek	32.6	22	--------
Mountain Creek:			
Mouth of Hunters Run	4.85	-----	622.5
1200 ft upstream from State Highway 34.	2.85	-----	587.8
Yellow Breeches Creek—Continued			
Boiling Springs, Pa., municipal park, 200 ft upstream from highway bridge.	28.7	22	475.6
Brandtsville, Pa., 250 ft upstream from State Highway 74 bridge.	24.3	22	439.3

See footnotes at end of table.

TABLE A3.--Flood-crest elevations, June 1972-- Continued

Stream and location	Miles upstream from mouth	Day	Elevation (ft)
Susquehanna River basin—Continued			
Yellow Breeches Creek—Continued			
Rose Garden, Pa., 150 ft upstream from highway bridge.	20.8	22	417.5
Lisburn, Pa., upstream side of highway bridge.	13.1	22	370.2
Lisburn, Pa., 0.1 mile downstream from highway bridge.	13.0	22	369.4
Spanglers Mill Road, downstream side of railroad bridge.	5.4	22	336.7
Camp Hill, Pa., U. S. Geological Survey gage, 50 ft downstream from highway bridge.	3.1	22	325.8
Susquehanna River—Continued			
New Cumberland, Pa., New Market School.	66.8	24	316.8
Steelton, Pa., U.S. Highway 230 at railroad underpass.	65.3	24	314.2
Middletown, Pa., corner Union and Ann Streets.	60.0	24	306.4
Mouth of Swatara Creek	59.9	24	-------
Swatara Creek:			
Pine Grove, Pa., East Pottsville Street, downstream side of bridge.	56.7	22	516.9
Pine Grove, Pa., 1,200 ft upstream from State Highway 645 bridge.	55.5	22	506.0
Pine Grove, Pa., downstream side State Highway 645 bridge.	55.3	22	505.2
Suedberg, Pa., upstream side of highway bridge.	50.8	22	480.9
Green Point, Pa., mouth of Trout Run	45.4	22	454.6
Inwood, Pa., downstream side of highway bridge.	44.3	22	444.8
Lickdale Pa., upstream side State Highway 343 bridge.	41.8	22	428.1
West Jonestown, Pa., 300 ft upstream from highway bridge.	38.2	22	414.6
Mouth of Little Swatara Creek	37.5	----	-------
Little Swatara Creek:			
Freeport Mills, Pa	5.1	22	425.1
Southeast corner of Jonestown, Pa	.75	22	414.8
Swatara Creek—Continued			
Upstream side of State Highway 72 bridge.	37.2	22	410.7
Abandoned powerplant	35.8	22	405.0
Harper Tavern, Pa., U.S. Geological Survey gage, at downstream side of State Highway 934 bridge.	28.3	23	380.4
Mouth of Quittapahilla Creek	21.7	23	365.6
Hummelstown, Pa., filter plant	10.2	23	341.3
Pleasant View, Pa., 0.1 mile downstream from railroad bridge.	8.8	23	336.6
Fiddlers Elbow, Pa., Logan residence	7.4	23	333.6
Railroad bridge, 250 ft upstream	.6	23	307.8
Susquehanna River—Continued			
South Royalton, Pa	59.5	24	304.9
Hill Island, Pa., on left bank across from Hill Island.	59.0	24	301.8
Threemile Island, Pa., radio shack	58.4	24	301.4
Threemile Island, Pa	58.1	24	300.3
Threemile Island, Pa., north side of railroad crossing.	56.4	24	298.4
Falmouth, Pa., south of Falmouth	55.2	24	287.6
York Haven, Pa	55.05	24	286.0
Mouth of West Conewago Creek	55.0	----	-------
West Conewago Creek:			
Detters Mill, Pa., 300 ft upstream from Harmony Grove Road.	26.6	22	377.1
Alpine, Pa., upstream side of Kunkle's Mill bridge.	18.7	22	361.8
Strinestown, Pa., upstream side State Highway 295 bridge.	6.8	22	307.3
Manchester, Pa., U.S. Geological Survey gage, 500 ft upstream from bridge on State Highway 181.	3.0	22	293.9
Susquehanna River—Continued			
Mouth of Conoy Creek	51.6	24	277.9
Mouth of Codorus Creek	50.2	24	-------
Codorus Creek:			
Spring Grove, Pa., U.S. Geological Survey gage, at downstream side of county bridge.	24.6	22	446.4
Graybill, Pa., 0.1 mile downstream from highway bridge.	18.2	22	437.0
Codorus Creek—Continued			
Indian Rock Dam, upstream	15.1	22	436.4
York, Pa., U.S. Geological Survey gage, 0.5 mile upstream from Richland Avenue bridge.	13.1	22	382.7
York, Pa., upstream side George Street bridge.	10.4	22	365.8
Pleasureville, Pa., upstream side Emig Mill Road bridge.	6.8	22	354.7
Pleasureville, Pa., 1,000 ft downstream from Emig Mill Road bridge.	6.6	22	351.8
Sherman Road, waste-water plant	5.0	22	347.1
Codorus Furnace, Pa., 300 ft downstream from highway bridge.	0.6	22	277.7
Susquehanna River—Continued			
Marietta, Pa., 0.25 mile upstream	46.7	23	268.9
Marietta, Pa., U.S. Geological Survey gage, 420 ft upstream from Chickies Creek.	44.3	23	265.1
Mouth of Chickies Creek	44.2	24	263.1
Columbia, Pa., U.S. Highway 30 bridge	42.2	24	245.0
Leibharts, Pa	39.3	24	237.2
Washington, Pa., mouth of Stamans Run	39.2	24	236.8
Cresswell Station, Pa., mouth of Wisslers Run.	37.2	24	234.8
Safe Harbor Dam, tailrace	31.9	24	196.3
Mouth of Conestoga Creek	31.7	24	195.9
Conestoga Creek:			
Hinkletown, Pa., 0.2 mile downstream from State Highway 322 bridge.	40.0	-----	331.7
Brownstown, Pa., downstream side of highway bridge.	32.4	-----	304.3
Bushong Road, downstream side of bridge.	29.7	23	296.6
Hunsecker, Pa	27.1	23	288.1
Lancaster, Pa., U.S. Geological Survey gage at Penn-Central Railroad bridge.	22.5	23	273.4
Mill Creek, 300 ft upstream from mouth	14.4	23	245.1
Mill Creek, 200 ft downstream from mouth.	14.3	23	244.4
Rockhill, Pa., downstream side of highway bridge.	3.6	23	210.6
Downstream side of Safe Harbor bridge	.05	23	195.9
Susquehanna River—Continued			
Mouth of Pequea Creek	29.5	24	195.2
Pequea Creek:			
Byerland Church, 50 ft upstream from wooden bridge.	11.2	22	280.6
Martic Forge, Pa., downstream from bridge at Martic Forge Hotel.	3.3	22	230.1
Susquehanna River—Continued			
Mouth of Muddy Creek	21.2	-----	-------
Muddy Creek:			
Muddy Creek Forks, Pa., 200 ft downstream from highway bridge.	16.8	22	373.8
Bridgeton, Pa., 100 ft downstream from highway bridge.	11.9	22	316.1
Castle Fin, Pa., 150 ft upstream from State Highway 74 bridge.	4.7	22	211.5
Castle Fin, Pa., U.S. Geological Survey gage, 200 ft upstream from Legislative Route 66062 bridge.	3.4	22	196.0
Susquehanna River—Continued			
Peach Bottom power facility	19.0	24	115.7
Peach Bottom power facility	18.4	24	114.7
Peach Bottom power facility, discharge control structure.	17.4	24	113.8
Conowingo Power Plant, Pa	9.6	24	112.3
Potomac River basin			
Conococheague Creek:			
Pennsylvania, upstream side of bridge, 0.3 mile upstream from West Branch.	27.1	23	443.6
Downstream side of bridge, 0.3 mile upstream from West Branch.	27.1	23	442.5
Mouth of West Branch	26.8	-----	-------
West Branch:			
Upstream side of highway bridge	0.2	23	443.5
Downstream side of highway bridge	0.2	23	442.7
Conococheague Creek—Continued			
J.O. Elliot Farm, Pa., 0.3 mile upstream from Diehls Run.	25.9	23	439.4
J.O. Elliot Farm, 0.1 mile downstream from Diehls Run.	25.5	23	438.5

TABLE A3.--Flood-crest elevations, June 1972-- Continued

Stream and location	Miles upstream from mouth	Day	Elevation (ft)
Potomac River basin—Continued			
Conococheague Creek—Continued			
Adam Martin Farm, Pa., 2.0 miles upstream from Pennsylvania-Maryland State line.	23.7	23	430.6
Upstream side of Maryland State Highway 58 bridge.	21.1	23	421.4
Fairview, Md., U.S. Geological Survey gage, 0.7 mile upstream from highway bridge.	19.1	23	416.3
Fairview, Md., upstream side of State Highway 494 bridge.	18.4	23	414.1
Fairview, Md., downstream side of State Highway 494 bridge.	18.4	23	412.3
Upstream side of Broadfording Road----	15.8	23	405.7
Downstream side of Broadfording Road--	15.8	23	404.2
Spade Road, Md., 1.1 miles upstream from Rush Run.	13.9	23	399.5
Mount Tabor Road, Md., 0.5 mile downstream from Rush Run.	12.3	23	392.5
Upstream side of private drive, Maryland.	10.4	23	387.2
U.S. Highway 40 bridge, Maryland------	8.8	23	383.7
Off Walnut Point Road, Md., 2.5 miles upstream from Meadow Brook.	7.4	23	380.2
Kemps Mill Road, Md. (bridge washed out).	5.0	23	374.2
Off Kemps Mill Road, 0.8 mile downstream from Meadow Brook.	4.1	23	372.7
Junction of Kemps Mill Road and Maryland State Highway 398.	3.4	23	370.8
Upstream side of Western Maryland Railway bridge.	0.9	23	366.8
Downstream side of Western Maryland Railway bridge.	0.9	23	365.7
Williamsport, Md., State Highway 68 bridge.	0.5	23	365.0
C&O canal aqueduct----------	0.1	23	364.3
Monocacy River (river miles furnished by U.S. Army Corps of Engineers):			
Bridgeport, Md., U.S. Geological Survey gage, 60 ft downstream from State Highway 97 bridge.	52.6	22	364.9
Keysville, Md., Keysville Road bridge-	49.6	22	[2]256.6
Tom Creek at Sixes Road, Md----------	48.1	22	351.9
Sixes Bridge, Md----------	46.9	22	346.2
Mumma Ford, Md----------	43.8	22	338.4
Rocky Ridge, Md., upstream side of Western Maryland Railway bridge.	42.2	22	335.9
Rocky Ridge, Md., downstream side of Western Maryland Railway bridge.	42.2	22	334.9
Rocky Ridge, Md., State Highway 77 bridge.	41.6	22	334.4
LeGore Bridge, Md., upstream side of bridge.	38.4	22	323.8
Le Gore Bridge, Md., downstream side of bridge.	38.4	22	321.9
Creagerstown, Md., upstream side of State Highway 550 bridge.	35.4	22	316.6
Creagerstown, Md., downstream side of State Highway 550 bridge.	35.4	22	314.8
Mouth of Hunting Creek, Md----------	34.0	22	310.2
Links Bridge, Md----------	31.9	22	301.4
Devilbliss Road, Md----------	29.9	23	293.2
Biggs Ford, Md., upstream side of bridge.	26.8	23	288.5
Biggs Ford, Md., downstream side of bridge.	26.8	23	287.2
Penn-Central Railroad bridge, upstream side of bridge.	25.5	23	284.8
Penn-Central Railroad bridge, downstream side of bridge.	25.5	23	283.1
Ceresville, Md., State Highway 26 bridge.	23.9	23	280.4
Monocacy River—Continued			
Frederick, Md., filtration plant------	21.5	23	276.4
Frederick, Md., Gashouse Pike bridge---	20.3	23	273.6
Frederick, Md., U.S. Geological Survey gage, 0.2 mile upstream from Jug bridge.	16.9	23	267.8
Frederick, Md., upstream side of Jug bridge.	16.7	23	265.7
Frederick, Md., downstream side of Jug bridge.	16.7	23	264.3
Reich Ford, Md----------	15.7	23	263.1
B&O Railroad bridge----------	14.0	23	260.0
Upstream side of Maryland State Highway 355 bridge.	13.8	23	259.0
Downstream side of Maryland State Highway 355 bridge.	13.8	23	257.1
Upstream side of Interstate Highway 70S bridge.	13.2	23	256.0
Downstream side of Interstate Highway 70S bridge.	13.2	23	253.2
Buckeystown, Md----------	10.2	23	250.9
Buckeystown Md., State Highway 80 bridge.	9.6	23	248.5
Lilypons, Md., highway bridge----------	6.3	23	243.8
Greenfield Mills, Md., (bridge washed out).	4.0	23	239.3
Furnace Ford, Md., upstream side of State Highway 28 bridge.	1.9	23	234.8
Furnace Ford, Md., downstream side of State Highway 28 bridge.	1.9	23	234.1
C&O Canal----------	0	23	231.7
Allegheny River basin			
Allegheny River:			
0.1 mile upstream from Pennsylvania-New York State line.	260.2	23	1,440.1
0.4 mile upstream from Dodge Creek-----	257.8	23	1,438.1
Olean, N.Y., at Mobile gas station-----	254.2	23	1,430.8
Olean, N.Y., 0.8 mile downstream from Haskell Creek.	253.1	23	1,429.2
Olean,N.Y., 0.2 mile upstream from Union Street bridge.	251.6	23	1,427.5
Olean, N.Y., 0.3 mile downstream from Union Street bridge.	251.2	23	1,426.6
Olean, N.Y., Olean sewage plant-------	250.3	23	1,425.5
Olean, N.Y., Gargoyle Park building----	249.3	23	1,421.8
Olean, N.Y., across from St. Bonaventure College.	247.9	23	1,420.0
Olean N.Y., 0.4 mile upstream from Five Mile Creek.	246.8	23	1,417.9
Olean, N.Y., 0.7 mile downstream from Five Mile Creek.	245.8	23	1,415.0
Vandalia, N.Y., at peat moss plant-----	242.3	23	1,410.0
Baltimore and Ohio Railroad bridge abutment.	238.3	23	1,399.4
Erie Railroad bridge----------	237.2	23	1,398.1
2.1 miles upstream from Tunungwant Creek.	234.7	23	1,395.0
Along railroad track north of Carrolton, N.Y.	232.8	23	1,390.6
Salmonica, N.Y., 0.6 mile downstream from State Highway 17 bridge.	231.5	23	1,388.3
Salmonica, N.Y., upstream side of State Highway 17 bridge.	230.0	23	1,383.8
Salmonica, N.Y., downstream side of State Highway 17 bridge.	230.0	23	1,383.1
Salmonica, N.Y., U.S. Geological Survey gage, 230 ft upstream from Main Street bridge.	229.5	23	1,382.0
Salmonica, N.Y., 0.1 mile upstream from Main Street bridge.	229.4	23	1,380.8
Salmonica, N.Y., 1.5 miles upstream from Main Street bridge.	228.0	23	1,373.4

[1]Backwater from Susquehanna River.
[2]About 2 to 2.5 ft higher than 1933 flood.

TABLE A4.—Flood-crest elevations, floods of 1936, 1969, and 1972, James River in Virginia

[Agency supplying 1972 data: CE, U.S. Army Corps of Engineers; GS, U.S. Geological Survey; NWS, National Weather Service; VBWR, Virginia Bureau of Water Resources]

Location	Miles upstream from mouth	Elevation (ft)			Agency supplying 1972 data
		1936	1969	1972	
Lick Run, VBWR gage, 1,000 ft downstream from U.S. Highway 220 bridge	342.3	1,004.0	1,003.8	1,005.3	VBWR
Buchanon, GS gage at C&O Railway station	306.4	829.7	826.3	833.4	GS
Balcony Falls, NWS gage in pool of Virginia Electric and Power Co. dam	284.8	719.2	722.2	720.9	NWS
Hunting Creek, 2.3 miles downstream	273.5	----------	615.7	614.7	GS
Holcomb Rock, VBWR gage, 0.9 mile downstream from Pedlar River	268.6	579.3	584.0	580.9	VBWR
Lynchburg, NWS gage, at U.S. Highway 29 bridge	257.0	523.8	527.1	525.1	NWS
Bent Creek, GS gage, 300 ft upstream from U.S. Highway 60	227.8	404.4	406.2	408.5	GS
Mouth of David Creek	226.6	----------	----------	405.5	GS
State Highway 626, at two-story frame garage	220.3	----------	379.6	----------	CE
State Highway 626, 200 ft north of intersection with State Highway 724	200.0	----------	325.6	----------	CE
Warren Ferry	194.6	295.2	----------	----------	CE
Warren, 70 ft south of C&O Railroad station	194.5	----------	300.3	----------	CE
Scottsville, GS gage, 1,200 ft downstream from State Highway 20	188.6	278.7	283.2	287.2	GS
Bremo Bluff, 0.1 mile upstream from U.S. Highway 15	175.6	----------	233.6	----------	CE
Bremo Bluff NWS gage, at Virginia Electric and Power Co. plant	174.9	224.2	230.5	236.2	NWS
Columbia, NWS gage, at State Highway 690 bridge	165.4	208.8	214.3	218.2	NWS
Columbia, 2,000 ft downstream from C&O Railroad station	165.0	----------	206.0	----------	CE
Cartersville, GS gage, 200 ft downstream from State Highway 45 bridge	156.4	190.3	197.3	201.4	GS
Maidens, at U.S. Highway 522 bridge	139.2	162.1	----------	171.4	GS
Richmond, VBWR gage, 0.1 mile upstream from Huguenot Memorial bridge	116.6	122.2	123.8	127.4	VBWR
Richmond, NWS gage, at city locks	108.7	27.5	28.6	36.5	NWS

Table A5.--Reservoir storage and peak flow reduction, June-July 1972, in the Susquehanna River Basin in New York and Pennsylvania

[Adapted from information furnished by U.S. Army Corps of Engineers, Baltimore District]

Report No.	Reservoir, stream and location	Reservoir				Stream			
		Available storage space at beginning of flood (acre-ft)	Storage space used (acre-ft)	Peak inflow (cfs)	Peak outflow (cfs)	Estimated unregulated peak discharge (cfs)	Observed regulated peak discharge (cfs)	Reduction in peak	
								Stage (ft)	Discharge (cfs)
86	East Sidney Lake on Ouleout Creek at East Sidney, N.Y.	30,270	2,130	-------	1,170	----------	----------	-------	----------
88	Susquehanna River at Unadilla, N.Y.---------	----------	----------	-------	-------	6,560	6,140	0.2	420
99	Whitney Point Lake on Otselic River at Whitney Point, N.Y.	73,860	39,110	-------	-------	----------	----------	-------	----------
100	Tioughnioga River at Itaska, N.Y.----------	----------	----------	-------	-------	21,900	11,400	2.6	10,500
102	Susquehanna River at Vestal, N.Y.----------	----------	----------	-------	-------	58,800	50,400	1.7	8,400
122	Arkport Reservoir on Canisteo River near Arkport, N.Y.	7,936	7,936	-------	1,080	----------	----------	-------	----------
133	Almond Lake on Canacadea Creek near Almond, N.Y.	13,710	13,010	-------	5,880	----------	----------	-------	----------
135	Canisteo River below Canacadea Creek. at Hornell, N.Y.	----------	----------	-------	-------	33,600	9,560	8	24,000
169	Susquehanna River at Towanda, Pa.----------	----------	----------	-------	-------	333,000	320,000	.9	13,000
178	Stillwater Lake on Lackawanna River near Forrest City, Pa.	11,430	4,890	1,410	1,010	----------	----------	-------	----------
183	Susquehanna River at Wilkes-Barre, Pa.------	----------	----------	-------	-------	358,000	345,000	.6	12,500
195	Curwensville Reservoir on West Branch Susquehanna River near Curwensville, Pa.	114,660	78,110	24,200	8,590	----------	----------	-------	----------
211	First Fork Sinnemahoning Creek Reservoir near Sinnemahoning, Pa.	73,750	59,980	23,500	7,150	----------	----------	-------	----------
215	Kettle Creek Lake near Westport, Pa.--------	73,250	49,950	20,000	5,750	----------	----------	-------	----------
217	West Branch Susquehanna River at Renova, Pa.	----------	----------	-------	-------	234,000	181,000	5.8	53,000
222	Foster Joseph Sayers Lake on Bald Eagle Creek near Blanchard, Pa.	70,415	75,290	27,300	4,890	----------	----------	-------	----------
236	West Branch Susquehanna River at Williamsport, Pa.	----------	----------	-------	-------	346,000	279,000	4.1	67,000
247	Susquehanna River at Sunbury, Pa.----------	----------	----------	-------	-------	693,000	620,000	1.7	73,000
---	Raystown Lake on Raystown Branch, Juniata River near Huntingdon, Pa. [1]	----------	159,000	60,000	17,100	----------	----------	-------	----------
268	Juniata River at Mapleton Depot, Pa.--------	----------	----------	-------	-------	163,000	125,000	4.6	38,000
274	Juniata River at Newport, Pa.----------	----------	----------	-------	-------	226,000	187,000	3.3	39,000
283	Susquehanna River at Harrisburg, Pa.--------	----------	----------	-------	-------	1,120,000	1,020,000	1.9	96,000

1 Construction not completed at time of flood.

Table A6.--Reservoir storage and peak flow reduction, June-July 1972, in the Roanoke River basin in Virginia and North Carolina

[Adapted from information furnished by U.S. Army Corps of Engineers, Wilmington District]

Report No.	Reservoir, stream and location	Reservoir				Stream			
		Available storage space at beginning of flood (acre-ft)	Storage space used (acre-ft)	Peak inflow (cfs)	Peak outflow (cfs)	Estimated unregulated peak discharge (cfs)	Observed regulated peak discharge (cfs)	Reduction in peak	
								Stage (ft)	Discharge (cfs)
645	Smith Mountain Lake on Roanoke River near Penhook, Va.	393,400	77,000	51,500	29,000	----------	----------	-------	----------
648	Leesville Lake on Roanoke River near Leesville, Va.	28,920	28,920	52,500	26,000	----------	----------	-------	----------
651	Roanoke River at Altavista, Va.----------	----------	----------	-------	-------	76,900	37,300	8.7	39,600
653	Roanoke River at Brookneal, Va.----------	----------	----------	-------	-------	88,600	58,400	5.1	30,200
661	Roanoke River at Randolph, Va.----------	----------	----------	-------	-------	84,100	72,500	3.8	11,600
673	Philpott Lake on Smith River near Philpott, Va.	81,000	26,300	19,800	4,560	----------	----------	-------	----------
675	Smith River at Bassett, Va.----------	----------	----------	-------	-------	24,500	6,550	9.4	18,000
676	Smith River at Martinsville, Va.----------	----------	----------	-------	-------	37,600	20,900	6.0	16,700
677	Smith River at Eden, N.C.----------	----------	----------	-------	-------	47,600	24,800	3.3	22,800
679	Dan River at Danville, Va.----------	----------	----------	-------	-------	68,600	59,200	3.0	9,400
682	Dan River at Paces, Va.----------	----------	----------	-------	-------	70,700	64,800	.8	5,900
696	John H. Kerr Reservoir on Roanoke River near Boydton, Va.	1,208,700	790,000	141,000	25,200	----------	----------	-------	----------

Table A7.--Reservoir storage and peak flow reduction, June-July 1972, in the Ohio River basin in New York, Pennsylvania and West Virginia

[Adapted from information furnished by U.S. Army Corps of Engineers, Pittsburg District]

Report No.	Reservoir, stream and location	Reservoir				Stream			
		Available storage space at beginning of flood (acre-ft)	Storage space used (acre-ft)	Peak inflow (cfs)	Peak outflow (cfs)	Estimated unregulated peak discharge (cfs)	Observed regulated peak discharge (cfs)	Reduction in peak	
								Stage (ft)	Discharge (cfs)
	Allegheny River basin								
711	Allegheny Reservoir on Allegheny River near Kinzua, Pa.	585,200	526,190	88,000	25,000	----------	----------	-------	----------
722	Allegheny River at West Hickory, Pa.--------	----------	----------	-------	-------	119,400	42,300	8.5	77,100
725	Tionesta Lake on Tionesta Creek at Tionesta, Pa.	122,720	61,400	21,100	8,890	----------	----------	-------	----------
729	Union City Reservoir on French Creek near Union City, Pa.	47,630	22,150	11,000	2,880	----------	----------	-------	----------
738	East Branch Clarion River Lake at East Branch Clarion River Dam, Pa.	18,680	19,390	7,230	1,810	----------	----------	-------	----------
747	Allegheny River at Parker, Pa.----------	----------	----------	-------	-------	240,000	147,000	6.3	93,000
753	Mahoning Creek Lake at Mahoning Creek Dam, Pa.	69,210	64,880	23,900	7,820	----------	----------	-------	----------
755	Allegheny River at Kittanning, Pa.----------	----------	----------	-------	-------	285,000	184,000	5.2	101,000
757	Crooked Creek Lake at Crooked Creek Dam, Pa.	88,460	56,010	14,400	5,350	----------	----------	-------	----------
766	Yellow Creek Lake at Yellow Creek State Park, Pa.	----------	4,250	-------	-------	----------	----------	-------	----------
769	Conemaugh River Lake at Conemaugh River Dam, Pa.	268,770	233,150	99,101	25,900	----------	----------	-------	----------
772	Loyalhanna Lake at Loyalhanna Dam, Pa.------	90,940	68,470	27,500	6,080	----------	----------	-------	----------
774	Kiskiminetas River at Vandergrift, Pa.------	----------	----------	-------	-------	132,500	32,600	17.6	99,900
777	Allegheny River at Natrona, Pa.----------	----------	----------	-------	-------	418,000	205,000	12.1	213,000
	Monongahela River basin								
790	Tygart Lake on Tygart Valley River near Grafton, W.Va.	170,900	134,300	52,000	16,800	----------	----------	-------	----------
812	Monongahela River at Greensboro, Pa.--------	----------	----------	-------	-------	138,000	103,000	3.1	35,000
819	Monongahela River at Charleroi, Pa.----------	----------	----------	-------	-------	152,000	110,000	-------	42,000
823	[1] Deep Creek Reservoir near Oakland, Md.------	28,560	11,200	-------	-------	----------	----------	-------	----------
826	Youghiogheny River Lake at Youghiogheny River Dam, Pa.	97,240	38,080	10,500	6,740	----------	----------	-------	----------
	Ohio River main stem								
842	Ohio River at Sewickley, Pa.----------	----------	----------	-------	-------	594,000	370,000	11.0	224,000
843	Ohio River at St. Marys, W.Va.----------	----------	----------	-------	-------	560,000	382,000	11.5	178,000
873	Ohio River at Huntington, W.Va.----------	----------	----------	-------	-------	530,000	375,000	9.9	155,000

1 Records furnished by Pennsylvania Electric Co.

Table A8.--Comparative summary data of historical and June-July 1972 water and sediment discharge

Report No.	Stream and place of determination	Drainage area (sq mi)	Average annual				Flood period						
			Water		Sediment			Water			Sediment		
								Peak	Total		Peak	Total	
			cfs-days	cfsm	Tons	Tons per sq mi	Period (June)	cfs	cfs-days	cfsm	mg/l	Tons	Tons per sq mi
	DELAWARE RIVER BASIN												
23	Schuylkill River at Berne, Pa.	355	239,000	1.84	34,600	97	21-25	42,800	67,400	37.97	850	77,500	218
32	Perkiomen Creek at Graterford, Pa.	279 [a]208	135,000	1.33	51,100	183	22-23	35,800	21,300	38.17	1,420	33,200	160
34	Skippack Creek near Collegeville, Pa.	53.7	24,600	1.26	24,100	448	22-23	5,240	1,960	18.25	1,900	4,470	83
39	Schuylkill River at Manayunk, Philadelphia, Pa.	1,893	1,010,000	1.47	269,000	142	22-27	103,000	248,000	21.82	2,060	769,000	406
64	Brandywine Creek at Chadds Ford, Pa.	287	137,000	1.31	51,100	178	22-23	23,800	16,000	27.87	1,340	19,600	68
67	Brandywine Creek at Wilmington, Del.	314	161,000	1.40	54,600	174	22-23	29,000	19,800	31.53	1,270	33,700	107
	SUSQUEHANNA RIVER BASIN												
212	First Fork Sinnemahoning Creek near Sinnemahoning, Pa.[b]	245	127,000	1.42	14,700	60	22-02	7,150	36,600	13.58	560	10,800	44
274	Juniata River at Newport, Pa.	3,354	1,530,000	1.25	322,000	96	21-27	187,000	565,000	24.07	980	680,000	203
280	Conodoguinet Creek near Hogestown, Pa.	470	207,000	1.20	23,900	51	21-26	33,700	74,000	26.24	585	53,100	113
281	Conodoguinet Creek Tributary No. 1 near Enola, Pa.	.77	325	1.16	65	84	21-22	604	152	98.70	3,450	310	403
283	Susquehanna River at Harrisburg, Pa.	24,100	12,300,000	1.40	2,550,000	106	21-30	1,020,000	4,270,000	17.72	1,020	7,520,000	312
298	Conestoga Creek at Lancaster, Pa.	324	135,000	1.15	50,200	155	21-24	88,300	77,600	59.88	3,260	295,000	910
	POTOMAC RIVER BASIN												
367	North Branch Potomac River near Cumberland, Md.	875	437,000	1.37	156,000	178	21-02	17,400	65,000	6.19	407	38,900	44
	Potomac River near Point of Rocks, Md.	9,651	3,300,000	.94	883,000	92	21-26	347,000	929,000	16.05	1,100	1,360,000	141
	Monocacy River at Jug Bridge near Frederick, Md.	817	312,000	1.05	143,000	175	21-26	81,600	171,000	34.88	1,290	240,000	294
459	Stave Run near Reston, Va.	.08	---	---	---	---	20-23	87	17.6	220	25,500	493	6,162
460	Smilax Branch at Reston, Va.	.32	.39	1.22	---	---	20-23	230	68	212	3,680	200	625
	Northwest Branch Anacostia River near Colesville, Md.	21.1	7,810	1.02	14,200	672	21-23	11,000	3,200	50.47	4,150	13,000	616

a Drainage area below Green Lane Reservoir.
b 0.75 mile downstream from George B. Stevenson Dam.

DATA SOURCES

METEOROLOGIC DATA

The original records of observations provide the most detailed information about weather events, and such records were the sources of the wind, pressure, and temperature data presented in this report. Examples of these records are presented in R. M. DeAngelis and W. T. Hodge, "Preliminary Climatic Data Report, Hurricane Agnes June 14–23, 1972," NOAA Tech. Memo. EDS NCC–1, Aug. 1972.

Precipitation data used in constructing the mass curves of rainfall and the isohyetal maps were obtained from the monthly publications "Hourly Precipitation Data" and "Climatological Data." These data were supplemented by the bucket-survey measurements listed in table 4.

Information on deaths and property damage was obtained from R. M. DeAngelis, "North Atlantic Tropical Cyclones," 1972, Climatological Data National Summary, Annual 1972, pp. 62–69.

The above records and publications, as well as radar photographs of storm precipitation and cloud patterns, may be obtained from the NOAA-EDS National Climatic Center, Federal Building, Asheville, N.C. 28801. Satellite photographs like those presented herein may be obtained from the NOAA National Environmental Satellite Service, Washington, D.C. 20233. Government regulations require payment for providing copies of unpublished and published data and other material, and a cost estimate should be requested before placing an order.

FLOOD DATA

This report contains the most frequently used types of information on the floods of June, July 1972, but much detailed additional information was not published owing to space limitations. These additional data consist of continuous-stage records, miscellaneous water-surface readings, measurements of flow, cross sections of channels and surveys of stream reaches, floodmarks, and other direct observations. Though applying only to a relatively small number of places, the data greatly augment those presented here.

Additional streamflow data may be obtained by contacting the U.S. Geological Survey at the following addresses:

State	*Address*
Connecticut	P.O. Box 715 Room 235 Post Office Building 135 High Street Hartford, Conn. 06101
New York	P.O. Box 948 Room 343, U.S. Post Office and Court House Broadway & Albany Streets Albany, N.Y. 12201
Pennsylvania	P.O. Box 1107 4th Floor Federal Building 228 Walnut Street Harrisburg, Pa. 17108
West Virginia	Room 3303 Federal Building 500 Quarrier Street, East Charleston, W. Va. 25301
Maryland	8609 Satyr Hill Road Parkville, Md. 21234
Virginia	Room 304, 200 West Grace Street Richmond, Va. 23220
North Carolina	P.O. Box 2857 Room 440 Century Station Post Office Building Raleigh, N.C. 27602

State agencies concerned with such activities as highways, health, planning, and public works frequently collect information on outstanding floods. Counties, towns, cities, and villages are possible sources of local area information.

Among the Federal agencies where flood data may be obtained are: Civil Defense Administration; Department of the Army, U.S. Corps of Engineers; Soil Conservation Service, U.S. Department of Agriculture.

The U.S. Geological Survey and its cooperating state agencies have published many reports on the floods of June-July 1972. These publications consist primarily of hydrologic atlases and open-file reports. The publications are available for inspection in the offices of the Geological Survey previously listed and in offices of cooperating state agencies. Copies of many of the reports can be obtained. The following reports have been published:

Hydrologic atlases.—Flooded areas are delineated on 7.5′ topographic maps at scales 1:24,000.

Darmer, K. I., and Wagner, L. A., 1973, Flood of June 1972 at Elmira, New York: U.S. Geol. Survey Hydrol. Inv. Atlas HA–518.

——— 1973, Flood of June 1973 at Corning, New York: U.S. Geol. Survey Hydrol. Inv. Atlas HA–519.

Flippo, H. N., Jr., and Lenfest, L. W., Jr., 1973, Floods of June 1972 in Wilkes-Barre area, Pennsylvania: U.S. Geol. Survey Hydrol. Inv. Atlas HA–523.

Page, L. V., and Shaw, L. C., 1973, Floods of June 1972 in the Harrisburg area, Pennsylvania: U.S. Geol. Survey Hydrol. Inv. Atlas HA–530.

Open-file flood maps.—Flooded areas are delineated on 7.5′ topographic maps at scale 1:24,000.

Quadrangle Name	*Map Title*
Addison, N.Y.	Canisteo River, Tuscarora Creek and Tioga River near Addison, New York.
Angelica, N.Y.	Genesee River near Belfast, New York.
Bath, N.Y.	Cohocton River at Bath, New York.
Belmont, N.Y.	Genesee River at Belmont, New York.
Big Flats, N.Y.	Chemung River at Big Flats, New York.
Borden, N.Y.	Canisteo River near Rathbone, New York.
Burdett, N.Y.	Seneca Lake Inlet at Watkins Glen. New York.
Caledonia, N.Y.	Genesee River at Avon, New York.
Cameron, N.Y.	Canisteo River at Cameron, New York.
Campbell, N.Y.	Cohocton River at Campbell, New York.
Canisteo, N.Y.	Canisteo River at Canisteo, New York.
Caton, N.Y.-Pa.	Chemung River at Corning Manor, New York.
Corning, N.Y.	Chemung, Tioga, and Cohocton Rivers at Corning, New York.
Elmira, N.Y.	Chemung River and Newton Creek at Elmira, New York.
Fillmore, N.Y.	Genesee River at Fillmore, New York.
Geneseo, N.Y.	Genesee River at Geneseo, New York.
Genesee Junction, N.Y.	Genesee River near Rochester, New York
Harrisburg West, Pa.	Susquehanna River, Paxton Creek, and Conodoguinet Creek at Harrisburg, Pennsylvania.
Hornell, N.Y.	Canisteo River and Canacadea Creek at Hornell, New York.
Houghton, N.Y.	Genesee River at Houghton, New York.
Ithaca West, N.Y.	Cayuga Inlet and Cayuga Lake at Ithaca, New York.
Kingston, Pa.	Susquehanna River at Kingston, Pennsylvania.
Knapp Creek, N.Y.	Allegheny River at Allegany, New York.
Lemoyne, Pa.	Susquehanna River at Lemoyne, Pennsylvania.
Limestone, N.Y.	Allegheny River near Limestone, New York.
Lock Haven, Pa.	West Branch Susquehanna River and Bald Eagle Creek at Lock Haven, Pennsylvania.
Middletown, Pa.	Susquehanna River and Swatara Creek at Middletown, Pennsylvania.
Mill Hall, Pa.	Bald Eagle and Fishing Creeks at Mill Hall, Pennsylvania.
Montour Falls, N.Y.	Catharine Creek and Seneca Lake Inlet at Montour Falls, New
Moravia, N.Y.	Owasco Inlet at Moravia, New York.
Mount Morris, N.Y.	Genesee River near Mount Morris, New York.
Olean, N.Y.	Allegheny River and Olean Creek at Olean, New York.
Pittston, Pa.	Susquehanna River in the vicinity of Wilkes-Barre and Pittston, Pennsylvania.
Portageville, N.Y.	Genesee River at Portageville, New York.
Portville, N.Y.	Allegheny River at Portville, New York.
Rathbone, N.Y.	Canisteo River at Rathbone, New York.
Rush, N.Y.	Genesee River near Avon, New York.
Salamanca, N.Y.	Allegheny River at Salamanca, New York.
Savona, N.Y.	Cohocton River at Savona, New York.
Seeley Creek, N.Y.-Pa.	Chemung River near East Corning, New York.
Steelton, Pa.	Susquehanna River and Yellow Breeches Creek at Steelton, Highspire, and New Cumberland, Pennsylvania.
Syracuse West, N.Y.	Onondaga Lake and Leg Creek at Syracuse, New York.
Towlesville, N.Y.	Canisteo River near Canisteo, New York.
Waverly, N.Y.-Pa.	Chemung River near Waverly, New York.
Wellsburg, N.Y.-Pa.	Chemung River at Wellsburg, New York.
Wellsville North, N.Y.	Genesee River at Scio and Dyke Creek at Wellsville, New York.
Wellsville South, N.Y.	Genesee River and Dyke Creek at Wellsville, New York.
Wilkes-Barre West, Pa.	Susquehanna River at Wilkes-Barre and Plymouth, Pennsylvania.

Open file flood maps delineating flooded areas were prepared for the flood of June 1972 using aerial photographs obtained at or near the flood crest. The delineation is shown directly on the photomosaics compiled from the photography. These maps have been prepared for selected reaches on the following streams:

Potomac River near Washington, District of Columbia

Susquehanna River at Harrisburg, Pennsylvania

Yellow Breeches Creek near Harrisburg, Pennsylvania

Occoquan Creek near Occoquan, Virginia

Four Mile Run at Alexandria, Virginia

Patuxent River near Laurel, Maryland

Seneca River near Seneca, Maryland

Rappahannock River near Fredericksburg, Virginia

James River at Richmond, Virginia

Anacostia River near Washington, District of Columbia

Patapsco River near Hollofield, Maryland

Other technical information available on the June-July 1972 floods include:

Tropical Storm Agnes, Hydrologic Study, Reports, 1, 2, 3, by Department of the Army, U.S. Corps of Engineers, North Atlantic Division, New York, New York 10007.

Pictorial reports were prepared on the June-July 1972 floods by many magazines and newspapers. These reports can generally be inspected at the publication offices from which they originate.

The U.S. Geological Survey and its cooperating state agencies have published many reports on previous floods in the areas of the East that experienced the June-July 1972 floods. These reports provide much detailed peak-flow information on previous floods for comparison with June-July 1972 data. The following is a selected list of such publications:

The New England Flood of November 1927, U.S. Geol. Survey Water-Supply Paper 636–C.

The New York State Flood of July 1935, U.S. Geol. Survey Water-Supply Paper 773–E.

The Floods of March 1936 (Part 1) New England Rivers, U.S. Geol. Survey Water-Supply Paper 798.

The Floods of March 1936 (Part 2) Hudson River to Susquehanna River, U.S. Geol. Survey Water-Supply Paper 799.

The Floods of March 1936 (Part 3) Potomac, James and Upper Ohio Rivers, U.S. Geol. Survey Water-Supply Paper 800.

Hurricane Floods of 1938 in North Atlantic States, U.S. Geol. Survey Water-Supply Paper 966.

The Floods of August-October 1955 New England to North Carolina,, U.S. Geol. Survey Water-Supply Paper 1420.

New Year Flood of 1949 in New York and New England, U.S. Geol. Survey Circular 155.

Floods of August and September 1972 in New Jersey, New Jersey Dept. of Environmental Protection, Div. of Water Resources, Special Report No. 37.

Floods of August 1967 in Maryland and Delaware, U.S. Geol. Survey open-file report.

Flood of August 24–25, 1967 in the Washington Metropolitan Area, U.S. Geol. Survey open-file report.

Flood of July 22, 1969 in the Northern Virginia Area, U.S. Geol. Survey open-file report.

Flood of August 1969 in Virginia, U.S. Geol. Survey open-file report.

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