

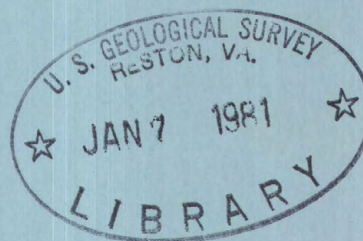
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Water Resources Data for Ohio

Part 1. Surface Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Prepared in cooperation with the State of Ohio
and with other agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

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1974

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SEPTEMBER

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1974

Water Resources Data for Ohio

Part 1. Surface Water Records



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the State of Ohio
and with other agencies

Prepared in cooperation with
Ohio Department of Natural Resources
Ohio Environmental Protection Agency
Ohio Department of Transportation
Miami Conservancy District
City of Columbus
City of Canton
Corps of Engineers, U. S. Army

Water resources records, 1974, for Ohio are in
the following reports of the U. S. Geological Survey:

1. Water Resources Data for Ohio
Part 1: Surface Water Records
2. Water Resources Data for Ohio
Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
975 W. Third Avenue
Columbus, Ohio 43212

1975

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WATER RESOURCES DATA FOR OHIO, 1974

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water data for the 1974 water year for Ohio, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report. Records are included for 215 gaging stations of which 185 are streamflow discharge stations and 30 are reservoir or lake stations; also are included records for 73 low-flow partial-record stations, 72 crest-stage partial record stations, and 35 miscellaneous sites. Locations of gaging stations are shown in figure 1. A few pertinent stations (not included above) in bordering States are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J. J. Molloy, district chief, succeeded by James F. Blakey. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Ohio.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. More information is given under the heading "Publications" on page 10.

COOPERATION

The U.S. Geological Survey and organizations of the State of Ohio have had cooperative agreements for the systematic collection of streamflow records since 1898. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Ohio Department of Natural Resources, W. B. Nye, director,
and H. R. Collins, chief, Division of Geological Survey.

Ohio Environmental Protection Agency, I. L. Whitman,
director, and Ernie Neal, chief, Division of
Surveillance.

WATER RESOURCES DATA FOR OHIO, 1974

Ohio Department of Transportation, J. P. Richley,
director.

Miami Conservancy District, L. B. Coy, general manager
and secretary.

City of Columbus, Department of Public Service,
R. D. Jackson, director.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 145 gaging stations published in this report. Assistance was also furnished by National Weather Service, NOAA, U.S. Department of Commerce.

The City of Canton furnished financial assistance in the collection of records for one gaging station published in this report.

Organizations that supplied data are acknowledged in station descriptions.

DEFINITION OF TERMS

Terms related to streamflow and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 12.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

CFS-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Contents is the volume of water in a reservoir, lake, stream or aquifer. Contents herein is that of a reservoir or lake and unless otherwise indicated, is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial

structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (CFS-cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Partial-record station is a particular site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (IN,in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

WATER RESOURCES DATA FOR OHIO, 1974

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

As an added means of identification, each gaging station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 03156400, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "156400." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 3 (Ohio River basin) and Part 4 (St. Lawrence River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and the yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing

stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under

"PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height (or elevation), the minimum discharge if there is little or no regulation (or minimum contents), and the minimum gage height (or elevation) if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of water-quality records, is given under "REMARKS"; for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that

only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or inches (line headed "IN."). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, or

for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents. Even at those

stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Ohio for the period October 1960 to September 1965 are in Water-Supply Papers 1907, 1908, and 1912.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Ohio are compiled in water-supply papers 1305 and 1307 through September 1950, and in 1725 and 1727 for October 1950 through September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on the water temperature, and on the sediment. These data are given in Part 2 of this report. Under the

"REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

Records of discharge collected by agencies other
than the Geological Survey

Records of discharge not published by the Geological Survey were collected in Ohio at 25 sites during the water year 1974 by the following agencies: Records at 24 sites were collected by the National Weather Service; and by the Corps of Engineers, U.S. Army, at 1 site. Information on specific sites can be obtained from the district office of the U.S. Geological Survey at the address given on the back of the title page of this report.

HYDROLOGIC CONDITIONS

Streamflow for the year was excessive in central and eastern Ohio and averaged about 120 percent of median in the western part of the state. There was no major flooding during the year.

Figure 2, on page 13, for which three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges during the 1974 water year with the monthly and yearly median discharges for a 30 year reference period.

SELECTED REFERENCES

- Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.
- Corbett, D. M., and others, 1943, reprinted 1957, Stream-gaging procedures, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Table 1.--Factors for converting English units to International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
<i>Area</i>		
acres	4047	square metres (m ²)
	.4047	*hectares (ha)
	.4047	square hectometres (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
<i>Volume</i>		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm ³)
	3.785x10 ⁻³	cubic metres (m ³)
million gallons (10 ⁶ gal)	3785	cubic metres (m ³)
	3.785x10 ⁻³	cubic hectometres (hm ³)
cubic feet (ft ³)	28.32	cubic decimetres (dm ³)
	.02832	cubic metres (m ³)
cfs-days [(ft ³ /s) · d]	2447	cubic metres (m ³)
	2.447x10 ⁻³	cubic hectometres (hm ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	1.233x10 ⁻³	cubic hectometres (hm ³)
	1.233x10 ⁻⁶	cubic kilometres (km ³)
<i>Flow</i>		
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)
	6.309x10 ⁻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)
<i>Mass</i>		
tons (short)	.9072	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

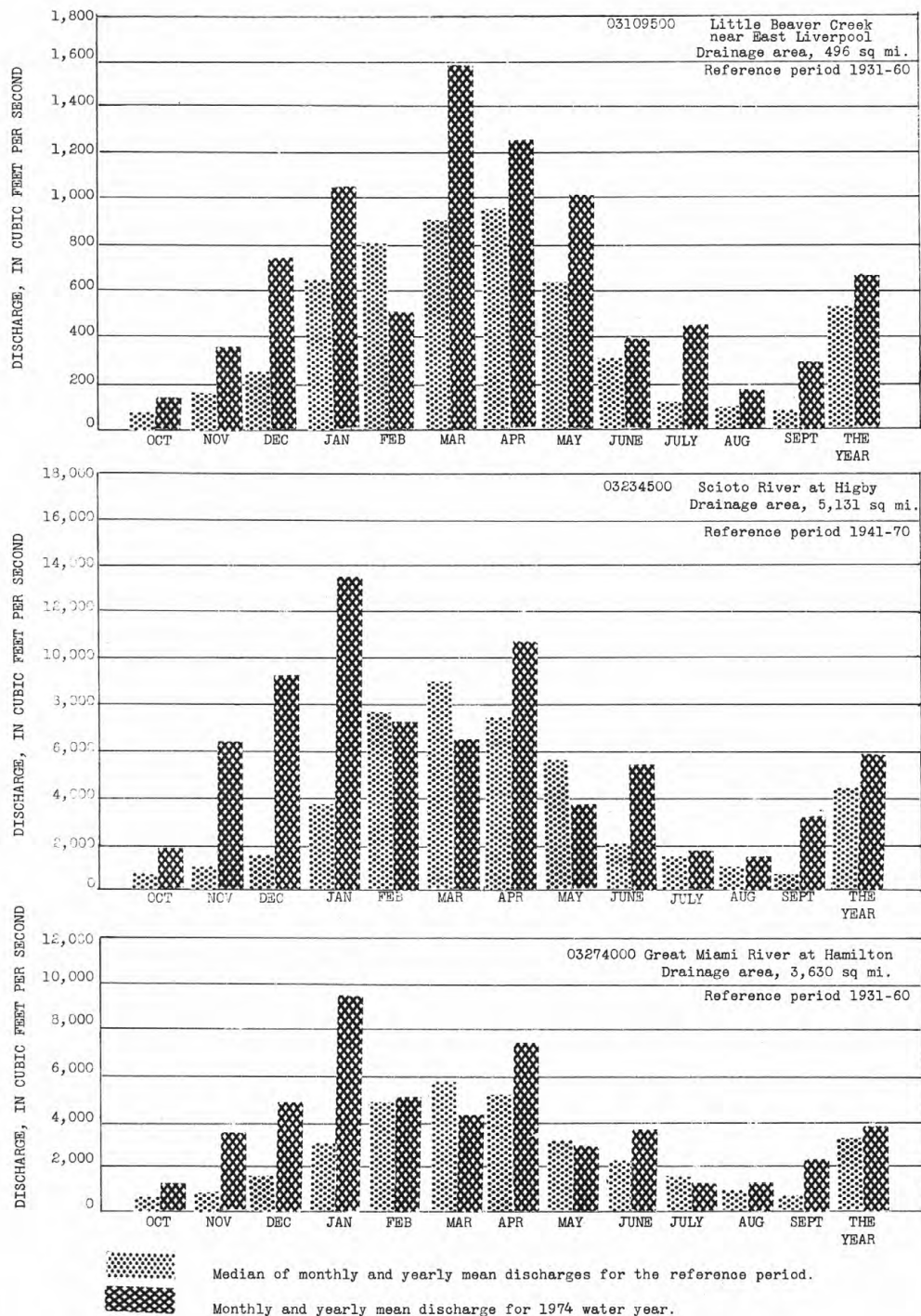


FIGURE 2.--RUNOFF DURING 1974 WATER YEAR COMPARED WITH MEDIAN RUNOFF
 FOR THE REFERENCE PERIOD FOR THREE REPRESENTATIVE GAGING STATIONS.

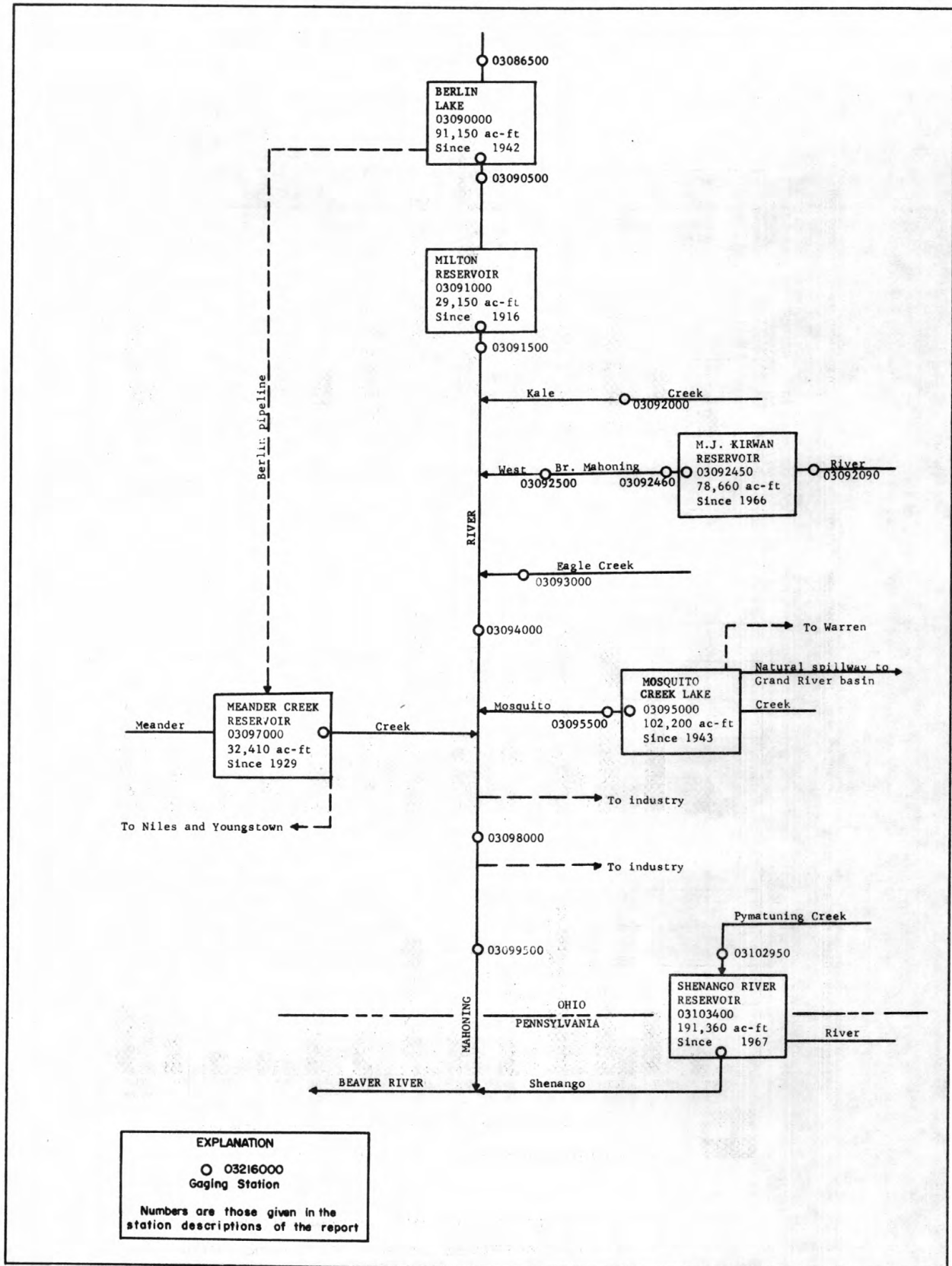


Figure 3.--Schematic diagram showing diversions and storage in the Beaver River basin in Ohio.

OHIO RIVER BASIN

EEAVER RIVER BASIN

03086500 Mahoning River at Alliance, Ohio

LOCATION.--Lat 40°55'58", long 81°05'41", in SE 1/4 sec.24, T.19 N., R.6 W., Stark County, on right bank 15 ft (5 m) upstream from Webb Avenue Bridge in Alliance, 0.2 mi (0.3 km) upstream from waterworks dam, and 4 mi (6 km) upstream from Beech Creek.

DRAINAGE AREA.--89.2 mi² (231 km²).

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 1,037.3 ft (316.17 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--33 years, 82.3 ft³/s (2.331 m³/s), 12.53 in/yr (318.3 mm/yr), unadjusted for diversion 1941-55.

EXTREMES.--Current year: Maximum discharge, 2,490 ft³/s (70.5 m³/s) July 15, gage height, 5.10 ft (1.554 m); minimum, 12 ft³/s (0.34 m³/s) Oct. 2-5, July 13, 14; minimum gage height, 1.56 ft (0.475 m) July 13, 14.

Period of record: Maximum discharge, 9,740 ft³/s (276 m³/s) Jan. 21, 1959, gage height, 9.11 ft (2.777 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s) on basis of computation of peak flow over dam; no flow at times.

REMARKS.--Records good. Flow slightly regulated by Westville Reservoir 9.3 mi (15.0 km) upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	130	102	92	88	385	320	235	117	396	23	85
2	12	93	78	71	75	305	577	113	71	160	23	124
3	12	53	65	65	65	235	546	88	52	55	30	240
4	14	39	62	55	55	185	633	85	40	35	38	408
5	18	31	68	49	49	275	456	59	35	30	38	147
6	18	26	65	44	52	230	212	55	30	35	28	88
7	16	24	52	40	81	147	155	59	28	25	23	68
8	20	22	46	38	65	626	124	49	23	21	62	55
9	18	22	43	36	55	1,250	136	55	23	19	265	46
10	18	22	49	46	46	1,330	136	59	21	19	74	46
11	16	22	46	52	46	640	128	49	19	16	35	43
12	16	22	40	46	46	265	109	801	23	14	38	40
13	22	22	49	40	59	160	95	1,360	19	14	71	43
14	33	20	147	49	106	120	99	396	17	25	43	62
15	26	24	109	68	60	109	221	151	21	1,510	33	43
16	18	39	68	250	55	352	139	99	25	780	28	30
17	16	36	46	474	46	320	102	78	21	117	139	25
18	12	29	40	275	49	155	85	68	21	59	95	43
19	20	26	35	1,180	52	132	74	55	21	40	46	43
20	22	26	168	780	85	117	68	43	23	30	35	43
21	22	29	682	363	78	109	62	38	30	23	30	68
22	22	31	280	335	235	128	62	49	30	21	25	95
23	22	29	128	290	346	189	68	106	35	38	33	59
24	24	29	92	468	155	155	62	81	30	49	33	40
25	24	157	106	217	109	136	55	62	23	30	25	33
26	24	357	330	143	85	139	49	46	55	23	23	30
27	24	174	612	226	81	260	43	38	55	21	25	28
28	41	390	414	245	120	164	40	33	33	21	143	40
29	73	379	176	185	-----	212	33	203	33	30	346	46
30	115	164	143	139	-----	682	71	534	62	28	230	46
31	126	-----	106	109	-----	612	-----	255	-----	25	117	-----
TOTAL	878	2,467	4,447	6,470	2,444	10,124	4,960	5,402	1,036	3,709	2,197	2,207
MEAN	28.3	82.2	143	209	87.3	327	165	174	34.5	120	70.9	73.6
MAX	126	390	682	1,180	346	1,330	633	1,360	117	1,510	346	408
MIN	12	20	35	36	46	109	33	33	17	14	23	25
CFSM	.32	.92	1.60	2.34	.98	3.67	1.85	1.95	.39	1.35	.79	.83
IN.	.37	1.03	1.85	2.70	1.02	4.22	2.07	2.25	.43	1.55	.92	.92

CAL YR 1973 TOTAL 38,951.2 MEAN 107 MAX 1,720 MIN 5.6 CFSM 1.20 IN 16.24
WTR YR 1974 TOTAL 46,341.0 MEAN 127 MAX 1,510 MIN 12 CFSM 1.42 IN 19.33

PEAK DISCHARGE (BASE, 900 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-19	1500	4.10	1,540	05-13	0100	4.66	2,040
03-10	1200	4.01	1,470	07-15	1300	5.10	2,490

BEAVER RIVER BASIN

03090500 Mahoning River below Berlin Dam, near Berlin Center, Ohio

LOCATION.--Lat 41°02'54", long 81°00'05", in T.1 N., R.6 W., Mahoning County, on left bank 600 ft (183 m) downstream from Berlin Dam and 3.2 mi (5.1 km) northwest of Berlin Center.

DRAINAGE AREA.--248 mi² (642 km²).

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1942, published as "near Berlin Center".

GAGE.--Water-stage recorder and concrete control. Datum of gage is 958.00 ft (291.998 m) above mean sea level, levels by Corps of Engineers. Prior to Oct. 1, 1942, at site 1.8 mi (2.9 km) upstream at datum 966.15 ft (294.482 m) above mean sea level, adjustment of 1912, levels by Mahoning Valley Sanitary District. Oct. 1, 1942, to May 11, 1949, at site 200 ft (61 m) downstream from present site at datum 8.00 ft (2.438 m) lower than present datum.

AVERAGE DISCHARGE.--44 years, 224 ft³/s (6.344 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 1,140 ft³/s (32.3 m³/s) Mar. 10-12, gage height, 3.69 ft (1.125 m); minimum, 32 ft³/s (0.91 m³/s) July 19-23, gage height, 1.50 ft (0.457 m).

Period of record: Maximum discharge, 8,630 ft³/s (244 m³/s) Jan. 25, 1937, gage height, 10.97 ft (3.344 m), site and datum then in use; no flow at times during 1948-49, 1967, 1970-71.

REMARKS.--Records good. Flow regulated since 1942 by Berlin Lake (see station 03090000). Small diversion since 1958 from Berlin Lake to Meander Creek Reservoir (see station 03097000) by the Berlin Pipeline. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Seven discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 743: 1932. WSP 853: 1936. WSP 873: 1932-34, 1935(M), 1936-38. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	61	409	614	889	94	607	112	644	228	356	472
2	162	60	440	621	889	94	763	112	788	636	385	478
3	134	60	478	607	897	92	771	112	578	995	385	472
4	119	60	478	614	478	149	780	112	228	1,070	391	636
5	92	60	478	607	162	323	950	112	101	682	472	941
6	60	52	478	599	158	434	1,100	112	101	228	557	1,020
7	59	45	478	409	158	434	1,090	112	101	228	557	1,020
8	60	47	478	137	166	491	1,070	112	101	175	564	1,020
9	60	47	478	62	166	830	1,060	116	104	109	564	1,010
10	60	47	472	62	162	1,110	1,040	116	104	109	460	1,000
11	59	47	472	62	166	1,140	1,030	116	104	109	356	763
12	59	47	265	62	162	1,130	1,000	130	106	109	356	523
13	58	47	270	62	158	1,120	713	119	104	109	356	530
14	58	47	510	62	162	1,110	440	391	104	109	356	530
15	58	47	510	61	166	1,090	440	754	104	194	356	530
16	58	47	517	63	162	1,090	291	838	104	166	356	362
17	58	47	301	206	162	1,090	149	915	104	166	434	211
18	59	47	40	427	166	1,080	119	906	104	166	510	211
19	59	47	39	296	162	1,040	90	621	104	149	504	211
20	59	47	43	65	162	1,030	90	247	104	32	537	291
21	60	47	41	397	162	1,010	90	134	104	32	564	367
22	60	47	40	738	166	995	90	134	104	32	564	362
23	60	47	40	797	166	986	90	270	104	33	557	362
24	60	47	40	797	171	977	90	472	104	97	557	280
25	60	51	40	838	171	698	90	550	104	198	557	206
26	60	49	42	897	171	427	90	334	104	233	550	206
27	60	198	41	889	171	434	90	64	104	233	550	206
28	60	409	206	889	130	434	88	64	104	233	550	206
29	60	409	530	889	-----	440	85	69	104	280	523	228
30	61	409	607	889	-----	453	99	104	116	323	485	247
31	60	-----	599	880	-----	466	-----	280	-----	323	478	-----
TOTAL	2,223	2,722	9,860	14,598	7,061	22,291	14,495	8,640	4,944	7,786	14,747	14,901
MEAN	71.7	90.7	318	471	252	719	483	279	165	251	476	497
MAX	171	409	607	897	897	1,140	1,100	915	788	1,070	564	1,020
MIN	58	45	39	61	130	92	85	64	101	32	356	206

CAL YR 1973 TOTAL 105,810 MEAN 290 MAX 1,890 MIN 13
WTR YR 1974 TOTAL 124,268 MEAN 340 MAX 1,140 MIN 32

Note: No diversion during the year.
By the Mahoning Valley Sanitary District.

03091500 Mahoning River at Pricetown, Ohio

LOCATION.--Lat 41°07'53", long 80°58'17", in T.2 N., R.5 W., Mahoning County, on left bank 0.3 mi (0.5 km) downstream from Milton Dam. 0.5 mi (0.8 km) southwest of Pricetown, and 3 mi (5 km) upstream from Kale Creek.

DRAINAGE AREA.--273 mi² (707 km²).

PERIOD OF RECORD.--July 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 905.00 ft (275.844 m) above mean sea level, adjustment of 1912. Prior to Aug. 14, 1929 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 246 ft³/s (6.967 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) July 1, gage height, 4.81 ft (1.466 m); minimum, 41 ft³/s (1.16 m³/s) Nov. 10-13, Dec. 13-19.

Period of record: Maximum discharge, 6,770 ft³/s (192 m³/s) Jan. 25, 1937, gage height, 15.01 ft (4.575 m), from rating curve extended above 4,200 ft³/s (119 m³/s) on basis of velocity-area studies; minimum, 0.4 ft³/s (0.011 m³/s) Nov. 9, 10, 1941, Feb. 19-21, Oct. 10-21, 1945.

REMARKS.--Records good. Flow regulated by Berlin Lake beginning 1942 and Milton Reservoir (see stations 03090000 and 03091000). Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Seven discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 728: 1930 (M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	66	75	830	926	134	704	105	96	486	343	637
2	144	64	75	830	922	134	469	105	177	1,040	343	633
3	121	64	75	905	922	134	264	107	278	1,040	346	633
4	121	64	76	1,010	913	134	403	105	278	1,040	346	688
5	108	64	76	1,010	545	277	828	107	278	708	364	864
6	73	60	76	998	130	506	996	107	278	267	397	1,010
7	72	42	76	843	130	502	1,000	107	275	264	400	1,010
8	72	42	229	643	130	502	1,000	107	275	217	403	1,010
9	72	42	421	549	130	692	1,000	109	275	117	462	1,010
10	72	42	421	545	130	1,010	1,010	109	272	117	521	1,010
11	72	41	358	538	128	1,010	1,000	117	247	117	518	1,010
12	72	41	161	535	128	1,010	1,000	121	215	117	518	1,010
13	73	42	134	527	128	1,010	1,000	117	215	117	434	952
14	72	42	41	520	130	1,020	992	247	199	119	352	504
15	72	42	41	506	136	1,020	978	535	172	182	352	382
16	72	42	41	495	130	1,030	960	539	172	207	352	236
17	69	42	41	461	130	1,030	397	542	167	95	355	165
18	63	42	41	400	130	1,030	102	546	149	123	355	167
19	61	42	186	257	130	1,030	102	553	136	151	358	167
20	63	42	415	103	130	1,030	102	406	121	151	437	167
21	63	43	409	247	132	1,030	102	272	105	149	542	169
22	63	42	406	591	134	1,030	102	549	107	149	542	169
23	63	42	403	726	132	1,030	102	546	105	149	542	169
24	63	43	403	726	132	1,030	102	546	105	149	542	172
25	63	46	400	806	132	1,030	102	546	105	127	542	172
26	63	43	400	934	132	1,020	102	546	107	93	539	172
27	63	43	397	934	132	1,010	104	542	105	93	539	172
28	64	44	394	930	132	987	104	307	105	93	546	172
29	64	61	394	930	-----	974	104	96	105	121	549	204
30	66	75	397	930	-----	965	105	95	107	153	581	255
31	64	-----	559	926	-----	852	-----	96	-----	228	637	-----
TOTAL	2,409	1,450	7,621	21,185	7,236	25,203	15,336	8,932	5,331	8,179	14,057	15,091
MEAN	77.7	48.3	246	683	258	813	511	288	178	264	453	503
MAX	166	75	559	1,010	926	1,030	1,010	553	278	1,040	637	1,010
MIN	61	41	41	103	128	134	102	95	96	93	343	165

CAL YR 1973 TOTAL 108,594 MEAN 298 MAX 1,000 MIN 41
WTR YR 1974 TOTAL 132,030 MEAN 362 MAX 1,040 MIN 41

BEAVER RIVER BASIN

03092000 Kale Creek near Pricetown, Ohio

LOCATION.--Lat 41°08'23", long 80°59'43", in T.3 N., R.5 W., Trumbull County, on right bank at downstream side of county line road bridge, 0.4 mi (0.6 km) north of Mahoning-Trumbull County line, 1.5 mi (2.4 km) northwest of Pricetown, 2.2 mi (3.5 km) upstream from mouth, and 3.5 mi (5.6 km) south of Newton Falls.

DRAINAGE AREA.--21.9 mi² (56.7 km²).

PERIOD OF RECORD.--October 1940 to current year. Prior to June 1941 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 914.70 ft (278.800 m) above mean sea level, adjustment of 1912. Prior to June 27, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 21.5 ft³/s (0.609 m³/s), 13.34 in/yr (338.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,590 ft³/s (45.0 m³/s) May 12, gage height, 6.26 ft (1.908 m); minimum, 0.67 ft³/s (0.017 m³/s) June 10, 11.

Period of record: Maximum discharge, 3,890 ft³/s (110 m³/s) Jan. 21, 1959, gage height, 8.52 ft (2.597 m); no flow at times in 1952-55, 1962-66.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 973: 1942. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	107	18	15	11	141	76	93	6.9	658	.79	14
2	2.6	61	11	11	8.3	88	378	30	4.1	53	.79	10
3	2.5	16	6.5	8.3	6.6	78	98	21	2.2	11	1.1	53
4	2.3	8.1	5.4	6.0	4.8	75	97	31	1.5	4.8	15	87
5	7.8	4.7	9.5	4.6	3.4	143	41	14	.99	3.0	19	15
6	6.3	3.2	17	4.0	2.8	71	21	11	.85	2.0	3.9	4.8
7	2.5	2.5	7.8	3.6	4.6	31	15	13	.85	1.5	2.0	2.8
8	1.8	2.0	4.4	3.2	4.4	28	12	9.9	.79	1.5	5.9	2.2
9	1.4	1.8	3.5	2.8	3.8	380	13	33	.79	1.4	25	1.6
10	2.2	1.9	3.8	3.4	3.0	750	18	56	.79	1.3	11	1.5
11	2.0	2.0	3.4	4.3	2.7	73	28	20	.73	1.3	3.4	1.3
12	1.8	2.3	2.0	4.0	2.8	32	18	982	.92	1.2	2.5	1.5
13	1.9	2.8	2.3	3.4	5.3	19	13	353	.79	1.1	2.0	1.9
14	9.9	3.8	38	3.8	20	12	11	39	.92	1.3	1.8	4.3
15	8.1	4.0	31	6.9	14	11	11	16	.92	5.9	1.6	4.1
16	4.0	7.1	9.9	70	5.5	188	9.9	8.7	.99	9.5	1.5	2.3
17	2.0	7.1	3.5	210	4.4	79	7.2	5.6	.92	2.7	3.6	1.6
18	1.5	5.4	1.5	84	3.6	27	5.1	4.3	.92	1.7	14	11
19	1.3	4.4	1.1	1,020	4.6	22	4.3	3.2	.85	1.3	4.6	16
20	1.3	4.0	54	152	10	21	3.4	2.5	.92	1.2	3.9	3.6
21	1.4	4.2	451	70	13	16	3.0	1.8	1.6	.99	1.9	3.0
22	1.6	8.1	79	52	71	21	3.0	5.6	2.0	.85	1.6	5.3
23	1.9	8.4	29	112	93	55	3.9	85	2.8	1.6	1.4	4.3
24	2.6	7.1	18	140	29	38	4.3	43	2.2	1.6	1.9	1.9
25	3.0	120	20	39	18	29	3.9	10	2.5	1.3	1.3	1.4
26	4.0	211	134	22	13	35	3.2	4.8	16	1.2	1.1	1.2
27	4.9	47	294	27	9.1	101	2.7	2.7	18	1.1	1.1	.92
28	9.1	95	79	27	16	45	2.3	1.7	3.0	.85	7.6	.99
29	53	121	36	24	-----	31	2.3	81	1.3	.92	191	1.1
30	119	43	31	22	-----	204	5.1	164	4.6	.85	249	1.1
31	111	-----	20	15	-----	123	-----	17	-----	.79	29	-----
TOTAL	378.9	915.9	1,424.6	2,170.3	387.7	2,967	913.6	2,162.8	82.64	776.75	610.28	260.71
MEAN	12.2	30.5	46.0	70.0	13.8	95.7	30.5	69.8	2.75	25.1	19.7	8.69
MAX	119	211	451	1,020	93	750	378	982	18	658	249	87
MIN	1.3	1.8	1.1	2.8	2.7	11	2.3	1.7	.73	.79	.79	.92
CFSM	.56	1.39	2.10	3.20	.63	4.37	1.39	3.19	.13	1.15	.90	.40
IN.	.64	1.56	2.42	3.69	.66	5.04	1.55	3.67	.14	1.32	1.04	.44

CAL YR 1973 TOTAL 10,944.44 MEAN 30.0 MAX 819 MIN .59 CFSM 1.37 IN 18.59
WTR YR 1974 TOTAL 13,051.18 MEAN 35.8 MAX 1,020 MIN .73 CFSM 1.63 IN 22.17

PEAK DISCHARGE (BASE, 500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0600	4.74	658	03-09	2400	6.00	1,390	05-12	1630	6.26	1,590
01-19	1030	6.16	1,510	04-02	1400	4.39	522	07-01	1100	5.67	1,170

03092090 West Branch Mahoning River near Ravenna, Ohio

LOCATION.--Lat 41°09'41", long 81°11'50", in T.3 N., R.8 W., Portage County, on left bank at downstream side of bridge on Newton Falls Road, 2.5 mi (4.0 km) east of Ravenna.

DRAINAGE AREA.--21.8 mi² (56.5 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,011.8 ft (308.40 m) above mean sea level, Portage County bench mark.

AVERAGE DISCHARGE.--9 years, 26.0 ft³/s (0.736 m³/s), 16.20 in/yr (411.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,220 ft³/s (34.6 m³/s) Jan. 19, gage height, 7.47 ft (2.277 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Aug. 26.

Period of record: Maximum discharge, 2,090 ft³/s (59.2 m³/s) Apr. 15, 1972, gage height, 8.81 ft (2.685 m); minimum, 0.45 ft³/s (0.013 m³/s) Sept. 11, 1972.

REMARKS.--Records poor Oct. 1 to Dec. 19 and Aug. 7 to Sept. 30. Records good Dec. 20 to Aug. 6. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	133	21	21	19	119	53	93	15	9.8	3.5	9.0
2	17	49	17	16	16	157	414	28	11	6.7	3.4	4.8
3	23	26	17	14	13	91	104	33	8.3	5.6	4.7	40
4	12	17	18	12	9.0	89	143	28	7.1	4.7	8.8	20
5	21	15	27	11	8.0	76	50	19	6.2	3.9	4.6	10
6	16	14	23	10	7.1	36	38	29	5.2	3.6	3.6	7.0
7	9.3	14	20	9.0	11	32	33	49	4.9	3.4	4.0	6.0
8	7.1	14	17	8.0	15	37	29	29	4.5	3.3	5.0	5.0
9	5.9	12	14	7.5	10	198	30	169	4.3	3.3	8.0	4.6
10	5.2	11	10	8.0	7.4	249	33	80	4.1	5.5	6.0	4.4
11	4.7	11	8.7	9.0	8.7	57	34	56	3.9	3.9	4.4	4.2
12	4.3	10	7.7	8.5	8.7	30	26	769	4.9	3.5	3.8	4.0
13	4.9	9.7	12	9.0	18	20	23	166	3.9	3.1	4.6	6.0
14	9.4	10	37	12	36	15	52	49	3.7	5.2	6.0	5.0
15	6.3	11	21	17	24	16	74	29	4.7	90	4.6	4.4
16	4.5	15	13	47	14	181	36	21	9.7	14	3.6	4.0
17	4.1	23	9.4	104	10	55	24	17	7.7	7.6	34	6.0
18	3.5	21	6.9	110	8.5	26	20	16	5.4	5.5	14	50
19	2.9	17	7.7	722	11	30	17	12	5.2	4.1	7.0	15
20	3.1	16	101	118	30	23	16	10	5.4	3.6	5.0	8.0
21	3.5	15	148	77	20	20	15	9.3	5.2	3.2	4.0	11
22	4.3	15	45	43	95	23	16	9.7	7.1	3.1	3.4	14
23	4.9	15	26	130	52	33	21	41	11	3.9	4.4	9.0
24	5.7	16	21	85	25	27	18	24	7.2	4.0	3.2	8.0
25	6.6	162	44	32	19	22	15	15	5.6	3.6	2.8	7.0
26	6.3	110	191	22	18	27	13	11	10	3.4	2.0	6.0
27	7.1	33	183	57	17	46	12	9.3	9.4	3.3	10	5.5
28	13	110	84	39	29	33	12	8.0	6.3	3.0	30	5.0
29	39	121	44	66	-----	27	14	115	5.4	3.0	180	6.0
30	122	35	35	33	-----	112	56	50	6.4	3.5	50	7.0
31	124	-----	24	25	-----	108	-----	18	-----	3.5	5.0	-----
TOTAL	509.9	1,080.7	1,253.4	1,882.0	559.4	2,015	1,441	2,012.3	198.7	227.8	433.4	295.9
MEAN	16.4	36.0	40.4	60.7	20.0	65.0	48.0	64.9	6.62	7.35	14.0	9.86
MAX	124	162	191	722	95	249	414	769	15	90	180	50
MIN	2.9	9.7	6.9	7.5	7.1	15	12	8.0	3.7	3.0	2.0	4.0
CFSM	.75	1.65	1.85	2.78	.92	2.98	2.20	2.98	.30	.34	.64	.45
IN.	.87	1.84	2.14	3.21	.95	3.44	2.46	3.43	.34	.39	.74	.50

CAL YR 1973 TOTAL 11,345.4 MEAN 31.1 MAX 412 MIN 1.8 CFSM 1.43 IN 19.36
WTR YR 1974 TOTAL 11,909.5 MEAN 32.6 MAX 769 MIN 2.0 CFSM 1.50 IN 20.32

PEAK DISCHARGE (BASE, 450 FT³/S)

Note: No gage height record
Aug. 6 to Sept. 30.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-19	0700	7.47	1,220	05-12	1230	6.94	1,020
04-02	1000	6.18	684				

BEAVER RIVER BASIN

03092460 West Branch Mahoning River below Michael J. Kirwan Dam, at Wayland, Ohio

LOCATION.--Lat 41°09'25", long 81°04'19", in T.3 N., R.6 W., Portage County, on right bank 200 ft (61 m) upstream from bridge on Wayland Road, 0.4 mi (0.6 km) downstream from Michael J. Kirwan Dam, and 0.2 mi (0.3 km) south of Wayland.

DRAINAGE AREA.--81.7 mi² (212 km²).

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1969 published as West Branch Mahoning River below West Branch Dam, at Wayland.

GAGE.--Water-stage recorder. Datum of gage is 926.44 ft (282.379 m) above mean sea level, levels by Corps of Engineers. Prior to October 1971 at datum 0.89 ft (0.271 m) higher.

AVERAGE DISCHARGE.--6 years, 98.1 ft³/s (2.778 m³/s).

EXTREMES.--Current year: Maximum discharge, 935 ft³/s (26.5 m³/s) May 19, gage height, 9.97 ft (3.039 m); minimum, 17 ft³/s (0.48 m³/s) Feb. 19.
Period of record: Maximum discharge, 1,380 ft³/s (39.1 m³/s) Feb. 25, 1971, gage height, 11.82 ft (3.603 m) present datum; minimum, 1.3 ft³/s (0.037 m³/s) Apr. 9, 1969.

REMARKS.--Records good. Flow completely regulated by Michael J. Kirwan Reservoir (see station 03092450). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Eight discharge measurements furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	62	57	53	509	21	191	31	76	133	62	57
2	105	59	56	53	275	20	242	29	75	131	54	55
3	143	60	56	53	201	18	219	29	75	103	55	58
4	143	59	56	53	120	46	221	29	75	57	58	55
5	147	59	56	52	43	74	212	29	75	33	55	54
6	145	60	56	52	42	71	327	29	75	26	54	54
7	144	60	55	52	45	71	635	29	75	26	54	53
8	143	59	55	52	40	75	911	29	75	101	55	53
9	144	59	55	52	37	100	772	33	75	203	54	105
10	144	60	55	52	36	82	385	31	76	204	54	200
11	144	60	55	52	34	74	164	31	66	204	54	201
12	144	60	54	52	29	72	106	102	57	158	55	203
13	145	60	55	52	27	72	88	33	57	112	54	206
14	146	59	56	52	19	72	73	192	66	66	54	159
15	145	60	54	54	18	72	73	500	76	81	54	106
16	146	61	54	90	18	81	71	656	76	51	54	107
17	139	59	53	137	18	73	69	931	76	51	54	106
18	93	59	53	156	18	72	59	931	84	50	53	112
19	93	59	53	134	18	73	47	935	94	51	53	108
20	93	58	65	19	18	72	47	760	94	51	53	108
21	93	60	58	197	18	72	47	292	95	51	53	109
22	93	59	55	562	21	73	48	38	95	51	53	108
23	93	59	53	723	18	73	43	107	96	52	53	108
24	94	59	53	704	18	114	35	204	95	51	53	108
25	94	67	55	699	18	170	35	202	103	81	53	108
26	95	60	59	693	18	172	35	168	115	110	53	108
27	96	59	58	696	18	169	35	103	115	110	54	108
28	100	61	54	693	18	167	35	75	115	110	56	109
29	105	60	54	691	-----	170	35	84	115	92	62	111
30	85	58	53	686	-----	179	35	78	124	75	56	110
31	58	-----	53	683	-----	171	-----	76	-----	75	54	-----
TOTAL	3,630	1,794	1,714	8,349	1,712	2,841	5,295	6,796	2,566	2,750	1,693	3,247
MEAN	117	59.8	55.3	269	61.1	91.6	177	219	85.5	88.7	54.6	108
MAX	147	67	65	723	509	179	911	935	124	204	62	206
MIN	58	58	53	19	18	18	35	29	57	26	53	53
CAL YR 1973	TOTAL 37,511	MEAN 103	MAX 522	MIN 23								
WTR YR 1974	TOTAL 42,387	MEAN 116	MAX 935	MIN 18								

03092500 West Branch Mahoning River near Newton Falls, Ohio

LOCATION.--Lat 41°10'18", long 81°01'16", in T.3 N., R.6 W., Portage County, on right bank 250 ft (76 m) downstream from bridge on Newton Falls Road, 2.5 mi (4.0 km) southwest of Newton Falls, 6 mi (10 km) upstream from mouth, and 5 mi (8 km) downstream from Michael J. Kirwan Dam.

DRAINAGE AREA.--96.3 mi² (249 km²).

PERIOD OF RECORD.--June 1926 to current year.

GAGE.--Water-stage recorder. Datum of gage is 912.2 ft (278.04 m) above mean sea level, Corps of Engineers bench mark. Prior to Aug. 30, 1929, nonrecording gage at site 75 ft (23 m) upstream at same datum.

AVERAGE DISCHARGE.--48 years, 96.0 ft³/s (2.719 m³/s).

EXTREMES.--Current year: Maximum discharge, 985 ft³/s (27.9 m³/s) Jan. 19, gage height, 6.62 ft (2.018 m); minimum, 10 ft³/s (0.28 m³/s) Feb. 18.
Period of record: Maximum discharge, 8,340 ft³/s (236 m³/s) Jan. 22, 1959, gage height, 13.60 ft (4.145 m); minimum, 2.1 ft³/s (0.059 m³/s) Sept. 20, 1964.

REMARKS.--Records good. Flow regulated by Michael J. Kirwan Reservoir (see station 03092450) since December 1966. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 973: 1926-30, 1933, 1934(M), 1936-38, 1939(M), 1940. WSP 1385: 1929(M), 1945. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	119	69	68	522	96	205	82	83	154	70	72
2	98	92	66	65	278	89	380	46	79	131	55	75
3	144	76	64	61	197	74	235	43	77	114	56	86
4	144	71	64	61	152	98	259	43	76	67	71	86
5	148	69	69	60	51	150	212	38	76	33	59	63
6	148	68	71	58	50	111	269	40	76	22	55	59
7	144	68	66	58	54	100	504	43	76	21	55	58
8	142	68	64	60	51	107	848	40	75	49	58	57
9	144	68	64	57	43	254	821	80	74	177	58	77
10	144	69	66	57	55	303	407	68	74	178	56	178
11	144	69	64	57	42	118	195	47	71	178	55	179
12	144	70	63	57	36	98	125	601	57	160	57	180
13	144	72	66	60	36	89	111	163	54	109	57	181
14	152	72	84	57	26	84	86	127	59	110	54	165
15	148	72	74	60	24	84	110	433	75	109	54	113
16	146	79	68	111	24	178	88	503	77	52	54	112
17	137	75	63	202	24	116	81	853	76	49	61	111
18	102	72	61	187	23	93	73	876	78	48	57	133
19	102	72	61	592	24	95	55	873	92	48	54	119
20	102	72	118	102	29	91	53	804	92	48	55	118
21	102	74	198	152	26	89	52	340	94	48	54	129
22	102	81	91	522	66	93	54	47	96	48	54	127
23	102	76	74	717	60	107	52	109	98	51	54	117
24	107	76	69	709	37	118	40	202	94	49	54	113
25	102	138	72	660	30	176	39	192	96	62	54	113
26	102	134	127	647	26	182	39	174	121	107	54	113
27	103	90	156	653	26	200	38	119	119	107	55	113
28	108	105	95	647	34	182	38	78	112	107	62	113
29	135	115	79	653	-----	178	39	130	110	99	104	112
30	163	82	76	642	-----	252	47	115	114	74	94	112
31	116	-----	69	634	-----	212	-----	87	-----	74	64	-----
TOTAL	3,903	2,464	2,491	8,726	2,046	4,217	5,555	7,396	2,551	2,683	1,854	3,384
MEAN	126	82.1	80.4	281	73.1	136	185	239	85.0	86.5	59.8	113
MAX	163	138	198	717	522	303	848	876	121	178	104	181
MIN	84	68	61	57	23	74	38	38	54	21	54	57

CAL YR 1973 TOTAL 43,297 MEAN 119 MAX 556 MIN 33
WTR YR 1974 TOTAL 47,270 MEAN 130 MAX 876 MIN 21

BEAVER RIVER BASIN

03093000 Eagle Creek at Phalanx Station, Ohio

LOCATION.--Lat 41°15'40", long 80°57'16", Trumbull County, on right bank 75 ft (23 m) downstream from county road bridge, 1 mi (2 km) north of Phalanx Station, 2 mi (3 km) downstream from Tinkers Creek, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--97.6 mi² (253 km²).

PERIOD OF RECORD.--June 1926 to September 1934, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 887.42 ft (270.485 m) above mean sea level, adjustment of 1912, levels by Mahoning Valley Sanitary District. Prior to Sept. 14, 1929, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 105 ft³/s (2.974 m³/s), 14.61 in/yr (371.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,160 ft³/s (89.5 m³/s) May 13, gage height, 12.18 ft (3.712 m); minimum, 14 ft³/s (0.40 m³/s) Aug. 26, 27.

Period of record: Maximum discharge, 6,700 ft³/s (190 m³/s) Jan. 22, 1959, gage height, 13.12 ft (3.999 m); minimum, 0.6 ft³/s (0.017 m³/s) Aug. 4, 1939; minimum daily, 0.9 ft³/s (0.025 m³/s) Aug. 4, 1939.

REMARKS.--Records good. Low flow slightly regulated by mill several miles upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 953: 1938-41. WSP 1385: 1927-30, 1931-32(M), 1934, 1938-41(P). WSP 1555: 1928(M), 1929. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	336	181	126	150	312	330	280	79	97	18	107
2	61	353	126	110	121	468	739	221	63	79	16	105
3	145	212	100	90	103	544	1,080	142	53	54	16	102
4	118	139	86	80	84	361	455	155	50	44	32	200
5	129	94	94	70	65	358	401	115	46	36	35	106
6	192	69	102	60	60	288	250	106	41	37	22	52
7	87	50	77	55	64	216	208	145	37	27	18	38
8	50	45	64	50	87	253	177	129	35	23	46	32
9	36	43	60	45	75	392	171	227	36	23	68	28
10	31	47	62	47	65	944	180	453	35	21	38	25
11	28	52	57	52	54	592	211	251	32	23	29	24
12	26	55	48	52	52	277	189	1,450	32	20	21	22
13	25	61	52	50	62	192	154	2,130	33	19	27	24
14	51	82	147	53	153	145	151	466	31	19	34	41
15	57	64	170	58	130	123	384	230	31	104	26	33
16	34	89	111	122	100	307	337	159	53	93	19	23
17	28	116	76	237	74	526	197	124	69	36	54	21
18	25	95	55	286	60	257	143	103	46	25	99	69
19	26	76	43	1,450	62	190	117	84	38	21	36	98
20	25	66	121	1,320	123	189	97	67	44	20	30	44
21	25	60	507	466	126	157	82	58	44	18	25	76
22	23	122	475	346	202	150	76	57	43	17	20	117
23	21	106	233	316	374	185	114	126	55	20	17	76
24	21	79	138	501	241	197	107	152	52	26	16	46
25	21	167	129	276	155	170	84	104	37	21	15	33
26	21	421	319	186	130	159	70	73	55	19	14	28
27	28	312	513	207	120	239	64	61	95	18	17	25
28	30	217	427	249	142	233	63	53	53	17	124	34
29	173	330	250	242	-----	189	63	91	38	16	209	61
30	268	311	191	265	-----	325	107	237	41	24	336	56
31	312	-----	152	194	-----	513	-----	130	-----	22	152	-----
TOTAL	2,188	4,269	5,166	7,661	3,234	9,451	6,801	8,179	1,397	1,039	1,629	1,746
MEAN	70.6	142	167	247	116	305	227	264	46.6	33.5	52.5	58.2
MAX	312	421	513	1,450	374	944	1,080	2,130	95	104	336	200
MIN	21	43	43	45	52	123	63	53	31	16	14	21
CFSM	.72	1.45	1.71	2.53	1.19	3.13	2.33	2.70	.48	.34	.54	.60
IN.	.83	1.63	1.97	2.92	1.23	3.60	2.59	3.12	.53	.40	.62	.67

CAL YR 1973 TOTAL 48,004 MEAN 132 MAX 1,560 MIN 13 CFSM 1.35 IN 18.30
WTR YR 1974 TOTAL 52,760 MEAN 145 MAX 2,130 MIN 14 CFSM 1.49 IN 20.11

PEAK DISCHARGE (BASE, 1,300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-19	2030	12.01	2,850	05-13	0030	12.18	3,160
04-03	0030	11.24	1,940				

03094000 Mahoning River at Leavittsburg, Ohio

LOCATION.--Lat 41°14'21", long 80°52'51", in T.4 N., R.4 W., Trumbull County, on right bank at upstream side of Leavitt Road Bridge at Leavittsburg, 300 ft (91 m) downstream from Duck Creek and 1.2 mi (1.9 km) downstream from Eagle Creek.

DRAINAGE AREA.--575 mi² (1,489 km²).

PERIOD OF RECORD.--October 1940 to current year. Prior to June 1941 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 871.25 ft (265.557 m) above mean sea level, adjustment of 1912. Prior to July 2, 1941, nonrecording gage, and July 2, 1941, to July 22, 1952, water-stage recorder, at site 50 ft (15 m) downstream at same datum.

AVERAGE DISCHARGE.--34 years, 545 ft³/s (15.43 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,530 ft³/s (185 m³/s) May 13, gage height, 13.14 ft (4.005 m); minimum, 163 ft³/s (4.62 m³/s) Nov. 8, 9, 10.
Period of record: Maximum discharge, 20,300 ft³/s (575 m³/s) Jan. 22, 1959, gage height, 19.37 ft (5.904 m); minimum, 55 ft³/s (1.56 m³/s) July 7, 1952.
Flood of Mar. 26, 1913 reached a stage of about 24 ft (7 m). Flood of Jan. 25 or 26, 1937, reached a stage of 17.8 ft (5.43 m).

REMARKS.--Records good. Flow regulated by Berlin Lake, 25 mi (40 km) upstream, beginning in 1942, by Milton Reservoir, 17 mi (27 km) upstream, and by Michael J. Kirwan Reservoir, 20 mi (32 km) upstream on West Branch, beginning in 1966 (see stations 03090000, 03091000 and 03092450). Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--One discharge measurement furnished by Corps of Engineers.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	383	698	422	900	1,750	802	1,660	750	321	885	448	939
2	321	661	321	1,000	1,480	1,180	2,190	606	288	1,480	427	939
3	360	462	279	1,000	1,310	1,240	2,650	391	395	1,270	440	1,110
4	398	307	262	1,100	1,240	1,040	1,620	382	407	1,180	542	1,240
5	371	250	272	1,100	700	1,130	1,650	332	399	1,080	522	1,070
6	410	220	290	1,100	379	1,270	1,620	307	391	440	514	1,170
7	339	190	265	1,130	317	1,050	1,700	325	386	339	505	1,160
8	283	166	256	850	300	1,050	1,930	321	382	328	606	1,150
9	265	166	517	739	290	1,520	2,050	468	382	325	667	1,140
10	259	163	562	704	275	3,760	1,880	750	374	342	684	1,210
11	253	169	553	701	280	2,860	1,650	593	363	346	649	1,250
12	256	172	356	693	274	1,720	1,460	3,030	311	339	636	1,240
13	253	175	293	666	289	1,430	1,360	5,360	297	285	619	1,220
14	265	193	368	687	375	1,320	1,320	1,600	297	276	481	922
15	286	190	410	694	367	1,290	1,530	1,240	282	399	460	658
16	262	208	307	845	310	1,830	1,600	1,210	304	464	448	415
17	250	232	232	1,320	296	2,210	1,150	1,380	318	264	477	342
18	211	226	193	1,240	266	1,650	464	1,470	288	207	538	395
19	193	205	184	3,320	278	1,440	332	1,460	273	246	497	440
20	193	193	611	3,780	331	1,410	294	1,420	276	246	514	374
21	190	196	1,730	1,360	359	1,360	282	835	270	243	619	415
22	187	229	1,560	1,550	549	1,350	270	684	264	240	614	460
23	184	250	974	1,980	877	1,460	285	770	282	270	606	407
24	181	226	752	2,440	676	1,480	288	994	273	261	610	360
25	181	383	709	2,120	454	1,480	261	880	258	249	601	339
26	181	899	1,060	1,920	362	1,470	246	810	318	240	597	325
27	181	721	1,680	1,890	348	1,690	237	737	407	240	645	321
28	229	503	1,520	1,940	395	1,640	234	628	332	240	800	328
29	368	661	1,030	1,960	-----	1,510	234	367	291	246	1,240	346
30	611	643	846	1,960	-----	1,960	318	702	297	273	1,610	411
31	693	-----	762	1,850	-----	2,340	-----	473	-----	279	1,130	-----
TOTAL	8,997	9,957	19,576	44,539	15,127	48,942	32,765	31,275	9,726	13,522	19,746	22,096
MEAN	290	332	631	1,437	540	1,579	1,092	1,009	324	436	637	737
MAX	693	899	1,730	3,780	1,750	3,760	2,650	5,360	407	1,480	1,610	1,250
MIN	181	163	184	666	266	802	234	307	258	207	427	321
CAL YR 1973	TOTAL 240,449	MEAN 659	MAX 3,340	MIN 163								
WTR YR 1974	TOTAL 276,268	MEAN 757	MAX 5,360	MIN 163								

BEAVER RIVER BASIN

03095500 Mosquito Creek below Mosquito Creek Dam, near Cortland, Ohio

LOCATION.--Lat 41°17'59", long 80°45'31", in T.5 N., R.3 W., Trumbull County, on right bank 100 ft (30 m) downstream from Mosquito Creek Dam, 0.8 mi (1.3 km) upstream from Confusion Run, and 2.5 mi (4.0 km) southwest of Cortland.

DRAINAGE AREA.--97.5 mi² (253 km²).

PERIOD OF RECORD.--May 1926 to September 1929 (published as "near Cortland"), May 1943 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 873.98 ft (266.389 m) above mean sea level (Corps of Engineers bench mark). Prior to Aug. 23, 1943, nonrecording gage, and Aug. 23, 1943, to Feb. 14, 1951, water-stage recorder, at site 900 ft (274 m) downstream at datum 6.63 ft (2.021 m) lower.

AVERAGE DISCHARGE.--34 years, 86.0 ft³/s (2.436 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 686 ft³/s (19.4 m³/s) May 16, 17, 18, gage height, 3.69 ft (1.125 m); minimum, 3.0 ft³/s (0.085 m³/s) Nov. 15, gage height, 1.06 ft (0.323 m).

Period of record: Maximum discharge, 1,890 ft³/s (53.5 m³/s) Jan. 19, 1929, gage height, 11.5 ft (3.51 m), from floodmark, site and datum then in use; no flow at times.

REMARKS.--Records good. Flow completely regulated by Mosquito Creek Lake beginning 1943 (see station 03095000). Diversion at lake outlet for municipal supply of city of Warren since May 1954; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--One discharge measurements furnished by Corps of Engineers.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	29	17	79	165	21	290	22	26	10	46	43
2	28	29	17	79	165	21	406	22	25	10	46	43
3	28	29	17	79	165	20	410	22	23	10	46	43
4	27	29	17	79	165	49	410	22	23	10	46	43
5	28	29	17	79	165	80	410	23	23	10	46	62
6	28	29	17	79	165	80	410	23	22	10	46	82
7	28	29	17	79	165	80	410	24	22	10	46	82
8	28	31	17	79	165	82	406	23	22	15	46	82
9	28	29	17	79	165	82	410	24	22	20	46	125
10	28	29	17	79	165	84	406	23	22	20	46	168
11	28	29	17	79	87	125	406	22	18	20	46	168
12	28	29	17	79	16	173	290	23	12	55	46	168
13	29	29	17	79	16	173	125	23	12	95	46	168
14	29	29	17	79	16	170	82	182	12	95	46	125
15	29	22	17	79	16	170	84	406	12	55	46	82
16	29	17	17	77	16	170	84	546	12	20	46	62
17	29	17	20	79	16	173	84	678	12	44	46	43
18	29	17	19	79	16	173	84	670	11	95	46	44
19	29	17	16	37	16	173	84	662	11	95	46	44
20	29	17	15	5.3	16	173	84	662	11	108	46	44
21	29	17	15	91	16	173	84	538	11	120	46	44
22	29	17	15	165	16	170	84	394	10	120	46	43
23	29	17	15	165	19	170	51	398	10	120	46	43
24	29	17	15	165	21	173	23	286	11	120	44	43
25	29	17	16	165	20	173	23	173	11	120	43	43
26	29	17	16	165	21	173	23	128	11	120	44	43
27	29	17	16	165	21	173	22	52	11	120	44	43
28	29	17	16	165	21	173	23	24	11	120	44	43
29	29	17	16	165	-----	173	22	25	10	120	44	43
30	29	17	44	165	-----	173	23	25	10	120	44	43
31	29	-----	79	165	-----	173	-----	25	-----	82	44	-----
TOTAL	886	685	605	3,203.3	2,036	4,169	5,753	6,170	459	2,089	1,409	2,152
MEAN	28.6	22.8	19.5	103	72.7	134	192	199	15.3	67.4	45.5	71.7
MAX	29	31	79	165	165	173	410	678	26	120	46	168
MIN	27	17	15	5.3	16	20	22	22	10	10	43	43
(+)	23.4	23.0	21.9	23.0	22.4	21.7	21.8	22.4	23.8	23.7	22.9	23.2

CAL YR 1973 TOTAL 32,870.7 MEAN 90.1 MAX 646 MIN 4.3 (+) 23.0
 WTR YR 1974 TOTAL 29,616.3 MEAN 81.1 MAX 678 MIN 5.3 (+) 22.8

+ Diversion in cubic feet per second; furnished by city of Warren.

03098000 Mahoning River at Youngstown, Ohio

LOCATION.--Lat 41°06'40", long 80°40'23", Mahoning County, on left bank 400 ft (122 m) upstream from Bridge Street bridge in Youngstown, and 0.8 mi (1.3 km) upstream from Mill Creek.

DRAINAGE AREA.--898 mi² (2,326 km²).

PERIOD OF RECORD.--October 1921 to current year. Records for May 1903 to July 1906, published in WSP 98, 128, 169, and 205, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 826.53 ft (251.926 m) above mean sea level, adjustment of 1912, levels by Mahoning Valley Sanitary District. Prior to Nov. 16, 1926, nonrecording gage at site 400 ft (122 m) downstream at same datum.

AVERAGE DISCHARGE.--53 years, 836 ft³/s (23.68 m³/s).

EXTREMES.--Current year: Maximum discharge, 9,070 ft³/s (257 m³/s) May 13; maximum gage height, 12.79 ft (3.898 m) May 13 (backwater from Mill Creek); minimum discharge, 246 ft³/s (6.97 m³/s) Oct. 21.

Period of record: Maximum discharge, 17,600 ft³/s (498 m³/s) Jan. 25, 1937, gage height, 14.92 ft (4.548 m), from rating curve extended above 9,500 ft³/s (269 m³/s) on basis of velocity-area studies; maximum gage height, 18.62 ft (5.675 m) Jan. 22, 1959 (backwater from Mill Creek); minimum discharge, 28 ft³/s (0.79 m³/s) Aug. 14, 1930; minimum daily, 30 ft³/s (0.85 m³/s) Aug. 16, 1930.

Flood of Mar. 26, 1913 reached a stage of 26.5 ft (8.08 m), discharge, 42,500 ft³/s (1,200 m³/s), estimated by Corps of Engineers.

REMARKS.--Records good. Water diverted upstream from station for municipal supply for city of Youngstown. Some sewage returned to river upstream from station. Water also diverted upstream and downstream from station by a private company for industrial use, some of which is returned to river upstream from station. Flow regulated by Berlin Lake, 48 mi (77 km) upstream, beginning in 1942, by Milton Reservoir, 40 mi (64 km) upstream, by Michael J. Kirwan Reservoir, 43 mi (69 km) upstream, on West Branch, beginning in 1966, by Mosquito Creek Lake, 22 mi (35 km) upstream, beginning in 1943, by Meander Creek Reservoir, 11 mi (18 km) upstream, beginning in 1929, (see p. 28), and by reservoir on Squaw Creek, 5 mi (8 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 623: 1924(M). WSP 1907: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	594	1,260	699	1,220	2,380	1,310	2,930	1,190	496	826	454	1,430
2	456	1,070	490	1,340	2,140	2,110	3,460	1,070	406	1,620	520	1,350
3	432	825	418	1,350	1,870	2,230	4,510	699	460	1,550	520	1,970
4	518	545	384	1,450	1,730	1,990	3,630	585	520	1,360	1,040	1,890
5	566	420	389	1,450	1,560	2,110	3,030	520	508	1,280	804	1,530
6	525	360	400	1,490	923	2,090	2,790	496	490	762	637	1,420
7	486	318	378	1,450	699	1,760	2,710	472	478	395	605	1,490
8	420	288	340	1,160	624	1,690	2,780	466	472	373	951	1,470
9	372	270	502	1,000	585	2,600	2,970	598	460	362	1,090	1,410
10	348	270	685	916	514	5,920	2,970	1,010	460	389	895	1,510
11	342	258	685	909	520	5,730	2,800	958	454	389	797	1,650
12	342	270	566	895	424	3,200	2,570	5,700	418	389	811	1,640
13	378	276	472	839	384	2,320	2,300	8,720	356	412	790	1,650
14	396	270	699	881	472	2,020	2,100	4,840	345	406	664	1,530
15	378	306	713	972	490	1,930	2,280	2,050	345	714	559	1,010
16	366	306	533	1,330	418	2,750	2,300	2,060	367	592	540	699
17	336	300	384	2,000	378	3,290	1,860	2,130	367	424	657	514
18	318	312	296	2,200	345	3,160	979	2,410	356	307	624	611
19	276	306	275	5,720	356	3,040	650	2,400	334	351	618	637
20	258	288	965	6,030	400	2,250	566	2,360	334	367	598	572
21	252	294	2,660	3,080	454	2,120	527	1,970	502	373	657	618
22	258	300	2,470	2,110	860	1,940	520	1,540	418	389	727	713
23	258	330	1,530	2,810	1,420	2,100	514	1,650	384	514	720	631
24	258	354	1,010	3,330	1,130	2,180	478	1,800	345	454	727	520
25	252	713	944	3,070	776	2,110	418	1,600	318	418	706	472
26	252	1,230	1,560	2,590	572	2,450	378	1,310	478	400	706	442
27	252	1,250	2,480	2,650	508	2,590	356	1,090	508	395	916	424
28	396	930	2,350	2,620	585	2,430	334	881	448	389	1,460	484
29	860	930	1,600	2,680	-----	2,310	340	783	373	424	2,200	508
30	1,090	958	1,170	2,650	-----	2,940	514	874	559	472	2,340	527
31	1,230	-----	1,050	2,540	-----	3,470	-----	811	-----	454	1,810	-----
TOTAL	13,465	15,807	29,097	64,732	23,517	80,140	54,564	55,043	12,759	17,950	27,143	31,322
MEAN	434	527	939	2,088	840	2,585	1,819	1,776	425	579	876	1,044
MAX	1,230	1,260	2,660	6,030	2,380	5,920	4,510	8,720	559	1,620	2,340	1,970
MIN	252	258	275	839	345	1,310	334	466	318	307	454	424

CAL YR 1973 TOTAL 392,965 MEAN 1,077 MAX 5,850 MIN 252
WTR YR 1974 TOTAL 425,539 MEAN 1,166 MAX 8,720 MIN 252

BEAVER RIVER BASIN

03099500 Mahoning River at Lowellville, Ohio

LOCATION.--Lat 41°02'12", long 80°32'11", in T.1 N., R.1 W., Mahoning County, on left bank 100 ft (30 m) upstream from First Street Bridge at Lowellville, 1 mi (2 km) upstream from Ohio-Pennsylvania State line, and 3 mi (5 km) downstream from Yellow Creek.

DRAINAGE AREA.--1,073 mi² (2,779 km²).

PERIOD OF RECORD.--October 1942 to current year. Prior to August 1943 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 796.84 ft (242.877 m) above mean sea level, adjustment of 1912. Prior to Oct. 26, 1944, nonrecording gage at site 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--32 years, 1,037 ft³/s (29.37 m³/s).

EXTREMES.--Current year: Maximum discharge, 11,700 ft³/s (331 m³/s) May 12, gage height, 10.25 ft (3.124 m); minimum, 305 ft³/s (8.64 m³/s) Oct. 26, 27.

Period of record: Maximum discharge, 21,000 ft³/s (595 m³/s) Jan. 21, 1959, gage height, 14.43 ft (4.398 m); minimum, 125 ft³/s (3.54 m³/s) June 29, 1952.

Flood in March 1913 reached a stage of 17.8 ft (5.43 m).

REMARKS.--Records good. Flow regulated by 5 flood control reservoirs at points 21 mi (34 km) to 58 mi (93 km) upstream (see p. 28 and REMARKS for station 03098000), and by reservoirs on Squaw Creek, 15 mi (24 km) upstream, on Dry Run, 9 mi (14 km) upstream, and on Yellow Creek, 5 mi (8 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1555: 1946(M), 1952(M), 1955(M), 1956. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	784	1,590	1,030	1,400	2,360	1,700	3,100	1,520	745	2,190	573	1,500
2	608	1,300	737	1,500	2,170	2,360	4,000	1,340	573	1,940	629	1,420
3	559	1,020	657	1,490	1,930	2,410	4,800	997	594	1,650	629	1,940
4	681	736	587	1,520	1,780	2,210	4,490	824	657	1,420	1,130	1,940
5	760	601	608	1,540	1,630	2,420	3,340	745	636	1,340	935	1,620
6	692	531	594	1,570	1,170	2,280	2,920	737	615	926	768	1,420
7	601	499	559	1,520	988	1,940	2,750	678	608	559	721	1,480
8	531	468	524	1,300	857	1,930	2,770	650	601	545	970	1,440
9	468	468	622	1,170	800	4,240	3,000	745	580	524	1,200	1,390
10	450	450	816	1,110	706	7,530	3,020	1,090	573	545	997	1,440
11	474	450	824	1,100	706	5,810	2,930	1,100	552	517	883	1,550
12	438	456	753	1,050	643	3,210	2,660	8,090	538	524	961	1,550
13	476	462	729	997	587	2,500	2,410	9,920	456	531	918	1,610
14	531	462	1,150	1,030	737	2,300	2,260	5,540	438	538	792	1,510
15	517	444	1,060	1,230	729	2,500	2,460	2,200	480	900	685	1,100
16	450	462	808	1,680	650	3,500	2,380	2,090	499	737	671	840
17	420	462	608	2,370	587	3,700	2,030	2,070	450	594	901	657
18	402	462	480	2,470	545	3,500	1,270	2,300	462	450	753	768
19	360	462	474	8,000	552	3,400	883	2,280	444	438	776	784
20	325	456	1,520	6,510	629	2,600	768	2,250	408	462	745	854
21	315	438	3,120	3,620	636	2,400	721	1,960	635	462	753	857
22	320	462	2,670	2,450	1,280	2,200	721	1,620	594	480	840	918
23	320	462	1,780	3,070	1,740	2,400	714	1,820	559	706	816	824
24	335	505	1,250	3,470	1,460	2,500	678	1,830	438	594	832	706
25	340	1,100	1,140	3,150	1,050	2,500	587	1,630	402	545	800	643
26	310	1,510	1,990	2,660	824	2,800	552	1,370	622	517	808	608
27	310	1,600	3,350	2,730	760	3,000	517	1,190	615	480	1,170	573
28	529	1,370	2,810	2,690	866	2,800	486	997	559	511	2,060	685
29	1,280	1,340	2,000	2,690	-----	2,700	492	1,140	492	545	2,360	685
30	1,650	1,310	1,520	2,650	-----	3,600	825	1,100	1,050	594	2,300	664
31	1,590	-----	1,350	2,530	-----	4,100	-----	1,090	-----	559	1,810	-----
TOTAL	17,826	22,338	38,120	72,267	29,372	93,040	60,534	62,913	16,875	23,323	31,186	33,976
MEAN	575	745	1,230	2,331	1,049	3,001	2,018	2,029	563	752	1,006	1,133
MAX	1,650	1,600	3,350	8,000	2,360	7,530	4,800	9,920	1,050	2,190	2,360	1,940
MIN	310	438	474	997	545	1,700	486	650	402	438	573	573

CAL YR 1973 TOTAL 475,331 MEAN 1,302 MAX 7,850 MIN 310
WTR YR 1974 TOTAL 501,770 MEAN 1,375 MAX 9,920 MIN 310

03102950 Pymatuning Creek at Kinsman, Ohio

LOCATION.--Lat 41°26'34", long 80°35'18", in T.7 N., R.1 W., Trumbull County, on left bank at downstream side of bridge on State Highway 7 at Kinsman, 0.8 mi (1.3 km) downstream from Sugar Creek and 1.2 mi (1.9 km) upstream from Stratton Creek.

DRAINAGE AREA.--96.7 mi² (250 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 906.8 ft (276.39 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 113 ft³/s (3.200 m³/s), 15.87 in/yr (403.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,540 ft³/s (43.6 m³/s) May 13, gage height, 11.41 ft (3.478 m); minimum, 1.5 ft³/s (0.042 m³/s) July 29.
Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Mar. 3, 1972; maximum gage height, 11.61 ft (3.539 m) Dec. 29, 1968; minimum discharge, 0.10 ft³/s (0.003 m³/s) Aug. 8, 1972.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	176	198	220	159	213	457	129	34	102	4.6	195
2	19	202	177	150	123	349	577	139	35	86	3.2	169
3	25	177	142	112	93	500	761	110	32	87	3.0	162
4	19	160	107	83	70	448	767	102	27	109	20	213
5	23	142	85	60	55	450	558	85	22	120	26	168
6	29	111	73	54	43	415	393	78	17	113	12	131
7	22	78	60	42	40	372	289	78	15	85	7.2	107
8	22	50	51	35	38	340	220	71	16	51	12	80
9	19	32	44	29	36	743	178	109	19	29	64	56
10	15	25	43	27	34	1,260	156	185	17	17	41	40
11	11	22	40	28	31	933	187	182	15	12	30	32
12	8.8	22	35	28	28	615	203	800	13	9.6	22	26
13	7.5	26	39	29	32	393	202	1,490	11	6.7	26	20
14	9.0	29	119	30	62	239	186	1,070	9.4	6.2	155	25
15	9.2	32	155	33	70	153	281	668	9.1	10	124	24
16	8.4	38	144	54	68	181	312	414	16	7.6	63	21
17	8.2	47	110	144	60	266	293	240	28	4.2	67	17
18	8.8	50	95	199	53	254	220	141	32	3.4	94	103
19	9.6	51	73	831	45	233	147	90	29	2.8	63	110
20	9.6	47	80	964	50	191	98	64	30	2.1	55	56
21	8.4	44	306	781	61	145	71	47	32	1.7	59	112
22	7.8	48	348	596	121	121	58	37	33	1.9	70	153
23	7.6	47	318	487	250	122	60	37	31	2.5	74	120
24	7.1	44	299	477	293	138	62	36	28	2.7	49	83
25	7.1	73	246	359	314	143	61	34	24	2.2	33	56
26	6.6	158	367	275	272	145	55	31	24	2.2	32	40
27	5.9	163	603	221	192	189	47	26	26	2.1	35	29
28	7.3	174	614	188	146	208	39	22	23	2.0	91	34
29	40	213	510	206	-----	227	37	22	23	7.6	184	52
30	88	214	402	214	-----	418	41	27	37	22	303	55
31	123	-----	298	190	-----	517	-----	28	-----	7.6	248	-----
TOTAL	611.9	2,695	6,181	7,146	2,839	10,921	7,016	6,592	707.5	918.1	2,070.0	2,489
MEAN	19.7	89.8	199	231	101	352	234	213	23.6	29.6	66.8	83.0
MAX	123	214	614	964	314	1,260	767	1,490	37	120	303	213
MIN	5.9	22	35	27	28	121	37	22	9.1	1.7	3.0	17
CFSM	.20	.93	2.06	2.39	1.04	3.64	2.42	2.20	.24	.31	.69	.86
IN.	.24	1.04	2.38	2.75	1.09	4.20	2.70	2.54	.27	.35	.80	.96

CAL YR 1973 TOTAL 46,181.7 MEAN 127 MAX 836 MIN 2.0 CFSM 1.31 IN 17.77
WTR YR 1974 TOTAL 50,186.5 MEAN 137 MAX 1,490 MIN 1.7 CFSM 1.42 IN 19.31

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE TIME G. H. DISCHARGE DATE TIME G. H. DISCHARGE

BEAVER RIVER BASIN

Reservoirs in Beaver River basin

03090000 BERLIN LAKE.--Lat 41°02'46", long 81°00'10", in T.1 N., R.6 W., Portage County, at dam on Mahoning River, 3.2 mi (5.1 km) northwest of Berlin Center. Drainage area, 248 mi² (642 km²). Period of record, December 1942 to current year. Prior to October 1971 published as Berlin Reservoir. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 72,860 acre-ft (89.8 hm³) May 14, elevation, 1,028.32 ft (313.432 m); minimum, 27,890 acre-ft (34.4 hm³) Sept. 30, elevation, 1,012.78 ft (308.695 m). Extremes for period of record: Maximum contents, 91,150 acre-ft (112 hm³) July 9, 1943, elevation, 1,232.0 ft (375.51 m); minimum, 1,540 acre-ft (1.90 hm³) Jan. 10, 1944, elevation, 978.82 ft (298.344 m).

Lake is formed by earthfill dam with concrete spillway; storage began in December 1942. Usable capacity 91,150 acre-ft (112 hm³) between elevations 956.5 ft (291.54 m) (invert of lowest outlet) and 1,032 ft (315 m) (top of taintor gates on controlled section) of which 1,800 acre-ft (2.22 hm³) is in the conservation pool, elevation, 980.0 ft (298.70 m). No dead storage. Flow is normally controlled by sluiceways through dam but additional releases can be made through gates on controlled section of spillway. Lake is used for flood control and to augment flow of Mahoning River during periods of low flow. Water used for industrial purposes in vicinity of Warren and Youngstown. Gage-heights and capacity curve furnished by Corps of Engineers.

03091000 MILTON RESERVOIR.--Lat 41°07'38", long 80°58'40", in T.2 N., R.5 W., Mahoning County, at dam on Mahoning River, 0.8 mi (1.3 km) southwest of Pricetown. Drainage area, 273 mi² (707 km²). Period of record, December 1923 to current year. Month-end contents for some periods published in WSP 1305. Water-stage recorder. Datum of gage is at mean sea level (levels by city of Youngstown). Prior to Oct. 7, 1941, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 27,500 acre-ft (33.9 hm³) Dec. 17-19, elevation, 950.15 ft (289.606 m); minimum, 11,590 acre-ft (14.3 hm³) Jan. 17, elevation, 939.40 ft (286.329 m). Extremes for period of record: Maximum contents, 35,020 acre-ft (43.2 hm³) June 29, 1924, elevation, 953.8 ft (290.72 m), of which 5,870 acre-ft (7.24 hm³) was in uncontrolled storage; minimum, 1,220 acre-ft (1.50 hm³) Jan. 23, 1954, elevation, 924.27 ft (281.717 m), from graph based on gage readings.

Reservoir is formed by earthfill dam with concrete spillway; storage began in 1916. Usable capacity 29,150 acre-ft (35.9 hm³) between elevations 906.0 ft (276.15 m) (bottom of gates) and 951.0 ft (289.86 m) (top of gates). No dead storage. Flow is regulated by two 16-inch and four 36-inch gates on spillway. Reservoir is used to augment flow of Mahoning River during periods of low flow. Water used for industrial purposes in vicinity of Warren and Youngstown. Capacity table computed from base data furnished by city of Youngstown, Division of Water.

03092450 MICHAEL J. KIRWAN RESERVOIR.--Lat 41°09'24", long 81°04'47", in T.3 N., R.6 W., Portage County, at dam on West Branch Mahoning River, 0.5 mi (0.8 km) southwest of Wayland. Drainage area, 80.5 mi² (208 km²). Period of record, December 1966 to current year. Prior to October 1971 published as West Branch Reservoir. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 66,850 acre-ft (82.4 hm³) May 14, elevation, 989.16 ft (301.496 m); minimum, 42,330 acre-ft (52.2 hm³) Oct. 28, elevation, 979.65 ft (298.597 m). Extremes for period of record: Maximum contents, 66,940 acre-ft (82.5 hm³) Apr. 18, 1972, elevation, 989.19 ft (301.505 m); minimum, 5,370 acre-ft (6.62 hm³) Jan. 5, 1967, elevation, 953.50 ft (290.627 m).

Reservoir is formed by earthfill dam with concrete spillway; storage began in December 1966. Usable capacity 78,660 acre-ft (97.0 hm³) between elevations 936.8 ft (285.54 m) (lowest outlet) and 993.0 ft (302.67 m) (crest of spillway) of which 3,740 acre-ft (4.61 hm³) is in conservation pool. Dead storage below elevation 936.8 ft (285.54 m), 85 acre-ft (105,000 m³). Figures given herein represent usable contents. Flow is controlled by gates in concrete conduits in dam. Reservoir is used for flood control and to augment flow of Mahoning River during periods of low flow. Gage-heights and capacity curve furnished by Corps of Engineers.

03095000 MOSQUITO CREEK LAKE.--Lat 41°17'58", long 80°45'31", in T.5 N., R.3 W., Trumbull County, at dam on Mosquito Creek, 3.0 mi (4.8 km) southwest of Cortland. Drainage area, 97.5 mi² (253 km²). Period of record, October 1943 to current year. Prior to October 1971 published as Mosquito Creek Reservoir. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 93,120 acre-ft (115 hm³) May 14, elevation, 902.96 ft (275.222 m); minimum, 55,860 acre-ft (68.9 hm³) Oct. 27, 28, elevation, 897.97 ft (273.701 m). Extremes for period of record: Maximum contents 99,100 acre-ft (122 hm³) June 3, 1947, elevation, 903.65 ft (275.432 m); minimum, 8,600 acre-ft (10.6 hm³) Nov. 16, 1944, elevation, 886.97 ft (270.348 m).

Lake is formed by earthfill dam. A natural wasteway, elevation, 903.5 ft (275.39 m), discharges into the Grand River basin; storage began in October 1943. Usable capacity 102,200 acre-ft (126 hm³) between elevations 881.0 ft (268.53 m) (lowest outlet), and 904.00 ft (275.539 m), (lake-full level). Dead storage below 881.0 ft (268.53 m), 2,000 acre-ft (2.47 hm³). Figures given herein represent usable contents. Flow is controlled by gates in concrete conduits through dam. Lake is used for flood control and to augment flow of Mahoning River during periods of low flow. Water is used for industrial purposes in vicinity of Warren and Youngstown; and for municipal supply of city of Warren. Gage-heights and capacity curve furnished by Corps of Engineers.

03097000 MEANDER CREEK RESERVOIR.--Lat 41°09'12", long 80°46'45", in T.3 N., R.3 W., Trumbull County, on right side of spillway near center of dam on Meander Creek, 0.8 mi (1.3 km) northwest of Mineral Ridge. Drainage area, 83.9 mi² (217 km²). Period of record, November 1929 to current year. Month-end contents for some periods published in WSP 1305. Water-stage recorder. Datum of gage is at mean sea level (levels by Mahoning Valley Sanitary District). Extremes for current year: Maximum contents, 37,900 acre-ft (46.7 hm³) May 12, elevation, 907.59 ft (276.633 m); minimum, 20,640 acre-ft (25.4 hm³) Nov. 23, elevation, 898.15 ft (273.756 m). Extremes for period of record: Maximum contents, 41,800 acre-ft (51.5 hm³) Jan. 21, 1959, elevation, 909.25 ft (277.139 m); minimum, 9,370 acre-ft (11.6 hm³) Feb. 28, 1954, elevation, 888.78 ft (270.900 m).

Reservoir is formed by earthfill dam with concrete spillway; storage began in 1929. Usable capacity at spillway level, elevation, 905 ft (276 m), 32,410 acre-ft (40.0 hm³). No dead storage. Figures given herein represent usable contents. Water is used for municipal supply of cities of Niles and Youngstown. Gage-heights furnished by Mahoning Valley Sanitary District. Capacity table computed from base data furnished by Mahoning Valley Sanitary District.

EEAVER RIVER BASIN

29

Reservoirs in Beaver River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)
03090000 Berlin Lake				03091000 Milton Reservoir		
Sept. 30.....	1,016.19	34,540	-	942.07	14,740	-
Oct. 31.....	1,016.30	34,780	+240	942.01	14,660	-80
Nov. 30.....	1,019.10	41,330	+6,550	944.30	17,680	+3,020
Dec. 31.....	1,019.68	42,840	+1,510	948.09	23,680	+6,000
CAL YR 1973.....	-	-	+4,280	-	-	+11,150
Jan. 31.....	1,022.48	50,870	+8,030	941.32	13,830	-9,850
Feb. 28.....	1,022.22	50,060	-810	941.72	14,310	+480
Mar. 31.....	1,026.09	63,500	+13,440	940.70	13,090	-1,220
Apr. 30.....	1,024.80	58,660	-4,840	940.40	12,730	-360
May 31.....	1,027.22	68,090	+9,430	942.35	15,100	+2,370
June 30.....	1,026.20	63,940	-4,150	942.40	15,160	+60
July 31.....	1,025.44	61,030	-2,910	941.49	14,030	-1,130
Aug. 31.....	1,021.36	47,490	-13,540	942.82	15,700	+1,670
Sept. 30.....	1,012.78	27,890	-19,600	943.38	16,440	+740
WTR YR 1974.....	-	-	-6,650	-	-	+1,700
03092450 Michael J. Kirwan Reservoir				03095000 Mosquito Creek Lake		
Sept. 30.....	981.85	47,430	-	898.40	58,710	-
Oct. 31.....	980.27	43,730	-3,700	898.13	56,920	-1,790
Nov. 30.....	981.29	46,100	+2,370	898.34	58,310	+1,390
Dec. 31.....	982.74	49,590	+3,490	899.62	67,090	+8,780
CAL YR 1973.....	-	-	+1,950	-	-	-1,130
Jan. 31.....	981.60	46,830	-2,760	900.45	73,150	+6,060
Feb. 28.....	982.00	47,780	+950	900.38	72,620	-530
Mar. 31.....	986.07	58,170	+10,390	901.90	84,360	+11,740
Apr. 30.....	985.64	57,030	-1,140	901.60	81,990	-2,370
May 31.....	986.57	59,530	+2,500	901.49	81,130	-860
June 30.....	985.64	57,030	-2,500	901.18	78,680	-2,450
July 31.....	984.07	52,920	-4,110	900.20	71,280	-7,400
Aug. 31.....	984.10	53,000	+80	900.32	72,170	+890
Sept. 30.....	982.50	49,000	-4,000	899.95	69,430	-2,740
WTR YR 1974.....	-	-	+1,570	-	-	+10,720
03097000 Meander Creek Reservoir						
Sept. 30.....	899.95	23,400	-			
Oct. 31.....	899.14	22,130	-1,270			
Nov. 30.....	899.21	22,240	+110			
Dec. 31.....	901.96	26,750	+4,510			
CAL YR 1973.....	-	-	-8,670			
Jan. 31.....	905.94	34,310	+7,560			
Feb. 28.....	905.34	33,100	-1,210			
Mar. 31.....	906.12	34,690	+1,590			
Apr. 30.....	905.63	33,680	-1,010			
May 31.....	906.39	35,270	+1,590			
June 30.....	905.16	32,730	-2,540			
July 31.....	904.28	31,010	-1,720			
Aug. 31.....	903.72	29,950	-1,060			
Sept. 30.....	902.95	28,510	-1,440			
WTR YR 1974.....	-	-	+5,110			

LITTLE BEAVER CREEK BASIN

03109500 Little Beaver Creek near East Liverpool, Ohio

LOCATION.--Lat 40°40'33", long 80°32'27", Columbiana County, on right bank at downstream side of Grimms Bridge, 1.5 mi (2.4 km) upstream from Island Run, 4 mi (6 km) upstream from mouth, and 4 mi (6 km) northeast of East Liverpool.

DRAINAGE AREA.--496 mi² (1,285 km²).

PERIOD OF RECORD.--May 1915 to current year.

GAGE.--Water-stage recorder. Datum of gage is 702.77 ft (214.204 m) above mean sea level, adjustment of 1912. Prior to Sept. 22, 1926, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--59 years, 508 ft³/s (14.39 m³/s), 13.91 in/yr (353.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,490 ft³/s (184 m³/s) Mar. 10, gage height, 9.68 ft (2.950 m); minimum, 69 ft³/s (1.95 m³/s) Aug. 27.

Period of record: Maximum discharge, 25,000 ft³/s (708 m³/s) July 19, 1941, gage height, 17.4 ft (5.30 m), from rating curve extended above 16,000 ft³/s (453 m³/s) on basis of slope-area measurement of peak flow; minimum, 12 ft³/s (0.34 m³/s) several days in 1918, 1930, 1932, 1936.
Maximum stage observed, about 20 ft (6 m).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1937(M). WSP 1305: 1916-18(M), 1921-22(M), 1924-30(M), 1933(M), 1936(M). WSP 1907: 1950(P), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	509	604	712	608	1,040	2,020	832	1,090	3,890	121	361
2	134	461	482	578	567	1,140	4,310	698	764	2,520	109	406
3	123	319	420	490	500	1,070	3,390	550	603	968	111	690
4	138	247	386	420	440	943	3,600	523	507	572	163	960
5	130	206	409	370	399	1,060	2,620	449	433	497	235	577
6	126	179	403	340	380	1,100	1,860	443	376	495	174	362
7	123	158	349	320	599	893	1,480	431	338	359	131	278
8	104	145	310	300	553	1,710	1,250	393	349	291	117	236
9	97	138	307	320	458	4,830	1,350	409	442	254	123	202
10	104	133	341	350	380	5,660	1,240	427	330	254	142	181
11	97	132	323	370	350	3,510	1,260	376	273	300	141	169
12	91	140	285	330	350	2,160	1,110	3,070	275	234	123	170
13	90	138	315	302	400	1,500	986	4,720	253	193	171	191
14	114	134	970	300	535	1,150	961	2,420	225	175	166	244
15	138	136	814	400	420	990	1,350	1,360	218	296	130	225
16	128	226	573	1,100	370	1,580	1,100	964	478	473	107	175
17	112	245	400	1,640	360	1,520	879	782	372	283	131	156
18	104	191	310	1,320	347	1,100	757	853	280	211	182	196
19	97	163	330	4,750	359	973	682	642	246	180	157	246
20	92	150	613	3,960	466	878	605	525	306	157	120	213
21	92	145	1,910	2,380	438	930	559	456	284	140	102	380
22	90	157	1,290	1,830	752	1,060	540	438	248	125	92	572
23	88	164	847	1,550	1,200	968	601	724	334	133	86	417
24	86	159	650	1,610	873	945	557	673	328	173	82	307
25	84	572	608	1,270	704	870	489	536	257	171	77	251
26	84	1,190	1,160	1,010	500	851	442	430	641	138	78	233
27	82	971	2,570	970	550	915	405	375	510	123	72	205
28	100	1,380	2,140	986	631	855	381	331	313	115	256	198
29	326	1,190	1,320	931	-----	1,390	359	1,180	260	158	936	218
30	598	832	1,040	794	-----	3,170	402	3,190	393	187	684	220
31	611	-----	828	695	-----	2,730	-----	1,850	-----	141	424	-----
TOTAL	4,585	10,910	23,307	32,698	14,489	49,491	37,545	31,050	11,726	14,206	5,743	9,239
MEAN	148	364	752	1,055	517	1,596	1,252	1,002	391	458	185	308
MAX	611	1,380	2,570	4,750	1,200	5,660	4,310	4,720	1,090	3,890	936	960
MIN	82	132	285	300	347	851	359	331	218	115	72	156
CFSM	.30	.73	1.52	2.13	1.04	3.22	2.52	2.02	.79	.92	.37	.62
IN.	.34	.82	1.75	2.45	1.09	3.71	2.82	2.33	.88	1.07	.43	.69

CAL YR 1973 TOTAL 228,542 MEAN 626 MAX 6,200 MIN 59 CFSM 1.26 IN 17.14
WTR YR 1974 TOTAL 244,989 MEAN 671 MAX 5,660 MIN 72 CFSM 1.35 IN 18.37

PEAK DISCHARGE (BASE, 5,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-19	1100	9.44	6,100	05-12	1900	9.47	6,150
03-10	0300	9.68	6,490	07-01	0600	9.14	5,620
04-02	0900	9.09	5,540				

03110000 Yellow Creek near Hammondsville, Ohio

LOCATION.--Lat 40°32'16", long 80°43'31", in sec.29, T.8 N., R.2 W., Jefferson County, on right bank 1,000 ft (305 m) upstream from Lowery Run, 0.9 mi (1.4 km) upstream from Brush Creek, and 1.6 mi (2.6 km) southwest of Hammondsville.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 692.10 ft (210.952 m) above mean sea level, Ohio State Highway Department bench mark.

AVERAGE DISCHARGE.--34 years, 155 ft³/s (4.390 m³/s), 14.32 in/yr (363.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,400 ft³/s (68.0 m³/s) Apr. 2, gage height, 6.50 ft (1.981 m); minimum, 12 ft³/s (0.34 m³/s) Aug. 26.

Period of record: Maximum discharge, 9,580 ft³/s (271 m³/s) Jan. 27, 1952, gage height, 12.17 ft (3.709 m); minimum, 0.8 ft³/s (0.023 m³/s) Sept. 24 to Oct. 1, Oct. 7, 8, 1963.

The highest stage observed is reported to have occurred in 1912.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	207	187	216	192	204	407	343	109	61	43	447
2	25	163	148	168	170	229	1,760	246	95	54	33	726
3	20	121	128	150	150	268	1,080	236	83	44	31	800
4	20	96	117	130	130	264	990	203	75	38	62	780
5	34	94	124	110	119	271	673	169	66	43	100	403
6	45	84	110	100	110	249	523	155	61	51	51	260
7	30	74	92	95	170	231	411	140	57	38	38	201
8	25	69	82	92	150	214	352	123	74	30	34	155
9	28	66	82	100	130	234	426	133	124	27	34	121
10	27	61	88	110	110	447	372	144	78	25	33	104
11	22	54	80	120	100	357	352	120	61	53	29	94
12	20	50	69	100	100	326	329	737	56	43	24	86
13	18	48	80	95	110	269	311	1,040	53	29	25	80
14	20	45	263	100	166	228	284	523	45	24	24	138
15	34	48	219	120	131	208	336	365	51	40	21	98
16	25	113	173	411	110	388	270	284	269	45	18	74
17	22	113	140	568	100	377	235	237	140	29	62	66
18	20	128	110	431	100	318	210	651	94	22	96	64
19	19	84	138	1,700	95	291	192	423	74	20	48	62
20	18	64	207	1,190	135	252	169	304	74	16	35	57
21	18	57	770	745	114	267	154	244	69	15	29	92
22	18	61	403	538	169	295	155	210	64	14	24	153
23	18	54	289	472	242	260	181	219	117	16	20	102
24	21	53	225	460	198	254	152	192	119	29	19	82
25	26	361	198	369	193	231	131	161	88	25	17	71
26	31	509	292	319	154	227	119	137	86	18	15	66
27	34	298	745	308	162	216	111	119	84	15	14	61
28	47	431	513	279	176	199	105	106	67	20	106	60
29	184	350	369	272	-----	291	100	144	61	117	380	61
30	207	245	315	234	-----	537	120	162	57	150	911	61
31	219	-----	257	215	-----	498	-----	123	-----	69	411	-----
TOTAL	1,330	4,201	7,013	10,317	3,986	8,900	11,010	8,393	2,551	1,220	2,787	5,625
MEAN	42.9	140	226	333	142	287	367	271	85.0	39.4	89.9	188
MAX	219	509	770	1,700	242	537	1,760	1,040	269	150	911	800
MIN	18	45	69	92	95	199	100	106	45	14	14	57
CFSM	.29	.95	1.54	2.27	.97	1.95	2.50	1.84	.58	.27	.61	1.28
IN.	.34	1.06	1.77	2.61	1.01	2.25	2.79	2.12	.65	.31	.71	1.42

CAL YR 1973 TOTAL 65,424.1 MEAN 179 MAX 1,310 MIN 8.1 CFSM 1.22 IN 16.56
WTR YR 1974 TOTAL 67,333.0 MEAN 184 MAX 1,760 MIN 14 CFSM 1.25 IN 17.04

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-19	2300	6.42	2,330	04-02	1800	6.50	2,400

SHORT CREEK BASIN

03111500 Short Creek near Dillonvale, Ohio

LOCATION.--Lat 40°11'36", long 80°44'04", in sec.30, T.4 N., R.2 W., Jefferson County, on right bank at downstream side of bridge on State Highway 150, 2.1 mi (3.4 km) east of Dillonvale, 2.2 mi (3.5 km) downstream from Jug Run, and 2.9 mi (4.7 km) upstream from Little Short Creek.

DRAINAGE AREA.--123 mi² (319 km²).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 676.1 ft (206.08 m) above mean sea level, State of Ohio bench mark. Prior to Oct. 21, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 120 ft³/s (3.398 m³/s), 13.25 in/yr (336.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,560 ft³/s (72.5 m³/s) Sept. 1, gage height, 6.87 ft (2.094 m); minimum, 18 ft³/s (0.51 m³/s) Oct. 4.
Period of record: Maximum discharge, 6,500 ft³/s (184 m³/s) Mar. 6, 1945; maximum gage height, 10.15 ft (3.094 m) Mar. 5, 1963, from graph based on gage readings; minimum daily, 2.8 ft³/s (0.079 m³/s) Sept. 21, 27, 1947.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1003: 1942-43. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	103	107	94	166	153	256	146	116	85	69	1,290
2	19	80	96	78	162	161	549	119	101	71	62	729
3	19	56	85	70	150	166	477	153	90	66	69	1,400
4	18	46	78	65	150	166	639	127	83	65	194	682
5	28	44	87	60	143	184	403	114	76	66	129	406
6	40	38	81	60	137	186	325	109	70	73	87	295
7	30	35	69	60	428	196	275	102	69	63	76	248
8	24	34	64	60	283	201	260	100	69	57	85	212
9	26	34	69	91	212	201	365	103	85	54	77	186
10	26	33	74	113	180	293	300	96	64	101	66	174
11	24	31	62	230	170	234	258	93	58	122	63	162
12	25	32	59	172	159	225	241	409	62	70	65	153
13	25	31	68	124	150	201	244	365	59	63	76	360
14	27	30	106	100	140	186	241	223	54	59	62	431
15	25	35	84	131	137	184	260	182	59	65	56	227
16	25	127	77	196	131	308	214	157	248	56	55	180
17	23	65	71	170	131	285	194	146	112	52	201	162
18	23	50	66	141	121	237	186	315	87	52	126	151
19	23	47	83	437	129	225	185	190	71	55	85	146
20	23	41	110	387	180	212	172	153	74	52	71	136
21	25	39	205	310	153	253	162	137	85	49	65	209
22	25	40	119	265	166	293	170	127	80	50	60	212
23	25	39	96	263	182	248	193	151	258	62	58	157
24	25	38	87	275	155	234	163	132	155	70	54	137
25	26	384	85	223	149	216	146	118	127	56	54	129
26	27	253	127	201	144	209	140	110	113	55	52	124
27	29	157	143	207	137	209	134	103	101	52	66	119
28	40	260	157	188	144	209	126	96	88	60	832	112
29	103	176	126	230	-----	237	121	170	101	137	409	112
30	100	129	113	194	-----	300	121	137	83	155	691	113
31	116	-----	103	180	-----	278	-----	116	-----	81	390	-----
TOTAL	1,035	2,507	2,957	5,375	4,689	6,890	7,520	4,799	2,898	2,174	4,505	9,154
MEAN	33.4	83.6	95.4	173	167	222	251	155	96.6	70.1	145	305
MAX	116	384	205	437	428	308	639	409	258	155	832	1,400
MIN	18	30	59	60	121	153	121	93	54	49	52	112
CFSM	.27	.68	.78	1.41	1.36	1.80	2.04	1.26	.79	.57	1.18	2.48
IN.	.31	.76	.89	1.63	1.42	2.08	2.27	1.45	.88	.66	1.36	2.77

CAL YR 1973 TOTAL 49,882 MEAN 137 MAX 907 MIN 14 CFSM 1.11 IN 15.09
WTR YR 1974 TOTAL 54,503 MEAN 149 MAX 1,400 MIN 18 CFSM 1.21 IN 16.48

PEAK DISCHARGE (BASE, 1,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
04-03	2100	4.60	1,370	09-03	0500	6.67	2,410
08-28	1600	5.06	1,540	09-13	1800	5.54	1,760
09-01	1900	6.87	2,560				

03114000 Captina Creek at Armstrongs Mills, Ohio

LOCATION.--Lat 39°54'31", long 80°55'27", in NE 1/4 sec.10, T.5 N., R.4 W., Belmont County, on left bank at downstream side of bridge on State Highway 148, 0.5 mi (0.8 km) east of Armstrongs Mills, and 0.7 mi (1.1 km) downstream from Anderson Run.

DRAINAGE AREA.--134 mi² (347 km²).

PERIOD OF RECORD.--August 1926 to September 1935, October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 739.53 ft (225.409 m) above mean sea level. Aug. 20, 1926, to Sept. 30, 1935, nonrecording gage at same site, at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--25 years, 154 ft³/s (4.361 m³/s), 15.61 in/yr (396.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 5,000 ft³/s (142 m³/s) Jan. 11, no flow part of each day Oct. 20, 21.

Period of record: Maximum discharge, about 11,800 ft³/s (334 m³/s) Mar. 4, 1963; maximum gage height, 14.40 ft (4.389 m), present datum, Aug. 7, 1935; no flow at times during 1929-30, 1932, 1934, 1959, 1963-66, 1972, 1973.

REMARKS.--Records good except period of no gage height record which is poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	62	59	100	190	160	175	170	356	575	41	550
2	17	44	44	95	150	160	908	143	223	238	32	426
3	12	27	36	110	150	163	615	318	160	163	34	2,090
4	12	19	32	380	123	150	1,560	259	123	120	75	746
5	8.8	17	36	290	95	199	728	211	98	98	67	318
6	6.3	15	31	200	138	214	490	187	80	98	39	196
7	5.4	13	23	150	1,280	196	390	163	73	76	27	150
8	4.5	12	20	100	475	190	455	145	75	62	28	116
9	3.2	11	22	250	304	170	1,060	145	160	53	30	89
10	3.8	11	25	1,000	235	286	575	133	80	226	25	75
11	4.6	10	19	2,200	202	253	422	120	56	470	21	69
12	3.6	9.8	19	400	173	265	360	1,730	58	150	19	62
13	2.4	9.2	23	330	178	220	353	668	43	91	23	173
14	2.2	8.6	50	260	168	187	321	328	37	67	19	426
15	2.5	9.8	50	210	133	170	297	235	39	56	16	178
16	1.8	38	40	200	120	363	256	178	89	47	11	123
17	1.5	35	26	180	116	332	226	181	64	39	9.4	95
18	1.2	25	35	160	95	256	202	920	43	33	16	80
19	.71	21	27	200	114	247	184	406	40	30	15	69
20	.33	19	61	350	259	211	165	262	253	28	11	102
21	1.1	17	266	310	199	470	153	199	382	23	8.8	1,130
22	1.1	17	133	270	241	438	214	170	332	20	7.2	515
23	1.5	17	109	250	253	318	520	290	1,970	20	6.3	269
24	1.1	17	72	260	217	262	300	205	740	28	5.1	190
25	1.2	154	68	220	199	205	241	153	668	24	4.8	155
26	1.2	166	133	200	163	187	214	125	884	19	4.2	128
27	1.2	155	145	280	153	165	190	102	402	18	3.3	104
28	4.5	287	140	300	153	148	170	84	265	17	6.3	93
29	27	155	120	430	-----	165	155	148	256	193	26	93
30	40	85	110	310	-----	193	148	314	181	272	434	87
31	64	-----	110	240	-----	196	-----	247	-----	69	247	-----
TOTAL	264.74	1,486.4	2,084	10,235	6,276	7,139	12,047	8,939	8,230	3,423	1,311.4	8,897
MEAN	8.54	49.5	67.2	330	224	230	402	288	274	110	42.3	297
MAX	64	287	266	2,200	1,280	470	1,560	1,730	1,970	575	434	2,090
MIN	.33	8.6	19	95	95	148	148	84	37	17	3.3	62
CFSM	.06	.37	.50	2.46	1.67	1.72	3.00	2.15	2.04	.82	.32	2.22
IN.	.07	.41	.58	2.84	1.74	1.98	3.34	2.48	2.28	.95	.36	2.47

CAL YR 1973 TOTAL 55,278.23 MEAN 151 MAX 1,750 MIN .30 CFSM 1.13 IN 15.35
WTR YR 1974 TOTAL 70,332.54 MEAN 193 MAX 2,200 MIN .33 CFSM 1.44 IN 19.53

PEAK DISCHARGE (BASE, 3,000 FT³/S)

Note: No gage height record
Dec. 30 to Feb. 4.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-11	Unknown	Unknown	about 5,000	09-03	1230	7.98	4,280
05-12	1230	8.59	4,990				

LITTLE MUSKINGUM RIVER BASIN

03115400 Little Muskingum River at Eloomfield, Ohio

LOCATION.--Lat 39°33'47", long 81°12'14", in sec.22, T.3 N., R.6 W., Washington County, on left bank 400 ft (122 m) upstream from bridge on State Highway 260 at Eloomfield, 2.2 mi (3.5 km) downstream from Wilson Run.

DRAINAGE AREA.--210 mi² (544 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 645.99 ft (196.898 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 241 ft³/s (6.825 m³/s), 15.59 in/yr (396.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,520 ft³/s (185 m³/s) Jan. 11, gage height, 21.59 ft (6.581 m); minimum, 1.2 ft³/s (0.034 m³/s) Oct. 20, 21.

Period of record: Maximum discharge, 21,200 ft³/s (600 m³/s) Mar. 5, 1963, gage height, 28.08 ft (8.559 m), from rating curve extended above 8,000 ft³/s (227 m³/s) on basis of velocity-area study and flow over road computations; no flow Sept. 18, 26, 27, 1967.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1705: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	150	228	286	307	201	215	126	930	293	80	569
2	31	126	166	234	270	196	1,200	114	385	200	44	1,540
3	18	63	131	267	271	218	1,020	218	230	140	33	1,210
4	13	37	110	996	230	215	1,430	262	161	105	40	1,330
5	10	25	110	532	192	215	1,020	196	119	90	51	494
6	8.5	18	125	344	179	233	638	172	91	176	34	301
7	7.3	14	102	273	384	314	466	146	75	96	22	215
8	5.4	12	85	199	467	401	501	124	65	70	25	165
9	4.4	11	80	447	334	341	2,130	116	104	56	37	122
10	3.7	10	90	1,640	265	311	1,010	106	68	224	43	93
11	3.2	9.1	87	5,440	239	278	581	91	48	2,090	29	79
12	2.6	8.0	76	2,360	204	258	421	2,240	48	393	23	70
13	2.6	7.2	80	622	207	221	425	2,400	43	203	19	73
14	3.2	6.5	171	415	198	190	435	555	34	131	18	1,080
15	2.9	6.5	235	343	172	172	356	322	29	94	13	420
16	2.7	53	193	331	155	295	289	230	256	78	9.8	243
17	2.4	78	151	288	152	491	239	182	223	60	7.9	168
18	1.8	58	96	246	132	350	204	833	111	47	7.4	122
19	1.7	42	107	311	140	292	179	630	71	41	17	93
20	1.3	42	95	711	285	246	155	311	83	41	22	76
21	1.4	37	276	541	282	526	134	218	615	41	17	1,130
22	2.0	31	261	487	316	930	132	172	464	32	9.6	1,640
23	2.1	28	206	395	421	511	718	190	4,390	27	6.3	505
24	3.0	32	174	438	338	369	421	196	3,260	29	4.7	315
25	4.7	610	151	368	302	285	278	152	700	30	3.8	235
26	6.1	845	201	317	236	246	221	119	1,250	25	3.1	186
27	7.3	1,060	649	444	215	218	190	95	630	21	3.3	145
28	8.3	1,110	424	472	212	193	167	80	362	128	22	117
29	22	677	301	792	-----	187	143	137	302	453	47	113
30	53	330	315	547	-----	215	129	1,040	254	718	1,580	116
31	78	-----	286	394	-----	227	-----	529	-----	191	681	-----
TOTAL	383.6	5,536.3	5,762	21,480	7,105	9,345	15,447	12,302	15,401	6,323	2,952.9	12,965
MEAN	12.4	185	186	693	254	301	515	397	513	204	95.3	432
MAX	78	1,110	649	5,440	467	930	2,130	2,400	4,390	2,090	1,580	1,640
MIN	1.3	6.5	76	199	132	172	129	80	29	21	3.1	70
CFSM	.06	.88	.89	3.30	1.21	1.43	2.45	1.89	2.44	.97	.45	2.06
IN.	.07	.98	1.02	3.81	1.26	1.66	2.74	2.18	2.73	1.12	.52	2.30

CAL YR 1973 TOTAL 85,787.3 MEAN 235 MAX 2,680 MIN 1.3 CFSM 1.12 IN 15.20
WTR YR 1974 TOTAL 115,002.8 MEAN 315 MAX 5,440 MIN 1.3 CFSM 1.50 IN 20.37

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-11	1700	21.59	6,520	06-23	Unknown	Unknown	about 6,500
05-12	2400	19.21	4,730	08-30	1600	15.82	3,040

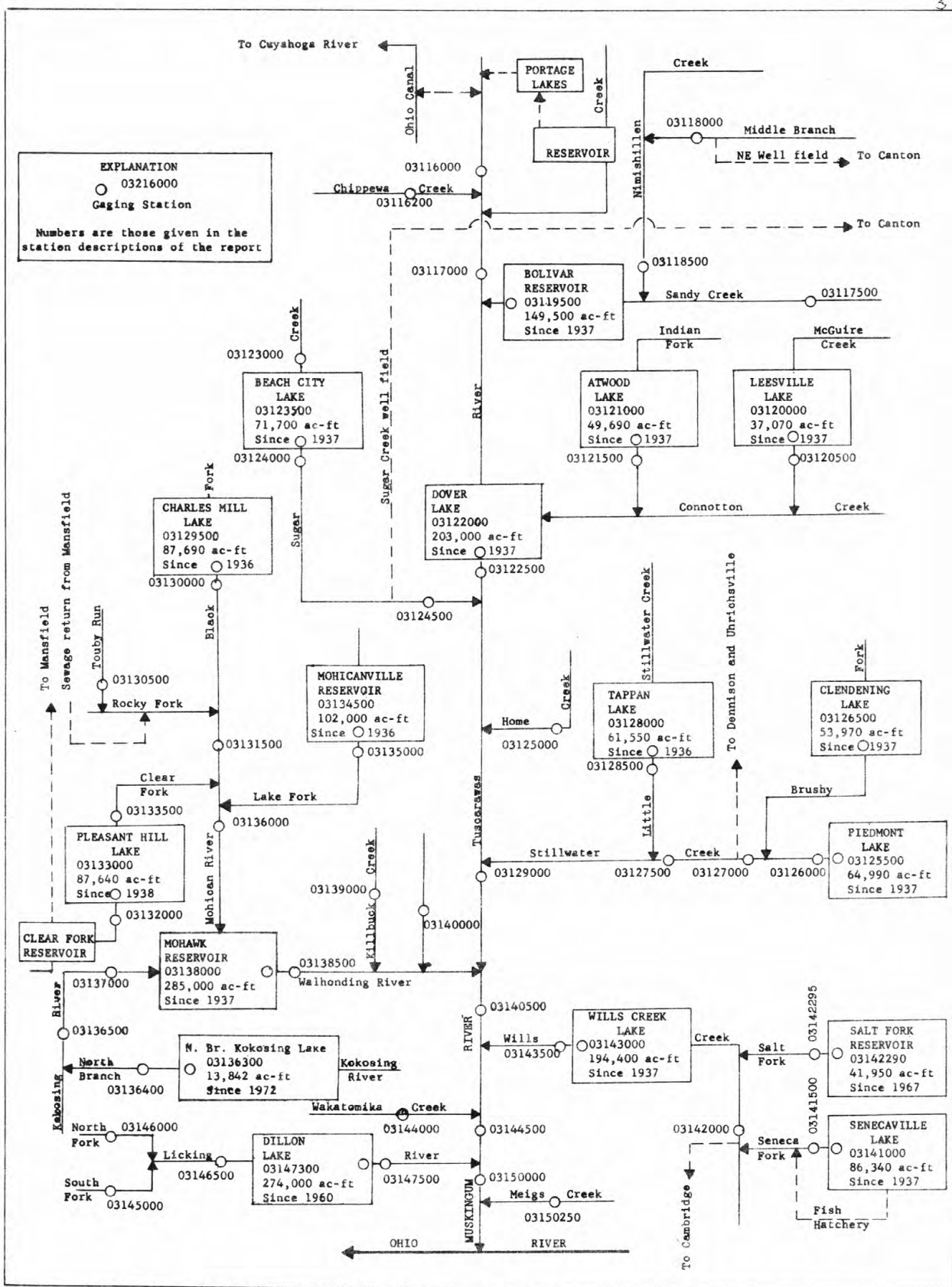


Figure 1.--Schematic diagram showing diversions and storage in the Muskingum River basin in Ohio

MUSKINGUM RIVER BASIN

03116000 Tuscarawas River at Clinton, Ohio

LOCATION.--Lat 40°55'40", long 81°37'58", in NW 1/4 sec.32, T.2 N., R.10 W., Summit County, on right bank 100 ft (30 m) downstream from highway bridge at Clinton, and 1 mi (2 km) upstream from Chippewa Creek.

DRAINAGE AREA.--174 mi² (451 km²).

PERIOD OF RECORD.--May 1926 to current year.

GAGE.--Water-stage recorder. Datum of gage is 933.28 ft (284.464 m) above mean sea level, adjustment of 1912. Prior to Nov. 18, 1928, nonrecording gage at site 100 ft (30 m) upstream at datum 4.00 ft (1.219 m) higher. Nov. 18, 1928, to July 24, 1930, nonrecording gage at same site at present datum.

AVERAGE DISCHARGE.--45 years, (1929-74), 141 ft³/s (3.993 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 1,400 ft³/s (39.6 m³/s) Mar. 10; maximum gage height, 12.12 ft (3.694 m) Mar. 10 (backwater from Chippewa Creek); minimum discharge, 52 ft³/s (1.47 m³/s) Oct. 23. Period of record: Maximum discharge, 2,700 ft³/s (76.5 m³/s) Aug. 8, 1935; maximum gage height, 17.00 ft (5.182 m) July 7, 1969 (backwater from Chippewa Creek); minimum discharge, 10 ft³/s (0.28 m³/s) Nov. 6, 1928.

REMARKS.--Records fair. Some water diverted through the Portage Lakes into the Ohio Canal at Long Lake 12 mi (19 km) upstream and 3 mi (5 km) south of Akron. Part of the diverted water flows through the Ohio Canal into the Cuyahoga River basin. Flow affected by industrial plants upstream from station and supplemented at times by diversion from Nimisila Reservoir, capacity, 6,500 acre-ft (8.01 km³), since 1939. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	192	200	178	245	400	678	348	221	754	71	241
2	92	168	156	130	211	530	1,000	225	155	447	71	143
3	95	87	128	126	195	481	1,300	234	119	236	84	129
4	63	75	112	118	178	425	1,200	200	111	138	83	164
5	93	72	120	98	161	503	1,100	170	107	121	74	154
6	71	70	112	103	160	489	931	150	108	111	72	127
7	61	69	98	95	246	367	696	160	102	105	71	85
8	63	67	89	86	262	671	505	200	97	102	96	77
9	71	66	84	89	162	1,150	426	250	95	95	163	76
10	61	66	84	92	143	1,400	409	300	98	95	219	77
11	58	65	84	97	141	900	356	250	93	82	142	79
12	57	65	82	92	140	800	318	800	100	81	132	117
13	62	64	89	83	155	750	226	1,100	95	77	107	128
14	85	63	100	85	217	650	249	1,000	93	79	135	94
15	64	70	113	93	201	542	370	700	101	120	140	76
16	61	83	95	184	196	600	291	460	123	81	123	73
17	79	64	84	338	142	700	201	323	112	80	169	74
18	65	65	78	380	137	600	184	285	100	77	126	92
19	59	65	76	1,100	144	500	172	241	99	77	141	79
20	58	65	142	800	192	414	163	184	109	75	119	70
21	56	74	353	550	169	352	155	153	100	70	78	78
22	58	83	253	650	260	331	171	149	104	80	74	75
23	56	70	184	800	414	302	202	177	101	85	73	71
24	59	71	135	700	276	306	188	187	115	80	70	70
25	60	168	142	600	211	268	168	141	106	75	68	70
26	61	252	334	500	179	255	193	129	167	74	67	68
27	63	174	400	400	174	327	189	124	230	73	69	69
28	87	290	500	370	193	332	167	121	211	71	115	86
29	119	330	350	390	-----	273	133	415	143	72	438	74
30	123	260	282	360	-----	476	232	380	233	69	480	70
31	148	-----	212	318	-----	720	-----	281	-----	70	256	-----
TOTAL	2,266	3,373	5,271	10,005	5,504	16,814	12,573	9,837	3,748	3,852	4,126	2,886
MEAN	73.1	112	170	323	197	542	419	317	125	124	133	96.2
MAX	148	330	500	1,100	414	1,400	1,300	1,100	233	754	480	241
MIN	56	63	76	83	137	255	133	121	93	69	67	68

CAL YR 1973 TOTAL 65,979 MEAN 181 MAX 1,280 MIN 46
WTR YR 1974 TOTAL 80,255 MEAN 220 MAX 1,400 MIN 56

03116200 Chippewa Creek at Easton, Ohio

LOCATION.--Lat 40°56'47", long 81°44'35", in SW 1/4 sec. 17, T.18 N., R.11 W., Wayne County, on left bank at downstream side of bridge on State Highway 585, 0.5 mi (0.8 km) southwest of Easton, and 1.5 mi (2.4 km) upstream from Red Run.

DRAINAGE AREA.--146 mi² (378 km²).

PERIOD OF RECORD.--January 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 939.60 ft (286.390 m) above mean sea level. Prior to June 10, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--14 years, 125 ft³/s (3.540 m³/s), 11.63 in/yr (295.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,490 ft³/s (42.2 m³/s) Mar. 11, gage height, 11.78 ft (3.591 m); minimum, 9.5 ft³/s (0.27 m³/s) July 22.

Period of record: Maximum discharge, 12,500 ft³/s (354 m³/s) July 5, 1969, gage height, 16.02 ft (4.883 m); minimum, 2.8 ft³/s (0.079 m³/s) July 6, 1963.

Flood of Jan. 21, 1959 reached a stage of 14.17 ft (4.319 m), discharge, 10,100 ft³/s (286 m³/s), by contracted-opening measurement of peak flow.

REMARKS.--Records good. Low flow slightly regulated by industry at Rittman 2.5 mi (4.0 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	166	215	164	239	554	445	258	144	460	13	55
2	52	97	148	151	203	458	1,130	148	98	256	12	47
3	45	60	120	128	165	418	1,420	128	72	167	15	70
4	26	43	106	108	138	360	1,240	108	58	119	22	84
5	61	34	116	116	115	487	963	83	46	82	15	37
6	33	28	103	96	101	394	675	83	40	57	13	26
7	23	26	85	81	182	310	487	80	36	38	12	21
8	50	25	76	85	147	788	371	71	32	27	21	18
9	49	23	71	84	107	953	328	189	29	24	62	16
10	24	21	67	86	97	1,310	329	175	26	20	33	16
11	19	20	60	77	85	1,410	283	124	24	19	24	16
12	17	19	55	64	83	1,130	247	870	26	15	24	28
13	21	20	66	65	124	802	218	1,080	23	14	27	27
14	55	20	130	71	216	561	245	776	20	13	100	26
15	25	26	104	88	140	412	306	468	33	25	32	18
16	21	38	81	291	109	804	222	277	69	15	23	15
17	18	26	62	543	99	723	184	188	56	12	111	14
18	17	23	51	391	85	491	163	156	37	12	68	41
19	16	22	44	1,010	100	390	147	113	28	12	40	27
20	16	22	168	1,430	172	315	128	82	41	12	30	19
21	14	41	386	1,260	149	277	113	66	33	10	24	23
22	13	63	218	993	390	259	125	69	32	10	21	27
23	15	38	162	860	416	266	172	90	88	11	18	21
24	15	37	130	822	265	244	140	83	59	11	17	19
25	15	223	197	603	200	222	116	65	39	11	15	17
26	15	279	590	439	182	248	103	50	109	13	13	17
27	14	172	698	606	151	362	93	41	196	13	14	15
28	27	523	505	474	214	292	72	34	90	12	48	28
29	63	619	343	525	-----	290	64	231	116	14	213	23
30	94	360	275	401	-----	603	132	365	242	15	170	18
31	118	-----	199	306	-----	593	-----	211	-----	13	65	-----
TOTAL	1,006	3,114	5,631	12,418	4,674	16,726	10,661	6,762	1,942	1,532	1,315	829
MEAN	32.5	104	182	401	167	540	355	218	64.7	49.4	42.4	27.6
MAX	118	619	698	1,430	416	1,410	1,420	1,080	242	460	213	84
MIN	13	19	44	64	83	222	64	34	20	10	12	14
CFSM	.22	.71	1.25	2.75	1.14	3.70	2.43	1.49	.44	.34	.29	.19
IN.	.26	.79	1.43	3.16	1.19	4.26	2.72	1.72	.49	.39	.34	.21

CAL YR 1973 TOTAL 52,288.2 MEAN 143 MAX 1,480 MIN 8.1 CFSM .98 IN 13.32
WTR YR 1974 TOTAL 66,610.0 MEAN 182 MAX 1,430 MIN 10 CFSM 1.25 IN 16.97

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-20	1400	11.76	1,480	4-03	0900	11.74	1,470
3-11	0200	11.78	1,490	5-13	1000	10.74	1,110

MUSKINGUM RIVER BASIN

03117000 Tuscarawas River at Massillon, Ohio

LOCATION.--Lat 40°46'13", long 81°31'27", in sec. 20, T.10 N., R.9 W., Stark County, on left bank at sewage-treatment works, 0.7 mi (1.1 km) south of Massillon, and 3 mi (5 km) downstream from Newman Creek.

DRAINAGE AREA.--518 mi² (1,342 km²).

PERIOD OF RECORD.--October 1937 to current year. Prior to April 1938 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 916.00 ft (279.197 m) above mean sea level, adjustment of 1912. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--37 years, 417 ft³/s (11.81 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,270 ft³/s (121 m³/s) Mar. 10, gage height, 9.57 ft (2.917 m); minimum, 87 ft³/s (2.46 m³/s) Oct. 21.

Period of record: Maximum discharge, 10,700 ft³/s (303 m³/s) July 5, 1969, gage height, 16.43 ft (5.008 m); minimum, 54 ft³/s (1.53 m³/s) July 25, 1954, Aug. 20, 1962, Oct. 13, 1963.

REMARKS.--Records good. Diversion from basin and regulation at Portage Lakes (including Nimisila Reservoir since 1939). See REMARKS for station 03116000. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	591	768	533	654	536	1,430	677	551	917	106	414
2	214	536	510	407	527	950	2,250	513	388	907	105	329
3	285	311	421	390	472	1,000	2,990	481	311	555	205	262
4	176	231	380	369	421	887	3,150	441	274	340	317	357
5	218	206	407	308	385	907	2,820	342	255	269	162	297
6	209	188	382	321	342	954	2,100	316	247	233	120	232
7	142	172	331	303	380	768	1,470	316	239	203	108	163
8	190	167	298	255	542	1,340	1,140	358	217	190	158	129
9	250	157	278	278	495	2,870	876	519	208	185	422	127
10	174	146	278	278	344	4,050	826	651	207	181	367	131
11	142	138	268	301	295	3,570	743	481	207	156	260	136
12	123	140	250	278	298	3,080	674	1,500	217	137	210	200
13	129	159	270	233	301	2,410	536	2,270	206	123	215	251
14	216	142	374	255	355	1,670	489	2,270	202	118	230	195
15	179	154	374	313	478	1,140	789	1,670	214	221	254	149
16	144	199	308	632	427	1,550	648	1,030	288	196	214	138
17	131	163	268	1,130	382	1,650	463	691	297	147	303	140
18	161	142	240	1,060	303	1,450	404	588	250	133	288	181
19	113	140	228	2,890	290	1,090	371	498	226	128	238	197
20	108	140	363	3,100	318	856	334	402	254	118	217	162
21	98	163	998	3,000	418	757	308	326	241	101	151	168
22	106	216	764	2,650	404	719	323	318	238	110	123	177
23	106	185	566	2,270	761	719	421	382	324	126	119	165
24	106	176	429	2,150	772	705	396	415	307	130	107	159
25	106	516	413	1,770	566	619	339	326	264	122	103	159
26	102	841	950	1,360	461	613	355	285	302	117	109	153
27	113	671	1,460	1,110	393	768	342	273	655	115	120	152
28	154	1,130	1,340	1,180	388	757	321	263	510	110	226	186
29	352	1,260	1,090	1,100	-----	1,060	260	502	341	114	596	190
30	446	1,100	818	1,060	-----	1,650	388	1,180	381	120	1,020	161
31	524	-----	638	864	-----	1,700	-----	771	-----	113	530	-----
TOTAL	5,674	10,480	16,462	32,148	12,172	42,795	27,956	21,055	8,821	6,735	7,703	5,860
MEAN	183	349	531	1,037	435	1,380	932	679	294	217	248	195
MAX	524	1,260	1,460	3,100	772	4,050	3,150	2,270	655	917	1,020	414
MIN	98	138	228	233	290	536	260	263	202	101	103	127

CAL YR 1973 TOTAL 182,225 MEAN 499 MAX 3,240 MIN 85
WTR YR 1974 TOTAL 197,861 MEAN 542 MAX 4,050 MIN 98

PEAK DISCHARGE (BASE, 2,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1600	8.31	3,420	4-04	0700	7.94	3,170
3-10	1100	9.57	4,270	5-13	2300	6.58	2,390

03117500 Sandy Creek at Waynesburg, Ohio

LOCATION.--Lat 40°40'21", long 81°15'36", in sec. 21, T.17 N., R.7 W., Stark County, on upstream side of left pier of bridge on State Highway 183 in Waynesburg, 300 ft (91 m) downstream from Little Sandy Creek, and 0.6 mi (1.0 km) upstream from Indian Run.

DRAINAGE AREA.--253 mi² (655 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to December 1938 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 955.00 ft (291.084 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--36 years, 256 ft³/s (7.250 m³/s), 13.75 in/yr (349.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,120 ft³/s (88.4 m³/s) Jan. 19, gage height, 6.53 ft (1.990 m); minimum, 44 ft³/s (1.25 m³/s) Aug. 2.

Period of record: Maximum discharge, 15,000 ft³/s (425 m³/s) Jan. 22, 1959, gage height, 10.05 ft (3.063 m), from rating curve extended above 4,700 ft³/s (133 m³/s) on basis of contracted-opening and flow over road measurement of peak flow; minimum, 6.9 ft³/s (0.20 m³/s) Sept. 12, 13, 1971.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 923: 1939-40. WSP 1555: 1940(M), 1943(M), 1947(M), 1952, 1956(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	750	811	504	432	589	1,340	353	446	111	48	204
2	214	597	570	415	367	533	1,960	253	331	103	47	241
3	199	461	464	381	346	530	1,720	242	272	88	50	381
4	173	358	411	352	313	493	2,700	232	233	81	57	471
5	176	298	408	286	265	578	1,950	200	204	79	66	313
6	161	247	387	292	262	563	1,320	197	182	75	60	214
7	116	214	322	277	384	493	960	193	167	69	51	162
8	222	194	286	228	374	563	725	179	152	65	52	135
9	222	176	271	245	289	1,380	705	192	143	72	160	117
10	161	163	283	262	247	2,420	629	201	132	74	111	127
11	137	149	259	289	245	1,520	540	179	121	64	73	120
12	118	139	230	274	245	1,060	480	1,210	123	59	66	117
13	111	137	242	228	274	734	446	1,730	116	58	88	111
14	186	130	486	233	328	570	461	1,100	105	58	136	138
15	151	137	500	271	259	504	611	735	131	98	72	107
16	128	217	394	567	228	878	490	495	190	115	62	91
17	111	196	322	860	230	767	412	381	159	72	173	80
18	100	158	259	713	214	589	351	418	163	63	150	88
19	93	149	253	2,340	220	537	324	484	127	59	95	89
20	87	139	422	2,840	283	486	290	474	125	56	92	90
21	82	142	1,390	2,100	259	479	268	322	157	54	69	157
22	78	156	956	1,450	457	526	267	319	138	51	61	242
23	76	144	721	1,260	582	504	299	414	196	62	57	187
24	74	153	522	1,220	429	468	272	336	167	68	56	135
25	72	617	457	919	370	443	236	279	128	58	52	114
26	70	1,030	664	750	313	457	216	230	158	54	50	104
27	67	946	1,360	798	328	544	200	203	152	51	48	96
28	114	1,360	1,200	709	391	472	189	183	117	50	224	102
29	377	1,680	905	624	-----	780	180	310	106	52	514	110
30	697	1,220	730	548	-----	1,810	207	1,140	103	53	322	114
31	759	-----	586	493	-----	1,870	-----	727	-----	52	248	-----
TOTAL	5,552	12,457	17,071	22,728	8,934	24,140	20,748	13,911	5,044	2,124	3,410	4,757
MEAN	179	415	551	733	319	779	692	449	168	68.5	110	159
MAX	759	1,680	1,390	2,840	582	2,420	2,700	1,730	446	115	514	471
MIN	67	130	230	228	214	443	180	177	103	50	47	80
CFSM	.71	1.64	2.18	2.90	1.26	3.08	2.74	1.77	.66	.27	.43	.63
IN.	.82	1.83	2.51	3.34	1.31	3.55	3.05	2.05	.74	.31	.50	.70

CAL YR 1973 TOTAL 132,891 MEAN 364 MAX 2,030 MIN 47 CFSM 1.44 IN 19.54
WTR YR 1974 TOTAL 140,876 MEAN 386 MAX 2,840 MIN 47 CFSM 1.53 IN 20.71

PEAK DISCHARGE (BASE, 1,800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	2000	6.53	3,120	4-04	1200	6.30	2,940
3-10	1100	5.97	2,680	5-12	2400	5.20	2,120
3-31	0630	4.98	1,990				

MUSKINGUM RIVER BASIN

03118000 Middle Branch Nimishillen Creek at Canton, Ohio

LOCATION.--Lat 40°50'29", long 81°21'14", in NE 1/4 sec. 27, T.11 N., R.8 W., Stark County, on right bank at downstream side of bridge on Martindale Road, 2.4 mi (3.9 km) upstream from mouth, and 0.5 mi (0.8 km) northeast of Canton.

DRAINAGE AREA.--43.1 mi² (112 km²).

PERIOD OF RECORD.--September 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,046.60 ft (319.004 m) above mean sea level, adjustment of 1912,

AVERAGE DISCHARGE.--33 years, 32.6 ft³/s (0.923 m³/s).

EXTREMES.--Current year: Maximum discharge, 562 ft³/s (15.9 m³/s) Jan. 19, gage height, 5.34 ft (1.628 m); minimum, 9.4 ft³/s (0.27 m³/s) Oct. 8.

Period of record: Maximum discharge, 2,470 ft³/s (70.0 m³/s) Jan. 22, 1959, gage height, 6.50 ft (1.981 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.2 ft³/s (0.006 m³/s) Nov. 9, 1944, Sept. 19, 1962.

REMARKS.--Records good. Part of municipal water supply for city of Canton is pumped from its northeast well field; a large portion of pumpage is believed to be derived indirectly from creek as recharge for aquifer supplying well field. Mean pumpage for water year 1973, 12.6 ft³/s (0.36 m³/s). At times low flow regulated by small pools above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1033: 1942(M), 1943(P), 1944(M). WSP 1305: 1946(M). WSE 1143: 1948. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	95	55	42	46	110	113	65	41	41	12	35
2	17	80	45	35	43	80	287	44	33	30	12	29
3	19	56	39	34	40	82	205	55	28	22	16	39
4	14	43	37	33	37	67	178	42	25	19	75	64
5	14	35	47	29	34	87	110	38	23	22	45	35
6	12	31	51	28	34	73	84	40	22	17	24	24
7	10	27	39	28	47	55	73	36	21	17	18	21
8	42	24	35	26	40	163	66	36	20	15	26	18
9	47	23	33	26	34	300	67	55	20	15	54	16
10	25	22	31	28	30	434	64	44	19	15	38	16
11	19	21	29	28	27	239	59	40	18	15	23	16
12	16	20	27	27	28	117	54	190	19	13	19	16
13	16	20	30	26	34	79	53	100	19	13	29	19
14	30	20	53	25	43	64	55	50	19	13	30	19
15	25	23	47	34	33	61	63	38	22	71	18	15
16	19	25	35	94	30	176	52	34	26	27	16	14
17	17	22	31	181	28	131	47	34	27	17	32	13
18	15	20	30	101	27	77	43	34	22	15	34	17
19	14	19	30	401	29	72	42	30	22	15	21	16
20	14	18	78	380	36	64	39	28	24	14	22	14
21	13	22	211	155	33	63	37	30	24	12	17	16
22	13	26	81	106	61	63	38	34	24	12	15	16
23	13	22	53	120	70	79	42	32	31	16	14	14
24	13	22	43	153	48	70	39	28	27	16	15	13
25	13	71	44	84	39	63	36	26	24	15	14	12
26	13	144	123	68	35	65	34	24	43	14	12	13
27	13	77	170	80	33	101	32	22	45	13	12	13
28	44	176	98	73	43	73	32	22	27	13	26	14
29	50	167	64	66	-----	108	40	80	22	12	72	14
30	130	83	60	59	-----	241	60	100	22	13	109	12
31	100	-----	47	53	-----	177	-----	56	-----	13	53	-----
TOTAL	813	1,454	1,796	2,623	1,062	3,634	2,144	1,487	759	575	923	593
MEAN	26.2	48.5	57.9	84.6	37.9	117	71.5	48.0	25.3	18.5	29.8	19.8
MAX	130	176	211	401	70	434	287	190	45	71	109	64
MIN	10	18	27	25	27	55	32	22	18	12	12	12

CAL YR 1973 TOTAL 18,196.1 MEAN 49.9 MAX 610 MIN 8.6
WTR YR 1974 TOTAL 17,863.0 MEAN 48.9 MAX 434 MIN 10

PEAK DISCHARGE (BASE, 400 FT³/S)

Note.--No gage-height record Oct. 22 to Nov. 2,
Apr. 25 to May 30.

DATE	TIME	G. H.	DISCHARGE
1-19	2100	5.34	562
3-10	1300	5.09	492

03118500 Nimishillen Creek at North Industry, Ohio

LOCATION.--Lat 40°44'03", long 81°21'08", in sec. 35, T.10 N., R.8 W., Stark County, on left bank just downstream from railroad bridge, 1 mi (2 km) southeast of North Industry, and 3 mi (5 km) downstream from Sherrick Run.

DRAINAGE AREA.--175 mi² (453 km²).

PERIOD OF RECORD.--October 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 970.77 ft (295.891 m) above mean sea level, adjustment of 1912. Prior to Dec. 13, 1923, nonrecording gage at site 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--53 years, 171 ft³/s (4.843 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Mar. 10, gage height, 5.99 ft (1.826 m); minimum, 67 ft³/s (1.90 m³/s) Aug. 2.

Period of record: Maximum discharge, 8,600 ft³/s (244 m³/s) Jan. 21, 1959, gage height, 11.29 ft (3.441 m), from rating curve extended above 6,500 ft³/s (184 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.6 ft³/s (0.10 m³/s) Sept. 2, 1934.

REMARKS.--Records good. Low flow slightly regulated by plants at Canton. Records include diversion from Sugar Creek well field. Mean pumpage for the 1974 water year 17.6 ft³/s (0.50 m³/s). See REMARKS for station 03124500. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1113: 1924-30, 1932-37, 1938(M), 1939-40, 1943(M), 1945(P). WSP 1555: 1929, 1935, 1937(M), 1940(M), 1950(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	645	254	202	229	490	506	307	198	186	95	198
2	190	357	213	181	215	345	1,380	209	167	159	93	164
3	129	234	204	181	194	321	812	259	164	137	204	439
4	110	177	205	175	187	289	971	205	153	130	529	304
5	148	162	236	160	174	383	497	176	147	126	184	192
6	101	149	208	155	193	294	401	189	143	110	126	159
7	93	138	176	155	292	250	343	175	140	100	112	140
8	379	138	160	138	208	753	340	176	133	108	198	126
9	242	130	150	160	172	1,790	332	271	130	118	336	135
10	141	124	155	163	149	2,040	304	222	133	110	164	126
11	119	114	146	169	159	815	282	181	132	106	128	121
12	111	119	139	153	165	486	261	1,220	141	102	170	146
13	176	124	183	137	186	352	246	810	127	100	426	240
14	198	121	255	146	206	301	297	369	125	97	556	164
15	137	194	202	242	174	306	290	263	179	387	164	116
16	119	152	160	466	161	830	247	224	175	141	133	116
17	107	120	142	634	153	493	226	207	139	114	426	114
18	100	110	130	445	152	338	213	219	130	108	192	198
19	98	116	130	2,010	174	329	203	182	133	105	184	128
20	92	112	540	1,020	194	287	188	174	146	97	235	181
21	85	162	812	583	174	326	178	170	169	88	140	198
22	90	132	329	412	363	304	208	184	160	97	130	151
23	92	119	238	628	316	331	214	218	215	167	138	128
24	91	168	205	557	222	330	196	194	140	112	119	119
25	92	678	223	356	201	287	179	162	147	103	105	116
26	89	495	475	302	186	311	173	150	353	99	107	114
27	85	589	665	413	187	406	165	145	236	93	119	112
28	291	1,210	374	345	224	314	157	147	163	121	410	130
29	332	620	290	315	-----	846	162	521	142	99	538	121
30	893	350	265	277	-----	1,180	282	615	137	99	386	112
31	688	-----	232	253	-----	757	-----	260	-----	97	220	-----
TOTAL	5,773	8,059	8,096	11,533	5,610	16,884	10,253	8,804	4,797	3,816	7,067	4,808
MEAN	186	269	261	372	200	545	342	284	160	123	228	160
MAX	893	1,210	812	2,010	363	2,040	1,380	1,220	353	387	556	439
MIN	85	110	130	137	149	250	157	145	125	88	93	112

CAL YR 1973 TOTAL 94,575
WTR YR 1974 TOTAL 95,500

MEAN 259
MEAN 262

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	2200	4.38	1,570	3-10	0400	5.99	2,820	5-12	1230	4.45	1,620
1-19	1330	5.72	2,580	4-02	1030	4.61	1,730	8-13	2200	4.79	1,850

MUSKINGUM RIVER BASIN

03120500 McGuire Creek below Leesville Dam, near Leesville, Ohio

LOCATION.--Lat 40°28'13", long 81°11'48", in E 1/2 sec. 36, T.13 N., R.6 W., Carroll County, on left bank at outlet of Leesville Dam, 1.3 mi (2.1 km) upstream from mouth, and 1.4 mi (2.3 km) northeast of Leesville.

DRAINAGE AREA.--48.3 mi² (125 km²).

PERIOD OF RECORD.--October 1938 to current year. Published as McGuire Creek near Leesville 1938-39.

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 915.00 ft (278.892 m) above mean sea level. Prior to May 27, 1942, nontesting gage at site 100 ft (30 m) upstream at present datum.

AVERAGE DISCHARGE.--36 years, 51.3 ft³/s (1.453 m³/s).

EXTREMES.--Current year: Maximum discharge, 230 ft³/s (6.51 m³/s) Apr. 9, May 14, 15, gage height, 4.35 ft (1.325 m); minimum, 0.75 ft³/s (0.021 m³/s) Feb. 20, gage height, 1.93 ft (0.588 m).

Period of record: Maximum discharge, 740 ft³/s (21.0 m³/s) Mar. 4, 1940; maximum gage height, 7.88 ft (2.402 m) Mar. 4, 1940 (backwater from Conotton Creek); no flow several days during 1939-41.

REMARKS.--Records good. Flow regulated by Leesville Lake (see station 03120000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	191	120	188	198	1.6	93	54	40	8.4	6.8	122
2	7.9	189	120	85	198	1.6	114	54	32	7.9	6.3	125
3	7.7	189	150	2.1	200	1.6	132	55	25	7.7	6.6	125
4	7.3	187	169	1.8	200	1.6	118	53	20	7.3	13	125
5	10	189	169	1.7	198	1.6	142	47	18	8.4	15	124
6	10	189	167	1.7	139	1.6	184	45	15	9.6	12	151
7	9.1	187	105	15	72	1.6	182	42	14	9.1	9.6	177
8	9.1	185	66	22	72	1.6	205	38	12	8.4	16	175
9	9.1	207	66	42	72	1.6	230	43	12	7.9	17	175
10	8.4	214	43	68	72	1.6	226	44	11	7.7	13	175
11	7.9	210	20	90	93	1.7	216	42	10	7.7	10	175
12	7.3	207	13	96	101	2.0	213	91	9.4	6.8	10	175
13	7.3	149	12	68	85	2.0	211	149	8.9	6.1	10	174
14	8.9	53	43	15	52	1.9	213	205	8.4	5.6	10	174
15	8.2	33	63	7.3	39	1.9	213	230	9.1	5.5	9.1	170
16	7.5	46	63	47	33	2.0	211	222	11	4.9	8.4	132
17	6.6	55	93	98	33	1.9	203	200	10	4.2	26	85
18	6.1	55	110	146	33	1.9	198	187	10	3.7	32	73
19	5.8	50	109	63	33	1.9	116	114	9.4	3.3	21	59
20	5.5	24	80	7.3	14	1.9	73	72	10	2.8	15	53
21	5.3	13	73	7.3	1.4	69	66	69	10	2.3	11	58
22	5.0	13	93	95	1.6	88	64	65	10	1.9	9.4	60
23	4.9	13	93	196	1.5	73	61	64	17	2.1	8.6	52
24	4.6	13	93	207	1.6	73	56	61	15	2.3	7.9	42
25	64	13	111	205	1.5	73	51	54	12	2.1	7.3	35
26	100	45	154	203	1.5	73	43	46	11	1.8	6.8	28
27	73	100	171	203	1.6	73	37	39	10	1.6	12	24
28	73	70	184	202	1.6	72	33	33	9.4	1.9	87	27
29	93	70	190	202	-----	72	31	45	8.9	4.9	116	27
30	125	120	189	200	-----	83	36	51	8.4	7.5	120	24
31	168	-----	188	198	-----	122	-----	46	-----	7.3	120	-----
TOTAL	873.4	3,279	3,320	2,983.2	1,949.3	906.1	3,971	2,560	406.9	168.7	772.8	3,121
MEAN	28.2	109	107	96.2	69.6	29.2	132	82.6	13.6	5.44	24.9	104
MAX	168	214	190	207	200	122	230	230	40	9.6	120	177
MIN	4.6	13	12	1.7	1.4	1.6	31	33	8.4	1.6	6.3	24

CAL YR 1973 TOTAL 20,769.6 MEAN 56.9 MAX 214 MIN 1.2
WTR YR 1974 TOTAL 24,311.4 MEAN 66.6 MAX 230 MIN 1.4

03121500 Indian Fork below Atwood Dam, near New Cumberland, Ohio

LOCATION.--Lat 40°31'31", long 81°17'18", in SE 1/4 sec. 28, T.15 N., R.7 W., Tuscarawas County, on left bank 500 ft (152 m) downstream from Atwood Dam, 0.5 mi (0.8 km) upstream from mouth, and 1.5 mi (2.4 km) southeast of New Cumberland.

DRAINAGE AREA.--70.0 mi² (181 km²).

PERIOD OF RECORD.--October 1938 to current year. Published as Indian Fork near New Cumberland prior to 1940.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 884.00 ft (269.443 m) above mean sea level, adjustment of 1912. Prior to Aug. 28, 1943, nonrecording gage at site 250 ft (76 m) upstream at same datum.

AVERAGE DISCHARGE.--36 years, 70.9 ft³/s (2.008 m³/s).

EXTREMES.--Current year: Maximum discharge, 575 ft³/s (16.3 m³/s) Apr. 12; maximum gage height, 11.11 ft (3.386 m) Apr. 6 (backwater from Conotton Creek); minimum discharge, 0.28 ft³/s (0.008 m³/s) Feb. 19, gage height, 5.52 ft (1.801 m).

Period of record: Maximum discharge, 1,610 ft³/s (45.6 m³/s) Apr. 7, 1945; maximum gage height, 21.23 ft (6.471 m) July 12, 1969 (from floodmark in gage house), backwater from Dover Lake; minimum discharge, 0.10 ft³/s (0.003 m³/s) at times during 1939, 1944, 1946-47, 1952, 1961, 1963, 1970, 1972.

REMARKS.--Records good. Flow completely regulated by Atwood Lake (see station 03121000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	184	312	245	393	2.2	124	61	80	11	6.5	98
2	26	222	311	245	391	2.0	125	59	76	11	6.1	102
3	20	213	384	244	388	1.8	142	59	70	11	6.2	128
4	18	199	429	174	385	2.3	127	58	64	11	7.2	151
5	20	263	426	65	135	2.5	179	53	57	11	7.9	220
6	20	368	423	65	12	2.2	408	49	48	10	7.6	234
7	18	380	263	22	156	2.2	505	48	38	9.8	7.2	120
8	19	378	64	10	167	2.2	534	44	30	9.1	7.4	113
9	32	375	64	131	62	2.1	543	44	26	9.0	8.0	93
10	38	372	154	197	62	1.9	542	44	16	8.8	7.9	80
11	32	370	85	79	62	1.9	545	44	14	8.1	7.6	74
12	23	367	36	6.2	62	2.5	566	65	13	7.3	7.9	65
13	18	369	134	6.2	64	2.7	570	225	12	6.7	8.0	60
14	19	367	145	6.1	64	2.5	562	322	11	6.2	8.4	57
15	18	364	66	27	43	1.6	547	326	11	6.9	8.3	48
16	17	277	65	142	7.6	3.3	345	265	14	6.7	7.9	37
17	14	148	65	294	7.6	4.4	85	105	15	6.2	9.8	28
18	15	79	65	359	7.6	3.3	88	108	13	5.7	8.8	24
19	14	1.7	65	127	2.9	3.0	86	120	15	5.2	10	19
20	13	2.3	141	12	1.7	3.6	82	263	21	4.7	9.8	24
21	12	29	183	13	2.1	4.9	78	352	24	4.3	9.4	47
22	12	61	185	131	1.9	11	74	378	24	3.8	9.0	62
23	12	24	186	252	1.9	20	74	440	38	4.2	8.4	61
24	12	7.5	186	291	1.9	50	74	199	30	4.3	8.0	55
25	11	7.5	186	314	2.2	68	69	87	26	4.2	7.6	48
26	11	42	289	370	2.5	65	65	84	25	3.7	7.2	42
27	11	133	359	398	2.5	73	53	79	20	3.5	7.7	37
28	14	103	305	397	2.5	80	44	72	14	3.7	47	34
29	41	106	245	395	-----	84	32	77	12	5.3	55	31
30	68	267	246	393	-----	114	35	83	11	6.7	91	28
31	87	-----	246	391	-----	123	-----	83	-----	6.7	99	-----
TOTAL	703	6,079.0	6,313	5,801.5	2,490.9	743.1	7,303	4,296	868	215.8	507.8	2,220
MEAN	22.7	203	204	187	89.0	24.0	243	139	28.9	6.96	16.4	74.0
MAX	87	380	429	398	393	123	570	440	80	11	99	234
MIN	11	1.7	36	6.1	1.7	1.6	32	44	11	3.5	6.1	19

CAL YR 1973 TOTAL 34,890.7 MEAN 95.6 MAX 471 MIN 1.7
WTR YR 1974 TOTAL 37,541.1 MEAN 103 MAX 570 MIN 1.6

MUSKINGUM RIVER BASIN

03122500 Tuscarawas River below Dover Dam, near Dover, Ohio

LOCATION.--Lat 40°31'47", long 81°25'48", in T.9 N., R.2 W., Tuscarawas County, on left bank at downstream side of bridge on State Highway 416, 2.2 mi (3.5 km) downstream from Dover Dam, 1.5 mi (2.4 km) east of Dover, and 3.4 mi (5.5 km) upstream from Sugar Creek.

DRAINAGE AREA.--1,405 mi² (3,639 km²).

PERIOD OF RECORD.--October 1923 to current year. Published as Tuscarawas River near Dover 1923-39.

GAGE.--Water-stage recorder. Datum of gage is 861.51 ft (262.588 m) above mean sea level, adjustment of 1912. Prior to Aug. 30, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--51 years, 1,369 ft³/s (38.77 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,100 ft³/s (173 m³/s) Apr. 3, gage height, 7.25 ft (2.210 m); minimum, 419 ft³/s (11.9 m³/s) July 22.

Period of record: Maximum discharge, 26,400 ft³/s (748 m³/s) Jan. 26, 1937, gage height, 15.51 ft (4.727 m); minimum, 2.3 ft³/s (0.065 m³/s) July 20, 1946, Oct. 27, 1948; minimum daily, 6.5 ft³/s (0.18 m³/s) Oct. 26, 1948.

Flood in March 1913 reached a stage of about 23.5 ft (7.16 m), discharge, 62,000 ft³/s (1,760 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Diversion from basin at Portage Lakes (see REMARKS for stations 03116000 and 03117000). Records include diversion from Sugar Creek well field. Mean pumpage for the 1973 water year, 17.6 ft³/s (0.50 m³/s) (see REMARKS for station 03124500). Flow regulated by four flood-control reservoirs since 1936 at points 2.2 mi (3.5 km) to 25 mi (40 km) upstream (see stations 03119500, 03120000, 03121000, and 03122000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1933(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	788	3,020	4,210	2,540	2,920	2,120	5,270	1,890	2,390	1,060	482	2,310
2	938	2,970	3,460	2,200	2,570	2,710	5,620	1,990	1,700	1,540	454	2,280
3	986	2,350	2,490	1,870	2,360	2,640	5,680	1,690	1,380	1,210	482	2,340
4	870	1,720	2,230	1,740	2,210	2,460	4,910	1,680	1,210	898	1,050	2,920
5	818	1,470	2,210	1,410	1,990	2,490	5,880	1,460	1,060	730	850	2,640
6	863	1,470	2,170	1,320	1,600	2,720	5,820	1,340	977	683	594	2,240
7	750	1,430	1,960	1,290	1,960	2,390	5,810	1,300	922	623	503	1,750
8	677	1,390	1,450	1,080	2,350	2,410	5,840	1,280	850	573	489	1,350
9	1,210	1,340	1,270	1,120	1,900	4,330	5,830	1,390	786	566	946	1,160
10	900	1,310	1,270	1,390	1,530	5,750	5,810	1,740	754	698	1,110	1,060
11	728	1,260	1,300	1,450	1,430	5,860	5,800	1,550	722	580	850	1,020
12	656	1,230	1,060	1,350	1,440	5,970	5,700	2,640	722	566	675	1,000
13	628	1,240	1,040	1,140	1,500	5,840	5,390	5,010	706	531	730	1,100
14	833	1,170	1,570	1,100	1,650	5,370	4,350	5,240	660	496	1,290	1,220
15	878	1,100	1,790	1,190	1,640	4,720	4,010	5,210	683	675	922	1,070
16	735	1,310	1,560	2,440	1,410	4,010	3,410	5,140	993	858	706	906
17	656	1,150	1,350	3,500	1,300	4,360	2,760	3,910	954	631	1,070	810
18	621	946	1,210	3,840	1,170	3,880	2,170	3,030	850	545	1,330	770
19	607	765	1,150	5,000	1,160	3,280	1,950	2,680	770	510	922	818
20	551	750	1,420	5,200	1,350	2,660	1,730	2,290	754	489	914	818
21	530	698	3,650	5,600	1,410	2,410	1,580	2,110	842	454	738	954
22	509	862	3,940	5,650	1,640	2,560	1,500	1,910	810	426	594	1,120
23	530	840	3,160	5,720	2,520	2,520	1,670	2,200	1,020	489	552	1,020
24	523	772	2,410	5,800	2,270	2,490	1,690	2,140	1,060	580	552	866
25	523	1,610	2,060	5,780	1,850	2,370	1,520	1,640	882	510	496	770
26	586	3,210	2,620	5,700	1,600	2,270	1,400	1,370	882	482	482	714
27	635	3,370	4,130	5,560	1,490	2,590	1,350	1,220	1,250	454	524	668
28	713	4,320	4,710	5,420	1,580	2,620	1,270	1,120	1,230	440	1,130	683
29	1,480	4,720	4,300	5,310	-----	3,050	1,170	1,290	938	517	2,500	738
30	2,150	4,600	3,560	5,140	-----	5,310	1,210	3,060	818	559	3,340	714
31	2,860	-----	2,910	4,040	-----	5,330	-----	3,330	-----	531	2,880	-----
TOTAL	26,732	54,393	73,620	101,890	49,800	109,490	108,100	73,850	29,575	19,904	30,157	37,829
MEAN	862	1,813	2,375	3,287	1,779	3,532	3,603	2,382	986	642	973	1,261
MAX	2,860	4,720	4,710	5,800	2,920	5,970	5,880	5,240	2,390	1,540	3,340	2,920
MIN	509	698	1,040	1,080	1,160	2,120	1,170	1,120	660	426	454	668

CAL YR 1973 TOTAL 651,572 MEAN 1,785 MAX 5,630 MIN 388
WTR YR 1974 TOTAL 715,340 MEAN 1,960 MAX 5,970 MIN 426

03123000 Sugar Creek above Beach City Dam, at Beach City, Ohio

LOCATION.--Lat 40°39'24", long 81°34'37", in NE 1/4 sec.35, T.11 N., R.10 W., Stark County, on right bank at downstream side of Third Avenue bridge at Beach City, 2.3 mi (3.7 km) upstream from Beach City Dam.

DRAINAGE AREA.--160 mi² (414 km²).

PERIOD OF RECORD.--October 1944 to current year. Prior to May 1945 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 953.20 ft (290.535 m) above mean sea level, adjustment of 1912. Water-stage recorder for Beach City Lake (station 03123500) used as auxiliary gage for this station.

AVERAGE DISCHARGE.--30 years, 137 ft³/s (3.880 m³/s), 11.63 in/yr (295.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,300 ft³/s (65.1 m³/s) Jan. 20; maximum gage height, 9.35 ft (2.850 m) Apr. 5 (backwater from Beach City Lake); minimum discharge, 11 ft³/s (0.31 m³/s) Aug. 2.
Period of record: Maximum daily discharge, 7,960 ft³/s (225 m³/s) Jan. 22, 1959; maximum gage height, 23.76 ft (7.242 m) July 6, 1969 (backwater from Beach City Lake); minimum discharge, 1.4 ft³/s (0.040 m³/s) Aug. 27, 1952.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	260	335	172	171	335	819	180	161	44	13	134
2	73	220	204	135	155	356	1,050	128	105	39	11	141
3	79	120	174	120	141	274	1,610	126	81	35	23	166
4	56	87	152	100	121	219	1,980	130	69	32	239	267
5	53	74	176	90	95	221	1,730	95	60	31	90	137
6	58	64	169	95	121	245	1,200	89	53	29	34	84
7	44	56	128	85	167	180	700	88	52	26	29	73
8	144	52	110	75	134	190	500	79	48	24	36	61
9	260	51	104	80	100	414	400	156	48	23	409	52
10	101	46	103	85	90	1,160	300	197	46	26	648	46
11	67	43	91	90	90	1,240	272	126	41	26	213	43
12	53	42	80	80	90	578	212	396	42	21	89	46
13	48	42	84	74	92	320	190	835	42	18	68	57
14	109	42	131	89	137	219	180	727	39	17	53	70
15	95	44	129	109	98	184	267	215	41	51	43	50
16	61	75	103	440	84	388	197	132	85	44	34	40
17	50	59	79	588	79	552	157	196	72	23	258	38
18	44	49	70	562	70	344	137	487	52	18	164	37
19	39	47	75	1,020	73	241	130	433	43	17	72	36
20	37	45	140	2,080	106	208	117	266	47	16	50	38
21	35	46	438	1,030	97	184	108	208	46	14	39	57
22	34	80	278	666	181	197	106	89	47	14	32	63
23	32	70	220	488	330	219	137	100	122	15	28	47
24	33	60	133	673	193	217	124	95	85	20	27	39
25	31	253	136	417	134	186	100	78	53	18	25	39
26	30	572	406	325	108	186	92	70	52	14	23	45
27	30	450	598	342	115	335	85	63	89	13	23	45
28	43	1,010	570	400	137	289	78	58	77	12	133	50
29	82	1,200	317	320	-----	425	73	74	50	14	380	77
30	113	643	272	272	-----	1,460	98	472	46	20	409	74
31	200	-----	204	215	-----	1,440	-----	390	-----	16	204	-----
TOTAL	2,184	5,902	6,209	11,317	3,509	13,006	13,149	6,778	1,894	730	3,899	2,152
MEAN	70.5	197	200	365	125	420	438	219	63.1	23.5	126	71.7
MAX	260	1,200	598	2,080	330	1,460	1,980	835	161	51	648	267
MIN	30	42	70	74	70	180	73	58	39	12	11	36
CFSM	.44	1.23	1.25	2.28	.78	2.63	2.74	1.37	.39	.15	.79	.45
IN.	.51	1.37	1.44	2.63	.82	3.02	3.06	1.58	.44	.17	.91	.50

CAL YR 1973 TOTAL 66,532 MEAN 182 MAX 1,930 MIN 20 CFSM 1.14 IN 15.47
WTR YR 1974 TOTAL 70,729 MEAN 194 MAX 2,080 MIN 11 CFSM 1.21 IN 16.44

MUSKINGUM RIVER BASIN

03124000 Sugar Creek below Beach City Dam, near Beach City, Ohio

LOCATION.--Lat 40°38'08", long 81°33'11", in T.10 N., R.3 W., Tuscarawas County, on right bank 1,000 ft (305 m) downstream from Beach City Dam, 0.4 mi (0.6 km) downstream from South Fork, and 1.8 mi (2.9 km) southeast of Beach City.

DRAINAGE AREA.--300 mi² (777 km²).

PERIOD OF RECORD.--October 1938 to current year. Published as Sugar Creek near Beach City prior to 1940.

GAGE.--Water-stage recorder. Datum of gage is 928.00 ft (282.854 m) above mean sea level, adjustment of 1912. Prior to Mar. 23, 1939, nonrecording gage at site 500 ft (152 m) downstream at datum 1 ft (0 m) higher. Mar. 23, 1939, to Sept. 26, 1949, water-stage recorder at site 300 ft (91 m) downstream at present datum.

AVERAGE DISCHARGE.--36 years, 261 ft³/s (7.392 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,780 ft³/s (50.4 m³/s) Mar. 31, gage height, 6.24 ft (1.902 m); minimum, 24 ft³/s (0.68 m³/s) July 22, 23, 27, 28.

Period of record: Maximum discharge, 7,520 ft³/s (213 m³/s) July 6, 1969, gage height, 11.26 ft (3.432 m), from floodmark in well; no flow Oct. 7-30, 1963.

REMARKS.--Records good. Flood flow regulated by Beach City Lake (see station 03123500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 953: 1941. WRD Ohio 1969: 1968.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	358	1,460	383	394	465	1,640	95	282	122	36	612
2	131	403	807	270	345	565	1,440	130	185	75	28	533
3	166	239	419	240	318	515	1,480	148	144	60	29	542
4	118	165	336	200	280	440	1,350	170	122	55	148	700
5	95	128	331	170	228	406	1,690	169	108	57	163	572
6	100	106	324	180	206	432	1,660	167	98	60	76	335
7	80	92	258	160	361	363	1,620	138	92	51	47	232
8	139	83	214	150	414	340	1,630	117	82	44	40	182
9	368	78	196	150	285	486	1,620	116	81	42	265	148
10	219	71	188	160	207	1,210	1,600	134	77	45	646	126
11	127	65	171	170	190	1,620	1,440	117	70	42	333	114
12	92	62	152	150	190	1,030	635	118	67	38	148	106
13	77	63	149	124	210	602	432	152	67	34	104	104
14	117	62	196	153	286	419	383	649	61	32	81	112
15	148	63	218	171	243	355	435	847	68	38	65	103
16	102	96	189	613	202	554	378	302	148	55	53	85
17	80	105	154	1,050	193	935	311	178	143	42	243	76
18	67	82	119	1,010	174	710	272	182	104	33	308	71
19	57	73	110	1,230	173	499	246	318	80	30	143	67
20	53	69	138	1,330	224	422	222	576	80	28	88	70
21	50	72	624	1,580	229	382	201	1,150	94	26	65	156
22	48	107	644	1,620	309	429	195	685	114	25	52	196
23	46	109	422	1,580	614	418	229	327	215	27	45	144
24	44	98	323	1,550	474	411	214	245	172	34	44	107
25	43	311	271	1,570	347	369	183	200	55	34	40	90
26	41	1,070	463	1,540	267	360	165	165	65	29	36	82
27	40	1,070	817	962	269	510	126	145	99	26	42	76
28	48	1,350	904	799	290	515	97	129	108	25	256	73
29	119	1,510	683	661	-----	630	96	155	106	29	653	81
30	160	1,530	545	566	-----	1,590	96	437	194	82	918	83
31	296	-----	461	470	-----	1,680	-----	495	-----	61	874	-----
TOTAL	3,367	9,690	12,286	20,962	7,922	19,662	22,086	8,956	3,381	1,381	6,069	5,978
MEAN	109	323	396	676	283	634	736	289	113	44.5	196	199
MAX	368	1,530	1,460	1,620	614	1,680	1,690	1,150	282	122	918	700
MIN	40	62	110	124	173	340	96	95	55	25	28	67

CAL YR 1973 TOTAL 125,865 MEAN 345 MAX 1,930 MIN 27
WTR YR 1974 TOTAL 121,740 MEAN 334 MAX 1,690 MIN 25

MUSKINGUM RIVER BASIN

47

03124500 Sugar Creek at Strasburg, Ohio

LOCATION.--Lat 40°35'15", long 81°31'24", in NW 1/4 sec. 1, T.9 N., R.3 W., Tuscarawas County, on left bank 150 ft (46 m) upstream from bridge on State Highway 21, 0.8 mi (1.3 km) upstream from Broad Run, and 0.1 mi (0.2 km) southeast of Strasburg.

DRAINAGE AREA.--311 mi² (805 km²).

PERIOD OF RECORD.--August 1931 to March 1933, January 1935 to July 1939, October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 896.24 ft (273.174 m) above mean sea level, adjustment of 1912. July 29, 1931, to Mar. 31, 1933, and Dec. 10, 1934, to July 31, 1939, nonrecording gage, and Oct. 1, 1961, to May 26, 1964, water-stage recorder at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--17 years (1931-32, 1935-38, 1961-74), 284 ft³/s (8.043 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,190 ft³/s (62.0 m³/s) Apr. 2, gage height, 5.30 ft (1.615 m); minimum, 25 ft³/s (0.708 m³/s) July 28, 29.

Period of record: Maximum discharge, 19,700 ft³/s (558 m³/s) Aug. 7, 1935, gage height, 14.70 ft (4.481 m) (present datum), from rating curve extended above 8,400 ft³/s (238 m³/s); no flow all or part of each day Sept. 29 to Nov. 6, 1963, Sept. 20, Dec. 3, 4, 1966.

REMARKS.--Records good. Flood flow regulated by Beach City Lake 5.0 mi (8.0 km) upstream, since August 1937 (see station 03123500). Part of municipal water supply for City of Canton, starting May 1962, is pumped from well field 4.3 mi (6.9 km) upstream; pumpage is returned to Nimishillen Creek. Mean pumpage for water year 1973, 17.6 ft³/s (0.50 m³/s). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1305: 1932-33(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	430	1,640	419	477	502	1,800	117	352	165	40	801
2	134	503	1,050	324	417	654	1,680	145	226	92	30	684
3	175	314	495	281	384	613	1,770	172	174	72	28	714
4	131	221	395	250	336	536	1,450	202	147	64	128	893
5	99	150	383	226	270	482	1,820	205	128	63	199	760
6	105	120	383	200	248	512	1,790	205	116	68	94	484
7	86	100	300	180	418	442	1,750	179	107	60	55	344
8	136	90	249	160	492	404	1,760	145	97	52	43	273
9	376	85	226	155	340	534	1,750	145	92	47	223	226
10	210	80	218	170	252	1,190	1,700	165	89	50	754	194
11	110	75	194	190	180	1,700	1,590	149	76	47	447	177
12	73	70	172	160	170	1,180	796	189	76	44	172	163
13	54	75	170	144	267	715	523	207	74	38	117	158
14	74	70	221	177	332	508	459	670	69	35	89	165
15	112	80	247	217	305	428	495	996	72	35	72	167
16	112	100	210	780	249	596	459	383	145	56	55	140
17	87	121	168	1,170	235	1,040	376	221	172	46	194	125
18	76	97	127	1,120	215	840	322	221	125	36	399	117
19	66	84	138	1,420	201	592	289	340	95	32	184	112
20	60	80	163	1,410	252	508	264	609	86	30	107	116
21	60	81	681	1,650	276	460	240	1,250	97	28	76	226
22	58	112	734	1,680	340	508	226	866	132	27	58	300
23	55	125	470	1,660	694	492	258	406	205	29	48	237
24	53	114	350	1,620	578	492	258	300	255	32	47	179
25	50	364	298	1,640	420	448	223	246	65	35	43	156
26	48	1,210	543	1,610	312	428	199	205	66	32	40	140
27	46	1,300	933	1,060	321	580	160	182	102	28	43	130
28	55	1,590	1,040	912	333	608	119	160	117	26	221	125
29	121	1,730	764	774	-----	680	117	177	119	29	817	132
30	189	1,730	580	666	-----	1,640	117	484	207	72	1,160	138
31	356	-----	500	560	-----	1,800	-----	600	-----	70	1,110	-----
TOTAL	3,473	11,301	14,042	22,985	9,314	22,112	24,760	10,541	3,883	1,540	7,093	8,576
MEAN	112	377	453	741	333	713	825	340	129	49.7	229	286
MAX	376	1,730	1,640	1,680	694	1,800	1,820	1,250	352	165	1,160	893
MIN	46	70	127	144	170	404	117	117	65	26	28	112

CAL YR 1973 TOTAL 135,151 MEAN 370 MAX 1,860 MIN 29
WTR YR 1974 TOTAL 139,620 MEAN 383 MAX 1,820 MIN 26

MUSKINGUM RIVER BASIN

03125000 Home Creek near New Philadelphia, Ohio

LOCATION.--Lat 40°28'06", long 81°24'10", Tuscarawas County, on right bank 100 ft (30 m) downstream from highway bridge, 0.5 mi (0.8 km) upstream from the mouth, and 1.5 mi (2.4 km) southeast of New Philadelphia.

DRAINAGE AREA.--1.64 mi² (4.25 km²).

PERIOD OF RECORD.--December 1936 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 872.49 ft (265.935 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--37 years (1937-74), 1.24 ft³/s (0.0351 m³/s), 10.27 in/yr (260.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 98 ft³/s (2.78 m³/s) Aug. 31, gage height, 3.15 ft (0.960 m); no flow July 9, 10, 20-22.

Period of record: Maximum discharge, 378 ft³/s (10.7 m³/s) July 7, 1969, gage height, 5.77 ft (1.759 m); no flow at times in 1938-40, 1942-68, 1970-74.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1173: 1941(M). WSP 1385: 1951-53(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	2.5	1.5	1.6	1.1	1.4	9.9	1.3	.64	.10	.04	15
2	.19	.95	1.3	1.2	1.0	1.8	20	.84	.49	.07	.03	4.6
3	.11	.59	1.1	1.0	1.0	1.9	18	.96	.37	.05	.05	10
4	.05	.41	1.2	.95	.85	3.6	14	.70	.30	.06	.22	3.6
5	.09	.32	1.3	.90	1.0	3.7	6.9	.64	.27	.19	.05	1.8
6	.04	.25	.84	.85	1.8	3.4	5.5	.74	.24	.08	.03	1.3
7	.03	.21	.67	.85	6.0	3.4	4.6	.57	.22	.04	.02	.96
8	.04	.20	.64	.90	2.1	3.3	5.2	.57	.19	.04	.04	.74
9	.04	.17	.67	1.0	1.5	4.7	5.0	.80	.18	.03	1.1	.57
10	.03	.14	.64	1.3	1.2	5.1	4.1	.57	.15	.42	.14	.52
11	.02	.12	.49	1.4	1.1	4.2	4.0	.49	.12	.20	.08	.47
12	.02	.14	.49	1.1	1.2	4.2	3.8	9.3	.13	.04	.39	.42
13	.14	.15	1.1	1.1	1.5	3.6	3.6	3.5	.11	.03	.46	.52
14	.23	.15	1.2	.87	1.3	3.3	7.8	2.1	.08	.02	.32	.54
15	.07	.76	.80	5.3	1.2	3.4	3.3	1.5	.61	.01	.09	.30
16	.05	.56	.64	6.7	.96	7.7	2.1	1.1	.54	.01	.05	.24
17	.04	.29	.54	5.4	.87	4.5	1.9	3.4	.25	.01	1.5	.22
18	.04	.26	.44	4.9	.80	3.7	1.8	5.3	.18	.01	.27	.28
19	.03	.24	.47	19	1.1	3.3	1.7	2.1	.22	.01	.15	.24
20	.03	.21	8.5	6.7	1.6	2.7	1.5	1.5	.21	0	.08	1.4
21	.04	.38	6.0	5.4	1.0	3.3	1.5	1.2	.70	0	.05	2.7
22	.03	.31	2.7	3.3	4.3	3.1	1.5	1.2	.61	0	.05	1.2
23	.03	.25	1.9	6.7	2.6	2.7	1.2	1.2	2.3	.05	.03	.67
24	.02	2.3	1.6	4.3	1.7	2.7	1.0	1.6	.47	.04	.02	.52
25	.02	17	2.4	3.0	1.5	2.6	.96	.87	.27	.01	.02	.44
26	.02	4.3	4.7	2.5	1.5	3.1	1.1	.70	.25	.01	.02	.40
27	.01	5.6	7.0	2.5	1.7	2.8	.74	.57	.19	.01	.32	.30
28	1.3	9.0	3.4	2.1	1.4	2.7	.67	.47	.15	.01	14	.44
29	.56	3.6	3.1	1.9	-----	22	.67	2.7	.15	2.2	14	.57
30	7.5	2.2	2.2	1.6	-----	16	1.4	1.2	.11	.26	9.3	.35
31	2.5	-----	1.8	1.4	-----	9.6	-----	.84	-----	.07	12	-----
TOTAL	13.47	53.56	61.33	97.72	44.88	143.5	135.44	50.53	10.70	4.08	54.92	51.31
MEAN	.43	1.79	1.98	3.15	1.60	4.63	4.51	1.63	.36	.13	1.77	1.71
MAX	7.5	17	8.5	19	6.0	22	20	9.3	2.3	2.2	14	15
MIN	.01	.12	.44	.85	.80	1.4	.67	.47	.08	0	.02	.22
CFSM	.26	1.09	1.21	1.92	.98	2.82	2.75	.99	.22	.08	1.08	1.04
IN.	.31	1.21	1.39	2.22	1.02	3.26	3.07	1.15	.24	.09	1.25	1.16

CAL YR 1973 TOTAL 490.24 MEAN 1.34 MAX 17 MIN 0 CFSM .82 IN 11.12
WTR YR 1974 TOTAL 721.44 MEAN 1.98 MAX 22 MIN 0 CFSM 1.21 IN 16.36

PEAK DISCHARGE (BASE, 50 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1045	2.86	77	8-29	2245	2.93	82
1-19	0715	2.46	52	8-31	1715	3.15	98
4-03	2130	3.00	87				

03126000 Stillwater Creek at Piedmont, Ohio

LOCATION.--Lat 40°11'41", long 81°12'56", in sec. 35, T.10 N., R.6 W., Harrison County, on left bank 400 ft (122 m) downstream from outlet of Piedmont Dam and Boggs Fork, and 0.7 mi (1.1 km) northwest of Piedmont.

DRAINAGE AREA.--122 mi² (316 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to February 1939 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 872.00 ft (265.785 m) above mean sea level, adjustment of 1912. Prior to Sept. 9, 1949, at site 1,000 ft (305 m) downstream at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--36 years, 130 ft³/s (3.682 m³/s).

EXTREMES.--Current year: Maximum discharge, 466 ft³/s (13.2 m³/s) Sept. 3, gage height, 6.01 ft (1.832 m); minimum, 12 ft³/s (0.340 m³/s) July 28.

Period of record: Maximum discharge, 1,470 ft³/s (41.6 m³/s) Dec. 4, 1950; maximum gage height, 11.44 ft (3.487 m) Mar. 5, 1963; minimum discharge, 0.1 ft³/s (0.003 m³/s) Sept. 4, 1953.

REMARKS.--Records good. Flow regulated by Piedmont Lake (see station 03125500). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	42	203	302	72	47	199	135	130	117	71	270
2	20	33	248	294	50	50	346	131	117	113	60	313
3	19	26	322	202	48	49	279	146	106	103	89	384
4	21	23	396	141	70	44	351	142	98	97	149	360
5	34	22	424	72	100	49	298	134	92	94	170	260
6	26	21	422	33	161	49	240	130	85	89	125	279
7	21	20	410	28	363	48	213	128	73	82	107	354
8	20	19	404	24	356	46	288	125	60	74	150	358
9	20	19	401	35	294	45	386	129	58	64	181	383
10	20	18	400	62	272	57	332	125	38	61	127	371
11	19	18	394	116	315	50	303	120	16	73	109	376
12	18	18	389	101	364	52	286	276	17	66	104	387
13	17	18	389	50	287	46	283	306	38	55	99	388
14	17	18	207	56	162	41	281	259	50	51	93	380
15	18	55	91	137	152	41	300	267	51	47	86	357
16	17	223	84	243	82	106	356	291	70	43	79	331
17	16	279	45	297	45	92	357	193	71	39	121	326
18	16	264	23	286	41	65	275	314	66	35	106	242
19	16	257	24	254	45	68	134	261	62	29	90	132
20	15	253	78	162	65	84	114	191	66	20	78	104
21	15	231	122	147	50	197	113	232	78	17	66	125
22	15	195	74	211	60	303	119	252	99	14	61	151
23	15	193	51	329	60	299	136	244	171	18	57	134
24	15	194	44	348	50	291	129	171	163	25	54	125
25	15	334	44	387	45	177	125	124	125	20	52	121
26	15	265	113	388	44	113	123	116	117	18	50	117
27	15	192	267	384	42	109	121	107	115	15	48	113
28	20	198	302	380	41	129	121	101	109	23	86	112
29	34	185	277	389	-----	168	121	119	105	85	125	113
30	36	188	268	376	-----	229	123	135	104	121	305	111
31	43	-----	278	209	-----	228	-----	124	-----	90	226	-----
TOTAL	629	3,821	7,194	6,443	3,736	3,372	6,852	5,528	2,550	1,798	3,324	7,577
MEAN	20.3	127	232	208	133	109	228	178	85.0	58.0	107	253
MAX	43	334	424	389	364	303	386	314	171	121	305	388
MIN	15	18	23	24	41	41	113	101	16	14	48	104

CAL YR 1973 TOTAL 54,544.2 MEAN 149 MAX 477 MIN 3.8
WTR YR 1974 TOTAL 52,824.0 MEAN 145 MAX 424 MIN 14

MUSKINGUM RIVER BASIN

03127000 Stillwater Creek at Tippecanoe, Ohio

LOCATION.--Lat 40°16'13", long 81°17'26", in NW 1/4 sec. 22, T.12 N., R.7 W., Harrison County, on left bank at downstream side of highway bridge at Tippecanoe, 0.4 mi (0.6 km) downstream from Brushy Fork, 3.6 mi (5.8 km) upstream from Weaver Run, 6 mi (10 km) upstream from Laurel Creek, and 9 mi (14 km) south of Dennison.

DRAINAGE AREA.--282 mi² (730 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to January 1939 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 849.00 ft (258.775 m) above mean sea level, adjustment of 1912. Prior to Feb. 9, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 304 ft³/s (8.609 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,230 ft³/s (34.8 m³/s) Sept. 4, gage height, 11.67 ft (3.557 m); minimum, 13 ft³/s (0.37 m³/s) Oct. 28.

Period of record: Maximum discharge, 4,410 ft³/s (125 m³/s) Mar. 7, 1945, Mar. 5, 1963; maximum gage height, 17.29 ft (5.270 m) Mar. 5, 1963; minimum discharge, 1.0 ft³/s (0.028 m³/s) Oct. 3, 4, 1940.

REMARKS.--Records good. Flow regulated by Clendening Lake on Brushy Fork, 1.9 mi (3.1 km) upstream, and Piedmont Lake, 16 mi (26 km) upstream (see stations 03126500 and 03125500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	109	477	455	270	142	669	241	283	198	119	781
2	25	98	563	428	240	158	918	235	257	221	91	1,090
3	23	72	580	391	220	164	1,140	262	213	189	115	1,070
4	24	58	748	290	200	149	1,110	280	186	161	223	1,210
5	51	49	796	247	250	145	1,050	250	165	135	393	1,060
6	51	39	937	174	450	156	807	231	149	125	287	727
7	37	37	840	143	850	146	661	218	130	113	175	795
8	34	37	590	100	850	141	648	207	96	102	186	762
9	29	36	569	122	700	134	928	216	91	90	362	768
10	24	33	635	182	643	164	936	214	86	87	278	757
11	22	32	630	376	563	152	966	194	57	96	174	769
12	21	31	619	453	496	157	900	467	65	103	152	786
13	20	31	594	361	506	154	826	1,020	66	82	141	563
14	19	31	493	258	356	131	663	828	98	71	137	575
15	18	147	258	374	301	121	511	756	100	64	131	664
16	18	419	224	859	252	280	540	667	248	58	106	646
17	16	544	186	1,070	173	389	549	551	201	49	205	498
18	16	538	98	750	161	270	514	765	165	44	397	455
19	16	537	77	741	159	214	341	960	141	40	266	312
20	17	502	108	852	220	208	262	820	141	32	193	189
21	16	468	467	702	207	272	247	643	162	26	146	214
22	16	431	435	616	186	505	243	497	211	24	115	330
23	16	421	305	789	247	496	294	373	420	22	96	322
24	16	418	280	924	194	449	293	341	503	27	87	271
25	16	553	323	964	168	446	263	244	368	29	79	239
26	15	787	380	956	139	361	249	216	289	26	71	228
27	16	691	691	844	130	338	236	195	263	24	64	210
28	19	589	848	685	134	329	223	178	226	22	170	204
29	48	540	746	768	-----	403	212	207	191	49	263	207
30	63	518	601	756	-----	678	206	295	174	218	579	211
31	98	-----	447	571	-----	824	-----	278	-----	183	940	-----
TOTAL	866	8,796	15,545	17,201	9,265	8,676	17,405	12,849	5,745	2,710	6,741	16,913
MEAN	27.9	293	501	555	331	280	580	414	192	87.4	217	564
MAX	98	787	937	1,070	850	824	1,140	1,020	503	221	940	1,210
MIN	15	31	77	100	130	121	206	178	57	22	64	189

CAL YR 1973 TOTAL 124,226.8 MEAN 340 MAX 1,320 MIN 7.6
WTR YR 1974 TOTAL 122,712.0 MEAN 336 MAX 1,210 MIN 15

03127500 Stillwater Creek at Uhrichsville, Ohio

LOCATION.--Lat 40°23'10", long 81°20'50", Tuscarawas County, on left bank at concrete dam of Dennison Water Supply Co. at Uhrichsville, 2.2 mi (3.5 km) upstream from Little Stillwater Creek.

DRAINAGE AREA.--367 mi² (951 km²).

PERIOD OF RECORD.--July 1922 to current year.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 839.37 ft (255.840 m) above mean sea level, adjustment of 1912. Prior to Oct. 1, 1936, nonrecording gage at site 1.7 mi (2.7 km) upstream at same datum. Auxiliary water-stage recorder below concrete dam at datum 10.00 ft (3.048 m) lower.

AVERAGE DISCHARGE.--52 years, 420 ft³/s (11.89 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 1,700 ft³/s (48.1 m³/s) Apr. 3; maximum gage height, 3.45 ft (1.052 m) Apr. 4 (backwater from Tuscarawas River); minimum discharge, 18 ft³/s (0.510 m³/s) Oct. 18, 19; minimum gage height, 0.14 ft (0.043 m) July 22-24.

Period of record: Maximum discharge, 7,650 ft³/s (217 m³/s) Aug. 8, 9, 1935, gage height, 14.2 ft (4.33 m) at former site, 12.8 ft (3.90 m) at present site; no flow at times in 1930, 1932, 1936, 1939-40, 1953, 1973.

Flood in March 1913 reached a stage of about 17.5 ft (5.33 m) at former site, and about 15.5 ft (4.72 m) at present site.

REMARKS.--Records good. Flow regulated by Piedmont Lake, 35 mi (56 km) upstream, and Clendening Lake on Brushy Fork, 22 mi (35 km) upstream, beginning in 1938 (see stations 03125500 and 03126500). Water is diverted from Dennison water supply dam 1.7 mi (2.7 km) upstream from station for municipal supply of cities of Dennison and Uhrichsville; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 853: Drainage area. WSP 1113: 1923-24, 1926-31, 1932(M), 1933-35.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	181	600	592	536	244	1,000	480	396	232	214	1,400
2	54	166	616	560	354	274	1,200	473	389	274	145	1,200
3	38	128	672	528	304	298	1,700	438	334	262	125	1,600
4	42	91	728	438	280	292	1,600	466	292	226	262	1,600
5	48	72	809	361	256	274	1,500	424	256	190	445	1,670
6	81	58	917	280	304	286	1,200	389	226	166	417	1,260
7	69	52	944	214	720	286	1,070	354	196	150	316	1,080
8	57	46	776	130	1,100	292	899	328	160	135	250	1,070
9	52	46	656	145	950	280	1,110	334	125	120	354	1,030
10	46	43	696	190	899	438	1,220	354	110	115	410	1,030
11	38	40	704	382	752	417	1,210	322	98	115	298	1,020
12	37	40	696	568	648	361	1,140	544	74	125	226	1,030
13	29	40	704	544	640	340	1,060	1,300	82	115	202	935
14	25	37	728	410	584	298	971	1,200	86	94	178	776
15	24	52	520	431	452	262	776	1,070	125	82	172	760
16	24	320	347	953	396	417	720	935	238	74	155	854
17	23	567	292	1,220	316	664	720	800	340	67	238	696
18	21	607	196	1,000	262	568	704	908	262	60	473	608
19	21	607	115	1,000	244	445	600	1,170	220	57	417	473
20	23	591	145	1,100	286	396	431	1,080	196	50	328	322
21	25	544	608	950	354	403	375	890	208	37	256	268
22	27	513	712	850	316	640	361	752	262	30	196	375
23	29	483	520	998	403	712	396	584	403	25	155	438
24	29	475	389	1,180	382	656	431	536	648	25	135	396
25	32	665	417	1,190	316	624	396	445	552	44	120	340
26	37	950	504	1,130	262	576	361	354	424	40	106	304
27	37	900	854	1,120	232	512	340	316	361	35	98	292
28	55	800	1,050	890	232	480	322	286	328	35	172	280
29	76	700	953	899	-----	600	310	322	286	54	396	262
30	123	650	854	908	-----	1,000	304	410	250	202	744	256
31	186	-----	656	827	-----	1,200	-----	431	-----	310	1,260	-----
TOTAL	1,442	10,464	19,378	21,988	12,780	14,535	24,427	18,695	7,927	3,546	9,263	23,625
MEAN	46.5	349	625	709	456	469	814	603	264	114	299	788
MAX	186	950	1,050	1,220	1,100	1,200	1,700	1,300	648	310	1,260	1,670
MIN	21	37	115	130	232	244	304	286	74	25	98	256
(+)	1.61	1.63	1.66	1.66	1.52	1.41	1.73	1.62	1.61	1.44	1.62	1.62

CAL YR 1973 TOTAL 170,234.46 MEAN 466 MAX 1,600 MIN 0 (+) 1.67
WTR YR 1974 TOTAL 168,070.00 MEAN 460 MAX 1,700 MIN 21 (+) 1.60

+ Diversion, in cubic feet per second, for municipal supply of cities of Dennison and Uhrichsville, furnished by Dennison Water Supply Company.

MUSKINGUM RIVER BASIN

03128500 Little Stillwater Creek below Tappan Dam, at Tappan, Ohio

LOCATION.--Lat 40°21'25", long 81°13'49", in NW 1/4 sec. 4, T.13 N., R.7 W., Harrison County, on right bank 150 ft (46 m) downstream from outlet of lake at Tappan Dam, 1 mi (2 km) west of Tappan, and 2 mi (3 km) upstream from Plum Run.

DRAINAGE AREA.--71.1 mi² (184 km²).

PERIOD OF RECORD.--October 1938 to current year. Published as Little Stillwater Creek at Tappan 1938-39.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 861.00 ft (262.433 m) above mean sea level, adjustment of 1912. Prior to Jan. 30, 1939, water-stage recorder at gate house of Tappan Dam at datum 9 ft (3 m) higher. Jan. 30 to Mar. 24, 1939, nonrecording gage and Mar. 25, 1939, to Aug. 6, 1944, water-stage recorder, at site 150 ft (46 m) downstream at present datum.

AVERAGE DISCHARGE.--36 years, 73.5 ft³/s (2.082 m³/s).

EXTREMES.--Current year: Maximum discharge, 436 ft³/s (12.3 m³/s) May 15, gage height, 6.49 ft (1.978 m); minimum, 1.1 ft³/s (0.031 m³/s) several days in February and March, gage height, 4.26 ft (1.298 m).

Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Mar. 13, 1939, gage height, 10.00 ft (3.048 m); no flow Sept. 12-15, 18, 19, 21-29, Oct. 13-21, 1939.

REMARKS.--Records good. Flow completely regulated by Tappan Lake (see station 03128000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.1	183	96	112	1.8	36	57	60	29	8.2	107
2	2.0	3.4	180	228	2.0	1.8	45	62	57	23	7.9	107
3	2.0	3.4	201	294	2.0	1.9	67	63	53	19	8.2	247
4	2.0	3.4	213	189	2.0	1.9	98	64	49	17	11	357
5	2.0	3.3	210	2.0	2.0	1.9	98	63	45	15	12	353
6	2.0	3.1	210	2.0	2.0	1.9	98	62	39	14	11	349
7	2.0	3.1	210	2.0	2.0	1.6	98	60	33	12	11	349
8	2.0	3.0	207	2.0	72	1.2	183	57	27	11	11	345
9	2.0	2.8	207	2.0	10	1.2	225	57	27	10	11	345
10	2.0	2.9	204	2.0	10	1.2	222	56	23	13	11	341
11	2.0	2.9	59	2.0	224	1.3	222	53	10	17	11	329
12	2.0	2.9	2.1	2.0	345	1.3	254	71	3.1	14	11	290
13	2.0	2.8	2.1	2.0	341	1.3	272	177	1.6	12	11	168
14	2.0	2.8	2.0	62	341	1.4	272	294	1.9	11	11	52
15	2.0	126	2.0	171	85	1.4	333	395	1.9	10	11	56
16	2.0	241	2.0	207	1.7	1.4	374	400	2.0	9.1	10	55
17	2.0	276	2.0	298	1.7	1.4	361	216	39	8.2	33	52
18	2.0	268	2.0	345	1.7	1.4	317	67	60	7.9	50	49
19	1.9	237	2.0	107	2.8	1.4	174	83	56	7.5	45	47
20	2.2	198	2.0	2.1	2.0	1.1	16	180	55	7.2	35	44
21	2.4	186	2.0	2.1	2.4	1.2	22	283	50	6.2	23	47
22	2.4	186	2.0	59	2.2	1.2	32	290	47	6.2	17	50
23	2.4	183	2.0	162	2.0	1.2	41	258	59	6.5	14	48
24	2.4	183	2.0	210	2.0	1.2	42	147	62	6.5	12	44
25	2.4	183	2.0	234	2.0	1.2	42	20	59	6.5	12	39
26	2.4	183	147	254	2.0	1.2	42	25	56	6.5	11	36
27	2.6	183	275	251	2.0	1.7	41	26	53	6.2	11	30
28	2.5	183	219	309	2.0	2.1	38	26	48	6.5	41	33
29	2.5	183	96	349	-----	3.4	36	49	43	7.5	64	31
30	2.6	183	96	345	-----	7.5	41	60	36	8.7	85	28
31	2.8	-----	96	341	-----	27	-----	60	-----	8.2	96	-----
TOTAL	67.5	3,224.9	3,041.2	4,533.2	1,578.5	78.7	4,142	3,781	1,156.5	342.4	716.3	4,428
MEAN	2.18	107	98.1	146	56.4	2.54	138	122	38.6	11.0	23.1	148
MAX	2.8	276	275	349	345	27	374	400	62	29	96	357
MIN	1.9	2.8	2.0	2.0	1.7	1.1	16	20	1.6	6.2	7.9	28

CAL YR 1973 TOTAL 26,634.7 MEAN 73.0 MAX 436 MIN 1.2
WTR YR 1974 TOTAL 27,090.2 MEAN 74.2 MAX 400 MIN 1.1

03129000 Tuscarawas River at Newcomerstown, Ohio

LOCATION.--Lat 40°15'41", long 81°36'33", in T.5 N., R.3 W., Tuscarawas County, on right bank 150 ft (46 m) upstream from highway bridge 0.2 mi (0.3 km) south of Newcomerstown, 2 mi (3 km) upstream from Buckhorn Creek, and 4 mi (6 km) downstream from Dunlap Creek.

DRAINAGE AREA.--2,443 mi² (6,327 km²).

PERIOD OF RECORD.--September 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft (237.744 m) above mean sea level, adjustment of 1912. Prior to Sept. 28, 1925, and July 18, 1935, to Feb. 13, 1939, nonrecording gage, Sept. 28, 1925, to July 17, 1935, water-stage recorder at site 1.5 mi (2.4 km) upstream at datum 5.03 ft (1.533 m) higher prior to Oct. 1, 1934, and 0.03 ft (0.009 m) higher Oct. 1, 1934, to Feb. 13, 1939.

AVERAGE DISCHARGE.--53 years, 2,424 ft³/s (68.65 m³/s).

EXTREMES.--Current year: Maximum discharge, 11,500 ft³/s (326 m³/s) Apr. 4, gage height, 9.11 ft (2.777 m); minimum, 536 ft³/s (15.2 m³/s) July 22, 23.

Period of record: Maximum discharge, 46,800 ft³/s (1,330 m³/s) Jan. 26, 1937, gage height, 20.65 ft (6.294 m), site and datum then in use; minimum, 120 ft³/s (3.40 m³/s) Aug. 7, 1930; minimum daily, 170 ft³/s (4.81 m³/s) Aug. 6, 1930.

Flood in March 1913 reached a stage of about 21.5 ft (6.55 m), at site and datum used prior to Oct. 1, 1934, discharge, 83,000 ft³/s (2,350 m³/s) computed by Corps of Engineers.

REMARKS.--Records good. Diversion from basin at Portage Lakes (see REMARKS for stations 03116000 and 03117000). Flow regulated by eight flood-control reservoirs at points 40 mi (64 km) to 64 mi (103 km) upstream (see pp. 80, 81). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 728: 1929(M). WSP 873: 1935. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	928	3,790	6,880	4,130	5,360	2,570	8,950	2,420	3,970	1,450	852	5,670
2	1,040	3,700	6,130	3,660	4,020	3,540	9,920	3,050	2,940	1,820	716	6,110
3	1,190	3,210	4,630	3,370	3,530	3,810	10,700	2,920	2,380	1,940	670	5,610
4	1,130	2,290	3,920	3,090	3,270	4,200	11,200	2,750	2,060	1,540	796	6,280
5	995	1,770	3,800	2,800	3,000	3,900	10,600	2,660	1,840	1,300	1,720	6,100
6	949	1,540	3,840	2,500	2,650	4,300	10,300	2,430	1,690	1,170	1,420	5,220
7	943	1,550	3,740	2,300	3,270	4,000	9,600	2,270	1,570	1,060	1,080	4,300
8	798	1,450	3,310	2,200	4,300	3,800	9,130	2,160	1,470	962	919	3,650
9	1,160	1,380	2,660	2,100	4,290	5,000	9,340	2,120	1,350	903	1,080	3,250
10	1,490	1,310	2,500	2,000	3,430	6,000	9,440	2,320	1,260	948	2,000	3,030
11	1,080	1,270	2,540	2,200	2,910	6,500	9,300	2,510	1,190	1,020	1,970	2,910
12	878	1,230	2,240	2,100	2,700	6,800	9,030	2,970	1,130	874	1,460	2,810
13	785	1,210	2,070	2,080	2,700	6,800	8,240	6,680	1,090	861	1,230	2,770
14	818	1,200	2,370	1,860	3,000	6,500	7,330	7,210	1,050	792	1,230	2,670
15	1,080	1,170	2,780	2,080	3,080	6,200	6,520	7,580	1,070	740	1,590	2,400
16	989	1,700	2,440	3,520	2,480	6,400	5,980	7,450	1,350	1,000	1,160	2,210
17	823	1,970	2,050	5,600	2,230	6,800	5,260	6,310	1,650	989	1,270	2,080
18	735	1,870	1,780	6,710	1,980	6,500	4,450	5,230	1,580	790	2,250	1,790
19	701	1,710	1,590	8,220	1,890	5,500	3,940	4,940	1,410	707	2,100	1,690
20	633	1,530	1,620	9,870	2,030	4,600	3,380	4,490	1,330	658	1,520	1,570
21	589	1,440	3,850	8,980	2,250	3,700	2,870	4,480	1,390	615	1,390	1,680
22	562	1,470	5,680	9,040	2,400	3,880	2,700	4,470	1,460	566	1,080	1,930
23	555	1,520	4,940	8,870	3,310	4,060	2,730	3,990	1,780	556	900	2,000
24	565	1,460	3,810	9,480	3,760	4,010	2,860	3,740	2,200	658	816	1,830
25	564	2,710	3,090	9,260	3,110	3,860	2,750	3,130	2,050	662	784	1,610
26	569	5,740	3,240	9,150	2,600	3,670	2,520	2,460	1,650	628	709	1,460
27	661	6,260	5,610	9,010	2,290	3,640	2,360	2,160	1,700	583	679	1,360
28	776	7,260	7,050	8,150	2,280	3,990	2,220	1,970	1,940	564	1,230	1,290
29	1,370	7,730	6,960	7,920	-----	4,230	2,090	2,080	1,720	690	3,460	1,280
30	2,160	7,260	5,970	7,540	-----	7,730	2,010	2,950	1,450	950	5,630	1,320
31	3,450	-----	4,970	6,950	-----	9,300	-----	4,480	-----	930	6,040	-----
TOTAL	30,966	79,700	118,060	166,740	84,120	155,790	187,720	116,380	50,720	28,926	49,751	87,880
MEAN	999	2,657	3,808	5,379	3,004	5,025	6,257	3,754	1,691	933	1,605	2,929
MAX	3,450	7,730	7,050	9,870	5,360	9,300	11,200	7,580	3,970	1,940	6,040	6,280
MIN	555	1,170	1,590	1,860	1,890	2,570	2,010	1,970	1,050	556	670	1,280

CAL YR 1973 TOTAL 1,091,367 MEAN 2,990 MAX 8,940 MIN 390
WTR YR 1974 TOTAL 1,156,753 MEAN 3,169 MAX 11,200 MIN 555

MUSKINGUM RIVER BASIN

03130000 Black Fork below Charles Mill Dam, near Mifflin, Ohio

LOCATION.--Lat 40°44'16", long 82°21'48", in NE 1/4 sec. 35, T.23 N., R.17 W., Ashland County, on left bank 700 ft (213 m) downstream from Charles Mill Dam, 2.5 mi (4.0 km) south of Mifflin, and 4 mi (6 km) upstream from Rocky Fork.

DRAINAGE AREA.--217 mi² (562 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1940, published as Black Fork near Mifflin. Monthly discharge only for October 1938, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 981.56 ft (299.179 m) above mean sea level, adjustment of 1912. Dec. 3, 1941, to Dec. 5, 1944, water-stage recorder at site 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--36 years, 193 ft³/s (5.466 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,400 ft³/s (39.6 m³/s) Feb. 1, gage height, 5.90 ft (1.798 m); minimum, 11 ft³/s (0.31 m³/s) July 20, 21, 22, 23.

Period of record: Maximum discharge, 2,800 ft³/s (79.3 m³/s) Mar. 13, 1964; maximum gage height, 8.45 ft (2.576 m) Mar. 14, 1939; minimum discharge, 0.2 ft³/s (0.006 m³/s) May 21, 1940; minimum daily discharge, 0.9 ft³/s (0.025 m³/s) Apr. 21, 1940.

Flood in March 1913 reached a discharge of 11,700 ft³/s (331 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Charles Mill Lake (see station 03129500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	97	781	732	1,320	233	456	160	610	45	33	405
2	47	118	772	597	1,320	107	574	168	709	39	32	367
3	54	139	705	484	1,240	107	574	165	709	38	34	356
4	58	138	579	388	1,170	547	579	188	570	34	39	363
5	73	128	476	314	898	663	817	170	423	33	38	363
6	93	110	402	272	666	595	930	138	317	31	36	349
7	119	97	356	242	501	562	925	134	190	28	33	308
8	122	91	311	222	408	540	889	101	123	26	31	260
9	106	85	269	210	338	537	799	64	111	25	34	127
10	91	76	235	202	290	637	686	70	72	25	42	48
11	82	68	208	198	257	961	588	107	39	23	48	48
12	71	63	188	195	232	1,070	520	225	38	21	48	57
13	68	61	203	192	221	1,230	448	272	36	19	45	99
14	69	60	245	185	240	1,260	391	318	34	17	46	193
15	65	62	263	185	278	1,190	360	352	41	17	46	173
16	64	68	281	182	304	745	346	351	46	15	45	111
17	57	62	272	192	299	1,030	326	395	45	14	58	36
18	53	60	240	227	277	990	290	370	44	13	66	38
19	46	61	220	91	262	909	208	302	42	14	70	37
20	45	59	218	62	271	788	168	168	44	13	64	39
21	44	61	225	750	294	664	152	101	42	11	54	41
22	43	72	233	1,270	345	533	152	64	44	11	46	42
23	41	86	251	1,130	395	450	136	84	51	13	38	38
24	39	94	257	1,280	435	402	165	109	46	14	33	36
25	37	134	257	1,340	444	342	180	125	46	13	30	36
26	37	208	326	1,370	402	308	111	123	54	13	25	34
27	36	305	529	1,120	356	299	76	111	54	13	25	33
28	40	437	696	1,340	332	293	84	99	51	13	41	40
29	46	615	813	1,320	-----	311	121	101	49	26	84	62
30	56	754	853	593	-----	342	155	163	46	41	269	148
31	70	-----	822	653	-----	388	-----	388	-----	36	356	-----
TOTAL	1,909	4,469	12,486	17,538	13,795	19,033	12,206	5,686	4,726	694	1,889	4,287
MEAN	61.6	149	403	566	493	614	407	183	158	22.4	60.9	143
MAX	122	754	853	1,370	1,320	1,260	930	395	709	45	356	405
MIN	36	59	188	62	221	107	76	64	34	11	25	33

CAL YR 1973 TOTAL 103,328 MEAN 283 MAX 1,080 MIN 18
WTR YR 1974 TOTAL 98,718 MEAN 270 MAX 1,370 MIN 11

03130500 Touby Run at Mansfield, Ohio

LOCATION.--Lat 40°45'53", long 82°32'43", in NW 1/4 sec. 20, T.21 N., R.18 W., Richland County, on left bank 100 ft (30 m) downstream from West 4th Street Bridge at west edge of Mansfield, and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--5.44 mi² (14.1 km²).

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 1,216.42 ft (370.765 m) above mean sea level, adjustment of 1912 (levels by city of Mansfield).

AVERAGE DISCHARGE.--28 years, 5.00 ft³/s (0.142 m³/s), 12.48 in/yr (3.17.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 416 ft³/s (11.8 m³/s) July 29, gage height, 2.39 ft (0.728 m); minimum, 0.27 ft³/s (0.008 m³/s) many days in July.

Period of record: Maximum discharge, 965 ft³/s (27.3 m³/s) June 6, 1947, gage height, 4.17 ft (1.271 m), from rating curve extended above 160 ft³/s (4.53 m³/s) on the basis of slope-area measurements at gage heights 2.49 ft (0.759 m) and 4.17 ft (1.271 m) and computation of flow over dam at gage height 3.94 ft (1.201 m); no flow for part of Sept. 4, 1965, Nov. 10, 1967.

REMARKS.--Records fair except periods of no gage-height record, which are poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.2	3.4	3.4	2.9	7.8	9.0	5.2	2.2	.76	1.8	2.9
2	4.1	1.8	2.5	2.2	2.5	5.0	31	2.3	1.9	.62	2.9	1.8
3	1.4	1.4	2.1	1.8	2.1	3.9	16	2.7	1.7	.62	10	22
4	2.1	1.0	3.9	1.4	1.8	4.4	20	1.5	1.8	1.8	6.6	3.9
5	6.8	.85	7.2	1.3	2.5	15	8.4	1.3	1.8	.62	1.8	1.4
6	.97	.75	2.5	1.2	5.5	5.5	9.7	1.9	2.8	.41	1.8	1.2
7	.79	.65	1.8	1.2	10	5.5	6.1	1.2	2.0	.34	1.8	1.2
8	.77	.55	1.5	1.2	5.5	7.2	6.6	3.7	1.7	.34	2.9	1.0
9	.85	.50	1.5	1.5	4.0	41	8.4	4.8	1.3	.34	12	1.0
10	.90	.44	1.5	1.9	3.4	18	7.8	1.7	1.1	.41	1.8	1.0
11	1.0	.40	1.2	2.0	3.2	8.4	5.0	6.9	1.0	.41	1.2	1.8
12	1.2	.41	1.2	1.6	4.0	11	3.4	29	1.1	.34	1.8	18
13	11	.46	16	1.4	4.4	5.0	2.9	5.5	.90	.34	12	1.5
14	2.3	.48	9.7	1.3	3.8	3.4	3.4	2.7	.75	.27	4.0	.90
15	.99	6.1	3.4	5.0	3.2	9.0	2.1	2.0	2.0	.27	1.3	.80
16	1.0	1.5	2.1	20	2.9	27	2.1	1.5	1.1	.34	5.0	.70
17	.99	.76	1.7	14	2.5	8.4	1.8	5.3	.65	.34	36	.60
18	1.0	.62	1.5	54	2.1	5.5	1.8	4.8	.75	.34	8.0	.55
19	1.2	.76	1.8	85	15	6.6	1.5	1.6	.70	.34	4.0	2.0
20	1.2	.76	21	19	8.4	3.9	1.3	1.4	3.6	.34	2.4	6.0
21	1.0	12	9.0	32	5.0	5.5	1.4	1.1	3.4	.34	1.8	2.6
22	1.1	2.1	5.5	13	14	4.4	5.4	1.0	12	.34	.90	1.0
23	1.2	1.2	2.5	32	6.6	4.4	2.0	1.7	6.0	.62	.80	.60
24	1.3	5.5	2.5	10	4.4	6.1	1.7	1.3	4.0	.50	.80	.55
25	1.2	29	26	6.1	4.4	3.9	1.3	1.0	3.0	.41	1.0	.50
26	1.2	6.6	31	7.2	6.1	7.8	1.2	.85	3.6	.41	1.8	1.5
27	1.1	23	20	15	4.4	7.2	1.1	.70	.93	.41	6.1	13
28	4.2	38	10	12	9.7	5.0	.99	8.0	.76	.34	9.7	12
29	12	14	9.7	11	-----	20	2.2	4.0	.76	43	86	4.6
30	5.2	6.1	5.5	6.1	-----	22	10	3.0	.76	2.9	6.6	1.1
31	6.0	-----	7.2	4.4	-----	9.0	-----	2.6	-----	2.1	3.4	-----
TOTAL	88.06	166.89	216.4	369.2	144.3	296.8	175.59	112.25	66.06	60.96	238.00	107.70
MEAN	2.84	5.56	6.98	11.9	5.15	9.57	5.85	3.62	2.20	1.97	7.68	3.59
MAX	12	38	31	85	15	41	31	29	12	43	86	22
MIN	.77	.40	1.2	1.2	1.8	3.4	.99	.70	.65	.27	.80	.50
CFSM	.52	1.02	1.28	2.19	.95	1.76	1.08	.67	.40	.36	1.41	.66
IN.	.60	1.14	1.48	2.52	.99	2.03	1.20	.77	.45	.42	1.63	.74

CAL YR 1973 TOTAL 1,870.37 MEAN 5.12 MAX 72 MIN .40 CFSM .94 IN 12.79
WTR YR 1974 TOTAL 2,042.21 MEAN 5.60 MAX 86 MIN .27 CFSM 1.03 IN 13.97

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	0300	2.14	316	8-13	1745	1.92	225
7-29	1330	2.39	416	8-29	1045	2.10	300

MUSKINGUM RIVER BASIN

03131500 Black Fork at Loudonville, Ohio

LOCATION.--Lat 40°38'09", long 82°14'22", in NW 1/4 sec. 1, T.19 N., R.16 W., Ashland County, on right bank at upstream side of bridge on State Highway 3 at Loudonville, 1.5 mi (2.4 km) downstream from Big Run.

DRAINAGE AREA.--349 mi² (904 km²).

PERIOD OF RECORD.--May 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 929.16 ft (283.208 m) above mean sea level. Prior to Oct. 23, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 336 ft³/s (9.516 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,980 ft³/s (56.1 m³/s) Mar. 10, gage height, 8.70 ft (2.652 m); minimum, 90 ft³/s (2.55 m³/s) July 22, 23.

Period of record: Maximum discharge, 8,460 ft³/s (240 m³/s) July 5, 1969, gage height, 14.11 ft (4.301 m), from rating curve extended above 4,000 ft³/s (113 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 24 ft³/s (0.68 m³/s) Jan. 12, 1964.

REMARKS.--Records good. Flow regulated since 1936 by Charles Mill Lake, 16 mi (26 km) upstream from station (see station 03129500). Records include diversion from Clear Fork Reservoir which enters the Black Fork drainage as sewage effluent from the city of Mansfield (see REMARKS for station 03132000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1935. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	294	927	893	1,490	651	723	379	686	155	136	506
2	258	246	912	748	1,520	357	1,400	309	751	150	128	481
3	170	250	856	642	1,450	327	1,020	324	785	145	167	546
4	154	245	751	543	1,370	540	1,160	333	676	140	211	552
5	234	231	720	450	1,140	977	927	306	549	138	152	469
6	202	216	589	394	868	847	1,180	282	444	136	138	450
7	223	193	509	357	785	794	1,150	267	357	128	133	407
8	234	179	456	321	645	763	1,110	256	242	124	133	360
9	225	171	407	312	543	1,040	1,050	236	231	126	165	279
10	202	159	366	309	472	1,280	968	211	209	126	294	145
11	182	145	339	303	441	1,230	819	239	150	124	167	145
12	164	139	312	291	413	1,310	732	664	152	119	157	225
13	158	137	336	279	459	1,400	661	546	150	114	152	222
14	279	134	534	279	636	1,470	661	478	148	110	214	297
15	163	138	428	306	487	1,420	617	493	193	105	162	273
16	156	192	422	434	493	1,340	565	484	175	107	152	245
17	146	142	407	686	490	1,340	527	555	172	105	431	136
18	137	134	379	450	456	1,230	487	589	160	101	234	131
19	131	134	351	350	496	1,160	419	459	155	103	193	128
20	126	134	472	250	593	999	321	321	160	101	185	131
21	121	195	568	800	512	878	309	285	157	96	167	143
22	115	201	425	1,600	655	757	330	217	160	92	155	138
23	117	166	413	1,400	679	667	333	303	239	99	143	126
24	116	186	407	1,600	655	605	312	306	170	103	138	126
25	113	500	496	1,500	655	540	339	276	162	101	128	124
26	112	478	828	1,600	614	521	309	262	217	96	119	124
27	111	506	1,230	1,500	568	580	206	248	211	96	121	121
28	114	834	980	1,600	589	515	209	231	178	96	250	231
29	208	1,040	993	1,710	-----	800	220	267	170	259	689	180
30	198	943	1,050	1,270	-----	983	357	620	160	434	614	214
31	193	-----	990	540	-----	785	-----	496	-----	157	469	-----
TOTAL	5,203	8,662	18,853	23,717	20,174	28,106	19,421	11,242	8,369	4,086	6,697	7,655
MEAN	168	289	608	765	721	907	647	363	279	132	216	255
MAX	279	1,040	1,230	1,710	1,520	1,470	1,400	664	785	434	689	552
MIN	111	134	312	250	413	327	206	211	148	92	119	121

CAL YR 1973 TOTAL 176,404 MEAN 483 MAX 2,220 MIN 94
WTR YR 1974 TOTAL 162,185 MEAN 444 MAX 1,710 MIN 92

03132000 Clear Fork at Butler, Ohio

LOCATION.--Lat 40°35'37", long 82°25'20", in NE 1/4 sec.20, T.21 N., R.17 W., Richland County, on left bank at downstream side of bridge on State Highway 95, 0.3 mi (0.5 km) northeast of Butler.

DRAINAGE AREA.--136 mi² (352 km²).

PERIOD OF RECORD.--October 1944 to current year. Prior to June 1945 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,057.20 ft (322.234 m) above mean sea level.

AVERAGE DISCHARGE.--30 years, 141 ft³/s (3.993 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 3,400 ft³/s (96.3 m³/s) Jan. 19, gage height, 7.50 ft (2.286 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 24.

Period of record: Maximum discharge, 14,300 ft³/s (405 m³/s) Jan. 21, 1959, gage height, 9.43 ft (2.874 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of computed reservoir inflow; minimum, 12 ft³/s (0.34 m³/s) Sept. 12, 18, 1949.

REMARKS.--Records good. Flow regulated by Clear Fork Reservoir, capacity, 10,740 acre-ft (13.2 hm³), 16 mi (26 km) upstream from station since 1949. Water diverted from Clear Fork Reservoir for municipal supply of city of Mansfield since 1953; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1385: 1951-54. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	63	109	189	253	318	340	153	90	56	32	55
2	54	54	90	159	205	235	803	131	85	55	31	47
3	39	45	82	140	180	218	537	131	78	52	36	55
4	37	41	79	130	170	203	698	134	73	51	45	69
5	38	40	138	120	159	265	483	117	71	50	38	53
6	36	38	107	110	151	250	390	122	69	50	34	41
7	34	38	82	100	199	210	323	129	71	48	33	36
8	33	39	74	100	189	196	280	110	69	46	31	33
9	34	38	70	100	165	263	285	122	66	45	38	31
10	33	37	68	110	140	596	310	125	64	41	40	31
11	32	36	63	110	140	441	255	115	66	41	34	31
12	32	36	60	110	141	353	225	225	69	39	34	34
13	34	36	77	107	157	270	208	253	66	38	33	73
14	44	35	182	105	280	218	228	161	62	37	36	62
15	37	38	102	113	210	194	263	136	72	37	36	40
16	35	43	82	189	183	438	192	129	73	36	33	34
17	33	39	72	372	167	363	165	108	69	35	59	32
18	32	36	65	501	151	290	157	119	65	34	55	30
19	32	36	63	2,610	187	228	151	112	61	34	38	29
20	32	35	159	1,500	298	194	140	96	59	33	35	29
21	31	54	241	1,030	240	192	134	84	57	32	33	30
22	32	65	123	687	360	194	141	79	60	32	32	30
23	32	48	98	740	340	185	163	88	88	33	30	29
24	31	48	85	617	230	187	157	119	75	34	29	28
25	32	288	159	438	201	174	134	127	62	34	29	28
26	31	198	431	333	172	165	127	105	62	33	29	28
27	31	131	820	501	157	248	122	90	68	32	29	28
28	33	362	450	420	192	205	119	84	64	31	51	39
29	48	327	328	456	-----	579	117	88	60	32	120	47
30	56	153	290	353	-----	635	132	97	59	36	134	44
31	46	-----	223	298	-----	471	-----	93	-----	35	65	-----
TOTAL	1,121	2,477	5,072	12,848	5,617	8,978	7,779	3,782	2,053	1,222	1,332	1,176
MEAN	36.2	82.6	164	414	201	290	259	122	68.4	39.4	43.0	39.2
MAX	56	362	820	2,610	360	635	803	253	90	56	134	73
MIN	31	35	60	100	140	165	117	79	57	31	29	28
(+)	17.5	12.8	12.0	12.6	11.1	13.3	14.7	9.07	8.66	8.82	8.83	9.06

CAL YR 1973 TOTAL 55,957 MEAN 153 MAX 1,460 MIN 31 (+) 15.6
WTR YR 1974 TOTAL 53,457 MEAN 146 MAX 2,610 MIN 28 (+) 11.5

+ Diversion in cubic feet per second, from Clear Fork Reservoir for municipal supply; furnished by city of Mansfield.

MUSKINGUM RIVER BASIN

03133500 Clear Fork below Pleasant Hill Dam, near Perrysville, Ohio

LOCATION.--Lat 40°37'13", long 82°19'28", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, on right bank 0.2 mi (0.3 km) downstream from Pleasant Hill Dam, 2.8 mi (4.5 km) south of Perrysville, and 4.7 mi (7.6 km) upstream from the confluence of Clear Fork and Black Fork.

DRAINAGE AREA.--198 mi² (513 km²).

PERIOD OF RECORD.--October 1938 to current year. Published as Clear Fork near Perrysville prior to 1940. Monthly discharge only for October 1938, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 967.00 ft (294.741 m) above mean sea level, adjustment of 1912. Prior to May 1, 1947, water-stage recorder at site 0.5 mi (0.8 km) downstream at datum 4.88 ft (1.487 m) lower.

AVERAGE DISCHARGE.--36 years, 192 ft³/s (5.437 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,060 ft³/s (30.0 m³/s) Apr. 8, gage height, 3.32 ft (1.012 m); minimum, 27 ft³/s (0.765 m³/s) July 18.

Period of record: Maximum discharge, 2,340 ft³/s (66.3 m³/s) Jan. 23, 1959, gage height, 4.89 ft (1.490 m); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 24, 1953, Jan. 25, 26, 1972; minimum daily, 0.6 ft³/s (0.017 m³/s) Nov. 2, 4, 1938.

REMARKS.--Records good. Flow regulated by Pleasant Hill Lake (see station 03133000). See REMARKS for station 03132000 for diversion by city of Mansfield. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	82	270	378	852	264	575	245	154	64	34	94
2	73	83	209	330	804	60	605	236	134	60	35	80
3	73	78	172	478	864	61	630	233	119	58	40	82
4	65	70	149	625	936	221	645	227	106	55	44	88
5	62	67	160	620	846	271	655	209	97	54	42	82
6	55	62	171	610	555	254	745	198	92	50	40	70
7	51	56	149	600	323	227	804	195	88	48	37	63
8	48	54	131	530	302	200	918	183	87	46	38	57
9	47	52	121	274	260	200	1,030	188	87	45	44	53
10	45	49	114	195	227	200	996	183	82	44	45	49
11	43	47	105	195	190	212	852	175	75	42	43	48
12	41	47	168	195	203	346	550	285	75	48	42	58
13	44	47	166	138	215	366	378	455	70	50	40	69
14	50	47	216	104	264	281	309	419	66	45	42	70
15	50	52	224	131	316	227	378	292	78	43	38	64
16	47	57	196	209	327	316	362	227	87	38	43	57
17	42	55	197	350	288	446	299	203	80	35	52	52
18	39	53	223	433	221	442	233	200	73	34	52	48
19	36	52	223	464	188	394	245	190	69	35	48	44
20	36	50	223	762	154	295	236	168	67	34	43	44
21	36	55	224	804	129	242	221	152	66	30	38	45
22	36	70	226	864	195	254	221	141	70	32	40	45
23	36	73	225	960	157	254	242	141	99	36	38	41
24	37	74	223	960	157	260	242	150	95	34	36	37
25	37	127	223	960	295	248	224	150	85	34	37	36
26	36	266	324	966	442	239	209	138	85	35	36	35
27	36	243	660	942	505	274	198	125	82	36	37	35
28	40	312	690	948	455	288	193	112	75	35	45	43
29	53	422	580	948	-----	406	190	116	72	36	90	49
30	70	357	510	792	-----	550	215	183	67	37	125	48
31	72	-----	437	630	-----	570	-----	173	-----	35	110	-----
TOTAL	1,485	3,159	7,909	17,395	10,670	8,868	13,600	6,292	2,582	1,308	1,474	1,686
MEAN	47.9	105	255	561	381	286	453	203	86.1	42.2	47.5	56.2
MAX	73	422	690	966	936	570	1,030	455	154	64	125	94
MIN	36	47	105	104	129	60	190	112	66	30	34	35

CAL YR 1973 TOTAL 76,506 MEAN 210 MAX 1,010 MIN 30
WTR YR 1974 TOTAL 76,428 MEAN 209 MAX 1,030 MIN 30

03135000 Lake Fork below Mohicanville Dam, near Mohicanville, Ohio

LOCATION.--Lat 40°43'24", long 82°09'18", in sec. 3, T.20 N., R.15 W., Ashland County, on right bank 800 ft (244 m) downstream from Mohicanville Dam, 2 mi (3 km) east of Mohicanville, and 2.4 mi (3.9 km) downstream from the confluence of Jerome and Muddy Forks.

DRAINAGE AREA.--271 mi² (702 km²).

PERIOD OF RECORD.--October 1938 to current year. Published as Lake Fork near Mohicanville prior to 1940.

GAGE.--Water-stage recorder. Datum of gage is 930.00 ft (283.464 m) above mean sea level, adjustment of 1912. Prior to July 25, 1949, water-stage recorder at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.--36 years, 230 ft³/s (6.514 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,470 ft³/s (41.6 m³/s) Dec. 27; maximum gage height, 8.22 ft (2.505 m) Jan. 19; minimum discharge, 4.8 ft³/s (0.14 m³/s) Aug. 31.

Period of record: Maximum discharge, 5,490 ft³/s (155 m³/s) July 5, 1969, gage height, 14.32 ft (4.365 m); minimum daily discharge, 1 ft³/s (0.028 m³/s) June 10, 1947, Jan. 25, 1959.

REMARKS.--Records good. Flow regulated by Mohicanville Reservoir (see station 03134500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	404	821	372	1,070	568	631	292	266	55	21	143
2	142	303	481	268	1,100	198	1,160	202	180	59	20	128
3	134	156	360	238	1,110	204	1,120	176	137	46	36	168
4	90	114	279	190	1,110	670	495	150	117	40	56	330
5	329	93	332	170	1,090	842	679	130	104	36	38	168
6	198	79	327	150	1,060	596	1,080	130	90	35	26	99
7	93	70	220	140	944	462	1,120	123	86	32	22	72
8	96	66	176	130	593	780	862	119	79	30	34	59
9	88	61	158	130	400	1,030	599	166	79	30	222	51
10	70	56	148	130	297	1,020	649	168	70	30	252	48
11	57	51	129	130	234	1,020	492	139	66	28	80	45
12	48	51	114	120	198	1,020	380	612	66	26	56	77
13	46	52	138	110	255	1,140	306	825	60	24	41	116
14	120	54	789	110	631	1,100	316	478	56	24	141	85
15	84	53	412	166	347	1,120	359	277	83	24	96	60
16	65	79	247	481	268	1,140	270	200	82	26	51	47
17	52	66	176	1,090	242	1,130	228	192	73	24	288	42
18	47	57	160	848	204	1,110	204	234	67	24	268	38
19	44	53	127	1,220	234	1,130	186	188	59	23	99	35
20	43	52	296	835	484	1,070	164	156	60	21	62	34
21	42	77	818	625	374	828	150	141	59	20	45	37
22	41	140	438	700	602	551	162	166	58	19	35	40
23	42	103	322	754	661	459	196	252	104	23	30	34
24	42	93	238	848	424	390	178	192	82	25	28	33
25	42	472	370	955	299	311	148	154	63	24	25	32
26	45	943	1,200	995	246	321	139	128	101	22	22	31
27	47	605	1,400	991	232	529	126	114	116	21	22	32
28	57	916	1,250	984	347	393	116	102	79	19	83	59
29	97	1,050	934	977	-----	532	112	158	65	29	413	102
30	132	1,020	661	501	-----	882	166	745	56	66	682	90
31	205	-----	476	439	-----	862	-----	534	-----	26	268	-----
TOTAL	2,689	7,389	13,997	15,797	15,056	23,408	12,793	7,643	2,663	931	3,562	2,335
MEAN	86.7	246	452	510	538	755	426	247	88.8	30.0	115	77.8
MAX	329	1,050	1,400	1,220	1,110	1,140	1,160	825	266	66	682	330
MIN	41	51	114	110	198	198	112	102	56	19	20	31

CAL YR 1973 TOTAL 111,122 MEAN 304 MAX 1,400 MIN 25
WTR YR 1974 TOTAL 108,263 MEAN 297 MAX 1,400 MIN 19

MUSKINGUM RIVER BASIN

03136000 Mohican River at Greer, Ohio

LOCATION.--Lat 40°30'53", long 82°11'44", in NW 1/4 sec. 10, T.8 N., R.10 W., Knox County, on left bank 3,000 ft (914 m) downstream from bridge on State Highway 514 at Greer, 5 mi (8 km) upstream from Negro Run, and 7 mi (11 km) downstream from Lake Fork.

DRAINAGE AREA.--948 mi² (2,455 km²).

PERIOD OF RECORD.--September 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 872.91 ft (266.063 m) above mean sea level, adjustment of 1912. Prior to July 22, 1931, nonrecording gage at site 3,000 ft (914 m) upstream at same datum.

AVERAGE DISCHARGE.--53 years, 888 ft³/s (25.15 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,580 ft³/s (186 m³/s) Jan. 19, gage height, 6.66 ft (2.03 m); minimum, 164 ft³/s (4.64 m³/s) July 22, 23, 29.

Period of record: Maximum discharge, 20,500 ft³/s (581 m³/s) July 5, 1969, gage height, 14.59 ft (4.447 m); minimum, 50 ft³/s (1.42 m³/s) (estimated) Jan. 2, 1935.

Flood in March 1913 reached a stage of 27.0 ft (8.23 m), discharge, 55,000 ft³/s (1,560 m³/s) (estimated).

REMARKS.--Records good. Flow regulated by Charles Mill Lake on Black Fork, 30 mi (48 km) upstream, Pleasant Hill Lake on Clear Fork, 17 mi (27 km) upstream, and Mohicanville Reservoir on Lake Fork, 19 mi (31 km) upstream, beginning August 1936. (See stations 03129500, 03133000, and 03134500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 623: 1924 (M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	800	2,010	1,850	3,570	1,850	2,380	1,060	1,290	342	220	894
2	536	1,000	1,630	1,540	3,720	954	4,200	954	1,220	326	200	822
3	498	700	1,400	1,400	3,650	870	3,560	882	1,180	310	240	834
4	379	600	1,220	1,300	3,640	1,220	3,310	846	1,050	291	342	1,150
5	578	500	1,190	1,200	3,350	2,300	2,670	798	894	271	304	930
6	663	440	1,170	1,100	2,720	2,040	3,280	762	750	265	230	750
7	435	400	971	1,000	2,000	1,710	3,440	726	624	240	215	646
8	411	380	850	950	1,750	1,790	3,270	690	540	235	240	570
9	427	350	762	850	1,430	2,260	3,030	714	480	230	500	490
10	379	330	707	800	1,220	2,840	2,880	750	426	230	774	284
11	336	310	641	780	1,060	2,690	2,500	702	374	225	382	258
12	310	300	630	750	978	2,800	1,980	1,430	334	215	297	342
13	297	290	663	726	1,030	3,240	1,670	2,210	304	215	271	490
14	480	279	1,280	646	1,630	3,100	1,470	1,760	278	210	374	500
15	371	290	1,220	690	1,410	3,000	1,660	1,380	258	191	382	480
16	329	387	960	1,150	1,280	3,210	1,470	1,150	245	195	278	408
17	297	336	850	2,290	1,220	3,340	1,330	1,050	235	186	657	284
18	274	303	800	2,100	1,070	3,090	1,170	1,220	225	182	858	235
19	263	297	762	5,690	1,030	2,970	1,100	1,040	215	182	426	225
20	252	290	894	4,030	1,410	2,650	942	858	210	182	342	225
21	246	323	1,740	2,850	1,240	2,230	882	726	205	173	291	240
22	235	525	1,270	3,600	1,540	1,840	870	580	195	164	252	245
23	235	444	1,100	3,860	1,880	1,640	990	834	490	177	235	225
24	235	427	982	3,980	1,560	1,510	918	810	462	186	220	215
25	230	1,000	971	3,860	1,450	1,340	894	726	390	182	205	210
26	230	1,800	2,140	3,930	1,400	1,280	846	657	444	173	191	210
27	225	1,480	3,330	4,120	1,400	1,620	690	602	580	173	195	205
28	235	2,060	3,260	3,860	1,550	1,500	657	550	435	168	382	326
29	355	2,470	2,850	4,050	-----	2,260	646	602	390	177	906	326
30	536	2,240	2,470	3,450	-----	3,300	798	1,500	366	786	1,580	326
31	460	-----	2,120	1,390	-----	2,860	-----	1,490	-----	265	1,090	-----
TOTAL	11,016	21,351	42,843	69,792	51,188	69,304	55,503	30,059	15,089	7,347	13,079	13,345
MEAN	355	712	1,382	2,251	1,828	2,236	1,850	970	503	237	422	445
MAX	663	2,470	3,330	5,690	3,720	3,340	4,200	2,210	1,290	786	1,580	1,150
MIN	225	279	630	646	978	870	646	550	195	164	191	205

CAL YR 1973 TOTAL 414,932 MEAN 1,137 MAX 4,870 MIN 186
WTR YR 1974 TOTAL 399,916 MEAN 1,096 MAX 5,690 MIN 164

03136400 North Branch Kokosing River near Fredericktown, Ohio

LOCATION.--Lat 40°30'08", long 82°34'18", Knox County, on right bank at bridge on Township Road 377, 0.5 mi (0.8 km) downstream from dam for North Branch Kokosing River Lake, 2.0 mi (3.2 km) northwest of Fredericktown, and 2.7 mi (4.3 km) upstream from East Branch.

DRAINAGE AREA.--45.5 mi² (118 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1962-72, and annual maximum, water years 1963-72, July 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,092.03 ft (332.851 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 740 ft³/s (21.0 m³/s) Jan. 19, gage height, 4.70 ft (1.433 m); minimum, 1.8 ft³/s (0.051 m³/s) Aug. 26, 27.

Period of record: Maximum discharge, 6,000 ft³/s (170 m³/s) May 19, 1969, gage height, 9.95 ft (3.033 m) from rating extended above 3,700 ft³/s (105 m³/s); minimum, 1.8 ft³/s (0.051 m³/s) Aug. 26, 27, 1974.

Flood in January 1959 reached a stage of 13.4 ft (4.08 m), from floodmarks, discharge not determined.

REMARKS.--Records good. Flow partially regulated by North Branch Kokosing River Lake 0.5 mi (0.8 km) upstream (see station 03136300), since June 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	55	67	65	65	108	108	45	15	9.8	2.2	51
2	30	52	63	53	58	90	574	38	13	8.1	2.1	35
3	22	36	53	50	54	77	265	37	12	6.8	3.3	38
4	24	26	49	48	48	67	237	36	11	6.1	4.8	49
5	24	21	75	42	41	77	155	30	9.8	6.5	4.8	34
6	17	17	77	41	39	78	112	29	10	5.8	3.8	23
7	13	16	58	38	54	70	94	25	10	5.1	3.1	16
8	12	14	48	32	57	70	85	23	10	4.8	3.1	10
9	11	13	42	32	45	70	86	28	9.8	4.3	4.3	8.5
10	9.8	12	39	36	38	162	102	30	9.4	4.3	4.8	7.2
11	9.1	11	34	34	35	103	83	28	8.5	4.0	4.0	6.8
12	8.7	11	30	32	34	87	70	48	8.1	3.3	4.0	11
13	8.7	11	40	31	38	73	63	70	7.2	3.3	3.6	20
14	11	10	101	30	85	58	65	50	6.8	3.1	3.6	24
15	11	12	77	34	67	53	96	36	10	3.6	3.3	20
16	9.8	15	56	92	51	154	72	31	13	3.8	2.6	15
17	8.7	14	46	222	45	125	57	26	11	3.3	3.1	12
18	8.0	14	42	181	39	85	48	26	9.4	3.1	3.3	9.8
19	6.7	13	33	715	50	68	43	25	8.1	2.9	2.9	7.2
20	6.7	12	96	721	91	60	39	21	7.6	2.8	2.9	8.5
21	6.4	19	195	684	79	56	36	19	7.6	2.6	2.8	9.4
22	6.0	39	95	407	124	53	38	18	9.0	2.4	2.6	9.8
23	6.4	32	65	324	119	56	47	19	35	2.4	2.4	8.5
24	6.4	32	52	265	81	57	41	26	30	2.4	2.2	7.6
25	6.4	254	81	131	62	51	36	22	20	2.6	2.1	7.2
26	6.0	251	289	94	50	52	34	18	16	2.6	2.1	7.6
27	5.6	137	663	199	45	87	32	15	15	2.4	2.5	7.2
28	6.7	311	247	153	60	76	29	14	13	2.4	20	16
29	20	274	129	127	-----	264	28	15	7.6	2.6	51	19
30	42	131	108	99	-----	305	32	16	10	2.2	58	23
31	32	-----	81	78	-----	166	-----	16	-----	2.2	38	-----
TOTAL	408.1	1,865	3,131	5,090	1,654	2,958	2,807	880	362.9	121.6	253.3	521.3
MEAN	13.2	62.2	101	164	59.1	95.4	93.6	28.4	12.1	3.92	8.17	17.4
MAX	42	311	663	721	124	305	574	70	35	9.8	58	51
MIN	5.6	10	30	30	34	51	28	14	6.8	2.2	2.1	6.8

WTR YR 1974 TOTAL 20,052.2 MEAN 54.9 MAX 721 MIN 2.1

MUSKINGUM RIVER BASIN

03136500 Kokosing River at Mount Vernon, Ohio

LOCATION.--Lat 40°24'20", long 82°30'00", in sec.2, T.6 N., R.13 W., Knox County, on right bank at downstream side of Tilden Avenue Bridge at Mount Vernon, 0.8 mi (1.3 km) downstream from North Branch, and 2.7 mi (4.3 km) upstream from Dry Creek.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--February 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 984.16 ft (299.972 m) above mean sea level, levels by Corps of Engineers. Prior to Apr. 3, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--21 years, 203 ft³/s (5.749 m³/s), 13.65 in/yr (346.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,570 ft³/s (101 m³/s) Jan. 19, gage height, 6.25 ft (1.905 m); minimum, 24 ft³/s (0.68 m³/s) Aug. 26, 27.

Period of record: Maximum discharge, 38,000 ft³/s (1,080 m³/s) Jan. 21, 1959, gage height, 18.19 ft (5.544 m), from rating curve extended above 6,400 ft³/s (181 m³/s) on basis of slope-area measurement of peak flow; minimum, 12 ft³/s (0.34 m³/s) Sept. 29, 30, 1954.

REMARKS.--Records good. Some regulation by Knox Lake, capacity, 3,750 acre-ft (4.62 hm³), 8.2 mi (13.2 km) upstream on East Branch of North Branch Kokosing River beginning in 1954 and North Branch Kokosing River Lake (see station 03136300), 10.0 mi (16.1 km) upstream on North Branch Kokosing River, beginning in June 1972. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ohio, 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	262	384	303	290	380	523	178	90	108	27	163
2	165	240	296	225	250	368	2,220	158	81	80	27	124
3	126	180	254	210	230	347	1,290	156	73	68	36	116
4	117	143	237	200	210	300	1,800	156	68	62	51	158
5	135	121	323	180	195	312	855	135	63	62	45	118
6	100	104	347	160	208	325	543	124	62	57	40	86
7	82	94	257	145	318	328	431	116	65	52	36	70
8	75	89	220	135	306	357	368	112	63	49	36	60
9	70	84	201	130	220	306	376	144	60	47	40	54
10	67	78	189	140	185	528	440	149	55	45	40	49
11	63	75	173	180	170	405	350	131	51	63	40	47
12	60	74	160	168	183	389	300	238	51	66	38	57
13	62	70	181	155	208	331	267	312	51	48	36	78
14	87	69	405	155	357	270	244	211	49	44	37	85
15	85	77	325	189	291	247	306	163	70	47	36	78
16	72	102	245	469	244	646	267	140	92	45	33	62
17	63	103	207	838	222	558	227	129	80	41	41	54
18	57	93	178	603	200	372	203	133	68	38	40	48
19	54	89	167	2,790	219	328	185	122	60	36	38	45
20	53	84	324	2,350	357	294	170	106	58	36	38	48
21	53	106	764	1,610	318	276	156	97	57	33	36	54
22	52	206	416	1,170	431	267	161	94	71	32	32	58
23	52	165	298	1,040	485	279	193	105	258	33	29	51
24	52	153	240	1,130	341	276	178	112	185	34	28	45
25	50	862	295	608	276	250	154	105	124	33	26	41
26	49	1,180	887	453	236	264	142	92	106	32	25	40
27	49	856	1,840	732	224	393	133	85	95	31	25	40
28	53	1,320	1,020	668	267	337	124	78	83	29	70	51
29	133	1,120	557	518	-----	762	120	90	74	31	127	57
30	240	588	465	436	-----	1,360	129	101	74	29	180	60
31	185	-----	364	353	-----	780	-----	92	-----	28	129	-----
TOTAL	2,654	8,787	12,219	18,443	7,441	12,635	12,855	4,164	2,437	1,439	1,462	2,097
MEAN	85.6	293	394	595	266	408	429	134	81.2	46.4	47.2	69.9
MAX	240	1,320	1,840	2,790	485	1,360	2,220	312	258	108	180	163
MIN	49	69	160	130	170	247	120	78	49	28	25	40
CFSM	.42	1.45	1.95	2.95	1.32	2.02	2.12	.66	.40	.23	.23	.35
IN.	.49	1.62	2.25	3.40	1.37	2.33	2.37	.77	.45	.27	.27	.39

CAL YR 1973 TOTAL 102,303 MEAN 280 MAX 2,020 MIN 41 CFSM 1.39 IN 18.84
WTR YR 1974 TOTAL 86,633 MEAN 237 MAX 2,790 MIN 25 CFSM 1.17 IN 15.95

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	1400	4.79	2,030	04-01	1430	5.53	2,780
01-19	1900	6.25	3,570	04-04	0430	4.87	2,060

03137000 Kokosing River at Millwood, Ohio

LOCATION.--Lat 40°23'51", long 82°17'09", in SE 1/4 T.7 N., R.11 W., Knox County, on left bank 0.4 mi (0.6 km) west of Millwood, 1.5 mi (2.4 km) upstream from Honey Run, and 2.0 mi (3.2 km) downstream from Jelloway Creek.

DRAINAGE AREA.--455 mi² (1,178 km²).

PERIOD OF RECORD.--October 1921 to September 1974 (discontinued). Published as "near Millwood" October 1921 to July 1939. Records published for both sites October 1938 to July 1939.

GAGE.--Water-stage recorder. Datum of gage is 865.00 ft (263.652 m) above mean sea level. Prior to July 10, 1931, nonrecording gage at site 3.8 mi (6.1 km) downstream, and July 10, 1931, to July 31, 1939, water-stage recorder at site 3.5 mi (5.6 km) downstream at datum 23.94 ft (7.297 m) lower.

AVERAGE DISCHARGE.--53 years, 482 ft³/s (13.65 m³/s), 14.39 in/yr (365.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,480 ft³/s (212 m³/s) Jan. 19, gage height, 12.73 ft (3.880 m); minimum, 60 ft³/s (1.70 m³/s) Aug. 26.

Period of record: Maximum discharge, 75,900 ft³/s (2,150 m³/s) Jan. 21, 1959, gage height, 34.00 ft (10.363 m) (from high-water mark in well), from rating curve extended above 20,000 ft³/s (566 m³/s) on basis of slope-area measurement of peak flow; minimum, 33 ft³/s (0.93 m³/s) Aug. 17, 26, 1932, Sept. 27, 28, 1954.

Flood in March 1913 reached a stage corresponding to 22.0 ft (6.71 m) at former site and datum, discharge, 40,000 ft³/s (1,130 m³/s), estimated.

REMARKS.--Records good. Some regulation by North Branch Kokosing River Lake (see Station 03136300), 29.0 mi (46.7 km) upstream on North Branch Kokosing River, beginning June 1972. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1933, 1935. WRD Ohio, 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	634	1,080	748	780	820	1,700	373	219	228	72	248
2	415	558	843	580	680	861	5,410	354	199	202	70	233
3	281	403	699	500	570	843	3,100	387	183	170	78	216
4	258	320	627	460	500	890	4,870	358	175	152	152	245
5	267	281	786	430	450	1,100	2,480	323	165	146	109	216
6	215	248	786	400	491	1,050	1,740	306	162	144	92	173
7	182	223	608	360	797	991	1,410	289	162	133	85	144
8	168	209	513	340	748	955	1,240	283	157	126	85	128
9	161	198	469	310	583	715	1,180	395	154	121	87	116
10	152	185	439	300	477	1,210	1,210	373	146	114	92	111
11	143	175	399	406	440	991	979	326	138	138	85	106
12	136	170	369	376	410	1,010	832	531	136	149	87	121
13	137	167	395	340	486	878	742	699	131	121	83	128
14	213	164	759	347	826	792	694	513	126	106	85	149
15	191	170	663	447	673	731	710	403	162	106	78	136
16	167	223	513	1,230	564	1,780	653	347	205	106	74	121
17	148	213	430	1,860	518	1,550	564	313	186	99	106	111
18	137	196	384	1,440	464	1,110	499	337	162	94	94	101
19	129	189	354	5,300	508	943	460	303	146	90	85	97
20	125	181	803	4,480	826	803	418	267	144	87	83	111
21	121	212	1,720	2,910	726	775	391	245	146	83	78	131
22	118	317	1,040	2,330	1,050	742	414	233	154	81	74	123
23	116	299	753	2,280	1,180	699	486	264	588	85	70	111
24	115	323	598	2,380	902	684	422	273	406	87	68	104
25	114	2,220	627	1,580	742	608	373	248	283	85	66	99
26	112	2,550	1,530	1,220	612	648	347	225	261	81	64	92
27	110	2,420	2,800	1,800	569	1,010	330	208	236	78	62	90
28	118	4,090	2,060	1,650	648	884	313	196	205	74	116	121
29	283	2,640	1,320	1,390	-----	2,070	303	228	194	74	202	136
30	520	1,620	1,110	1,150	-----	3,770	326	273	183	83	280	126
31	400	-----	902	961	-----	2,290	-----	236	-----	74	222	-----
TOTAL	5,912	21,798	26,379	40,305	18,220	34,203	34,596	10,109	5,914	3,517	3,084	4,144
MEAN	191	727	851	1,300	651	1,103	1,153	326	197	113	99.5	138
MAX	520	4,090	2,800	5,300	1,180	3,770	5,410	699	588	228	280	248
MIN	110	164	354	300	410	608	303	196	126	74	62	90
CFSM	.42	1.60	1.87	2.86	1.43	2.42	2.53	.72	.43	.25	.22	.30
IN.	.48	1.78	2.16	3.30	1.49	2.80	2.83	.83	.48	.29	.25	.34

CAL YR 1973 TOTAL 243,453 MEAN 667 MAX 5,620 MIN 90 CFSM 1.47 IN 19.90
WTR YR 1974 TOTAL 208,181 MEAN 570 MAX 5,410 MIN 62 CFSM 1.25 IN 17.02

PEAK DISCHARGE (BASE, 5,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE
01-19	1600	12.73	7,480
04-02	1030	12.34	6,970
04-04	0630	11.72	6,190

MUSKINGUM RIVER BASIN

03138500 Walhonding River below Mohawk Dam, at Nellie, Ohio

LOCATION.--Lat 40°20'29", long 81°03'56", in T.6 N., R.8 W., Coshocton County, on right bank at upstream side of bridge on U.S. Highway 36 at Nellie, 0.5 mi (0.8 km) upstream from Mohawk Creek, and 1.7 mi (2.7 km) downstream from Mohawk Dam.

DRAINAGE AREA.--1,505 mi² (3,898 km²).

PERIOD OF RECORD.--December 1910 to March 1913 (gage heights and discharge measurements only), September 1921 to current year. Published as Mohican River at Pomerene 1910-13, as Walhonding River at Pomerene 1921-37, and as Walhonding River at Nellie 1938-39.

GAGE.--Water-stage recorder. Datum of gage is 790.00 ft (240.792 m) above mean sea level, adjustment of 1912. Prior to Nov. 7, 1925, nonrecording gage and Nov. 7, 1925, to Sept. 30, 1937, water-stage recorder at site 3.8 mi (6.1 km) upstream at datum 15.53 ft (4.734 m) higher. Oct. 1, 1937, to Sept. 30, 1938, nonrecording gage at present site at datum 2.09 ft (0.637 m) higher.

AVERAGE DISCHARGE.--53 years, 1,463 ft³/s (41.43 m³/s).

EXTREMES.--Current year: Maximum discharge 7,810 ft³/s (221 m³/s) Jan. 20, gage height, 11.59 ft (3.533 m); minimum, 96 ft³/s (2.72 m³/s) Dec. 6.

Period of record: Maximum discharge at site at Pomerene, 43,800 ft³/s (1,240 m³/s) Jan. 25, 1937; maximum discharge at present site since regulation began at Mohawk Dam, 24,000 ft³/s (680 m³/s) Jan. 25, 26, 1937, gage height, 18.8 ft (5.73 m), present datum, from floodmarks; minimum, 3.3 ft³/s (0.093 m³/s) Oct. 20, 1939; minimum daily discharge, 19 ft³/s (0.54 m³/s) Feb. 27, 1954.

Flood in March 1913 reached a stage of 26.9 ft (8.20 m), discharge, 102,000 ft³/s (2,890 m³/s), present site and datum, from information by Corps of Engineers.

REMARKS.--Records good. Flow regulated beginning 1936 by 5 flood-control reservoirs at points 1.7 mi (2.7 km) to 54 mi (87 km) upstream (see stations 03129500, 03133000, 03134500, 03136300, and 03138000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	467	1,230	3,910	2,950	3,680	2,650	5,940	1,380	1,590	593	323	1,180
2	819	1,650	3,110	2,450	4,560	2,310	5,310	1,440	1,480	565	297	1,100
3	893	1,220	2,590	2,200	4,930	1,900	5,200	1,320	1,420	512	297	987
4	702	978	2,260	2,000	4,520	1,860	3,930	1,300	1,270	467	436	1,280
5	687	851	2,160	1,800	4,440	3,360	5,690	1,220	1,110	443	467	1,250
6	961	764	2,270	1,700	3,500	3,400	7,240	1,130	961	430	361	970
7	695	687	1,890	1,600	3,000	2,880	7,340	1,080	876	407	318	835
8	607	628	1,590	1,500	2,600	2,820	7,140	1,040	741	389	334	741
9	614	593	1,430	1,400	2,390	3,040	7,200	1,120	665	378	356	657
10	572	559	1,320	1,300	2,000	4,180	7,030	1,260	628	372	718	532
11	519	519	1,230	1,290	1,760	4,010	6,820	1,140	572	378	702	407
12	474	486	1,100	1,240	1,590	4,050	5,120	1,510	506	395	436	413
13	449	480	1,170	1,100	1,600	4,170	2,980	3,240	499	372	384	586
14	565	474	1,770	1,100	2,310	4,160	2,500	2,720	474	345	356	607
15	672	474	2,350	1,100	2,400	3,990	2,600	2,090	506	334	493	643
16	539	552	1,720	2,510	2,050	4,750	2,430	1,660	710	318	413	565
17	480	621	1,480	3,990	1,910	5,330	2,130	1,450	636	313	384	493
18	436	545	1,370	3,990	1,740	4,680	1,870	1,550	579	297	961	372
19	413	512	1,270	5,310	1,610	4,250	1,720	1,480	525	292	657	356
20	389	499	1,410	6,940	2,160	3,900	1,540	1,270	499	287	467	350
21	378	506	3,770	6,540	2,160	3,420	1,410	1,050	506	277	407	395
22	367	733	2,960	6,470	2,370	3,000	1,380	944	506	297	361	395
23	361	835	2,270	6,430	3,380	2,590	1,560	996	1,010	262	334	372
24	361	771	1,890	6,510	2,790	2,440	1,470	1,150	1,080	277	318	342
25	356	2,240	1,740	6,470	2,360	2,180	1,360	1,070	787	277	297	330
26	345	5,180	3,280	6,570	2,240	2,070	1,270	952	695	267	282	320
27	339	4,430	5,650	6,530	2,240	2,610	1,140	876	819	262	267	316
28	356	6,290	6,040	6,410	2,210	2,670	1,040	803	718	258	345	336
29	480	6,650	4,840	6,750	-----	3,530	999	803	621	258	695	517
30	1,070	5,610	4,050	7,090	-----	6,360	1,060	1,320	579	607	2,000	459
31	987	-----	3,450	4,790	-----	6,110	-----	2,010	-----	454	1,550	-----
TOTAL	17,353	47,567	77,340	118,060	74,500	108,670	104,419	42,374	23,568	11,383	16,016	18,106
MEAN	560	1,586	2,495	3,808	2,661	3,505	3,481	1,367	786	367	517	604
MAX	1,070	6,650	6,040	7,090	4,930	6,360	7,340	3,240	1,590	607	2,000	1,280
MIN	339	474	1,100	1,100	1,590	1,860	999	803	474	258	267	316

CAL YR 1973 TOTAL 715,340 MEAN 1,960 MAX 6,720 MIN 297
WTR YR 1974 TOTAL 659,356 MEAN 1,806 MAX 7,340 MIN 258

03139000 Killbuck Creek at Killbuck, Ohio

LOCATION.--Lat 40°19'41", long 81°59'12", Holmes County, on right bank at downstream side of highway bridge at Killbuck, 0.3 mi (0.5 km) downstream from Black Creek, and 0.9 mi (1.4 km) upstream from bridge on U.S. Highway 62.

DRAINAGE AREA.--462 mi² (1,197 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder and nonrecording gage read once daily. Datum of gage is 788.05 ft (240.198 m) above mean sea level, adjustment of 1912. Prior to Oct. 1, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 393 ft³/s (11.13 m³/s), 11.55 in/yr (293.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,200 ft³/s (90.6 m³/s) Apr. 2, gage height, 15.55 ft (4.740 m); minimum, 65 ft³/s (1.84 m³/s) July 28, 29.

Period of record: Maximum discharge, 47,500 ft³/s (1,350 m³/s) July 5, 1969, gage height, 26.40 ft (8.047 m) (from floodmarks), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of peak flow; minimum, 23 ft³/s (0.65 m³/s) Sept. 10-15, 28-30, 1954.

CORRECTION.--The maximum gage height for water year 1973 is 14.91 ft; the figure published in WRD for Ohio 1973 was incorrect.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1935. WSP 1555: 1935. WSP 1907: Drainage area. WRD Ohio 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	342	1,260	762	895	720	2,010	427	379	175	71	291
2	180	371	990	562	750	780	2,810	402	279	192	72	243
3	194	284	706	477	648	800	2,700	397	236	165	82	266
4	150	213	543	426	564	756	2,610	366	213	140	145	321
5	146	200	509	351	466	726	2,520	330	204	128	106	240
6	150	172	445	300	464	716	2,230	318	193	119	83	192
7	130	154	376	270	578	692	1,880	309	182	110	76	173
8	204	148	324	265	523	645	1,620	307	173	105	102	151
9	252	139	296	270	451	740	1,420	405	170	101	462	140
10	178	131	277	279	389	1,210	1,260	421	161	99	313	134
11	140	123	255	277	369	1,470	1,080	368	153	98	169	130
12	121	120	235	263	379	1,740	925	658	159	90	139	135
13	116	120	236	249	402	1,960	794	1,050	153	86	125	147
14	180	118	310	273	484	1,830	702	910	143	81	116	143
15	165	124	357	295	424	1,520	700	828	159	87	115	123
16	141	157	320	710	423	1,490	652	694	286	91	105	109
17	127	146	255	1,010	397	1,490	573	531	224	79	160	102
18	118	135	223	873	354	1,360	511	569	187	76	175	97
19	110	127	218	2,150	357	1,260	460	435	167	74	133	96
20	105	123	271	2,800	456	1,090	418	347	163	72	112	108
21	101	135	930	2,560	451	930	382	307	162	72	101	116
22	98	175	708	2,520	636	806	376	287	163	72	96	113
23	99	176	585	2,440	830	750	432	300	336	72	96	103
24	96	176	504	2,390	742	704	408	294	245	75	97	99
25	96	700	450	2,080	641	621	361	265	206	74	90	96
26	94	1,200	678	1,740	499	609	331	243	204	73	87	99
27	95	988	1,180	1,600	450	772	312	228	274	71	88	93
28	104	2,170	1,220	1,460	494	758	300	213	236	66	270	105
29	180	2,110	1,160	1,340	-----	1,210	288	253	190	76	447	122
30	211	1,570	1,130	1,210	-----	2,620	314	426	175	97	668	108
31	243	-----	978	1,070	-----	2,470	-----	485	-----	76	331	-----
TOTAL	4,438	12,847	17,929	33,272	14,516	35,245	31,379	13,373	6,175	2,992	5,232	4,395
MEAN	143	428	578	1,073	518	1,137	1,046	431	206	96.5	169	147
MAX	252	2,170	1,260	2,800	895	2,620	2,810	1,050	379	192	668	321
MIN	94	118	218	249	354	609	288	213	143	66	71	93
CFSM	.31	.93	1.25	2.32	1.12	2.46	2.26	.93	.45	.21	.37	.32
IN.	.36	1.03	1.44	2.68	1.17	2.84	2.53	1.08	.50	.24	.42	.35

CAL YR 1973 TOTAL 194,954 MEAN 534 MAX 2,520 MIN 78 CFSM 1.16 IN 15.70
WTR YR 1974 TOTAL 181,793 MEAN 498 MAX 2,810 MIN 66 CFSM 1.08 IN 14.64

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	1900	14.80	2,460	4-02	1600	15.55	3,200
1-19	2300	15.34	2,970				

MUSKINGUM RIVER BASIN

03140000 Mill Creek near Coshocton, Ohio

LOCATION.--Lat 40°21'46", long 81°51'45", Coshocton County, on left bank 0.5 mi (0.8 km) downstream from Little Mill Creek and 6 mi (10 km) north of Coshocton.

DRAINAGE AREA.--27.2 mi² (70.4 km²).

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for October 1936, published in WSP 1305.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 782.00 ft (238.354 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--38 years, 27.3 ft³/s (0.773 m³/s), 13.63 in/yr (346.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,320 ft³/s (65.7 m³/s) Apr. 3, gage height, 11.48 ft (3.499 m); minimum, 0.26 ft³/s (0.007 m³/s) Aug. 27, gage height, 0.66 ft (0.201 m).

Period of record: Maximum discharge, 8,720 ft³/s (247 m³/s) July 5, 1969, gage height, 13.92 ft (4.243 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of slope-area measurement of peak flow; no flow Sept. 28, 29, 1954, Aug. 29-31, 1962, and part of each day Dec. 23, 31, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1143: 1946, 1947-48(P). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	38	52	35	29	30	120	19	8.4	3.2	1.0	87
2	12	21	43	29	26	34	339	14	6.9	2.6	.74	32
3	9.4	15	38	26	22	50	448	16	5.9	2.3	.98	71
4	5.3	12	34	22	19	65	560	13	5.3	2.2	4.6	34
5	12	10	36	20	16	60	158	12	4.8	3.9	2.5	19
6	5.6	8.9	28	19	24	55	114	12	4.4	2.9	1.2	14
7	4.0	7.8	23	18	88	55	91	10	4.4	2.0	.87	11
8	6.1	7.3	21	18	38	65	73	10	3.9	1.7	.82	9.4
9	5.1	6.8	20	19	27	85	68	17	3.6	1.6	1.2	7.7
10	4.0	6.1	19	20	22	80	58	13	3.2	1.6	1.8	7.1
11	3.4	5.5	16	21	19	75	50	11	2.7	1.4	.92	6.6
12	3.0	5.6	15	17	22	65	47	118	2.8	1.1	1.2	7.1
13	3.1	5.5	19	17	24	55	43	52	2.7	.92	1.2	4.8
14	10	5.1	21	17	22	55	44	33	2.4	.87	1.5	4.1
15	5.0	7.7	17	71	17	80	40	26	5.2	.87	1.2	3.8
16	3.9	14	15	112	16	140	34	21	9.7	.66	.66	3.6
17	3.3	8.2	12	97	15	80	32	19	5.7	.58	2.7	6.9
18	3.0	7.1	11	107	14	65	27	22	3.9	.55	2.5	22
19	2.7	6.9	11	414	18	55	26	16	3.2	.55	1.3	12
20	2.7	6.2	67	149	24	48	22	14	5.0	.49	.82	8.7
21	2.7	10	80	119	19	55	20	12	8.2	.43	.62	7.4
22	3.0	11	42	74	66	50	23	12	5.2	.38	.49	6.9
23	3.0	9.2	34	157	48	46	22	15	33	.52	.38	11
24	2.6	42	29	101	34	44	19	15	9.0	.82	.34	8.7
25	2.4	320	31	68	26	50	16	11	6.1	.82	.34	8.2
26	2.2	102	45	55	28	48	16	10	5.2	.62	.32	7.4
27	2.1	177	69	75	30	52	14	8.7	4.6	.46	.30	6.6
28	9.9	418	48	55	24	50	13	7.7	3.9	.38	18	6.6
29	19	130	49	49	-----	273	12	15	3.8	7.9	55	6.6
30	18	74	47	42	-----	285	14	12	3.4	7.4	67	5.7
31	18	-----	42	36	-----	155	-----	9.4	-----	1.6	23	-----
TOTAL	192.2	1,497.9	1,034	2,079	777	2,405	2,563	595.8	176.5	53.23	195.50	446.9
MEAN	6.20	49.9	33.4	67.1	27.8	77.6	85.4	19.2	5.88	1.72	6.31	14.9
MAX	19	418	80	414	88	285	560	118	33	7.9	67	87
MIN	2.1	5.1	11	17	14	30	12	7.7	2.4	.38	.30	3.6
CFSM	.23	1.83	1.23	2.47	1.02	2.85	3.14	.71	.22	.06	.23	.55
IN.	.26	2.05	1.41	2.84	1.06	3.29	3.51	.81	.24	.07	.27	.61

CAL YR 1973 TOTAL 12,323.50 MEAN 33.8 MAX 418 MIN 1.2 CFSM 1.24 IN 16.85
WTR YR 1974 TOTAL 12,016.03 MEAN 32.9 MAX 560 MIN .30 CFSM 1.21 IN 16.43

PEAK DISCHARGE (BASE, 700 FT³/S)

Note: No gage-height record Feb. 24 to Mar. 25.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1330	9.03	829	1-19	1015	8.74	763
11-28	0515	8.78	771	4-03	2345	11.48	2,320

03140500 Muskingum River near Coshocton, Ohio

LOCATION.--Lat 40°14'54", long 81°52'23", in T.5 N., R.6 W., Coshocton County, on right bank at upstream side of highway bridge, 1 mi (2 km) southwest of Coshocton, and 2 mi (3 km) downstream from confluence of Tuscarawas and Walhonding Rivers.

DRAINAGE AREA.--4,859 mi² (12,585 km²).

PERIOD OF RECORD.--July 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 730.00 ft (222.504 m) above mean sea level, adjustment of 1912. Prior to Sept. 19, 1936, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--38 years, 4,790 ft³/s (135.7 m³/s).

EXTREMES.--Current year: Maximum discharge, 25,300 ft³/s (717 m³/s) Apr. 4, gage height, 11.52 ft (3.511 m); minimum, 933 ft³/s (26.4 m³/s) July 22.

Period of record: Maximum discharge, 78,700 ft³/s (2,230 m³/s) Jan. 26, 1937, gage height, 21.98 ft (6.700 m); minimum, 342 ft³/s (9.69 m³/s) Nov. 4, 1944.

Flood in March 1913 reached a stage of about 28.8 ft (8.78 m), discharge, 202,000 ft³/s (5,720 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by 13 flood-control reservoirs at points 19 mi (31 km) to 88 mi (142 km) upstream (see pp. 80, 81). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,780	5,380	12,900	8,590	10,500	6,060	18,300	4,490	6,450	2,410	1,500	7,930
2	2,030	5,980	11,100	7,380	9,800	7,130	19,400	5,230	5,240	2,540	1,300	8,190
3	2,470	5,310	9,050	6,590	9,470	7,130	20,500	5,000	4,440	2,840	1,210	7,340
4	2,310	4,310	7,400	6,250	8,740	6,810	24,100	4,770	3,960	2,490	1,340	8,070
5	2,180	3,330	6,980	5,660	8,290	7,810	20,900	4,560	3,540	2,230	2,150	8,010
6	2,240	2,960	6,960	4,970	7,550	8,110	21,200	4,220	3,200	2,020	2,160	6,920
7	2,100	2,800	6,510	4,690	8,390	7,800	20,000	3,990	2,950	1,830	1,770	5,820
8	1,910	2,630	5,820	4,260	8,560	7,300	18,600	3,820	2,730	1,700	1,540	4,960
9	2,010	2,490	4,990	3,960	7,820	7,540	18,300	3,890	2,480	1,590	1,520	4,340
10	2,520	2,400	4,590	3,970	6,590	10,900	18,000	4,260	2,350	1,540	2,940	3,940
11	2,100	2,300	4,440	4,120	5,800	12,300	17,400	4,340	2,200	1,640	3,120	3,600
12	1,790	2,240	4,120	4,250	5,630	12,900	15,800	5,100	2,060	1,530	2,410	3,450
13	1,620	2,180	3,890	3,800	5,680	13,000	13,100	9,960	1,980	1,460	1,980	3,510
14	1,660	2,140	4,390	3,750	6,380	12,600	11,400	10,900	1,910	1,390	1,840	3,610
15	2,050	2,200	5,670	4,870	6,480	11,900	10,400	10,400	1,920	1,300	2,150	3,350
16	1,940	2,670	4,990	8,120	5,640	12,200	9,710	10,100	2,320	1,350	1,960	3,060
17	1,700	3,060	4,260	11,300	5,180	12,900	8,700	9,020	2,700	1,560	1,900	2,880
18	1,530	3,020	3,750	12,500	4,760	12,700	7,640	7,910	2,610	1,360	3,010	2,490
19	1,430	2,810	3,510	18,100	4,520	11,400	6,820	7,480	2,360	1,230	3,250	2,320
20	1,370	2,610	3,650	19,400	5,100	10,100	6,080	6,690	2,240	1,160	2,450	2,250
21	1,280	2,520	7,830	18,900	5,390	9,060	5,310	6,140	2,390	1,100	2,120	2,450
22	1,230	2,660	9,630	18,500	5,970	8,580	5,010	6,200	2,380	1,030	1,860	2,680
23	1,180	2,940	8,430	18,800	7,720	8,140	5,150	5,800	3,170	1,050	1,580	2,690
24	1,170	2,920	6,920	19,000	7,830	7,890	5,180	5,640	3,890	1,070	1,420	2,490
25	1,150	5,840	5,870	18,300	6,860	7,420	4,960	5,100	3,490	1,160	1,340	2,260
26	1,120	11,800	6,880	17,800	6,030	7,030	4,610	4,230	2,910	1,100	1,250	2,090
27	1,110	12,000	11,200	17,300	5,720	7,310	4,310	3,750	2,840	1,050	1,160	1,970
28	1,310	16,100	13,700	16,100	5,480	7,990	4,010	3,430	3,130	1,010	1,490	1,910
29	1,910	16,500	13,300	16,000	-----	8,930	3,810	3,390	2,920	1,240	2,010	2,050
30	3,100	15,300	11,600	15,600	-----	16,600	3,730	4,140	2,550	1,750	7,730	2,090
31	4,530	-----	10,100	12,700	-----	18,200	-----	6,840	-----	1,800	8,500	-----
TOTAL	57,830	151,400	224,430	335,530	191,880	305,740	352,430	180,790	89,310	48,530	73,960	118,720
MEAN	1,865	5,047	7,240	10,820	6,853	9,863	11,750	5,832	2,977	1,565	2,386	3,957
MAX	4,530	16,500	13,700	19,400	10,500	18,200	24,100	10,900	6,450	2,840	8,500	8,190
MIN	1,110	2,140	3,510	3,750	4,520	6,060	3,730	3,390	1,910	1,010	1,160	1,910

CAL YR 1973 TOTAL 2,148,410 MEAN 5,886 MAX 17,800 MIN 1,010
WTR YR 1974 TOTAL 2,130,550 MEAN 5,837 MAX 24,100 MIN 1,010

MUSKINGUM RIVER BASIN

03141500 Seneca Fork below Senecaville Dam, near Senecaville, Ohio

LOCATION.--Lat 39°55'28", long 81°26'17", Guernsey County, on left bank 650 ft (198 m) downstream from Senecaville Dam, and 1.5 mi (2.4 km) southeast of Senecaville.

DRAINAGE AREA.--118 mi² (306 km²).

PERIOD OF RECORD.--September 1938 to current year. Published as Seneca Fork near Senecaville prior to 1940.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 799.00 ft (243.535 m) above mean sea level, adjustment of 1912. Prior to Jan. 24, 1942, at site 150 ft (46 m) downstream at same datum.

AVERAGE DISCHARGE.--36 years, 126 ft³/s (3.568 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 657 ft³/s (18.6 m³/s) Sept. 26, 27, gage height, 8.38 ft (2.554 m); minimum, 0.10 ft³/s (0.003 m³/s) Feb. 7, 8, gage height, 3.80 ft (1.158 m).
Period of record: Maximum discharge, 914 ft³/s (25.9 m³/s) Apr. 7, 1964; maximum gage height, 10.35 ft (3.155 m) Feb. 1, 1949; no flow May 3, 4, 1939, Jan. 28, 29, Feb. 4, 5, Apr. 25, 1952.

REMARKS.--Records fair. Flow regulated by Senecaville Lake (see station 03141000). Water is diverted from Senecaville Lake for U. S. Fish Hatchery; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	3.4	328	137	111	6.8	160	104	252	342	113	9.5
2	2.0	2.9	323	77	84	6.8	140	106	297	555	82	6.1
3	2.4	2.9	386	70	84	6.8	94	198	302	489	53	14
4	2.2	2.6	437	146	86	6.8	11	236	204	322	58	11
5	2.6	3.0	437	102	86	6.8	125	180	160	232	206	11
6	3.4	3.2	428	57	111	6.8	515	90	108	96	295	132
7	3.4	3.4	330	97	65	6.8	623	51	86	94	295	291
8	3.4	3.4	172	81	29	6.8	593	51	67	42	169	427
9	3.5	3.4	170	68	90	6.8	116	90	47	18	74	458
10	3.4	3.4	71	212	90	6.3	158	76	46	18	36	510
11	3.4	3.5	11	116	226	6.1	427	74	35	18	24	626
12	2.9	3.7	6.9	27	474	6.1	569	74	11	18	11	624
13	2.9	3.7	6.9	95	383	6.3	407	208	3.6	18	4.5	573
14	3.0	3.9	6.9	331	180	6.6	405	369	3.6	18	3.8	23
15	3.0	111	6.9	471	163	8.0	515	364	25	18	3.1	3.8
16	2.9	217	6.9	466	123	8.5	501	362	44	9.0	2.5	378
17	2.9	195	6.9	460	123	8.5	311	232	45	2.2	2.7	445
18	2.7	195	16	457	125	8.5	174	185	43	4.5	2.7	608
19	2.7	195	31	246	125	8.0	50	1.5	49	4.5	3.0	436
20	2.9	198	48	129	54	8.0	50	320	64	4.5	3.0	464
21	3.0	204	146	274	7.3	8.0	50	623	120	4.1	2.8	169
22	2.7	209	238	459	7.0	20	71	485	104	3.4	2.7	3.6
23	2.6	204	121	459	6.8	50	160	385	1.3	3.3	2.5	281
24	2.0	204	75	497	6.8	58	202	400	1.7	2.5	2.4	605
25	2.3	235	107	533	6.8	58	198	232	137	2.2	2.4	606
26	2.7	229	107	256	6.8	58	151	151	200	2.7	2.4	632
27	2.9	229	188	172	6.8	99	82	147	244	3.0	2.4	602
28	3.0	193	206	167	6.8	160	104	147	474	3.1	56	464
29	3.0	259	165	174	-----	151	104	169	236	3.1	156	464
30	3.7	333	165	183	-----	163	106	160	230	92	137	575
31	3.4	-----	149	169	-----	160	-----	169	-----	147	38	-----
TOTAL	98.9	3,456.4	4,896.4	7,188	2,867.1	1,127.1	7,172	6,439.5	3,640.2	2,589.1	1,845.9	10,452.0
MEAN	3.19	115	158	232	102	36.4	239	208	121	83.5	59.5	348
MAX	12	333	437	533	474	163	623	623	474	555	295	632
MIN	2.0	2.6	6.9	27	6.8	6.1	11	1.5	1.3	2.2	2.4	3.6
(+)	1.35	1.83	2.23	2.48	2.51	2.90	1.93	1.02	2.03	2.66	3.01	2.99

CAL YR 1973 TOTAL 44,090.26 MEAN 121 MAX 603 MIN .96 (+) 1.97

WTR YR 1974 TOTAL 51,772.60 MEAN 142 MAX 632 MIN 1.3 (+) 2.24

+ Diversion for water supply for U.S. Fish Hatchery; furnished by Senecaville National Fish Hatchery.

03142000 Wills Creek at Cambridge, Ohio

LOCATION.--Lat 40°00'52", long 81°35'14", Guernsey County, on left bank at upstream side of bridge on Campbell Avenue in Cambridge, 0.9 mi (1.4 km) downstream from Leatherwood Creek.

DRAINAGE AREA.--406 mi² (1,052 km²).

PERIOD OF RECORD.--June 1926 to September 1928, May 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 772.34 ft (235.409 m) above mean sea level. Prior to Oct. 6, 1927, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum. Oct. 6, 1927, to Sept. 30, 1928, and May 22, 1937, to Oct. 18, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--39 years, 436 ft³/s (12.35 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Sept. 5 gage height, 13.91 ft (4.240 m); minimum, 7.3 ft³/s (0.21 m³/s) Oct. 15.

Period of record: Maximum discharge, about 8,500 ft³/s (241 m³/s) June 6 or 7, 1963; maximum gage height, 22.55 ft (6.873 m) June 6, 1963 (backwater from tributaries); minimum discharge, 0.6 ft³/s (0.017 m³/s) Oct. 6, 1960.

Flood of Aug. 8, 1935, reached a stage of 25.4 ft (7.74 m).

REMARKS.--Records fair. Flow regulated by Senecaville Lake on Seneca Fork, 22 mi (35 km) upstream, beginning in 1937 (see station 03141000). Water is diverted 2.7 mi (4.3 km) upstream from station for municipal supply of city of Cambridge; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 853: 1929(M). WSP 893: 1928. WSP 973: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	217	631	456	499	287	879	250	853	468	185	1,980
2	46	160	539	380	382	298	1,400	264	795	575	148	2,420
3	20	100	497	273	356	310	2,050	379	622	655	221	2,540
4	18	64	539	322	320	279	1,980	701	531	551	716	2,750
5	18	49	583	403	280	265	1,880	534	395	435	1,260	2,780
6	14	41	618	330	290	320	1,330	377	339	290	677	2,360
7	11	39	555	245	1,360	289	1,130	258	236	176	446	1,200
8	12	36	410	253	2,090	262	1,130	199	195	163	674	633
9	13	30	287	281	1,600	242	1,620	202	165	114	655	639
10	14	27	275	660	611	342	1,820	244	140	87	875	613
11	14	23	166	1,530	457	417	1,330	204	121	161	406	626
12	14	21	94	1,900	595	344	1,040	474	103	274	217	690
13	11	21	92	1,240	814	324	1,000	1,400	85	108	210	712
14	10	22	163	651	705	249	872	1,230	70	83	137	1,190
15	8.0	48	208	814	498	222	868	778	81	74	115	1,330
16	10	390	150	1,060	402	466	883	639	137	70	92	650
17	11	458	123	979	345	749	784	679	160	61	136	655
18	10	348	92	848	319	465	586	1,600	118	47	145	624
19	10	316	101	1,080	309	360	393	2,070	114	47	111	694
20	12	300	131	1,490	489	329	254	1,530	217	65	91	602
21	9.9	294	581	1,180	453	371	227	894	1,560	65	69	974
22	9.9	289	631	1,210	362	876	225	886	2,550	50	58	1,390
23	15	285	493	1,120	503	626	485	782	2,310	41	63	1,120
24	17	287	324	1,190	402	475	608	789	2,320	41	59	749
25	21	819	263	1,080	326	416	487	681	2,060	42	55	800
26	26	1,720	361	947	258	359	435	412	1,560	43	57	765
27	28	1,600	797	705	234	331	341	312	1,370	50	71	760
28	51	1,440	922	605	244	352	250	284	974	65	208	701
29	123	1,450	607	788	-----	501	246	391	727	108	356	615
30	236	861	562	729	-----	831	235	1,030	523	483	1,180	611
31	422	-----	506	602	-----	1,100	-----	991	-----	276	1,880	-----
TOTAL	1,298.8	11,755	12,301	25,351	15,503	13,057	26,768	21,464	21,431	5,768	11,573	34,173
MEAN	41.9	392	397	818	554	421	892	692	714	186	373	1,139
MAX	422	1,720	922	1,900	2,090	1,100	2,050	2,070	2,550	655	1,880	2,780
MIN	8.0	21	92	245	234	222	225	199	70	41	55	602
(+)	5.18	4.59	4.45	4.84	4.20	4.33	3.80	4.67	5.02	5.44	5.39	5.02

CAL YR 1973 TOTAL 156,759.5 MEAN 429 MAX 2,340 MIN 8.0 (+) 5.01
WTR YR 1974 TOTAL 200,442.8 MEAN 549 MAX 2,780 MIN 8.0 (+) 4.75

+ Diversion in cubic feet per second; furnished by city of Cambridge.

MUSKINGUM RIVER BASIN

03142295 Salt Fork below Salt Fork Dam, near Cambridge, Ohio

LOCATION.--Lat 40°06'15", long 81°33'15", T.3 N., R.3 W., Guernsey County, at outlet works near left end of Salt Fork Dam, 0.8 mi (1.3 km) upstream from the mouth and 5.0 mi (8.0 km) north of Cambridge.

DRAINAGE AREA.--159 mi² (412 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and morning-glory spillway control. Datum of gage is 700.00 ft (213.360 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Same gage and elevations as Salt Fork Reservoir (station 03142290).

EXTREMES.--Current year: Maximum discharge, 960 ft³/s (27.2 m³/s) Sept. 4, 5, elevation, 803.75 ft (244.983 m); no flow many days in October.

Period of record: Maximum discharge, 960 ft³/s (27.2 m³/s) Sept. 4, 5, 1974, elevation, 803.75 ft (244.983 m); no flow at times in 1970-71, 1974.

REMARKS.--Records good except those below 10 ft³/s (0.283 m³/s), which are fair and those for no gage-height record which poor. Flow completely regulated by Salt Fork Reservoir (see station 03142290). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	22	403	210	298	179	346	135	272	212	25	457
2	.55	22	370	208	272	181	498	135	252	190	22	705
3	.55	22	313	192	260	185	604	137	230	175	37	824
4	.36	22	285	185	235	183	712	125	215	159	53	944
5	0	22	252	181	210	179	740	127	198	141	65	948
6	0	18	210	171	198	177	726	117	181	129	65	888
7	0	16	198	159	302	175	684	119	157	117	68	752
8	0	17	185	137	415	177	600	106	133	104	77	646
9	.36	16	169	125	433	173	618	104	119	92	77	562
10	.36	13	141	147	415	177	638	102	104	83	72	467
11	.21	10	117	167	325	177	614	101	90	77	66	415
12	0	10	116	240	334	181	562	149	82	69	64	352
13	0	14	116	302	310	169	509	248	74	64	58	310
14	0	12	110	292	275	165	454	295	68	55	57	302
15	0	20	114	295	272	159	397	288	66	52	53	292
16	0	33	106	300	245	175	388	272	74	43	52	288
17	0	45	93	302	242	198	361	268	74	38	74	268
18	0	45	101	308	179	252	325	442	71	34	80	232
19	0	45	108	319	177	268	295	526	71	32	82	208
20	0	44	110	484	181	245	270	530	82	28	80	188
21	0	44	133	467	185	242	240	512	131	24	74	179
22	0	41	161	488	205	278	220	451	169	20	68	175
23	0	39	171	498	222	280	202	400	250	26	61	171
24	0	40	175	481	225	272	190	355	305	24	58	171
25	0	108	169	442	225	265	185	310	322	18	52	161
26	0	282	181	421	218	252	185	280	319	18	48	149
27	0	370	202	406	188	245	175	235	302	16	48	141
28	0	436	240	370	181	240	155	220	278	16	59	129
29	1.7	460	248	364	-----	250	137	225	250	20	72	108
30	9.4	442	230	355	-----	298	135	250	222	29	212	93
31	18	-----	220	331	-----	343	-----	258	-----	28	337	-----
TOTAL	31.50	2,730	5,747	9,347	7,227	6,740	12,165	7,822	5,161	2,133	2,316	11,525
MEAN	1.02	91.0	185	302	258	217	406	252	172	68.8	74.7	384
MAX	18	460	403	498	433	343	740	530	322	212	337	948
MIN	0	10	93	125	177	159	135	101	66	16	22	93

CAL YR 1973 TOTAL 61,157.17 MEAN 168 MAX 632 MIN 0
WTR YR 1974 TOTAL 72,944.50 MEAN 200 MAX 948 MIN 0

Note: No gage height record Dec. 17 to Feb. 6, Feb. 9-26, Mar. 7-22.

03143500 Wills Creek below Wills Creek Dam, at Wills Creek, Ohio

LOCATION.--Lat 40°09'34", long 81°50'51", in sec. 22, T.4 N., R.6 W., Coshocton County, on left bank 1,200 ft (366 m) downstream from Wills Creek Dam, 1.3 mi (2.1 km) southeast of town of Wills Creek, 2.7 mi (4.3 km) southeast of Conesville, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--842 mi² (2,181 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1939, published as Wills Creek at Wills Creek.

GAGE.--Water-stage recorder. Datum of gage is 717.00 ft (218.542 m) above mean sea level, adjustment of 1912. Prior to Feb. 18, 1939, nonrecording gage and Feb. 18, 1939, to Sept. 30, 1949, water-stage recorder, at site 1,500 ft (457 m) downstream at same datum.

AVERAGE DISCHARGE.--36 years, 890 ft³/s (25.20 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,540 ft³/s (129 m³/s) Apr. 12, gage height, 13.97 ft (4.258 m); minimum, 32 ft³/s (0.906 m³/s) Oct. 22, 23, 25.

Period of record: Maximum discharge, 6,930 ft³/s (196 m³/s) Mar. 7, 1940; maximum gage height, 17.50 ft (5.334 m) Mar. 22, 1964 (backwater from Muskingum river); minimum daily discharge, 1 ft³/s (0.028 m³/s) Aug. 10, Oct. 27-29, 1948, Jan. 28, 1952, July 6-9, 1969, Apr. 3, 1970.

Flood in March 1913 reached a discharge of 22,300 ft³/s (632 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Senecaville Lake on Seneca Fork, 80 mi (129 km) upstream, Salt Fork Reservoir, 43 mi (69 km) upstream, and Wills Creek Lake, 0.2 mi (0.3 km) upstream (see stations 03141000, 03142290, and 03143000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	657	3,170	1,210	1,510	751	2,690	665	1,730	1,140	343	2,940
2	100	678	2,750	1,070	1,300	765	2,850	668	1,580	956	341	3,690
3	108	536	1,650	945	1,130	800	3,080	686	1,420	869	293	3,910
4	102	410	1,210	837	988	815	2,070	725	1,200	907	277	4,160
5	93	310	1,090	746	888	815	1,820	889	1,020	893	443	4,240
6	78	239	1,080	756	828	800	2,430	973	854	782	1,050	4,230
7	67	190	1,060	759	1,370	794	2,930	860	734	668	1,120	4,170
8	68	160	1,010	671	2,430	788	3,700	719	635	533	809	3,890
9	89	141	901	592	2,980	753	4,020	617	543	428	716	2,750
10	78	128	761	647	2,970	750	4,260	565	465	363	824	1,700
11	64	117	659	938	2,250	796	4,400	533	398	309	914	1,310
12	54	107	583	1,780	1,500	945	4,390	671	343	257	860	1,180
13	49	99	488	2,340	1,290	980	4,130	1,310	303	273	598	1,160
14	47	94	442	2,300	1,400	916	3,600	2,040	267	303	448	1,230
15	43	107	456	1,750	1,420	822	2,450	2,220	257	259	353	1,500
16	40	207	517	1,740	1,210	867	1,860	1,820	321	208	287	1,790
17	37	363	522	2,060	1,030	1,140	1,660	1,410	337	174	325	1,510
18	34	615	467	2,120	903	1,490	1,520	1,860	347	151	337	1,110
19	34	657	406	2,420	836	1,400	1,310	2,810	337	136	337	1,030
20	34	593	383	2,890	878	1,170	1,090	3,160	323	124	319	1,010
21	33	550	506	2,450	986	1,070	872	3,080	980	109	279	994
22	32	529	724	2,930	1,110	1,160	761	2,400	2,850	102	233	1,180
23	33	508	1,030	3,340	1,100	1,460	728	1,870	3,620	106	199	1,600
24	33	502	1,020	3,330	1,100	1,550	767	1,610	4,070	109	175	1,700
25	34	859	897	3,250	1,060	1,330	924	1,460	3,980	104	159	1,310
26	34	2,370	801	3,340	943	1,180	931	1,310	3,700	97	147	1,140
27	34	3,020	1,060	2,870	845	1,090	851	1,080	3,210	91	147	1,100
28	54	3,520	1,580	2,270	773	1,010	776	851	2,560	87	275	1,060
29	133	3,000	1,840	1,970	-----	1,020	665	785	1,930	94	515	1,030
30	258	1,880	1,640	1,950	-----	1,730	608	966	1,440	121	1,340	938
31	460	-----	1,370	1,840	-----	2,410	-----	1,440	-----	191	2,390	-----
TOTAL	2,440	23,146	32,073	58,111	37,028	33,367	64,143	42,053	41,754	10,944	16,853	60,562
MEAN	78.7	772	1,035	1,875	1,322	1,076	2,138	1,357	1,392	353	544	2,019
MAX	460	3,520	3,170	3,340	2,980	2,410	4,400	3,160	4,070	1,140	2,390	4,240
MIN	32	94	383	592	773	750	608	533	257	87	147	938

CAL YR 1973 TOTAL 350,617 MEAN 961 MAX 3,790 MIN 28
WTR YR 1974 TOTAL 422,474 MEAN 1,157 MAX 4,400 MIN 32

MUSKINGUM RIVER BASIN

03144000 Wakatomika Creek near Frazeyburg, Ohio

LOCATION.--Lat 40°07'57", long 82°08'53", in NW 1/4 sec.13, T.3 N., R.9 W., Muskingum County, on right bank 2.0 mi (3.2 km) northwest of Frazeyburg, 2.0 mi (3.2 km) downstream from Fivemile Run, and 2.5 mi (4.0 km) upstream from Black Run.

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--September 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 748.12 ft (228.027 m) above mean sea level, adjustment of 1912. Prior to Oct. 31, 1936, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--38 years, 147 ft³/s (4.163 m³/s), 14.26 in/yr (362.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,650 ft³/s (103 m³/s) Nov. 28, gage height, 8.28 ft (2.524 m); minimum, 9.4 ft³/s (0.27 m³/s) Aug. 16, 26, 27.

Period of record: Maximum discharge, 13,700 ft³/s (388 m³/s) Jan. 22, 1959, gage height, 13.15 ft (4.008 m), from rating curve extended above 7,700 ft³/s (218 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 2.0 ft³/s (0.057 m³/s) Oct. 3, 1963, gage height, 0.94 ft (0.287 m).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1113: 1937(M). WSP 1555: 1952(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	91	311	218	202	196	584	173	77	31	12	413
2	50	82	222	150	184	176	1,110	131	64	29	11	451
3	32	47	181	130	168	181	821	150	55	26	14	271
4	21	35	162	115	145	165	2,560	133	47	23	30	269
5	19	31	190	105	116	176	901	118	41	21	20	143
6	19	28	150	96	135	190	588	118	40	22	13	95
7	16	26	118	89	555	170	447	108	44	20	12	73
8	14	24	104	82	423	162	385	100	38	18	15	60
9	18	24	102	79	250	150	410	127	35	17	14	48
10	15	22	100	110	170	150	393	120	31	16	13	41
11	14	20	88	127	155	140	327	102	28	16	12	37
12	13	18	78	114	145	200	294	205	27	16	12	34
13	12	19	90	92	181	170	258	286	26	14	12	33
14	14	20	129	96	229	130	225	190	24	13	13	53
15	19	32	104	193	160	110	232	162	36	13	12	35
16	16	114	91	588	140	640	184	133	58	13	10	29
17	13	70	82	592	125	400	160	124	42	13	93	26
18	12	50	76	454	115	200	145	278	34	12	40	25
19	12	42	71	1,470	110	190	131	215	28	11	22	23
20	12	36	157	1,130	215	175	116	142	29	11	16	24
21	12	42	559	723	168	316	108	114	53	10	14	35
22	12	65	290	527	311	373	118	100	47	9.9	13	44
23	12	55	202	601	427	302	152	108	232	10	12	32
24	12	68	157	689	298	270	120	112	120	12	11	26
25	12	925	147	477	210	218	104	93	73	12	10	24
26	12	1,090	232	373	170	215	99	77	58	11	10	23
27	12	563	601	436	160	270	95	68	50	10	16	22
28	16	2,540	389	350	170	254	93	61	39	10	97	23
29	71	877	324	350	-----	499	90	88	36	16	108	27
30	116	469	353	286	-----	1,580	99	112	34	28	328	27
31	61	-----	270	250	-----	910	-----	85	-----	16	161	-----
TOTAL	707	7,525	6,130	11,092	5,837	9,278	11,349	4,133	1,546	499.9	1,176	2,466
MEAN	22.8	251	198	358	208	299	378	133	51.5	16.1	37.9	82.2
MAX	116	2,540	601	1,470	555	1,580	2,560	286	232	31	328	451
MIN	12	18	71	79	110	110	90	61	24	9.9	10	22
CFSM	.16	1.79	1.41	2.56	1.49	2.14	2.70	.95	.37	.12	.27	.59
IN.	.19	2.00	1.63	2.95	1.55	2.47	3.02	1.10	.41	.13	.31	.66

CAL YR 1973 TOTAL 59,475.1 MEAN 163 MAX 2,540 MIN 9.4 CFSM 1.16 IN 15.80
WTR YR 1974 TOTAL 61,738.9 MEAN 169 MAX 2,560 MIN 9.9 CFSM 1.21 IN 16.40

PEAK DISCHARGE (BASE, 1,600 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	0300	6.12	2,010	03-30	0830	5.87	1,850
11-28	1730	8.28	3,650	04-04	1330	8.21	3,590
01-19	2315	6.38	2,180				

03144500 Muskingum River at Dresden, Ohio

LOCATION.--Lat 40°07'13", long 81°59'59", Muskingum County, on left bank 70 ft (21 m) downstream from bridge on State Highway 208, 0.5 mi (0.8 km) east of Dresden, and 0.5 mi (0.8 km) downstream from Wakatomika Creek.

DRAINAGE AREA.--5,993 mi² (15,522 km²).

PERIOD OF RECORD.--September 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 693.15 ft (211.272 m) above mean sea level, adjustment of 1912. Prior to Aug. 24, 1925, nonrecording gage at about same site and datum.

AVERAGE DISCHARGE.--53 years, 6,114 ft³/s (173.1 m³/s).

EXTREMES.--Current year: Maximum discharge, 30,400 ft³/s (861 m³/s) Apr. 4, gage height, 17.94 ft (5.468 m); minimum, 1,210 ft³/s (34.3 m³/s) Oct. 27.

Period of record: Maximum discharge, 100,000 ft³/s (2,830 m³/s) Aug. 9, 1935, gage height, 31.6 ft (9.63 m); minimum, 335 ft³/s (9.49 m³/s) June 25, 1925.

Flood in March 1913 reached a stage of 46.0 ft (14.02 m), present site and datum, from floodmark, discharge, 228,000 ft³/s (6,460 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by 16 flood-control reservoirs at points 15 mi (24 km) to 105 mi (169 km) upstream (see pp. 80-82). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 728: 1927(M). WSP 803: 1935. WSP 1922-23, 1928(M), 1929, 1930(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,880	5,930	18,500	11,300	14,300	7,370	23,200	5,690	9,030	4,030	2,100	11,600
2	2,100	6,860	16,200	9,610	12,900	8,610	24,100	6,520	7,770	3,860	1,920	13,000
3	2,750	6,290	12,900	8,460	12,200	8,710	25,500	6,520	6,610	4,110	1,760	12,200
4	2,630	5,060	10,200	7,910	11,200	8,400	29,600	6,230	5,860	3,850	1,780	13,000
5	2,480	4,030	9,340	7,270	10,500	9,150	27,300	6,170	5,200	3,530	2,560	13,100
6	2,350	3,470	9,070	6,610	9,580	9,720	25,600	5,950	4,660	3,060	3,480	12,000
7	2,400	3,170	8,820	6,040	11,000	9,450	25,400	5,580	4,250	2,880	3,330	10,800
8	2,160	2,990	7,910	5,490	12,400	8,940	24,600	5,220	3,910	2,590	2,760	9,670
9	2,130	2,810	6,940	5,080	12,400	8,820	24,800	5,130	3,510	2,340	2,500	8,050
10	2,670	2,670	6,230	5,110	11,200	11,800	24,600	5,430	3,260	2,200	3,640	6,330
11	2,450	2,560	5,860	5,490	9,430	14,000	24,300	5,540	3,000	2,180	4,470	5,490
12	2,040	2,440	5,490	6,440	8,070	14,800	23,100	6,010	2,810	2,090	3,830	5,130
13	1,810	2,370	5,060	7,200	7,810	15,100	20,300	11,300	2,640	1,970	3,030	5,020
14	1,730	2,350	5,220	6,610	8,180	14,600	17,300	13,900	2,530	1,960	2,640	5,290
15	2,100	2,400	6,670	6,330	8,920	13,900	14,900	13,700	2,540	1,840	2,730	5,220
16	2,170	3,050	6,310	8,610	7,990	14,300	13,200	13,100	3,000	1,750	2,690	5,250
17	1,910	3,580	5,510	12,600	7,080	15,400	11,900	11,800	3,440	1,960	2,720	4,970
18	1,710	3,800	4,830	15,200	6,420	15,600	10,700	11,100	3,390	1,800	3,560	4,120
19	1,580	3,660	4,520	18,800	5,970	14,500	9,410	11,600	3,130	1,640	4,140	3,740
20	1,510	3,400	4,420	24,200	6,190	12,800	8,420	11,000	2,940	1,530	3,310	3,610
21	1,420	3,250	8,220	23,700	7,120	11,500	7,290	10,300	3,750	1,470	2,780	3,750
22	1,360	3,310	11,400	23,300	7,630	11,200	6,690	9,720	5,600	1,400	2,450	4,120
23	1,310	3,590	10,700	23,600	9,540	10,800	6,710	8,730	7,590	1,370	2,090	4,590
24	1,290	3,580	9,030	24,500	10,000	10,600	6,750	8,260	8,820	1,400	1,880	4,680
25	1,280	6,400	7,690	24,000	9,050	9,870	6,670	7,610	8,380	1,470	1,770	4,030
26	1,240	15,300	7,990	23,200	7,910	9,240	6,350	6,420	7,510	1,430	1,660	3,590
27	1,220	16,500	12,500	22,800	7,390	9,300	5,930	5,630	6,860	1,370	1,610	3,370
28	1,390	21,300	16,300	21,200	7,000	10,000	5,510	4,990	6,380	1,330	1,950	3,260
29	1,960	23,100	16,700	19,700	-----	10,600	5,150	4,810	5,560	1,410	4,450	3,290
30	3,260	19,200	15,200	19,700	-----	19,600	4,950	5,490	4,590	1,990	8,920	3,330
31	4,870	-----	13,200	18,300	-----	23,100	-----	8,440	-----	2,310	11,400	-----
TOTAL	63,160	188,420	288,930	428,360	259,380	371,780	470,230	247,890	148,520	68,120	99,910	195,600
MEAN	2,037	6,281	9,320	13,820	9,264	11,990	15,670	7,996	4,951	2,197	3,223	6,520
MAX	4,870	23,100	18,500	24,500	14,300	23,100	29,600	13,900	9,030	4,110	11,400	13,100
MIN	1,220	2,350	4,420	5,080	5,970	7,370	4,950	4,810	2,530	1,330	1,610	3,260

CAL YR 1973 TOTAL 2,775,360 MEAN 7,604 MAX 23,100 MIN 1,110
WTR YR 1974 TOTAL 2,830,300 MEAN 7,754 MAX 29,600 MIN 1,220

MUSKINGUM RIVER BASIN

03145000 South Fork Licking River near Hebron, Ohio

LOCATION.--Lat 39°59'19", long 82°28'30", in NW 1/4 sec.3, T.1 N., R.12 W., Licking County, on left bank at upstream side of bridge on county road, 800 ft (244 m) downstream from Beaver Run, 2.3 mi (3.7 km) north of Hebron, and 2.5 mi (4.0 km) upstream from Ramp Creek.

DRAINAGE AREA.--133 mi² (344 km²).

PERIOD OF RECORD.--October 1939 to September 1948, July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 856.08 ft (260.933 m) above mean sea level. Prior to Sept. 13, 1974 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--15 years, 138 ft³/s (3.908 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Nov. 29, gage height, 10.20 ft (3.109 m); minimum, 14 ft³/s (0.40 m³/s) July 28, Aug. 7, 25, 26.

Period of record: Maximum discharge, 4,120 ft³/s (117 m³/s) Mar. 6, 1945, gage height, 12.1 ft (3.69 m), from flood marks; no flow Aug. 22, 1942.

Flood of Jan. 21, 1959, reached a stage of 12.4 ft (3.78 m) present datum, from floodmarks; discharge 5,880 ft³/s (167 m³/s), by slope-area measurement.

REMARKS.--Records fair. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft (33.7 hm³), on unnamed tributary 5.6 mi (9.0 km) upstream from station. Occasional diversion from Buckeye Lake into Jonathan Creek which bypasses station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 923: 1940. WSP 1033: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	469	716	379	104	173	386	128	43	134	15	280
2	111	398	587	264	86	138	684	68	33	30	15	470
3	161	232	550	89	72	124	639	84	27	22	21	508
4	370	186	463	56	61	92	1,320	74	24	20	20	526
5	354	172	560	61	50	122	1,020	46	22	43	16	382
6	108	170	535	59	56	113	572	39	21	183	16	312
7	43	157	496	53	705	86	491	33	24	128	14	283
8	32	149	464	61	436	159	512	29	22	22	18	272
9	26	144	450	52	169	119	764	33	22	18	16	185
10	23	135	439	95	113	92	682	48	19	20	16	35
11	21	130	421	173	77	64	478	35	19	100	20	27
12	19	129	414	119	61	59	233	70	18	29	17	23
13	18	97	435	127	89	50	113	154	19	19	16	23
14	19	29	485	83	156	42	92	59	18	16	16	29
15	22	51	453	261	110	40	92	41	24	15	16	28
16	20	484	425	868	79	253	74	35	27	15	15	23
17	18	303	406	668	68	217	57	30	29	16	78	22
18	17	123	275	506	57	107	47	543	25	17	172	21
19	16	87	51	1,020	68	77	43	420	22	17	235	19
20	16	62	228	863	286	61	38	151	23	16	223	21
21	16	66	562	667	203	101	35	73	64	16	50	38
22	15	123	249	535	275	145	36	48	40	16	20	58
23	15	83	156	595	251	89	69	64	367	17	17	33
24	15	106	102	736	126	77	46	138	272	16	16	27
25	15	1,170	95	421	46	69	38	95	84	15	15	23
26	15	1,590	391	391	87	95	33	48	72	15	14	21
27	15	1,580	789	589	61	178	33	36	80	14	16	21
28	16	1,820	536	446	95	119	29	30	50	15	21	20
29	139	1,940	497	331	-----	503	27	29	43	18	23	20
30	547	1,210	618	203	-----	1,290	28	86	36	19	257	21
31	308	-----	435	140	-----	760	-----	61	-----	16	140	-----
TOTAL	2,554	13,395	13,283	10,911	4,047	5,614	8,711	2,828	1,589	1,057	1,564	3,771
MEAN	82.4	447	428	352	145	181	290	91.2	53.0	34.1	50.5	126
MAX	547	1,940	789	1,020	705	1,290	1,320	543	367	183	257	526
MIN	15	29	51	52	46	40	27	29	18	14	14	19

CAL YR 1973 TOTAL 81,144 MEAN 222 MAX 1,980 MIN 14
WTR YR 1974 TOTAL 69,324 MEAN 190 MAX 1,940 MIN 14

03146000 North Fork Licking River at Utica, Ohio

LOCATION.--Lat 40°13'41", long 82°27'06", in T.4 N., R.12 W., Licking County, on left bank at upstream side of bridge on State Highway 13 at south edge of Utica, 0.2 mi (0.3 km) downstream from unnamed right bank tributary, and 2.0 mi (3.2 km) upstream from Lake Fork.

DRAINAGE AREA.--116 mi² (300 km²).

PERIOD OF RECORD.--October 1939 to September 1948, October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 934 ft (285 m) from topographic map. Prior to September 30, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--14 years, 129 ft³/s (3.653 m³/s), 15.11 in/yr (383.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,310 ft³/s (122 m³/s) Apr. 4, gage height, 9.83 ft (2.996 m); minimum, 3.4 ft³/s (0.096 m³/s) Aug. 27.

Period of record: Maximum discharge, 7,040 ft³/s (199 m³/s) June 18, 1973, gage height, 13.04 ft (3.975 m); minimum observed, 0.6 ft³/s (0.017 m³/s) Aug. 13, Oct. 2, 1944.

Flood of Jan. 21, 1959 reached a stage of 15.8 ft (4.82 m), from floodmarks.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	245	253	130	131	161	353	43	56	16	4.1	59
2	50	154	187	106	110	155	2,220	38	40	14	4.0	70
3	75	87	153	92	94	157	800	60	29	12	3.9	56
4	37	62	135	80	80	130	2,950	59	23	11	18	85
5	26	48	236	74	64	228	639	40	19	10	15	41
6	28	39	212	69	89	168	357	34	18	10	8.1	23
7	21	32	137	65	386	129	261	31	18	9.4	6.0	16
8	16	29	111	62	227	116	213	29	16	8.7	5.2	12
9	13	26	100	60	137	106	285	60	15	8.2	5.6	10
10	12	23	92	71	110	125	432	60	13	7.8	5.6	8.8
11	11	21	77	75	85	104	232	41	12	90	4.6	8.4
12	9.8	19	69	68	74	168	171	80	11	42	4.8	8.4
13	9.9	19	76	90	113	132	136	102	11	17	4.4	9.6
14	13	19	237	64	252	98	132	53	10	11	4.1	12
15	28	20	157	241	140	89	144	38	15	8.4	4.0	10
16	21	44	111	937	110	534	102	30	18	7.0	3.6	9.6
17	15	48	85	888	96	275	85	29	18	6.2	8.8	8.4
18	13	37	82	497	81	165	71	225	15	5.9	12	7.4
19	11	34	61	2,130	105	162	67	92	12	5.6	8.4	7.1
20	10	30	322	877	325	144	56	48	12	5.4	7.4	7.1
21	10	34	556	628	196	182	50	33	13	5.0	5.6	8.1
22	10	79	211	376	445	222	54	26	14	4.8	4.8	8.1
23	9.3	62	130	877	277	160	82	29	206	5.0	4.3	8.4
24	9.0	149	95	656	165	136	60	41	114	5.3	4.1	8.1
25	8.8	1,860	112	295	119	121	48	39	60	5.3	3.8	7.7
26	9.1	1,290	683	221	101	160	43	27	51	5.0	3.6	7.1
27	9.1	1,760	1,050	650	94	346	39	21	44	4.5	3.6	6.7
28	10	3,160	359	324	124	194	35	18	29	4.5	17	7.7
29	44	955	236	310	-----	1,050	33	34	23	4.5	68	28
30	262	408	248	213	-----	1,720	33	206	20	4.8	60	29
31	124	-----	163	168	-----	544	-----	87	-----	4.3	32	-----
TOTAL	934.8	10,793	6,736	11,394	4,330	8,181	10,183	1,753	955	358.6	344.4	587.7
MEAN	30.2	360	217	368	155	264	339	56.5	31.8	11.6	11.1	19.6
MAX	262	3,160	1,050	2,130	445	1,720	2,950	225	206	90	68	85
MIN	8.8	19	61	60	64	89	33	18	10	4.3	3.6	6.7
CFSM	.26	3.10	1.87	3.17	1.34	2.28	2.92	.49	.27	.10	.10	.17
IN.	.30	3.46	2.16	3.65	1.39	2.62	3.27	.56	.31	.11	.11	.19

CAL YR 1973 TOTAL 70,267.3 MEAN 193 MAX 4,230 MIN 5.1 CFSM 1.66 IN 22.53
WTR YR 1974 TOTAL 56,550.5 MEAN 155 MAX 3,160 MIN 3.6 CFSM 1.34 IN 18.14

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	2000	8.53	3,270	03-29	2400	7.60	2,540
11-28	0800	9.78	4,270	04-02	0900	8.75	3,450
01-19	1500	8.16	2,990	04-04	0630	9.83	4,310

MUSKINGUM RIVER BASIN

03146500 Licking River near Newark, Ohio

LOCATION.--Lat 40°03'33", long 82°20'23", in SW 1/4 T.2 N., R.11 W., Licking County, on right bank at downstream side of Stadden Bridge, 1.0 mi (1.6 km) downstream from Shawnee Run, 1.5 mi (2.4 km) upstream from Equality Run, and 3.5 mi (5.6 km) east of Newark.

DRAINAGE AREA.--537 mi² (1,391 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 779.02 ft (237.445 m) above mean sea level. Prior to May 9, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 560 ft³/s (15.86 m³/s).

EXTREMES.--Current year: Maximum discharge, 11,200 ft³/s (317 m³/s) Nov. 28, gage height, 13.11 ft (3.996 m); minimum, 73 ft³/s (2.07 m³/s) Aug. 25, 27.

Period of record: Maximum discharge, 45,000 ft³/s (1,270 m³/s) Jan. 21, 1959, gage height, 20.3 ft (6.19 m) (from high-water mark), from rating curve extended above 24,000 ft³/s (680 m³/s) on basis of flood-routing studies from station at Toboso; minimum, 15 ft³/s (0.42 m³/s) Jan. 12, 1954, result of freezeup.

REMARKS.--Records good. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft (33.7 hm³), on South Fork 15.2 mi (24.5 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 973: 1940 (M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	1,160	2,000	1,110	753	777	1,680	540	495	259	83	1,060
2	370	985	1,580	922	668	714	3,950	424	375	205	80	1,390
3	405	582	1,380	706	595	698	2,770	471	304	160	148	1,070
4	482	445	1,260	616	521	595	7,430	477	257	148	112	1,160
5	425	385	1,460	510	430	691	3,530	365	227	155	100	759
6	265	350	1,460	450	489	777	2,070	327	223	282	95	528
7	180	315	1,210	400	2,480	653	1,620	304	244	264	87	433
8	165	290	1,100	375	1,600	748	1,520	285	207	152	102	376
9	141	270	1,040	453	909	616	1,880	350	195	129	95	324
10	126	256	995	560	600	554	2,060	385	180	121	119	172
11	118	240	941	730	520	483	1,500	322	170	221	105	146
12	113	232	889	631	480	521	1,100	465	167	214	93	134
13	110	224	948	465	581	514	883	698	160	145	98	164
14	110	159	1,200	508	948	413	777	429	150	121	101	231
15	115	204	1,150	1,060	742	385	857	350	231	112	96	176
16	118	1,080	1,000	2,990	581	1,320	698	304	215	103	87	143
17	110	612	909	2,650	521	1,210	588	370	203	101	256	130
18	105	405	783	1,850	453	783	521	2,880	188	100	270	119
19	100	325	447	4,620	502	675	465	1,530	170	99	385	113
20	98	270	981	3,540	1,370	616	424	814	167	95	303	111
21	95	300	2,240	2,480	1,000	753	391	527	199	92	138	162
22	93	466	1,160	1,890	1,350	981	435	407	227	90	104	191
23	93	380	870	2,270	1,310	748	540	391	1,270	96	92	150
24	93	576	706	2,680	870	660	453	653	948	95	86	127
25	91	5,190	660	1,580	691	567	380	547	483	91	81	115
26	89	5,550	1,660	1,270	540	616	346	365	402	90	78	107
27	89	4,380	3,110	2,080	521	1,110	327	300	364	86	79	104
28	105	9,880	1,830	1,660	609	864	304	257	287	86	137	109
29	325	5,120	1,500	1,440	-----	2,190	285	396	240	100	380	130
30	1,300	3,010	1,680	1,090	-----	5,560	327	1,380	217	102	897	150
31	831	-----	1,270	896	-----	2,870	-----	753	-----	88	577	-----
TOTAL	7,028	43,641	39,419	44,482	22,634	30,662	40,111	18,066	9,165	4,202	5,464	10,084
MEAN	227	1,455	1,272	1,435	808	989	1,337	583	306	136	176	336
MAX	1,300	9,880	3,110	4,620	2,480	5,560	7,430	2,880	1,270	282	897	1,390
MIN	89	159	447	375	430	385	285	257	150	86	78	104

CAL YR 1973 TOTAL 298,190 MEAN 817 MAX 9,880 MIN 87
WTR YR 1974 TOTAL 274,958 MEAN 753 MAX 9,880 MIN 78

PEAK DISCHARGE (BASE, 6,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE
11-26	0100	10.92	7,750
11-28	1500	13.11	11,200
04-04	1515	11.14	8,050

03147500 Licking River below Dillon Dam, near Dillon Falls, Ohio

LOCATION.--Lat 39°59'18", long 82°04'50", in T.1 N., R.8 W., Muskingum County, on left bank 500 ft (152 m) downstream from Dillon Dam, 2.0 mi (3.2 km) northwest of Dillon Falls, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--742 mi² (1,922 km²).

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1962, published as Licking River at Dillon.

GAGE.--Water-stage recorder. Datum of gage is 700.0 ft (213.36 m) above mean sea level, Corps of Engineers bench mark. Prior to Oct. 27, 1940, water-stage recorder at site 2.3 mi (3.7 km) downstream at different datum. Oct. 27, 1940, to Sept. 30, 1962, water-stage recorder at site 2.6 mi (4.2 km) downstream at datum 16.3 ft (4.97 m) lower.

AVERAGE DISCHARGE.--35 years, 778 ft³/s (22.03 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,630 ft³/s (131 m³/s) Apr. 10, gage height, 9.56 ft (2.914 m); minimum, 42 ft³/s (1.19 m³/s) July 29.

Period of record: Maximum discharge, 47,000 ft³/s (1,330 m³/s) Jan. 22, 1959, gage height, 32.46 ft (9.894 m) (datum then in use), from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 19 ft³/s (0.54 m³/s) Dec. 22, 1960.

Flood in March 1913 reached a stage of 37.0 ft (11.28 m), site and datum in use 1940-62, from floodmark, backwater from Muskingum River.

REMARKS.--Records good. Flow regulated by Dillon Lake since December 1960 (see station 03147300). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ohio, 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	1,060	4,170	1,330	2,800	971	1,970	725	1,000	316	55	1,150
2	269	1,410	4,320	1,190	1,360	1,130	1,390	774	621	316	131	1,900
3	621	1,070	4,360	888	888	1,100	1,580	736	546	290	305	2,030
4	678	395	4,490	662	785	953	780	736	480	221	383	1,930
5	667	439	4,500	747	780	917	1,810	672	404	198	173	1,170
6	417	485	4,490	672	636	1,090	3,310	561	358	258	117	813
7	276	426	4,500	626	1,420	1,050	3,600	408	400	335	94	672
8	234	351	4,440	522	2,420	905	3,820	408	400	335	128	532
9	201	387	4,320	494	2,470	882	3,110	571	324	201	146	494
10	182	347	4,250	693	2,220	899	4,090	591	294	140	161	358
11	170	294	3,060	830	1,300	796	4,320	532	290	152	149	201
12	128	294	1,690	870	785	715	4,100	725	265	238	134	218
13	120	290	971	652	830	742	4,040	1,060	238	298	143	224
14	134	290	1,010	546	1,110	742	4,090	859	238	238	122	320
15	155	370	1,260	725	1,230	581	4,030	688	422	149	122	395
16	152	1,150	1,130	1,750	864	971	4,000	522	422	111	122	301
17	155	1,250	996	3,010	785	1,650	4,090	448	248	120	354	211
18	146	769	841	3,210	763	1,660	3,950	1,980	294	149	444	211
19	117	586	641	2,770	709	1,380	2,970	3,630	309	167	494	211
20	114	596	522	1,850	1,200	1,010	1,110	2,770	309	143	476	211
21	114	591	2,040	1,470	1,610	1,010	462	1,200	316	117	251	347
22	114	641	2,440	2,100	1,540	1,240	626	752	387	94	125	351
23	114	667	1,510	2,720	1,870	1,400	864	693	503	97	122	276
24	114	704	870	2,750	1,720	1,100	774	752	1,110	114	125	218
25	117	1,400	662	3,200	1,190	953	513	876	1,560	122	125	179
26	117	2,510	1,190	3,790	859	876	532	769	1,020	122	114	192
27	117	2,940	2,640	3,910	808	1,180	532	439	513	122	100	192
28	120	2,490	3,370	3,860	888	1,520	499	366	413	120	234	192
29	328	1,660	2,620	3,960	-----	1,460	408	518	413	75	522	201
30	1,280	2,850	2,300	3,940	-----	1,810	439	1,980	358	58	1,270	221
31	1,500	-----	1,800	3,910	-----	1,930	-----	2,240	-----	55	1,240	-----
TOTAL	9,079	28,712	77,403	59,647	35,840	34,623	67,809	29,981	14,455	5,471	8,481	15,921
MEAN	293	957	2,497	1,924	1,280	1,117	2,260	967	482	176	274	531
MAX	1,500	2,940	4,500	3,960	2,800	1,930	4,320	3,630	1,560	335	1,270	2,030
MIN	108	290	522	494	636	581	408	366	238	55	55	179

CAL YR 1973 TOTAL 404,119 MEAN 1,107 MAX 4,810 MIN 89
WTR YR 1974 TOTAL 387,422 MEAN 1,061 MAX 4,500 MIN 55

MUSKINGUM RIVER BASIN

03150000 Muskingum River at McConnellsville, Ohio

LOCATION.--Lat 39°38'42", long 81°51'00", in SE 1/4 sec.11, T.10 N., R.12 W., Morgan County, on left bank just upstream from Dam 7, at McConnellsville, and 3.5 mi (5.6 km) downstream from Oilspring Run.

DRAINAGE AREA.--7,422 mi² (19,223 km²).

PERIOD OF RECORD.--October 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 650.31 ft (198.214 m) above mean sea level, adjustment of 1912. Prior to July 27, 1922, nonrecording gage at site 0.5 mi (0.8 km) upstream at same datum. July 27, 1922, to Aug. 10, 1926, nonrecording gage and Aug. 11, 1926, to Sept. 8, 1959, water-stage recorder at present site and datum. Sept. 9, 1959, to July 18, 1960, nonrecording gage at site 0.5 mi (0.8 km) upstream at same datum.

AVERAGE DISCHARGE.--53 years, 7,247 ft³/s (205.2 m³/s).

EXTREMES.--Current year: Maximum discharge, 32,700 ft³/s (926 m³/s) Apr. 4, gage height 9.51 ft (2.899 m); minimum, 1,310 ft³/s (37.1 m³/s) Oct. 27, July 28, gage height, 1.67 ft (0.509 m).

Period of record: Maximum discharge, 126,000 ft³/s (3,570 m³/s) Jan. 26, 1937, gage height, 21.14 ft (6.443 m); minimum, 218 ft³/s (6.17 m³/s) Aug. 25, 1930, gage height, -0.65 ft (-0.198 m), from rating curve extended below 470 ft³/s (13.3 m³/s).

Flood of Mar. 27, 1913 reached a stage of 33.5 ft (10.21 m), discharge, 270,000 ft³/s (7,650 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by 17 flood-control reservoirs 36.6 mi (58.9 km) to 148 mi (238 km) upstream from station (see pp. 80-82). Some regulation at low flow by powerplant 19 mi (31 km) upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 783: 1913(M). WSP 853: 1933(M). WSP 1173: 1922-24, 1928(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,680	7,380	25,100	14,600	19,600	8,860	25,900	6,270	12,400	5,080	2,270	16,500
2	2,280	8,400	21,100	12,500	15,400	9,740	28,900	7,340	9,880	4,640	2,140	19,300
3	3,030	8,870	18,400	11,000	14,000	10,400	27,800	8,450	8,260	4,610	2,430	18,900
4	3,550	7,280	15,400	9,860	12,900	10,200	31,600	7,850	7,210	4,540	4,190	17,300
5	3,300	5,340	14,200	9,310	12,000	10,200	30,900	7,370	6,320	4,130	2,820	15,700
6	3,010	4,700	13,700	8,360	11,400	11,100	29,000	7,090	5,640	3,830	3,340	13,900
7	2,810	4,040	13,300	7,690	17,500	11,300	28,900	6,560	5,220	3,570	3,630	12,400
8	2,600	3,730	12,600	7,170	16,500	11,100	29,100	6,020	4,840	3,290	3,650	11,100
9	2,460	3,530	11,700	6,510	16,200	10,400	30,500	6,010	4,400	2,950	3,770	9,730
10	2,570	3,380	10,700	7,450	14,800	11,800	28,900	6,210	3,870	2,650	3,470	7,950
11	2,930	3,150	9,720	9,310	12,800	14,800	28,900	6,320	3,600	2,650	4,660	6,490
12	2,500	3,010	7,880	8,560	10,100	15,600	27,700	8,160	3,400	2,510	4,590	5,820
13	2,150	2,910	6,620	8,430	9,600	16,200	25,600	11,700	3,130	2,450	3,730	6,060
14	2,010	2,870	6,460	8,170	9,760	16,000	22,500	14,900	2,960	2,340	3,120	7,010
15	2,080	2,920	7,580	8,410	10,700	15,400	20,200	15,000	3,090	2,250	2,780	6,210
16	2,390	4,170	8,070	10,700	9,890	15,900	18,000	14,400	3,920	2,020	3,000	6,070
17	2,280	5,190	7,120	14,900	8,680	17,700	16,600	13,200	3,930	2,000	3,330	5,740
18	2,060	5,010	6,150	18,500	7,980	18,000	15,400	16,900	4,010	2,100	4,060	5,050
19	1,860	4,680	5,680	22,100	7,480	17,300	13,700	16,800	3,890	1,950	5,300	4,420
20	1,740	4,500	5,340	26,300	7,930	15,100	11,000	15,400	3,960	1,810	4,540	4,370
21	1,660	4,210	8,890	26,600	9,250	14,000	8,680	12,900	12,900	1,650	3,540	5,580
22	1,550	4,240	13,900	25,500	9,520	13,600	7,940	11,400	8,210	1,540	2,890	5,490
23	1,520	4,420	13,300	26,700	11,300	13,200	8,260	10,500	14,000	1,490	2,510	5,170
24	1,450	4,620	11,300	27,700	12,600	12,800	8,220	9,780	12,000	1,500	2,210	5,280
25	1,410	9,870	9,400	27,300	11,600	12,000	7,600	9,280	11,400	1,500	2,040	4,850
26	1,410	18,900	9,270	26,800	10,200	11,200	7,170	8,190	10,400	1,580	1,930	4,270
27	1,380	21,000	16,300	26,700	8,870	10,900	6,800	6,840	8,580	1,510	1,790	3,980
28	1,560	23,200	22,600	25,600	8,540	12,100	6,600	5,930	7,720	1,440	3,260	3,820
29	2,440	25,500	23,600	24,500	-----	12,700	6,380	6,260	6,970	1,870	4,170	3,770
30	4,470	21,100	21,800	23,700	-----	20,300	5,990	8,980	5,870	2,380	13,100	3,870
31	6,510	-----	17,300	23,000	-----	25,700	-----	11,000	-----	2,340	14,600	-----
TOTAL	74,650	232,120	394,480	513,930	327,100	425,600	564,740	303,010	201,980	80,170	122,860	246,100
MEAN	2,408	7,737	12,730	16,580	11,680	13,730	18,820	9,775	6,733	2,586	3,963	8,203
MAX	6,510	25,500	25,100	27,700	19,600	25,700	31,600	16,900	14,000	5,080	14,600	19,300
MIN	1,380	2,870	5,340	6,510	7,480	8,860	5,990	5,930	2,960	1,440	1,790	3,770

CAL YR 1973 TOTAL 3,459,640 MEAN 9,478 MAX 26,000 MIN 1,170
WTR YR 1974 TOTAL 3,486,740 MEAN 9,553 MAX 31,600 MIN 1,380

03150250 Meigs Creek near Beverly, Ohio

LOCATION.--Lat 39°36'00", long 81°42'42", in SE 1/4 sec.25, T.10 N., R.11 W., Morgan County, on right bank 400 ft (122 m) downstream from County Road bridge at Mill Grove, 0.4 mi (0.6 km) downstream from Perry Run, 0.5 mi (0.8 km) upstream from Union Run, 2.2 mi (3.5 km) upstream from mouth, and 5.3 mi (8.5 km) northwest of Beverly.

DRAINAGE AREA.--136 mi² (352 km²).

PERIOD OF RECORD.--March 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.19 ft (187.205 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 9,090 ft³/s (257 m³/s) June 21, gage height, 23.35 ft (7.117 m); minimum, 5.7 ft³/s (0.16 m³/s) Oct. 27.

Period of record: Maximum discharge, 9,090 ft³/s (257 m³/s) June 21, 1974, gage height, 23.35 ft (7.117 m); minimum discharge, 4.5 ft³/s (0.13 m³/s) Sept. 28, 1972.

REMARKS.--Record good except for period Dec. 1 to Apr. 20, which is poor. Water-quality records for current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	163	160	150	180	86	100	86	510	156	42	1,050
2	17	88	130	118	160	88	900	75	224	109	30	833
3	12	84	110	163	150	90	760	409	145	92	133	2,540
4	10	52	98	179	140	85	1,000	229	106	80	1,130	1,090
5	9.4	39	87	110	130	92	700	139	90	75	325	537
6	9.4	33	76	92	127	95	410	107	78	69	123	339
7	7.7	25	66	80	1,200	90	290	89	78	64	75	237
8	6.9	24	60	76	472	112	270	80	75	57	351	170
9	6.8	22	54	102	337	92	720	99	89	55	1,360	127
10	6.1	20	49	423	245	100	520	86	65	57	708	107
11	6.5	22	45	1,140	177	100	400	75	49	67	259	109
12	7.9	19	41	447	137	100	250	616	45	55	181	81
13	6.6	17	45	245	156	98	210	383	41	44	137	207
14	6.1	16	82	193	145	98	180	200	38	45	263	1,270
15	6.0	16	69	254	114	100	160	150	40	41	112	309
16	6.3	25	58	288	104	200	140	110	80	36	82	174
17	6.0	31	50	250	99	250	120	119	50	31	78	127
18	6.8	27	49	180	90	190	110	920	35	31	75	99
19	6.3	24	42	210	104	130	98	501	39	53	250	88
20	5.9	23	50	260	181	93	92	306	74	55	88	101
21	6.3	23	147	330	116	228	85	181	3,760	59	63	1,040
22	6.6	26	99	290	137	221	99	123	519	50	52	493
23	6.3	26	88	260	149	145	200	135	2,280	41	45	259
24	6.9	27	64	270	127	125	119	127	748	30	39	184
25	7.4	293	61	210	112	107	93	106	370	25	41	143
26	6.6	498	112	180	92	96	80	86	300	23	36	118
27	5.9	720	346	220	88	82	70	73	230	21	34	98
28	28	740	399	390	92	86	67	67	170	17	41	96
29	165	350	400	620	-----	96	74	231	160	56	78	101
30	261	220	250	300	-----	100	67	529	158	172	1,100	86
31	235	-----	190	210	-----	110	-----	410	-----	66	341	-----
TOTAL	909.7	3,693	3,577	8,240	5,361	3,685	8,384	6,847	10,646	1,832	7,672	12,213
MEAN	29.3	123	115	266	191	119	279	221	355	59.1	247	407
MAX	261	740	400	1,140	1,200	250	1,000	920	3,760	172	1,360	2,540
MIN	5.9	16	41	76	88	82	67	67	35	17	30	81
CFSM	.22	.90	.85	1.96	1.40	.88	2.05	1.63	2.61	.43	1.82	2.99
IN.	.25	1.01	.98	2.25	1.47	1.01	2.29	1.87	2.91	.50	2.10	3.34

CAL YR 1973 TOTAL 62,943.0 MEAN 172 MAX 1,360 MIN 4.8 CFSM 1.26 IN 17.22
WTR YR 1974 TOTAL 73,059.7 MEAN 200 MAX 3,760 MIN 5.9 CFSM 1.47 IN 19.98

MUSKINGUM RIVER BASIN

Reservoirs in Muskingum River basin

03119500 BOLIVAR RESERVOIR.--Lat 40°38'56", long 81°25'57", Tuscarawas County, in gate house of dam on Sandy Creek, 1.1 mi (1.8 km) east of Bolivar. Drainage area, 504 mi² (1,305 km²). Period of record, June 1938 to current year. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 895.0 ft (272.80 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 29,400 acre-ft (36.3 hm³) Apr. 7, elevation, 931.30 ft (283.860 m); minimum, 113 acre-ft (139,000 m³) several days in July and August, elevation, 897.10 ft (273.436 m). Extremes for period of record: Maximum contents, 63,320 acre-ft (78.1 hm³) Jan. 26, 1959, elevation, 944.01 ft (287.734 m); minimum, 62 acre-ft (76,400 m³) Oct. 9, 1933, elevation, 896.30 ft (273.192 m).

Reservoir is formed by earthfill dam completed Nov. 15, 1937. Usable capacity 149,500 acre-ft (184 hm³) between elevations 895.0 ft (272.80 m) (lowest outlet), and 962.0 ft (293.22 m) (crest of spillway). Dead storage below elevation 895.0 ft (272.80 m), 113 acre-ft (139,000 m³). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03120000 LEESVILLE LAKE.--Lat 40°28'15", long 81°11'40", in E 1/4 sec. 36, T.13 N., R.6 W., Carroll County, in gate house of dam on McGuire Creek, 1.4 mi (2.3 km) northeast of Leesville. Drainage area, 48.3 mi² (125 km²). Period of record, April 1938 to current year. Prior to October 1971 published as Leesville Reservoir. Month-end contents prior to September 1939, published in WSP 1305. Water-stage recorder. Datum of gage is 928.0 ft (282.85 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 22,500 acre-ft (27.7 hm³) Sept. 6, elevation, 966.16 ft (294.486 m); minimum, 13,670 acre-ft (16.9 hm³) Jan. 3 and 4, elevation, 957.00 ft (291.694 m). Extremes for period of record: Maximum contents, 26,430 acre-ft (32.6 hm³) Apr. 17, 1948, elevation, 969.59 ft (295.531 m); minimum, 41 acre-ft (50,600 m³) Oct. 9-25, 1939, elevation, 928.38 ft (282.970 m), but may have been less during period Sept. 18-24, 1940.

Lake is formed by earthfill dam completed Oct. 22, 1937. Usable capacity 37,070 acre-ft (45.7 hm³) between elevations 928.0 ft (282.85 m) (lowest outlet), and 977.5 ft (297.94 m) (crest of spillway), of which 19,170 acre-ft (23.6 hm³) is in the conservation pool. Dead storage below elevation 928.0 ft (282.85 m), 329 acre-ft (406,000 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduit through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03121000 ATWOOD LAKE.--Lat 40°31'34", long 81°17'09", in SE 1/4 sec. 28, T.15 N., R.7 W., Tuscarawas County, in gate house of dam on Indian Fork, 1.5 mi (2.4 km) southeast of New Cumberland. Drainage area, 69.9 mi² (181 km²). Period of record, June 1938 to current year. Prior to October 1971 published as Atwood Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 890.0 ft (271.27 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Oct. 11, 1938, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 31,130 acre-ft (38.4 hm³) Apr. 6, elevation, 932.39 ft (284.192 m); minimum, 15,740 acre-ft (19.4 hm³) Jan. 11 and 12, elevation, 922.29 ft (281.114 m). Extremes for period of record: Maximum contents, 35,210 acre-ft (43.4 hm³) Feb. 8, 1952, elevation, 934.51 ft (284.839 m); minimum, 2.2 acre-ft (2,710 m³) Jan. 8, 9, 1940, elevation, 890.36 ft (271.382 m).

Lake is formed by earthfill dam completed Sept. 23, 1937. Usable capacity 49,690 acre-ft (61.3 hm³) between elevations 890.0 ft (271.27 m) (lowest outlet), and 941.0 ft (286.82 m) (crest of spillway), of which 23,590 acre-ft (29.1 hm³) is in the conservation pool. Dead storage below elevation 890.0 ft (271.27 m), 8 acre-ft (9,860 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03122000 DOVER LAKE.--Lat 40°33'29", long 81°24'46", in SW 1/4 sec. 6, T.9 N., R.1 W., Tuscarawas County, in gate house of dam on Tuscarawas River, 4.2 mi (6.8 km) northeast of Dover. Drainage area, 1,404 mi² (3,636 km²). Period of record, June 1938 to current year. Prior to October 1971 published as Dover Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 858.0 ft (261.52 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Prior to Sept. 22, 1938, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 10,590 acre-ft (13.1 hm³) Apr. 5, elevation, 883.47 ft (269.282 m); no contents several days in July and August. Extremes for period of record: Maximum contents, 109,000 acre-ft (134 hm³) July 12, 1969, elevation, 905.00 ft (275.844 m); no contents several days during most years.

Lake is formed by concrete dam completed Nov. 29, 1937. Usable capacity 203,000 acre-ft (250 hm³) between elevations 862.0 ft (262.74 m) (lowest outlet), and 916.0 ft (279.20 m) (crest of spillway), of which 1,000 acre-ft (1.23 hm³) is in conservation pool. No dead storage. Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03123500 BEACH CITY LAKE.--Lat 40°38'06", long 81°33'30", in T.10 N., R.3 W., Tuscarawas County, in gate house of dam on Sugar Creek, 1.6 mi (2.6 km) southeast of Beach City. Drainage area, 300 mi² (777 km²). Period of record, June 1938 to current year. Prior to October 1971 published as Beach City Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 931.0 ft (283.77 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Prior to Feb. 4, 1939, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 16,260 acre-ft (20.0 hm³) Apr. 5 and 6, elevation, 961.70 ft (293.126 m); minimum, 1,810 acre-ft (2.23 hm³) July 22 and 23, elevation, 948.24 ft (289.024 m). Extremes for period of record: Maximum contents, 70,120 acre-ft (86.5 hm³) July 6, 1969, elevation, 976.25 ft (297.561 m); minimum, 1.1 acre-ft (1,360 m³) several days in September and October 1939, elevation, 931.60 ft (283.952 m).

Lake is formed by earthfill dam completed Aug. 13, 1937. Usable capacity 71,650 acre-ft (88.3 hm³) between elevations 931.0 ft (283.77 m) (lowest outlet), and 976.5 ft (297.64 m) (crest of spillway), of which 1,700 acre-ft (2.10 hm³) is in conservation pool. No dead storage. Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

Reservoirs in Muskingum River basin--Continued

03125500 PIEDMONT LAKE.--Lat 40°11'31", long 81°12'57", in SE 1/4 sec. 35, T.10 N., R.6 W., Harrison County, in gate house of dam on Stillwater Creek, 0.4 mi (0.6 km) west of Piedmont. Drainage area, 85.9 mi² (222 km²). Period of record, May 1938 to current year. Prior to October 1971 published as Piedmont Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 881.75 ft (268.757 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 38,500 acre-ft (47.5 hm³) Sept. 6, elevation, 915.14 ft (278.935 m); minimum, 23,010 acre-ft (28.4 hm³) Jan. 5, elevation, 907.95 ft (276.743 m). Extremes for period of record: Maximum contents, 46,650 acre-ft (57.5 hm³) June 11, 12, 1947, elevation, 918.33 ft (279.907 m); minimum, 26 acre-ft (32,100 m³) Sept. 18-25, 1939, elevation, 882.25 ft (268.910 m).

Lake is formed by earthfill dam completed May 22, 1937. Usable capacity 64,990 acre-ft (80.1 hm³) between elevations 881.75 ft (lowest outlet), and 924.6 ft (281.82 m) (crest of spillway), of which 33,500 acre-ft (41.3 hm³) is in the conservation pool. Dead storage below elevation 881.75 ft (268.757 m), 71 acre-ft (87,500 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through abutment of dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03126500 CLENDENING LAKE.--Lat 40°16'10", long 81°16'43", in NW 1/4 sec. 16, T.12 N., R.7 W., Harrison County, in gate house of dam on Brushy Fork, 0.6 mi (1.0 km) east of Tippecanoe. Drainage area, 69.3 mi² (179 km²). Period of record, June 1938 to current year. Prior to October 1971 published as Clendenning Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 862.00 ft (262.738 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Prior to July 11, 1938, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 32,810 acre-ft (40.5 hm³) Sept. 6, elevation, 901.32 ft (274.722 m); minimum, 17,980 acre-ft (22.2 hm³) Dec. 17 and 18, elevation, 892.65 ft (272.080 m). Extremes for period of record: Maximum contents, 38,060 acre-ft (46.9 hm³) Feb. 7, 1952, elevation, 903.85 ft (275.493 m); minimum, 5.9 acre-ft (7,270 m³) Nov. 4, 1938, elevation, 862.33 ft (262.838 m).

Lake is formed by earthfill dam completed Nov. 1, 1937. Usable capacity 53,970 acre-ft (66.5 hm³) between elevations 862.0 ft (262.74 m) (lowest outlet), and 910.5 ft (277.52 m) (crest of spillway), of which 26,470 acre-ft (32.6 hm³) is in the conservation pool. Dead storage below elevation 862.0 ft (262.74 m), 27 acre-ft (33,300 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through abutment of dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03128000 TAPPAN LAKE.--Lat 40°21'24", long 81°13'38", in NW 1/4 sec. 4, T.13 N., R.7 W., Harrison County, in gate house of dam on Little Stillwater Creek, 0.9 mi (1.4 km) west of Tappan. Drainage area, 71.1 mi² (184 km²). Period of record, May 1938 to current year. Prior to October 1971 published as Tappan Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 870.0 ft (265.18 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 39,520 acre-ft (48.7 hm³) Sept. 4 and 5, elevation, 901.14 ft (274.667 m); minimum, 25,250 acre-ft (31.1 hm³) Feb. 16 and 17, elevation, 894.80 ft (272.735 m). Extremes for period of record: Maximum contents, 48,440 acre-ft (59.7 hm³) Feb. 5, 6, 1952, elevation, 904.53 ft (275.701 m); no contents Sept. 29, 1939.

Lake is formed by earthfill dam completed Oct. 24, 1936. Usable capacity 61,500 acre-ft (75.8 hm³) between elevations 870.0 ft (265.18 m) (lowest outlet), and 909.0 ft (277.06 m) (crest of spillway), of which 35,070 acre-ft (43.2 hm³) is in conservation pool. Dead storage below elevation 870.0 ft (265.18 m), 46 acre-ft (56,700 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03129500 CHARLES MILL LAKE.--Lat 40°44'26", long 82°21'47", in NE 1/4 sec. 35, T.23 N., R.17 W., Ashland County, in gate house of dam on Black Fork, 2.5 mi (4.0 km) south of Mifflin. Drainage area, 215 mi² (557 km²). Period of record, April 1938 to current year. Prior to October 1971 published as Charles Mill Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 987.0 ft (300.84 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 24,240 acre-ft (29.9 hm³) Jan. 23, elevation, 1,005.59 ft (306.504 m); minimum, 6,080 acre-ft (7.50 hm³) Jan. 16, elevation, 996.23 ft (303.651 m). Extremes for period of record: Maximum contents, 53,480 acre-ft (65.9 hm³) Jan. 25, 1959, elevation, 1,013.53 ft (308.924 m); minimum, 733 acre-ft (904,000 m³) Dec. 24, 1965, elevation, 989.89 ft (301.718 m).

Lake is formed by earthfill dam completed Aug. 17, 1936. Usable capacity 87,690 acre-ft (108 hm³) between elevations 987.0 ft (300.84 m) (lowest outlet), and 1,020.0 ft (310.90 m) (crest of spillway), of which 7,090 acre-ft (8.74 hm³) is in the conservation pool. Dead storage below elevation 987.0 ft (300.84 m), 310 acre-ft (382,000 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam or through bypass gate around conservation weir. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03133000 PLEASANT HILL LAKE.--Lat 40°37'26", long 82°19'33", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, in gate house of dam on Clear Fork, 2.5 mi (4.0 km) south of Perryville. Drainage area, 197 mi² (510 km²). Period of record, May 1938 to current year. Prior to October 1971 published as Pleasant Hill Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 971.75 ft (296.189 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 18,870 acre-ft (23.3 hm³) Apr. 5, elevation, 1,025.73 ft (312.643 m); minimum, 7,890 acre-ft (9.73 hm³) Jan. 13, elevation, 1,012.26 ft (308.537 m). Extremes for period of record: Maximum contents, 43,530 acre-ft (53.7 hm³) Jan. 23, 1959, elevation, 1,044.01 ft (318.214 m); minimum, 74 acre-ft (91,200 m³) May 8, 1938, elevation, 976.63 ft (297.677 m).

Lake is formed by earthfill dam completed Feb. 1, 1938. Usable capacity 87,640 acre-ft (108 hm³) between elevations 971.75 ft (296.189 m) (lowest outlet), and 1,065.0 ft (324.61 m) (crest of spillway), of which 13,510 acre-ft (16.7 hm³) is in the conservation pool. Dead storage below elevation 971.75 ft (296.189 m), 12 acre-ft (14,800 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

MUSKINGUM RIVER BASIN

Reservoirs in Muskingum River basin--Continued

- 03134500 MOHICANVILLE RESERVOIR.--Lat 40°43'28", long 82°09'08", in SE 1/4 sec. 34, T.21 N., R.15 W., Ashland County, in gate house of dam on Lake Fork, 2 mi (3 km) east of Mohicanville. Drainage area, 271 mi² (702 km²). Period of record, May 1938 to current year. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 932.0 ft (284.07 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 20,460 acre-ft (25.2 hm³) Jan. 24, elevation, 950.12 ft (289.597 m); minimum, 33 acre-ft (40,700 m³) July 29, elevation, 933.17 ft (284.430 m). Extremes for period of record: Maximum contents, 96,330 acre-ft (119 hm³) July 7, 1969, elevation, 962.35 ft (293.324 m); minimum, 9.9 acre-ft (12,200 m³) several days in 1941, 1944, 1945; minimum elevation, 932.38 ft (284.189 m) several days in August, September, October, 1941.
- Reservoir is formed by earthfill dam completed Dec. 24, 1936. Usable capacity 102,000 acre-ft (126 hm³) between elevations 932.0 ft (284.07 m) (lowest outlet), and 963.0 ft (293.52 m) (crest of spillway). Dead storage below elevation 932.0 ft (284.07 m), 18 acre-ft (22,200 m³). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.
- 03136300 NORTH BRANCH KOKOSING RIVER LAKE.--Lat 40°30'24", long 82°34'36", in SW 1/4 sec. 19, T.8 N., R.14 W., Knox County, at dam on North Branch Kokosing River, 2.5 mi (4.0 km) northwest of Fredericktown, and 3.0 mi (4.8 km) upstream from East Branch Kokosing River. Drainage area, 44.5 mi² (115 km²). Period of record, July 1973 to current year. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 2,330 acre-ft (2.87 hm³) Jan. 19, elevation, 1,127.17 ft (343.561 m); minimum, 980 acre-ft (1.18 hm³) Aug. 1, 2, 27, elevation 721.00 ft (219.788 m). Extremes for period of record: Maximum contents, 2,330 acre-ft (2.87 hm³) Jan. 19, 1974; elevation, 1,127.17 ft (343.561 m); minimum, 955 acre-ft (1.18 hm³) Aug. 1, 2, 27, 1975, elevation, 721.09 ft (219.788 m).
- Lake is formed by earth dam, with uncontrolled saddle spillway; storage began June 1972. Usable capacity, 940 acre-ft (1.16 hm³) between elevation, 1,108.0 ft (337.72 m) (invert of lowest outlet), and 1,121.0 ft (341.68 m) (uncontrolled entrance to outlet works). Dead storage below elevation, 1,108.0 ft (337.72 m), 103 acre-ft (127,000 m³). Additional flood retention capacity 13,840 acre-ft (17.1 hm³) between 1,121.0 ft (341.68 m) and 1,146.0 ft (349.30 m) (crest of spillway). Figures given herein represent usable contents. Reservoir is used for flood control, recreation, and conservation. Lowest outlet is normally closed to maintain a pool elevation of 1,121.0 ft (341.68 m). Water-stage recorder graph and capacity curve furnished by Corps of Engineers.
- 03138000 MOHAWK RESERVOIR.--Lat 40°21'12", long 82°05'12", in SW 1/4 sec. 6, T.6 N., R.8 W., Coshocton County, in gate house of dam on Walhonding River, 1.5 mi (2.4 km) northwest of Nellie. Drainage area, 1,504 mi² (3,895 km²). Period of record, April 1938 to current year. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 799.2 ft (243.60 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 36,460 acre-ft (45.0 hm³) Apr. 5, elevation, 840.75 ft (256.261 m); minimum, 73 acre-ft (90,000 m³) July 29, elevation, 801.00 ft (244.145 m). Extremes for period of record: Maximum contents, 176,000 acre-ft (217 hm³) Jan. 25, 1959, elevation, 873.94 ft (266.377 m); minimum, 44 acre-ft (54,300 m³) Sept. 21, Oct. 4, 1955; minimum elevation, 800.35 ft (243.947 m) Oct. 4, 1955, from graph based on gage readings.
- Reservoir is formed by earthfill dam completed Sept. 22, 1937. Usable capacity 284,900 acre-ft (351 hm³) between elevations 799.2 ft (243.60 m) (lowest outlet), and 890.0 ft (271.27 m) (crest of spillway). Dead storage below elevation 799.2 ft (243.60 m), 59 acre-ft (72,700 m³). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in tunnels through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.
- 03141000 SENECAVILLE LAKE.--Lat 39°55'31", long 81°26'06", Guernsey County, in gate house of dam on Seneca Fork, 1.5 mi (2.4 km) southeast of Senecaville. Drainage area, 118 mi² (306 km²). Period of record, June 1938 to current year. Prior to October 1971 published as Senecaville Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 812.05 ft (247.513 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Prior to Sept. 21, 1938, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 56,170 acre-ft (69.3 hm³) Sept. 6, elevation, 836.03 ft (254.822 m); minimum, 28,200 acre-ft (34.8 hm³) Jan. 31, elevation, 828.10 ft (252.405 m). Extremes for period of record: Maximum contents, 61,430 acre-ft (75.7 hm³) Mar. 24, 1945, elevation, 837.27 ft (255.200 m); minimum, 360 acre-ft (444,000 m³) Oct. 22, 23, 1939, elevation, 812.53 ft (247.659 m).
- Lake is formed by earthfill dam completed May 14, 1937. Usable capacity 86,340 acre-ft (106 hm³) between elevations 812.05 ft (247.513 m) (lowest outlet), and 842.5 ft (256.79 m) (top of taintor gates), of which 41,300 acre-ft (50.9 hm³) is in conservation pool. Usable capacity at elevation, 831.0 ft (253.29 m) (crest of spillway), 37,180 acre-ft (45.8 hm³). Dead storage below elevation 812.05 ft (247.513 m), 1,950 acre-ft (2.40 hm³). Figures given herein represent usable contents. Taintor gates normally remain closed to maintain conservation pool at elevation 832.2 ft (253.65 m) and outflow is controlled by gates in conduits through dam. Lake is used for flood control and conservation. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.
- 03142290 SALT FORK RESERVOIR.--Lat 40°06'15", long 81°33'15", in T.3 N., R.3 W., Guernsey County, at outlet works near left end of dam on Salt Fork, 0.8 mi (1.3 km) upstream from mouth, and 5.0 mi (8.0 km) north of Cambridge. Drainage area, 159 mi² (412 km²). Period of record, September 1968 to current year. Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 54,280 acre-ft (66.9 hm³) Sept. 4, 5, elevation, 803.75 ft (244.983 m); minimum, 41,350 acre-ft (51.0 hm³) Oct. 27, elevation, 799.80 ft (243.779 m). Extremes for period of record: Maximum contents, 55,470 acre-ft (68.4 hm³) Apr. 25, 1970, elevation, 804.09 ft (245.087 m); minimum, 12,200 acre-ft (15.0 hm³) Oct. 17, 1968, elevation, 786.53 ft (239.734 m).
- Reservoir is formed by earthfill dam with concrete morning-glory spillway and emergency spillway cut in natural rock; storage began Dec. 30, 1967. Usable capacity, 41,950 acre-ft (51.7 hm³) between elevations 772.5 ft (235.46 m) (invert of lowest outlet), and 800.0 ft (243.84 m) (crest of morning-glory spillway). Dead storage below elevation 772.5 ft (235.46 m), 1,250 acre-ft (1.54 hm³). Additional flood-retention capacity, 28,600 acre-ft (35.3 hm³) between elevations 800.0 ft (243.84 m) and 808.0 ft (246.28 m) (crest of emergency spillway). Figures given herein represent usable contents. There are no gates on spillway and all regulation is done by conduits through dam. Reservoir is used for recreation, flood control, and future municipal supply. Capacity curve furnished by State Department of Natural Resources.

Reservoirs in Muskingum River Basin--Continued

03143000 WILLS CREEK LAKE.--Lat 40°09'25", long 81°51'00", in SE 1/4 sec. 23, T.4 N., R.6 W., Coshocton County, in gate house of dam on Wills Creek, 1.3 mi (2.1 km) south of village of Wills Creek. Drainage area, 842 mi² (2,181 km²). Period of record, April 1938 to current year. Prior to October 1971 published as Wills Creek Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 733.0 ft (223.42 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 32,520 acre-ft (40.1 hm³) Apr. 8, elevation, 755.63 ft (230.316 m); minimum, 3,830 acre-ft (4.72 hm³) Oct. 25-28, elevation, 741.30 ft (225.948 m). Extremes for period of record: Maximum contents, 169,700 acre-ft (209 hm³) Mar. 15, 1964, elevation, 776.73 ft (236.747 m); minimum, 300 acre-ft (370,000 m³) Oct. 22, 23, 1939, elevation, 734.10 ft (223.754 m).

Lake is formed by earthfill dam completed Oct. 13, 1937. Usable capacity, 194,400 acre-ft (240 hm³) between elevations 733.0 ft (223.42 m) (lowest outlet), and 779.0 ft (237.44 m) (crest of spillway), of which 4,420 acre-ft (5.45 hm³) is in conservation pool. Dead storage below elevation 733.0 ft (223.42 m), 1,580 acre-ft (1.95 hm³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03147300 DILLON LAKE.--Lat 39°59'32", long 82°04'57", in T.1 N., R.8 W., Muskingum County, in outlet works of control tower at dam on Licking River, 2 mi (3 km) northwest of Dillon Falls, and 5.8 mi (9.3 km) upstream from mouth. Drainage area, 742 mi² (1,922 km²). Period of record, January 1961 to current year. Prior to October 1971 published as Dillon Reservoir. Water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 74,530 acre-ft (91.9 hm³) Apr. 6, elevation, 757.76 ft (230.965 m); minimum, 12,870 acre-ft (15.9 hm³) Jan. 3, elevation, 733.81 ft (223.665 m). Extremes for period of record: Maximum contents, 142,600 acre-ft (176 hm³) Mar. 13, 1964, elevation, 772.88 ft (235.574 m); minimum observed, 208 acre-ft (256,000 m³) Mar. 31, 1961, elevation, 710.94 ft (216.694 m).

Lake formed by earth dam with concrete spillway; closure of dam made July 29, 1959; storage to maintain conservation pool began Dec. 17, 1960. Usable capacity 274,000 acre-ft (338 hm³) between elevations 704.0 ft (214.58 m) (lowest outlet), and 790.0 ft (240.79 m) (crest of spillway), of which 13,170 acre-ft (16.2 hm³) is in conservation pool. Dead storage below elevation 704.0 ft (214.58 m), 30 acre-ft (37,000 m³). Figures given herein represent usable contents. Lake is used primarily for flood control. There are no gates on spillway and all regulation is done by gates in conduits through abutment of dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)
03119500 Bolivar Reservoir				03120000 Leesville Lake		
Sept. 30.....	898.62	251	-	962.68	18,850	-
Oct. 31.....	906.82	2,190	+1,939	961.95	18,120	-730
Nov. 30.....	911.39	4,660	+2,470	959.02	15,440	-2,680
Dec. 31.....	901.28	631	-4,029	957.60	14,180	-1,260
CAL YR 1973.....	-	-	+263	-	-	+390
Jan. 31.....	903.70	1,160	+529	959.63	15,990	+1,810
Feb. 28.....	900.71	532	-628	958.42	14,900	-1,090
Mar. 31.....	915.12	7,400	+6,868	962.80	18,970	+4,070
Apr. 30.....	900.30	467	-6,933	962.83	19,000	+30
May 31.....	902.43	862	+395	962.85	19,020	+20
June 30.....	898.04	190	-672	962.67	18,840	-180
July 31.....	897.13	116	-74	962.60	18,770	-70
Aug. 31.....	899.86	402	+286	964.74	20,950	+2,180
Sept. 30.....	898.10	196	-206	962.81	18,980	-1,970
WTR YR 1974.....	-	-	-55	-	-	+130
03121000 Atwood Lake				03122000 Dover Lake		
Sept. 30.....	927.80	23,290	-	866.21	9.6	-
Oct. 31.....	928.32	24,100	+810	872.25	520	+510.4
Nov. 30.....	925.57	19,990	-4,110	875.58	1,670	+1,150
Dec. 31.....	923.34	17,030	-2,960	870.34	221	-1,449
CAL YR 1973.....	-	-	-6,670	-	-	+133
Jan. 31.....	924.54	18,590	+1,560	871.08	310	+89
Feb. 28.....	923.95	17,830	-760	868.50	88	-222
Mar. 31.....	929.66	26,250	+8,420	873.25	769	+681
Apr. 30.....	927.87	23,400	-2,850	868.47	86	-683
May 31.....	928.06	23,690	+290	871.25	338	+252
June 30.....	927.64	23,050	-640	865.78	3.9	-334.1
July 31.....	927.52	22,870	-180	865.09	0.4	-3.5
Aug. 31.....	928.43	24,280	+1,410	871.33	351	+350.6
Sept. 30.....	927.70	23,140	-1,140	865.79	4.0	-347
WTR YR 1974.....	-	-	-150	-	-	-5.6

MUSKINGUM RIVER BASIN

Reservoirs in Muskingum River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)
03123500 Beach City Lake				03125500 Piedmont Lake		
Sept. 30.....	948.83	2,080	-	912.46	32,300	-
Oct. 31.....	949.57	2,470	+390	912.48	32,350	+50
Nov. 30.....	954.70	6,460	+3,990	911.77	30,770	-1,580
Dec. 31.....	949.70	2,540	-3,920	908.57	24,200	-6,570
CAL YR 1973.....	-	-	-40	-	-	-3,340
Jan. 31.....	949.88	2,640	+100	909.03	25,090	+890
Feb. 28.....	949.69	2,530	-110	910.24	27,520	+2,430
Mar. 31.....	956.05	7,920	+5,390	912.54	32,480	+4,960
Apr. 30.....	949.86	2,620	-5,300	913.16	33,870	+1,390
May 31.....	949.84	2,610	-10	913.12	33,780	-90
June 30.....	949.45	2,400	-210	913.16	33,870	+90
July 31.....	948.48	1,920	-480	912.96	33,420	-450
Aug. 31.....	950.65	3,110	+1,190	913.35	34,310	+890
Sept. 30.....	948.63	1,990	-1,120	913.18	33,920	-390
WTR YR 1974.....	-	-	-90	-	-	+1,620
03126500 Clendening Lake				03128000 Tappan Lake		
Sept. 30.....	897.36	25,380	-	898.58	33,390	-
Oct. 31.....	897.63	25,840	+460	898.67	33,600	+210
Nov. 30.....	896.85	24,520	-1,320	896.85	29,540	-4,060
Dec. 31.....	892.92	18,360	-6,160	895.83	27,400	-2,140
CAL YR 1973.....	-	-	-3,670	-	-	+1,770
Jan. 31.....	892.79	18,180	-180	895.18	26,030	-1,370
Feb. 28.....	893.75	19,520	+1,340	895.53	26,770	+740
Mar. 31.....	897.59	25,780	+6,260	899.40	35,310	+8,540
Apr. 30.....	897.93	26,350	+570	899.33	35,150	-160
May 31.....	897.96	26,400	+50	899.43	35,390	+240
June 30.....	897.85	26,220	-180	899.34	35,170	-220
July 31.....	897.73	26,010	-210	899.07	34,520	-650
Aug. 31.....	898.93	28,240	+2,230	899.76	36,180	+1,660
Sept. 30.....	897.87	26,250	-1,990	899.28	35,030	-1,150
WTR YR 1974.....	-	-	+870	-	-	+1,640
03129500 Charles Mill Lake				03133000 Pleasant Hill Lake		
Sept. 30.....	997.15	7,300	-	1,019.40	13,020	-
Oct. 31.....	997.45	7,720	+420	1,019.62	13,200	+180
Nov. 30.....	999.04	10,050	+2,330	1,020.50	13,960	+760
Dec. 31.....	998.92	9,870	-180	1,019.57	13,160	-800
CAL YR 1973.....	-	-	+1,660	-	-	+8,850
Jan. 31.....	1,003.70	19,240	+9,370	1,020.79	14,220	+1,060
Feb. 28.....	997.52	7,820	-11,420	1,014.22	9,150	-5,070
Mar. 31.....	997.71	8,080	+260	1,022.93	16,150	+7,000
Apr. 30.....	997.37	7,610	-470	1,019.99	13,500	-2,650
May 31.....	998.36	9,030	+1,420	1,019.92	13,450	-50
June 30.....	997.25	7,440	-1,590	1,019.50	13,100	-350
July 31.....	997.23	7,410	-30	1,019.07	12,750	-350
Aug. 31.....	998.47	9,200	+1,790	1,019.65	13,220	+470
Sept. 30.....	997.46	7,730	-1,470	1,019.39	13,010	-210
WTR YR 1974.....	-	-	+430	-	-	-10

MUSKINGUM RIVER BASIN

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Reservoirs in Muskingum River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)
03134500 Mohicanville Reservoir				03136300 North Branch Kokosing River Lake		
Sept. 30.....	933.59	49	-	1,121.31	991	-
Oct. 31.....	934.66	101	+52	1,121.61	1,040	+49
Nov. 30.....	942.01	1,580	+1,479	1,122.18	1,140	+100
Dec. 31.....	935.99	187	-1,393	1,122.01	1,110	-30
CAL YR 1973.....	-	-	-25	-	-	-
Jan. 31.....	948.99	16,350	+16,163	1,122.03	1,110	0
Feb. 28.....	936.65	238	-16,112	1,122.20	1,140	+30
Mar. 31.....	938.14	373	+135	1,122.40	1,180	+40
Apr. 30.....	934.84	111	-262	1,121.69	1,050	-130
May 31.....	935.56	158	+47	1,121.43	1,010	-40
June 30.....	933.72	54	-104	1,121.35	998	-12
July 31.....	933.35	40	-14	1,121.10	956	-42
Aug. 31.....	935.43	149	+109	1,121.79	1,070	+114
Sept. 30.....	934.18	75	-74	1,121.34	996	-74
WTR YR 1974.....	-	-	+26	-	-	+5
03138000 Mohawk Reservoir				03141000 Senecaville Lake		
Sept. 30.....	802.66	174	-	831.68	39,490	-
Oct. 31.....	804.35	312	+138	831.66	39,430	-60
Nov. 30.....	812.38	1,600	+1,288	830.05	34,060	-5,370
Dec. 31.....	808.40	794	-806	828.27	28,690	-5,370
CAL YR 1973.....	-	-	-1,596	-	-	-3,570
Jan. 31.....	811.72	1,430	+636	828.17	28,400	-290
Feb. 28.....	822.35	6,950	+5,520	829.50	32,350	+3,950
Mar. 31.....	822.70	7,250	+300	831.69	39,530	+7,180
Apr. 30.....	804.49	325	-6,925	832.23	41,410	+1,880
May 31.....	805.90	468	+143	832.66	42,950	+1,540
June 30.....	802.51	164	-304	833.06	44,400	+1,450
July 31.....	801.68	111	-53	832.32	41,730	-2,670
Aug. 31.....	804.63	338	+227	833.21	44,970	+3,240
Sept. 30.....	801.79	117	-221	833.17	44,810	-160
WTR YR 1974.....	-	-	-57	-	-	+5,320
03142290 Salt Fork Reservoir				03143000 Wills Creek Lake		
Sept. 30.....	800.01	41,980	-	741.52	4,020	-
Oct. 31.....	800.34	43,000	+1,020	742.90	5,300	+1,280
Nov. 30.....	800.25	42,720	-280	749.40	15,520	+10,220
Dec. 31.....	801.52	46,710	+3,990	744.13	6,730	-8,790
CAL YR 1973.....	-	-	-1,060	-	-	-470
Jan. 31.....	801.91	47,960	+1,250	744.68	7,460	+730
Feb. 28.....	801.36	46,200	-1,760	743.48	5,960	-1,500
Mar. 31.....	802.08	48,520	+2,320	744.72	7,520	+1,560
Apr. 30.....	801.20	45,690	-2,830	743.18	5,610	-1,910
May 31.....	801.76	47,480	+1,790	744.69	7,480	+1,870
June 30.....	801.61	47,000	-480	744.35	7,030	-450
July 31.....	800.52	43,560	-3,440	742.37	4,780	-2,250
Aug. 31.....	802.18	48,860	+5,300	745.83	9,160	+4,380
Sept. 30.....	801.08	45,310	-3,550	743.75	6,270	-2,890
WTR YR 1974.....	-	-	+3,330	-	-	+2,250

MUSKINGUM RIVER BASIN

Reservoirs in Muskingum River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)
03147300 Dillon Lake			
Sept. 30.....	737.26	17,880	-
Oct. 31.....	737.12	17,650	-230
Nov. 30.....	757.05	71,820	+54,170
Dec. 31.....	733.97	13,080	-58,740
CAL YR 1973.....	-	-	-410
Jan. 31.....	737.70	18,580	+5,500
Feb. 28.....	734.18	13,370	-5,210
Mar. 31.....	745.12	33,450	+20,080
Apr. 30.....	737.21	17,800	-15,650
May 31.....	737.34	18,000	+200
June 30.....	737.11	17,640	-360
July 31.....	737.52	18,290	+650
Aug. 31.....	737.22	17,810	-480
Sept. 30.....	737.12	17,650	-160
WTR YR 1974.....	-	-	-230

03156000 Hunters Run at Lancaster, Ohio

LOCATION.--Lat 39°41'57", long 82°37'18", in NE 1/4 sec. 11, T.14 N., R.19 W., Fairfield County, on right bank at downstream side of bridge on U.S. Highway 22, 1.0 mi (1.6 km) southwest of Lancaster, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--10.0 mi² (25.9 km²).

PERIOD OF RECORD.--January 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 823.6 ft (251.03 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 9.76 ft³/s (0.276 m³/s), 13.25 in/yr (336.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 338 ft³/s (9.57 m³/s) Apr. 2, gage height, 4.37 ft (1.332 m); minimum daily, 1.5 ft³/s (0.042 m³/s) July 27, 28.

Period of record: Maximum discharge, 1,820 ft³/s (51.5 m³/s) May 27, 1968, gage height, 8.00 ft (2.438 m), from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of slope-area measurement at gage height, 7.09 ft (2.161 m); minimum, 0.28 ft³/s (0.008 m³/s) Aug. 3, 4, 1969.

Flood of July 21 or 22, 1948 reached a stage of 15.4 ft (4.69 m), discharge, 11,200 ft³/s (317 m³/s), on basis of contracted-opening measurement of peak flow at Pennsylvania Railroad bridge, 0.8 mi (1.3 km) upstream.

REMARKS.--Records fair except Oct. 1 to Nov. 25 which is poor. Flood affected by temporary retention in four retarding basins upstream from station, combined capacity, 2,820 acre-ft (3.48 km³). Controlled drainage area is 8.49 mi² (22.0 km²). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	18	16	15	14	10	22	11	17	8.0	1.7	56
2	12	10	14	13	13	10	111	12	10	6.0	2.0	46
3	6.0	8.0	13	13	12	9.7	69	20	8.0	5.5	8.0	58
4	5.0	7.0	13	12	12	9.1	92	12	7.0	5.0	6.0	40
5	6.5	7.0	14	12	11	10	29	10	6.5	4.5	3.2	17
6	3.6	6.0	11	11	26	9.1	24	9.7	8.0	4.5	4.0	7.0
7	3.2	5.5	10	10	67	9.1	21	9.1	9.7	4.0	10	5.2
8	2.8	5.0	9.7	10	19	8.5	45	9.1	7.0	4.0	21	4.4
9	2.8	5.5	9.7	15	13	8.5	35	10	6.5	3.6	21	3.9
10	2.8	4.5	9.1	26	11	7.5	24	9.1	5.5	4.0	17	3.4
11	2.8	4.0	8.0	31	11	7.5	20	8.5	5.0	29	13	3.2
12	2.4	4.5	8.0	19	12	7.5	18	16	5.5	7.0	13	3.0
13	2.8	4.5	12	15	12	7.0	17	12	5.0	4.5	12	4.5
14	3.2	4.5	13	16	12	6.5	16	9.7	4.5	3.6	9.7	7.2
15	2.4	10	11	41	9.7	7.5	14	9.1	8.5	3.6	8.5	5.2
16	2.4	14	9.7	29	9.7	19	13	8.0	6.5	2.8	8.0	4.5
17	2.4	8.0	8.5	21	9.1	12	13	13	6.5	2.8	22	4.0
18	2.4	7.0	8.2	20	8.5	9.7	12	55	5.0	2.4	18	4.4
19	2.4	6.0	7.5	27	12	9.1	12	17	4.5	2.4	17	4.5
20	2.8	5.5	28	23	12	8.5	11	12	5.0	2.4	14	7.0
21	2.8	6.0	21	24	10	13	11	9.7	5.0	2.0	12	15
22	2.8	5.5	14	19	20	11	15	9.1	8.0	2.0	9.7	8.5
23	2.8	4.5	12	40	15	9.7	15	9.7	61	2.4	8.5	6.0
24	2.8	6.5	12	26	12	10	12	9.7	15	2.4	7.5	5.5
25	2.8	120	13	20	11	9.7	11	7.5	17	2.0	8.0	5.0
26	2.8	71	40	18	10	12	9.1	7.0	15	2.0	9.7	4.5
27	2.8	49	36	19	10	13	8.5	6.5	10	1.7	10	4.5
28	6.0	78	19	21	11	12	9.1	6.0	12	1.7	15	5.0
29	19	27	16	21	-----	12	8.5	13	12	4.0	32	5.5
30	17	19	21	17	-----	27	9.7	11	8.0	2.8	78	5.5
31	12	-----	18	16	-----	21	-----	19	-----	2.0	50	-----
TOTAL	160.3	531.0	455.4	620	405.0	336.2	726.9	380.5	304.2	134.6	469.5	353.4
MEAN	5.17	17.7	14.7	20.0	14.5	10.8	24.2	12.3	10.1	4.34	15.1	11.8
MAX	19	120	40	41	67	27	111	55	61	29	78	58
MIN	2.4	4.0	7.5	10	8.5	6.5	8.5	6.0	4.5	1.7	1.7	3.0
CFSM	.52	1.77	1.47	2.00	1.45	1.08	2.42	1.23	1.01	.43	1.51	1.18
IN.	.60	1.98	1.69	2.31	1.51	1.25	2.70	1.42	1.13	.50	1.75	1.31

CAL YR 1973 TOTAL 4,878.8 MEAN 13.4 MAX 120 MIN 1.7 CFSM 1.34 IN 18.15
WTR YR 1974 TOTAL 4,877.0 MEAN 13.4 MAX 120 MIN 1.7 CFSM 1.34 IN 18.14

PEAK DISCHARGE (BASE, 250 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	0630	4.21	288	4-03	2030	4.31	322
4-02	0100	4.37	338				

HOCKING RIVER BASIN

03156400 Hocking River at Lancaster, Ohio

LOCATION.--Lat 39°42'24", long 82°36'03", in NE 1/4 sec.12, T.14 N., R.19 W., Fairfield County, on right bank 25 ft (8 m) upstream from Columbus Street Bridge in Lancaster, and 0.5 mi (0.8 km) downstream from Hunters Run.

DRAINAGE AREA.--48.2 mi² (125 km²).

PERIOD OF RECORD.--June 1956 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 797.9 ft (243.20 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 41.5 ft³/s (1.175 m³/s).

EXTREMES.--Current year: Maximum discharge, 958 ft³/s (27.1 m³/s) May 18, gage height, 8.22 ft (2.505 m); minimum, 8.1 ft³/s (0.23 m³/s) Oct. 1.

Period of record: Maximum discharge, 3,520 ft³/s (99.7 m³/s) May 27, 1968, gage height, 15.75 ft (4.801 m); minimum, 0.80 ft³/s (0.023 m³/s) Sept. 17, 1964; minimum gage height, 1.63 ft (0.497 m) Jan. 4, 5, 1959.

REMARKS.--Records good. Some diurnal fluctuation caused by industrial plants upstream from station. Water supply for city of Lancaster is pumped from wells adjacent to the Hocking River 1.1 mi (1.8 km) upstream from station. The pumpage averaged 8.5 ft³/s (0.24 m³/s) in 1974 and is returned as sewage 0.8 mi (1.3 km) downstream from the station. Flood flow affected by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft (10.7 hm³), upstream from station. Controlled drainage area is 24.4 mi² (63.2 km²), data furnished by U.S. Department of Agriculture Soil Conservation Service. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	54	66	59	48	42	84	31	90	50	13	137
2	33	35	54	48	47	42	420	49	52	39	19	113
3	21	25	47	49	42	39	244	73	40	35	49	131
4	23	20	51	46	38	36	421	42	34	32	28	118
5	26	20	52	39	35	43	141	33	31	31	17	59
6	19	17	42	38	85	37	95	30	40	31	14	38
7	15	15	35	35	369	35	73	27	41	29	13	30
8	14	15	33	29	125	33	180	27	30	27	33	25
9	13	15	31	51	70	31	175	32	29	27	20	22
10	12	14	29	107	54	30	101	26	25	52	20	20
11	12	13	26	138	48	28	74	24	27	167	22	19
12	11	13	26	78	47	28	63	64	26	53	23	18
13	12	13	41	55	50	25	55	43	24	35	17	32
14	12	13	48	51	50	24	50	31	22	29	17	46
15	12	35	40	162	43	29	44	29	53	26	15	28
16	11	40	35	151	40	89	40	25	40	23	16	22
17	11	29	29	91	37	55	37	84	36	22	38	19
18	11	23	25	81	35	41	35	610	27	21	24	18
19	11	21	24	148	47	36	33	239	25	20	23	17
20	11	19	99	111	56	32	31	96	26	20	16	37
21	11	20	112	106	46	54	29	59	92	20	14	58
22	12	18	59	77	92	46	47	48	87	19	14	36
23	11	17	45	161	72	38	41	46	467	19	14	25
24	11	23	39	123	54	41	33	51	142	20	15	21
25	11	537	46	79	46	35	29	37	130	18	17	19
26	11	398	143	68	40	44	28	33	116	16	15	18
27	11	306	187	71	39	56	26	30	75	15	15	18
28	21	417	87	85	42	46	25	27	83	15	27	17
29	65	170	101	90	-----	51	24	89	88	32	86	18
30	56	93	100	67	-----	159	33	103	60	17	228	16
31	42	-----	74	57	-----	112	-----	118	-----	14	65	-----
TOTAL	624	2,448	1,826	2,551	1,797	1,437	2,711	2,256	2,058	974	947	1,195
MEAN	20.1	81.6	58.9	82.3	64.2	46.4	90.4	72.8	68.6	31.4	30.5	39.8
MAX	72	537	187	162	369	159	421	610	467	167	228	137
MIN	11	13	24	29	35	24	24	24	22	14	13	16

CAL YR 1973 TOTAL 21,830.2 MEAN 59.8 MAX 1,140 MIN 8.1
WTR YR 1974 TOTAL 20,824.0 MEAN 57.1 MAX 610 MIN 11

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1115	7.90	889	5-18	0600	8.22	958
4-03	2130	7.29	761	6-23	0230	7.57	828

03157000 Clear Creek near Rockbridge, Ohio

LOCATION.--Lat 39°35'18", long 82°34'43", in NE 1/4 sec.20, T.13 N., R.18 W., Hocking County, on left bank at upstream side of county road bridge, 400 ft (122 m) downstream from unnamed right bank tributary, 2.0 mi (3.2 km) upstream from mouth, and 3 mi (5 km) west of Rockbridge.

DRAINAGE AREA.--89.0 mi² (231 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 760.13 ft (231.688 m) above mean sea level, adjustment of 1912. Prior to May 2, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 85.2 ft³/s (2.413 m³/s), 13.00 in/yr (330.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,930 ft³/s (54.7 m³/s) Apr. 2, gage height, 8.08 ft (2.463 m); minimum, 19 ft³/s (0.54 m³/s) Oct. 1.

Period of record: Maximum discharge, 16,000 ft³/s (453 m³/s) July 22, 1948, gage height, 17.68 ft (5.389 m) (from high-water mark in well), from rating curve extended above 4,300 ft³/s (122 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.0 ft³/s (0.085 m³/s) Dec. 29, 1947, result of freezeup.

REMARKS.--Records good except for period of no gage-height record, which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1305: 1940(M), 1943(M), 1945(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	71	123	131	120	81	153	85	236	90	21	324
2	73	50	102	114	100	82	990	72	131	74	21	187
3	31	38	91	120	94	81	410	232	97	66	28	226
4	25	32	87	124	86	74	737	144	80	60	36	211
5	28	31	98	114	80	84	321	112	69	56	24	109
6	23	29	80	100	90	77	258	99	73	52	22	74
7	21	27	68	86	400	74	196	85	122	48	22	59
8	21	26	63	100	220	69	405	80	73	45	47	50
9	20	28	61	126	130	67	374	88	73	41	29	43
10	19	25	58	243	100	63	230	76	59	39	28	39
11	19	24	50	412	95	59	178	68	50	74	24	37
12	20	24	46	225	95	62	153	148	49	54	29	35
13	19	24	61	160	104	55	136	119	45	45	24	54
14	21	24	86	150	101	52	127	89	41	40	24	102
15	20	29	69	381	86	54	110	78	88	35	22	62
16	19	71	61	364	82	140	99	70	64	31	21	49
17	19	46	52	243	77	97	89	80	82	29	35	41
18	19	39	47	201	73	80	83	540	72	27	25	36
19	19	36	43	380	87	75	77	228	64	26	25	32
20	19	32	147	310	108	68	72	147	60	25	22	30
21	19	32	197	250	86	96	69	115	300	24	21	47
22	19	31	101	220	140	88	92	102	240	24	21	58
23	19	29	92	350	123	77	113	106	900	24	20	39
24	19	32	92	270	97	79	83	124	600	25	20	35
25	19	540	101	180	86	71	72	93	450	24	20	31
26	19	529	212	160	77	85	68	78	300	23	21	31
27	19	454	354	170	76	98	64	69	230	22	20	29
28	24	792	159	190	82	85	62	62	190	22	25	29
29	43	292	193	160	-----	86	58	80	140	25	60	30
30	63	166	195	140	-----	219	62	125	110	24	211	28
31	49	-----	146	130	-----	227	-----	205	-----	22	95	-----
TOTAL	834	3,603	3,335	6,304	3,095	2,705	5,941	3,799	5,088	1,216	1,063	2,157
MEAN	26.9	120	108	203	111	87.3	198	123	170	39.2	34.3	71.9
MAX	73	792	354	412	400	227	990	540	900	90	211	324
MIN	19	24	43	86	73	52	58	62	41	22	20	28
CFSM	.30	1.35	1.21	2.28	1.25	.98	2.22	1.38	1.91	.44	.39	.81
IN.	.35	1.51	1.39	2.63	1.29	1.13	2.48	1.59	2.13	.51	.44	.90

CAL YR 1973 TOTAL 37,796 MEAN 104 MAX 792 MIN 17 CFSM 1.17 IN 15.80
WTR YR 1974 TOTAL 39,140 MEAN 107 MAX 990 MIN 19 CFSM 1.20 IN 16.36

PEAK DISCHARGE (BASE, 1,900 FT³/S).--Apr. 2 (0500) 1,930 ft³/s (8.08 ft).

Note: No gage-height record
Jan. 18 to Feb. 11 and
June 14 to July 24.

HOCKING RIVER BASIN

03157500 Hocking River at Enterprise, Ohio

LOCATION.--Lat 39°33'54", long 82°28'29", in NW 1/4 sec.5, T.14 N., R.17 W., Hocking County, on right bank at upstream side of abandoned bridge at Enterprise, 4.0 mi (6.4 km) downstream from Buck Run, and 4.3 mi (6.9 km) upstream from Scott Creek.

DRAINAGE AREA.--459 mi² (1,189 km²).

PERIOD OF RECORD.--October 1930 to current year. Prior to May 1931 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 723.58 ft (220.547 m) above mean sea level. Prior to Oct. 24, 1933, nonrecording gage a same site and datum.

AVERAGE DISCHARGE.--44 years, 441 ft³/s (12.49 m³/s), 13.05 in/yr (331.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,590 ft³/s (102 m³/s) Nov. 28, gage height, 9.27 ft (2.826 m); minimum, 77 ft³/s (2.18 m³/s) Oct. 21, 22, 26, 27, 28.

Period of record: Maximum discharge, 26,000 ft³/s (736 m³/s) Mar. 10, 1964, gage height, 21.31 ft (6.495 m), from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of contracted-opening and slope-area measurement of peak flow; minimum, 12 ft³/s (0.34 m³/s) Aug. 19, 1932.

Flood in March 1907, reached a stage of 22.0 ft (6.71 m), from floodmark, discharge, 36,000 ft³/s (1,020 m³/s), from reports of Corps of Engineers.

REMARKS.--Records good. Flood flow affected by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft (10.7 hm³), constructed between 1955 and 1961 upstream from Lancaster (see station 03156400). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1938. WSP 1907: Drainage area. WRD Ohio 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	503	863	654	647	469	1,090	399	1,510	410	219	995
2	399	447	670	542	603	473	2,750	350	954	340	165	1,670
3	237	276	591	522	578	469	2,210	799	591	289	207	1,850
4	155	216	546	566	526	437	2,790	762	462	261	391	1,610
5	170	191	591	519	480	458	1,870	542	383	258	354	890
6	155	178	542	488	473	484	1,270	469	343	246	188	538
7	124	158	455	469	2,030	455	1,020	410	469	222	151	426
8	112	153	418	399	1,990	495	1,100	368	361	210	283	354
9	106	153	399	451	1,100	515	1,900	395	319	190	319	302
10	102	146	391	725	741	447	1,490	368	280	178	267	273
11	96	135	361	1,450	635	410	1,090	326	243	770	191	252
12	95	128	329	1,280	566	395	886	488	234	276	183	225
13	89	128	354	816	599	361	770	791	222	193	155	270
14	93	128	455	701	599	322	685	495	204	170	141	851
15	89	130	422	890	519	312	631	418	252	155	135	462
16	87	430	380	1,530	466	616	558	372	399	146	120	312
17	84	368	350	1,170	447	697	499	333	418	135	199	264
18	82	261	289	898	414	546	455	2,090	316	128	258	231
19	81	228	322	1,250	433	480	426	2,150	249	124	286	204
20	79	204	437	1,410	603	437	391	1,210	312	124	193	202
21	79	193	1,080	1,210	546	495	365	689	910	114	135	372
22	77	199	737	1,060	607	650	395	546	950	108	118	473
23	79	185	574	1,060	733	538	578	522	2,630	106	110	292
24	79	183	507	1,420	574	507	458	526	2,250	116	106	237
25	79	1,280	499	1,030	515	477	383	451	1,420	112	104	210
26	77	2,270	654	835	451	492	358	368	1,190	104	104	196
27	77	2,750	1,310	816	440	558	336	329	839	104	100	183
28	93	3,200	898	791	458	519	319	289	616	98	124	178
29	289	2,680	729	1,020	-----	507	299	316	643	153	267	183
30	729	1,450	906	863	-----	1,060	292	1,020	484	1,020	1,090	183
31	499	-----	729	737	-----	1,560	-----	874	-----	399	1,060	-----
TOTAL	4,794	18,951	17,788	27,572	18,773	16,641	27,664	19,465	20,453	7,259	7,723	14,688
MEAN	155	632	574	889	670	537	922	628	682	234	249	490
MAX	729	3,200	1,310	1,530	2,030	1,560	2,790	2,150	2,630	1,020	1,090	1,850
MIN	77	128	289	399	414	312	292	289	204	98	100	178
CFSM	.34	1.38	1.25	1.94	1.46	1.17	2.01	1.37	1.49	.51	.54	1.07
IN.	.39	1.54	1.44	2.23	1.52	1.35	2.24	1.58	1.66	.59	.63	1.19

CAL YR 1973 TOTAL 202,576 MEAN 555 MAX 3,540 MIN 76 CFSM 1.21 IN 16.42
WTR YR 1974 TOTAL 201,771 MEAN 553 MAX 3,200 MIN 77 CFSM 1.20 IN 16.35

PEAK DISCHARGE (BASE, 3,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE
11-28	1000	9.27	3,590
4-02	1030	9.19	3,540

HOCKING RIVER BASIN

91

03158500 Burr Oak Reservoir at Burr Oak, Ohio

LOCATION.--Lat 39°32'30", long 82°03'27", near center of sec.6, T.11 N., R.14 W., Athens County, in control house at Tom Jenkins Dam on East Branch Sunday Creek, 0.2 mi (0.3 km) upstream from mouth, 0.4 mi (0.6 km) southeast of Burr Oak, and 3.0 mi (4.8 km) northeast of Glouster.

DRAINAGE AREA.--33.1 mi² (85.7 km²).

PERIOD OF RECORD.--February 1952 to current year. Published as Tom Jenkins Reservoir at Burr Oak October 1952 to September 1962.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 13,980 acre-ft (17.2 hm³) Sept. 4, elevation, 727.26 ft (221.669 m); minimum, 8,980 acre-ft (11.1 hm³) Oct. 27, elevation, 720.62 ft (219.645 m).
Period of record: Maximum contents, 17,820 acre-ft (22.0 hm³) May 31, 1968, elevation, 731.53 ft (222.970 m); minimum, 3,450 acre-ft (4.25 hm³) Nov. 20, 1953, elevation, 709.89 ft (216.374 m).

REMARKS.--Reservoir is formed by earth dam with emergency spillway; storage began Feb. 2, 1952. Capacity at spillway level, elevation, 740 ft (226 m), 26,900 acre-ft (33.2 hm³), of which 9,220 acre-ft (11.4 hm³) is in water supply pool. Dead storage, 35 acre-ft (43,200 m³). Figures given herein represent useable contents. Reservoir is used for flood control, although water supply pool is operated for increased low flow for recreation and conservation of fish and wildlife. Outflow is controlled by operation of gates in conduit through dam.

COOPERATION.--Water-stage recorder graph and capacity table furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	720.85	9,130	-
Oct. 31.....	721.10	9,290	+160
Nov. 30.....	721.05	9,260	-30
Dec. 31.....	721.41	9,500	+240
CAL YR 1973.....	-	-	+90
Jan. 31.....	721.12	9,310	-190
Feb. 28.....	721.08	9,280	-30
Mar. 31.....	721.41	9,500	+220
Apr. 30.....	721.36	9,470	-30
May 31.....	722.10	9,980	+510
June 30.....	721.30	9,430	-550
July 31.....	721.16	9,330	-100
Aug. 31.....	722.45	10,220	+890
Sept. 30.....	721.15	9,330	-890
WTR YR 1974.....	-	-	+200

HOCKING RIVER BASIN

03159000 Sunday Creek at Gloucester, Ohio

LOCATION.--Lat 39°30'03", long 82°05'07", Athens County, on left bank 150 ft (46 m) downstream from West Branch Sunday Creek and 200 ft (61 m) upstream from bridge on State Highway 78 at Gloucester.

DRAINAGE AREA.--104 mi² (269 km²).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 665.18 ft (202.747 m) above mean sea level. Prior to Dec. 4, 1951, nonrecording gage at site 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--23 years, 105 ft³/s (2.974 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,680 ft³/s (47.6 m³/s) Sept. 3, gage height, 13.40 ft (4.084 m); minimum, 3.7 ft³/s (0.10 m³/s) Oct. 12, 13, 20.

Period of record: Maximum discharge, 7,020 ft³/s (199 m³/s) Mar. 5, 1963, gage height, 17.81 ft (5.428 m), from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of velocity-area study and flow over road estimate of peak discharge; minimum, 0.4 ft³/s (0.011 m³/s) Oct. 26, 27, 1953.

Flood in March 1907 reached a stage of 22.0 ft (6.71 m), from information by Corps of Engineers.

REMARKS.--Records good. Flow partially regulated by Burr Oak Reservoir 5.2 mi (8.4 km) upstream (see station 03158500). Most of small diversion downstream from Burr Oak Reservoir, average 0.57 ft³/s (0.016 m³/s), is returned to stream upstream from station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	33	72	109	121	87	285	58	572	74	15	718
2	5.8	27	37	94	105	93	745	58	404	57	13	907
3	5.2	19	31	100	88	95	498	732	196	41	49	1,340
4	4.9	14	29	133	79	89	638	511	102	37	877	893
5	4.5	12	36	114	67	92	424	325	75	39	341	620
6	4.7	11	34	90	77	98	289	175	59	38	364	574
7	4.6	9.8	33	65	382	102	212	92	54	32	345	560
8	4.5	9.3	32	54	363	207	217	82	42	29	244	547
9	4.9	9.6	31	68	227	136	586	108	58	24	572	365
10	5.0	9.3	28	228	117	115	485	91	42	22	365	95
11	4.0	8.0	25	840	96	96	271	81	32	23	158	67
12	4.1	6.5	25	550	85	92	182	501	29	21	111	64
13	4.3	6.5	28	386	92	79	161	543	27	20	66	87
14	4.5	6.4	30	211	90	72	144	390	25	18	35	277
15	4.9	6.7	27	195	77	68	127	243	48	17	27	204
16	4.8	8.2	25	290	72	124	100	117	72	16	24	160
17	4.0	8.7	22	257	73	127	77	92	46	16	61	79
18	4.1	7.6	19	185	64	102	70	342	32	15	46	70
19	5.4	7.4	19	462	66	93	65	300	26	16	31	66
20	4.3	7.0	26	434	103	81	58	219	44	15	24	72
21	4.0	7.4	144	368	86	166	57	140	981	14	21	680
22	4.4	8.0	159	325	124	262	59	90	824	14	19	500
23	4.6	7.5	99	273	154	242	87	98	1,220	14	17	506
24	4.8	9.0	75	204	138	221	69	101	882	14	17	142
25	5.3	78	52	173	133	161	60	86	638	14	35	87
26	5.7	204	70	155	103	114	57	75	572	13	29	75
27	8.1	313	212	143	82	105	53	58	558	13	18	66
28	6.6	461	134	136	89	99	50	39	440	13	41	63
29	34	309	132	261	-----	102	48	63	107	26	64	61
30	59	192	144	226	-----	249	54	162	77	50	831	58
31	34	-----	124	145	-----	305	-----	215	-----	19	405	-----
TOTAL	267.4	1,815.9	1,954	7,274	3,353	4,074	6,228	6,187	8,284	774	5,265	10,003
MEAN	8.63	60.5	63.0	235	120	131	208	200	276	25.0	170	333
MAX	59	461	212	840	382	305	745	732	1,220	74	877	1,340
MIN	4.0	6.4	19	54	64	68	48	39	25	13	13	58

CAL YR 1973 TOTAL 36,989.6 MEAN 101 MAX 900 MIN 3.1
WTR YR 1974 TOTAL 55,479.3 MEAN 152 MAX 1,340 MIN 4.0

03159500 Hocking River at Athens, Ohio

LOCATION.--Lat 39°19'44", long 82°05'16", in T.9 N., R.14 W., Athens County, on right bank 0.8 mi (1.3 km) east of business section of Athens, 1.4 mi (2.3 km) downstream from Coats Run, and 3.0 mi (4.8 km) downstream from Margaret Creek.

DRAINAGE AREA.--943 mi² (2,442 km²).

PERIOD OF RECORD.--May 1915 to current year.

GAGE.--Water-stage recorder. Datum of gage is 611.26 ft (186.312 m) above mean sea level. Nonrecording gage prior to Aug. 17, 1931. Prior to June 19, 1970 at present site at datum 3.55 ft (1.082 m) higher. June 19, 1970, to Sept. 30, 1971 water-stage recorder at temporary site 5.3 mi (8.5 km) downstream at datum 11.26 ft (3.432 m) lower (nonrecording gage at this site and datum used as supplementary gage June 1 to Sept. 30, 1974).

AVERAGE DISCHARGE.--58 years, 977 ft³/s (27.67 m³/s).

EXTREMES.--Current year: Maximum discharge, 8,350 ft³/s (236 m³/s) June 23, gage height, 17.02 ft (5.188 m); minimum, 88 ft³/s (2.49 m³/s) Oct. 24, 25.

Period of record: Maximum discharge, 32,900 ft³/s (932 m³/s) Mar. 11, 1964, gage height, 24.18 ft (7.370 m), datum then in use; minimum, 9 ft³/s (0.25 m³/s) Oct. 11, 1930.

Flood in March 1907 reached a stage of about 27 ft (8 m), datum then in use, from floodmarks, discharge, 50,000 ft³/s (1,420 m³/s), estimated by Corps of Engineers.

REMARKS.--Records good prior to April 18, poor April 18 to May 31, and fair thereafter. Some regulation by Burr Oak Reservoir, capacity 26,900 acre-ft (33.2 hm³), on East Branch Sunday Creek 29 mi (47 km) upstream beginning 1952 (see station 03158500); by Hocking Lake, capacity 3,080 acre-ft (3.80 hm³), on Clear Fork 39.4 mi (63.4 km) upstream beginning in 1949; and by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft (10.7 hm³), constructed between 1955 and 1961 upstream from Lancaster (see station 03156400). Diurnal fluctuation at low flow caused by mill 3.2 mi (5.1 km) upstream from station. Channel work has destroyed stage-discharge relationship that existed prior to June 1970. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 523: 1918-19(M). WSP 743: 1922(M). WSP 873: 1920, 1922, 1924-28, 1937. WSP 1113: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	931	1,980	1,280	1,380	814	2,780	619	3,990	1,020	606	3,920
2	220	891	1,310	1,050	1,220	1,130	4,510	690	2,970	770	339	4,650
3	356	633	1,040	1,030	1,160	1,090	6,060	1,630	1,770	665	339	5,820
4	248	423	895	1,530	1,010	958	4,900	2,020	1,180	613	810	7,530
5	209	332	864	1,220	886	886	4,720	1,230	766	547	993	4,110
6	189	286	882	1,010	830	994	3,070	981	707	521	759	2,380
7	186	262	754	895	1,940	1,100	2,310	838	752	478	735	1,800
8	165	237	643	774	3,600	1,110	1,970	722	742	433	909	1,560
9	150	223	587	864	2,720	1,190	3,430	694	728	386	871	1,180
10	143	216	552	2,250	1,660	1,020	3,900	750	717	381	1,270	838
11	138	206	517	5,670	1,270	895	2,740	601	596	466	1,010	696
12	130	189	475	4,640	1,120	842	2,020	1,120	475	606	672	665
13	123	183	454	2,640	1,090	762	1,710	2,890	406	447	463	682
14	120	183	542	1,850	1,140	662	1,470	2,100	367	326	350	860
15	120	195	612	1,540	1,030	619	1,270	1,160	386	273	280	993
16	120	321	545	2,250	882	838	1,140	573	623	247	209	693
17	115	517	486	2,460	818	1,420	967	702	752	251	298	537
18	113	433	426	1,870	766	1,160	864	2,300	665	251	469	531
19	105	339	384	2,230	758	981	750	3,060	586	225	409	521
20	98	300	430	3,470	1,020	873	730	1,890	525	205	381	472
21	98	279	1,150	2,810	1,110	1,100	722	838	1,190	211	339	1,030
22	98	272	1,590	2,490	985	1,650	686	855	3,400	194	261	2,080
23	100	269	1,100	2,020	1,270	1,440	859	1,000	7,090	165	225	1,640
24	100	283	895	2,250	1,170	1,210	1,030	754	7,950	167	207	1,060
25	90	931	766	2,120	1,010	1,150	802	647	6,160	186	200	707
26	98	3,080	834	1,680	882	1,030	702	479	3,830	163	275	576
27	95	4,620	1,910	1,620	786	1,040	678	384	2,700	149	258	478
28	118	5,070	2,010	1,650	794	1,020	650	402	2,130	159	270	444
29	328	4,980	1,500	2,180	-----	999	633	458	1,670	207	508	447
30	1,190	3,560	1,610	2,080	-----	1,930	605	1,230	1,290	716	4,090	439
31	1,210	-----	1,540	1,640	-----	3,040	-----	1,620	-----	1,090	4,960	-----
TOTAL	6,747	30,644	29,283	63,063	34,307	34,953	58,678	35,237	57,113	12,518	23,765	49,339
MEAN	218	1,021	945	2,034	1,225	1,128	1,956	1,137	1,904	404	767	1,645
MAX	1,210	5,070	2,010	5,670	3,600	3,040	6,060	3,060	7,950	1,090	4,960	7,530
MIN	90	183	384	774	758	619	605	384	367	149	200	439

CAL YR 1973 TOTAL 412,385 MEAN 1,130 MAX 8,090 MIN 90
WTR YR 1974 TOTAL 435,647 MEAN 1,194 MAX 7,950 MIN 90

PEAK DISCHARGE (BASE, 7,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE
6-23	1130	17.02	8,350
9-04	0100	16.09	7,830

SHADE RIVER BASIN

03159540 Shade River near Chester, Ohio

LOCATION.--Lat 39°03'49", long 81°52'55", in NE 1/4 sec.10, T.3 N., R.12 W., Meigs County, on right bank at downstream side of bridge on Oak Hill Road, 200 ft (61 m) upstream from Sugar Run, 2.8 mi (4.5 km) southeast of Chester, and 8.5 mi (13.7 km) northeast of Pomeroy.

DRAINAGE AREA.--156 mi² (404 km²), includes that of Sugar Run.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956, 1962-64, June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 576.91 ft (175.842 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 169 ft³/s (4.786 m³/s), 14.71 in/yr (373.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,880 ft³/s (138 m³/s) Jan. 11, gage height, 22.34 ft (6.809 m); minimum, 1.8 ft³/s (0.051 m³/s) Aug. 27.
Period of record: Maximum discharge, 8,170 ft³/s (231 m³/s) May 25, 1968, gage height, 27.39 ft (8.348 m); minimum, 0.30 ft³/s (0.008 m³/s) Sept. 7, 8, 9, 10, 1966.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	571	259	220	187	71	279	31	267	81	5.5	119
2	34	323	185	160	170	993	1,290	34	212	68	5.2	210
3	26	160	153	369	220	587	644	187	98	49	6.4	307
4	22	110	136	1,300	144	269	1,240	232	53	38	21	875
5	20	127	146	466	99	226	532	86	36	33	63	189
6	19	153	127	300	86	278	332	58	28	29	23	89
7	17	98	100	231	318	554	263	43	33	26	12	55
8	37	80	85	168	282	357	247	34	34	24	46	43
9	41	91	78	208	161	242	597	40	24	20	159	36
10	25	105	72	1,500	116	180	406	44	20	17	34	32
11	20	77	64	4,300	96	144	263	31	14	14	19	31
12	17	67	59	3,000	100	245	201	837	12	12	14	28
13	16	62	68	397	198	167	195	821	11	10	15	26
14	15	58	108	278	331	119	191	189	9.1	8.3	9.9	98
15	15	81	94	248	174	104	148	104	13	7.7	7.0	78
16	16	924	79	224	117	242	112	69	245	16	5.5	38
17	14	334	69	159	101	302	94	50	75	19	4.5	28
18	13	167	51	119	80	200	80	1,340	28	11	25	24
19	13	130	50	161	93	161	67	1,600	26	15	18	21
20	12	110	52	235	254	134	58	259	99	23	9.1	19
21	12	93	139	266	154	530	50	146	198	9.9	5.8	35
22	11	97	100	245	150	669	48	101	222	6.4	4.2	323
23	11	86	94	182	176	276	93	389	2,430	6.7	3.4	94
24	11	81	85	195	116	201	69	350	2,220	6.4	5.0	49
25	11	343	82	146	107	140	46	182	318	6.1	3.2	35
26	11	1,080	203	136	78	121	40	99	269	7.7	2.7	29
27	11	1,930	768	361	72	106	36	69	189	6.7	2.8	26
28	22	2,420	331	616	75	93	32	51	140	8.3	9.9	24
29	873	1,240	267	1,140	-----	295	29	44	125	6.7	201	26
30	1,960	395	479	409	-----	712	26	62	104	6.7	539	27
31	820	-----	300	269	-----	490	-----	57	-----	8.0	810	-----
TOTAL	4,208	11,593	4,883	18,008	4,255	9,208	7,708	7,639	7,552.1	600.6	2,089.1	3,014
MEAN	136	386	158	581	152	297	257	246	252	19.4	67.4	100
MAX	1,960	2,420	768	4,300	331	993	1,290	1,600	2,430	81	810	875
MIN	11	58	50	119	72	71	26	31	9.1	6.1	2.7	19
CFSM	.87	2.47	1.01	3.72	.97	1.90	1.65	1.58	1.62	.12	.43	.64
IN.	1.00	2.76	1.16	4.29	1.01	2.20	1.84	1.82	1.80	.14	.50	.72

CAL YR 1973 TOTAL 79,839.6 MEAN 219 MAX 3,110 MIN 5.4 CFSM 1.40 IN 19.04
WTR YR 1974 TOTAL 80,757.8 MEAN 221 MAX 4,300 MIN 2.7 CFSM 1.42 IN 19.26

PEAK DISCHARGE (BASE, 2,400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	0730	15.94	2,570	6-23	1730	18.09	3,160
1-11	1930	22.34	4,880				

03201600 Sandy Run above Big Four Hollow Creek near Lake Hope, Ohio

LOCATION.--Lat 39°21'45", long 82°18'47", in NW 1/4 SW 1/4 sec.11, T.11 N., R.16 W., Vinton County, on right bank 250 ft (76 m) upstream from Big Four Hollow Creek, 150 ft (46 m) downstream from Morgan Hollow Creek, 2.5 mi (4.0 km) southwest of Carbondale, and 3.7 mi (6.0 km) northeast of Lake Hope.

DRAINAGE AREA.--0.98 mi² (2.54 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder with concrete weir and 6-inch Parshall flume. Altitude of gage is 770.0 ft (234.70 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 990 ft³/s (28.0 m³/s) June 22, gage-height, 5.01 ft (1.527 m); minimum 0.03 ft³/s (0.001 m³/s) Oct. 17, 19.

Period of record: Maximum discharge, 990 ft³/s (28.0 m³/s) June 22, 1974, gage-height, 5.01 ft (1.527 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 24, 25, 1971, gage height, 0.05 ft (0.015 m).

REMARKS.--Records fair except those above 10 ft³/s which are poor. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.66	.48	.40	.90	.64	2.8	.39	.81	.45	.05	5.2
2	.08	.26	.43	.30	.78	3.0	10	1.7	.54	.20	.09	3.7
3	.07	.16	.37	1.0	.60	1.9	4.5	8.3	.41	.17	.89	20
4	.31	.11	.30	1.4	.52	1.5	4.5	1.9	.33	.17	3.1	3.5
5	.18	.12	.25	1.0	.47	1.5	1.9	1.5	.27	.17	.16	.90
6	.09	.10	.19	.66	1.7	1.5	1.6	1.2	.44	.12	.07	.62
7	.07	.10	.15	.42	3.2	2.0	1.4	.88	.34	.11	.05	.46
8	.06	.09	.17	.30	1.7	2.1	2.6	.83	.25	.10	.17	.32
9	.06	.10	.20	2.0	1.1	1.7	4.5	1.7	.22	.09	.25	.25
10	.06	.06	.13	15	.90	1.3	2.3	1.1	.18	.18	.13	.21
11	.06	.07	.10	14	.83	1.3	1.8	.90	.13	.20	.16	.17
12	.05	.09	.15	2.5	.95	1.2	1.6	14	.13	.10	.13	.13
13	.08	.09	.30	1.5	1.0	.81	1.3	5.0	.12	.11	.11	.50
14	.07	.08	.21	1.4	.72	.77	1.2	1.6	.11	.12	.10	1.1
15	.05	.38	.18	2.0	.60	.83	.86	1.1	2.7	.13	.08	.54
16	.05	.34	.17	1.5	.72	2.5	.72	.93	1.7	.09	.12	.30
17	.04	.13	.15	1.4	.50	1.6	.66	2.6	.36	.07	.31	.24
18	.04	.16	.11	1.1	.50	1.3	.62	15	.24	.10	.12	.17
19	.04	.11	.16	5.9	1.0	1.2	.52	1.8	.28	.10	.10	.14
20	.05	.10	1.6	2.3	.79	.93	.47	1.4	.27	.09	.08	.13
21	.04	.16	.62	2.0	.72	3.1	.47	.98	1.2	.08	.07	3.2
22	.05	.10	.37	1.7	1.3	1.6	.79	1.0	17	.08	.08	1.1
23	.05	.10	.33	1.5	.88	1.5	.70	1.3	37	.09	.07	.47
24	.05	.41	.30	1.1	.95	1.0	.50	1.1	8.7	.07	.07	.45
25	.05	2.6	.30	1.0	.68	1.0	.47	.75	2.1	.07	.09	.41
26	.05	12	1.0	.94	.58	.90	.47	.60	1.4	.07	.09	.31
27	.04	3.1	1.6	.94	.70	.79	.43	.47	.95	.06	.07	.27
28	.17	2.0	.93	2.6	.81	.88	.41	.36	.64	.07	1.5	.25
29	.66	1.2	1.6	2.3	-----	1.3	.41	.54	.47	.08	1.3	.33
30	.64	.70	1.1	1.7	-----	6.3	.47	.48	.41	.05	13	.18
31	.41	-----	.56	1.3	-----	3.8	-----	.88	-----	.04	1.3	-----
TOTAL	3.80	25.68	14.51	73.16	26.10	51.75	50.97	72.29	79.70	3.63	23.91	45.55
MEAN	.12	.86	.47	2.36	.93	1.67	1.70	2.33	2.66	.12	.77	1.52
MAX	.66	12	1.6	15	3.2	6.3	10	15	37	.45	13	20
MIN	.04	.06	.10	.30	.47	.64	.41	.36	.11	.04	.05	.13
CFSM	.12	.88	.48	2.41	.95	1.70	1.73	2.38	2.71	.12	.79	1.55
IN.	.14	.97	.55	2.78	.99	1.96	1.93	2.74	3.03	.14	.91	1.73

CAL YR 1973 TOTAL 366.45 MEAN 1.00 MAX 19 MIN .03 CFSM 1.02 IN 13.91
WTR YR 1974 TOTAL 471.05 MEAN 1.29 MAX 37 MIN .04 CFSM 1.32 IN 17.88

PEAK DISCHARGE (BASE, 50 FT³/S)

DATE	TIME	G. H.	DISCHARGE
6-22	2300	5.01	990
8-30	0615	2.95	84

RACCOON CREEK BASIN

03201700 Big Four Hollow Creek near Lake Hope, Ohio

LOCATION.--Lat 39°21'48", long 82°18'51", in SE 1/4 NE 1/4 sec.11, T.11 N., R.16 W., Vinton County, on right bank 200 ft (61 m) upstream from State Route 278 crossing, 300 ft (91 m) upstream from Sandy Run, 2.5 mi (4.0 km) southwest of Carbondale, and 3.7 mi (6.0 km) northeast of Lake Hope.

DRAINAGE AREA.--1.01 mi² (2.62 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder with concrete weir and 6-inch Parshall flume. Altitude of gage is 770.0 ft (234.70 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,200 ft³/s (34.0 m³/s) June 22, gage height, 4.72 ft (1.439 m); minimum, .03 ft³/s (0.001 m³/s) Oct. 14-24, July 22-24, 25, July 26 to Aug. 2.

Period of record: Maximum discharge, 1,200 ft³/s (34.0 m³/s) June 22, 1974, gage height, 4.72 ft (1.439 m); minimum daily discharge, 0.01 ft³/s (0.000 m³/s) July 6, 7, 8, Sept. 25, 1971.

REMARKS.--Records fair except those above 10 ft³/s which are poor. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.58	.47	.58	1.0	.68	2.5	.38	.82	.34	.03	5.3
2	.08	.25	.43	.47	.85	2.8	13	.98	.56	.21	.04	3.3
3	.07	.17	.34	1.6	.68	1.7	2.8	7.8	.40	.16	.64	25
4	.26	.12	.30	1.7	.54	1.3	2.6	2.0	.32	.15	1.2	4.1
5	.13	.13	.24	1.1	.46	1.5	1.8	1.3	.28	.18	.18	1.0
6	.09	.09	.17	.70	2.5	1.5	1.5	1.0	.41	.12	.09	.52
7	.10	.09	.13	.50	7.6	2.3	1.2	.81	.35	.08	.07	.43
8	.09	.09	.17	.45	2.0	2.2	2.8	1.0	.27	.07	.12	.30
9	.09	.10	.20	1.9	1.1	1.7	4.5	1.7	.22	.06	.20	.22
10	.08	.08	.13	13	.92	1.3	2.2	1.1	.18	.07	.10	.20
11	.08	.07	.10	14	.82	1.1	1.6	1.0	.16	.11	.09	.15
12	.08	.07	.15	2.5	1.0	1.1	1.3	17	.16	.08	.08	.12
13	.10	.07	.25	1.5	1.1	.83	1.2	5.6	.12	.07	.06	1.2
14	.13	.08	.21	1.3	.79	.72	.98	1.9	.10	.05	.05	.92
15	.10	.25	.18	2.0	.64	.72	.83	1.3	1.8	.05	.04	.41
16	.06	.34	.16	1.6	.58	2.4	.72	1.0	1.3	.05	.05	.28
17	.04	.20	.14	1.3	.48	1.6	.62	2.6	.36	.05	.21	.20
18	.03	.16	.11	1.1	.40	1.2	.54	14	.25	.04	.08	.15
19	.03	.13	.15	4.5	.81	1.1	.50	3.0	.25	.04	.06	.12
20	.03	.12	1.4	2.6	.93	.88	.43	1.4	.22	.04	.05	.12
21	.03	.15	.68	2.5	.77	3.3	.39	.96	.85	.04	.04	4.2
22	.03	.16	.52	1.6	1.1	2.0	.54	1.0	15	.03	.04	.95
23	.03	.16	.44	1.5	.82	1.5	.64	1.3	27	.03	.04	.52
24	.03	.33	.40	1.2	.68	1.2	.48	1.0	4.3	.03	.04	.43
25	.04	2.6	.52	.98	.56	1.0	.43	.80	1.8	.04	.04	.34
26	.04	3.4	1.4	.95	.54	.93	.41	.60	1.3	.03	.05	.27
27	.04	1.4	1.4	.93	.62	.79	.38	.47	.77	.04	.04	.22
28	.18	1.5	.95	2.8	.72	.72	.34	.40	.50	.03	.74	.21
29	.79	1.1	1.7	2.6	-----	1.3	.34	.47	.36	.03	.73	.23
30	.66	.68	1.3	1.7	-----	6.9	.36	.50	.27	.03	10	.16
31	.41	-----	.88	1.2	-----	3.7	-----	.86	-----	.03	.64	-----
TOTAL	4.04	14.67	15.62	72.36	31.01	51.97	47.93	75.23	60.68	2.38	15.84	51.57
MEAN	.13	.49	.50	2.33	1.11	1.68	1.60	2.43	2.02	.077	.51	1.72
MAX	.79	3.4	1.7	14	7.6	6.9	13	17	27	.34	10	25
MIN	.03	.07	.10	.45	.40	.68	.34	.38	.10	.03	.03	.12
CFSM	.13	.49	.50	2.31	1.10	1.66	1.58	2.41	2.00	.08	.51	1.70
IN.	.15	.54	.58	2.67	1.14	1.91	1.77	2.77	2.23	.09	.58	1.90

CAL YR 1973 TOTAL 368.57 MEAN 1.01 MAX 3.4 MIN 0 CFSM 1.00 IN 13.58
WTR YR 1974 TOTAL 443.30 MEAN 1.21 MAX 27 MIN .03 CFSM 1.20 IN 16.33

PEAK DISCHARGE (BASE, 50 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-12	0915	2.36	50	8-30	0700	2.46	57	9-2	2330	2.56	65
6-22	2330	4.72	1,200	9-01	1245	2.40	52	9-3	0600	2.44	55

03201800 Sandy Run near Lake Hope, Ohio

LOCATION.--Lat 39°20'01", long 82°19'56", in T.11 N., R.16 W., Vinton County, on right bank at upstream side of bridge on King Hollow Trail, 1,200 ft (366 m) downstream from Harbargar Hollow, 2.6 mi (4.2 km) upstream from spillway of Lake Hope, and 5.0 mi (8.0 km) northeast of Zaleski.

DRAINAGE AREA.--4.99 mi² (12.9 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 715.51 ft (218.087 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 5.77 ft³/s (0.163 m³/s), 15.70 in/yr (3.98.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,100 ft³/s (87.8 m³/s) June 23, gage height, 8.47 ft (2.582 m); minimum, no flow Aug. 1, 2.

Period of record: Maximum discharge, 3,770 ft³/s (107 m³/s) Aug. 3, 1958, gage height, 8.41 ft (2.563 m); no flow at times most years.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	3.4	2.8	4.2	4.8	3.8	12	2.2	5.2	2.6	0	18
2	.23	1.3	2.0	3.0	4.8	17	23	2.6	3.6	1.0	0	12
3	.15	.86	1.6	7.8	4.2	11	17	15	2.4	.88	3.8	212
4	.65	.53	1.6	11	3.4	8.2	13	14	1.8	.88	8.2	23
5	.99	.53	2.6	6.3	3.4	8.0	10	9.2	1.4	1.0	.65	7.0
6	.19	.44	1.8	4.8	7.0	8.5	8.0	7.0	2.0	.65	.33	4.4
7	.15	.29	1.2	3.8	18	11	6.6	5.4	2.6	.47	.28	3.4
8	.15	.29	1.0	2.8	9.5	9.5	7.3	5.2	1.4	.40	.55	2.6
9	.15	.44	1.0	11	9.7	7.8	16	9.5	1.2	.40	.75	2.2
10	.15	.29	.88	54	7.8	6.6	12	6.3	.75	.47	.40	2.0
11	.12	.29	.55	70	4.6	5.9	9.0	5.2	.55	.55	.40	1.8
12	.10	.29	.55	17	6.1	6.1	7.0	45	.55	.33	.40	2.0
13	.12	.29	1.2	14	4.8	4.6	5.9	17	.47	.28	.23	5.4
14	.44	.29	1.4	7.5	4.2	4.0	5.0	10	.33	.28	.16	6.3
15	.19	.63	1.0	9.0	3.2	4.0	4.4	7.0	5.2	.40	.13	3.0
16	.15	2.5	.88	7.8	3.2	13	3.8	5.2	7.5	.40	.07	2.2
17	.12	.99	.75	6.3	2.8	8.7	3.4	10	2.6	.23	.65	1.8
18	.10	.74	.55	5.4	2.6	6.6	2.8	79	1.6	.19	.33	1.4
19	.10	.74	.55	18	4.0	5.9	2.6	17	1.2	.23	.16	1.4
20	.12	.53	7.3	13	5.2	4.8	2.2	9.0	1.4	.23	.09	1.8
21	.15	.74	8.5	13	3.8	17	2.0	6.1	4.0	.19	.07	14
22	.12	.63	5.0	8.7	6.1	12	2.2	6.6	7.5	.13	.04	5.9
23	.12	.53	3.0	7.5	5.7	8.5	4.2	8.7	423	.19	.07	3.4
24	.15	.99	2.4	5.9	5.0	7.0	3.2	9.0	32	.33	.04	2.4
25	.15	13	2.2	5.0	4.4	6.1	2.6	5.7	13	.28	.19	1.8
26	.15	23	5.4	4.8	4.4	5.4	2.2	4.4	10	.16	.33	1.2
27	.19	13	8.7	5.2	5.2	4.6	2.0	3.6	6.8	.13	.19	.88
28	.99	24	5.4	13	4.2	4.2	1.8	2.8	4.4	.13	2.2	1.0
29	4.8	7.3	7.5	12	-----	6.3	1.8	3.6	3.4	.13	5.4	2.2
30	4.8	4.2	7.5	7.8	-----	24	1.8	3.6	2.6	.07	110	1.8
31	1.6	-----	5.9	6.3	-----	18	-----	4.8	-----	.01	6.8	-----
TOTAL	17.76	103.05	92.71	365.9	152.1	268.1	194.8	339.7	550.45	13.62	142.91	348.28
MEAN	.57	3.44	2.99	11.8	5.43	8.65	6.49	11.0	18.3	.44	4.61	11.6
MAX	4.8	24	8.7	70	18	24	23	79	423	2.6	110	212
MIN	.10	.29	.55	2.8	2.6	3.8	1.8	2.2	.33	.01	0	.88
CFSM	.11	.69	.60	2.36	1.09	1.73	1.30	2.20	3.67	.09	.92	2.32
IN.	.13	.77	.69	2.73	1.13	2.00	1.45	2.53	4.10	.10	1.07	2.60

CAL YR 1973 TOTAL 2,008.48 MEAN 5.50 MAX 89 MIN 0 CFSM 1.10 IN 14.97
WTR YR 1974 TOTAL 2,589.38 MEAN 7.09 MAX 423 MIN 0 CFSM 1.42 IN 19.30

PEAK DISCHARGE (BASE, 220 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-23	0030	8.47	3,100	9-03	0145	5.78	505
8-30	0815	6.13	640				

RACCOON CREEK BASIN

03202000 Raccoon Creek at Adamsville, Ohio

LOCATION.--Lat 38°52'25", long 82°21'22", in SE 1/4 sec.26, T.6 N., R.16 W., Gallia County, on left bank at downstream side of U.S. Highway 35 bridge at Adamsville, 1.3 mi (2.1 km) upstream from Ryan Run, and 1.4 mi (2.3 km) downstream from Indian Creek.

DRAINAGE AREA.--585 mi² (1,515 km²).

PERIOD OF RECORD.--June 1915 to December 1935, October 1938 to current year. Monthly discharge only for December 1935, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 570.04 ft (173.748 m) above mean sea level. Prior to June 13, 1940, nonrecording gage, June 13, 1940 to Oct. 27, 1970 water-stage recorder 480 ft (146 m) upstream at same datum.

AVERAGE DISCHARGE.--56 years, 645 ft³/s (18.27 m³/s), 14.97 in/yr (380.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,060 ft³/s (172 m³/s) June 27, gage height, 18.45 ft (5.624 m); minimum, 14 ft³/s (0.40 m³/s) Oct. 26, 27, 28.

Period of record: Maximum discharge, 20,000 ft³/s (566 m³/s) May 28, 1968, gage height 28.69 ft (8.745 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-conveyance estimate of peak flow; minimum, 1.1 ft³/s (0.031 m³/s) Oct. 17-19, 1964.

Flood in January 1937 reached a stage of 25.2 ft (7.68 m), from floodmark, discharge, 16,000 ft³/s (453 m³/s).

REMARKS.--Records good prior to July, fair thereafter. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1916-18, 1920, 1922, 1924, 1926-27, 1931, 1933, 1935(M). WSP 1908: Drainage area. WSP 2108: 1968-70(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	514	1,610	888	1,010	479	2,220	269	955	730	43	1,430
2	164	430	848	730	830	982	3,420	267	1,420	522	37	1,510
3	103	340	593	775	791	1,660	3,000	438	1,250	411	31	1,420
4	77	234	469	1,490	730	1,570	3,540	952	857	335	60	1,740
5	64	189	413	1,490	631	1,250	2,800	1,140	587	275	113	2,130
6	54	189	387	1,250	554	1,100	1,890	1,080	446	239	183	2,390
7	47	155	366	940	804	1,490	1,460	755	367	212	254	2,230
8	48	128	328	733	1,100	1,500	1,200	560	364	189	195	1,420
9	41	120	288	639	1,130	1,290	1,380	498	354	158	201	491
10	40	120	260	1,670	974	1,080	1,520	495	309	146	234	336
11	40	111	239	4,470	789	1,080	1,540	538	280	181	198	270
12	36	104	216	5,180	684	1,610	1,320	947	252	150	163	237
13	34	98	206	5,270	672	1,250	1,060	1,440	215	130	163	215
14	33	94	222	4,880	876	972	914	1,630	189	120	141	209
15	33	90	233	3,830	834	800	798	1,470	183	110	121	254
16	33	258	246	2,020	695	846	687	984	538	104	121	295
17	29	354	236	1,090	599	979	599	665	458	89	120	258
18	25	314	206	947	530	1,080	528	1,120	498	76	116	203
19	22	239	181	871	516	1,070	475	1,800	354	70	114	179
20	21	195	186	909	646	935	432	2,230	335	64	146	160
21	21	165	336	989	700	1,120	391	2,390	864	60	125	149
22	20	152	544	1,140	715	1,360	362	2,250	456	66	90	231
23	19	139	581	1,080	717	1,330	366	1,850	2,820	60	80	508
24	18	135	502	991	678	1,190	372	1,630	3,140	54	68	575
25	17	160	440	862	644	957	387	1,410	3,530	48	54	358
26	16	762	493	777	571	807	362	1,020	4,760	41	49	278
27	14	1,980	947	843	514	700	325	759	5,930	38	50	230
28	66	3,340	1,120	1,080	485	633	303	589	5,880	35	65	195
29	157	3,170	984	1,660	-----	800	288	493	4,940	33	111	167
30	376	2,700	1,050	1,540	-----	1,520	274	477	1,930	32	320	157
31	477	-----	989	1,300	-----	2,060	-----	522	-----	50	818	-----
TOTAL	2,297	16,979	15,719	52,334	20,419	35,500	34,213	32,668	44,461	4,828	4,584	20,225
MEAN	74.1	566	507	1,688	729	1,145	1,140	1,054	1,482	156	148	674
MAX	477	3,340	1,610	5,270	1,130	2,060	3,540	2,390	5,930	730	818	2,390
MIN	14	90	181	639	485	479	274	267	183	32	31	149
CFSM	.13	.97	.87	2.89	1.25	1.96	1.95	1.80	2.53	.27	.25	1.15
IN.	.15	1.08	1.00	3.33	1.30	2.26	2.18	2.08	2.83	.31	.29	1.29

CAL YR 1973 TOTAL 232,083 MEAN 636 MAX 4,360 MIN 14 CFSM 1.09 IN 14.76
WTR YR 1974 TOTAL 284,227 MEAN 779 MAX 5,930 MIN 14 CFSM 1.33 IN 18.07

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	1100	14.71	3,460	4-02	1000	15.09	3,650	6-23	1600	14.47	3,340
1-12	2200	17.52	5,320	4-04	1100	15.17	3,700	6-27	1800	18.45	6,060

03219500 Scioto River near Prospect, Ohio

LOCATION.--Lat 40°25'10", long 83°11'50", Delaware County, on downstream side of pier of Hoskins Bridge, 1.5 mi (2.4 km) upstream from Ottawa Creek, 2.0 mi (3.2 km) south of Prospect, and 2.5 mi (4.0 km) downstream from Patton Run.

DRAINAGE AREA.--567 mi² (1,469 km²).

PERIOD OF RECORD.--July 1925 to October 1932, October 1939 to current year. Published as "at Prospect" 1925-32. Gage-height records collected in this vicinity since 1915 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 886.9 ft (270.33 m) above mean sea level, adjustment of 1912 (levels by Corps of Engineers). July 24, 1925, to Oct. 31, 1932, nonrecording gage at site 2.5 mi (4.0 km) upstream at datum 4.8 ft (1.46 m) higher. Oct. 16 to Dec. 5, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--42 years, 454 ft³/s (12.86 m³/s), 10.87 in/yr (276.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,460 ft³/s (211 m³/s) Jan. 21, gage height, 13.24 ft (4.036 m); minimum daily, 16 ft³/s (0.45 m³/s) Aug. 26.

Period of record: Maximum discharge, 10,100 ft³/s (286 m³/s) Mar. 22, 1927, gage height, 15.0 ft (4.57 m), from graph based on gage readings at site and datum then in use, and Jan. 21, 1959, gage height, 15.30 ft (4.663 m); minimum, 3.5 ft³/s (0.099 m³/s) Sept. 13, 1953.

Flood of March 25, 1913 reached a stage of 21.1 ft (6.43 m), discharge, 27,000 ft³/s (765 m³/s), computed by Franklin County Conservancy District, at site and datum used 1925-32.

REMARKS.--Records good except those for periods of no gage height record, which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	368	1,810	999	1,080	725	2,530	167	92	47	23	42
2	58	355	1,060	500	754	1,010	2,350	167	86	43	25	48
3	60	251	623	420	594	909	2,530	165	76	40	26	60
4	65	182	486	370	498	705	2,580	150	63	36	26	50
5	104	145	476	330	403	601	2,650	142	40	34	24	43
6	89	117	482	280	352	758	3,280	133	50	31	19	70
7	71	101	442	250	448	873	2,370	123	56	28	19	82
8	278	91	337	230	435	799	1,460	122	60	25	19	70
9	346	84	275	230	350	657	992	138	55	26	20	52
10	194	76	251	230	300	992	1,050	145	52	26	31	46
11	124	68	228	210	270	1,320	1,090	150	48	26	24	45
12	93	65	198	200	260	1,110	873	180	45	23	19	45
13	80	65	189	190	318	893	649	345	41	23	19	350
14	137	65	337	180	594	705	540	417	39	21	40	480
15	125	70	456	210	815	527	495	292	47	22	35	310
16	101	108	391	477	611	697	435	213	52	20	34	180
17	82	101	230	1,130	457	1,090	355	178	48	20	42	120
18	71	99	210	1,800	382	1,040	306	163	49	20	32	90
19	60	93	200	5,090	385	725	264	147	47	19	26	62
20	58	85	230	6,310	713	546	235	137	44	18	31	54
21	49	88	389	7,340	1,050	463	213	123	40	17	29	48
22	42	110	403	6,940	1,160	426	208	123	39	17	28	43
23	45	102	360	5,950	1,350	429	217	145	100	18	23	38
24	46	102	259	4,710	1,590	445	210	143	90	19	20	36
25	47	479	354	3,830	1,090	405	187	137	95	22	18	35
26	50	1,260	1,400	2,640	500	361	167	125	89	25	16	34
27	49	1,420	2,740	2,110	420	417	154	108	76	25	19	33
28	49	1,550	4,020	2,070	473	488	149	96	59	25	27	32
29	88	1,870	4,100	2,290	-----	929	143	99	51	25	25	32
30	368	1,970	3,010	2,080	-----	1,880	150	96	47	25	23	31
31	334	-----	1,770	1,690	-----	2,800	-----	92	-----	25	20	-----
TOTAL	3,394	11,540	27,716	61,286	17,652	25,725	28,832	4,961	1,776	791	782	2,661
MEAN	109	385	894	1,977	630	830	961	160	59.2	25.5	25.2	88.7
MAX	368	1,970	4,100	7,340	1,590	2,800	3,280	417	100	47	42	480
MIN	31	65	189	180	260	361	143	92	39	17	16	31
CFSM	.19	.68	1.58	3.49	1.11	1.46	1.69	.28	.10	.05	.04	.16
IN.	.22	.76	1.82	4.02	1.16	1.69	1.89	.33	.12	.05	.05	.17

CAL YR 1973 TOTAL 230,606 MEAN 632 MAX 4,640 MIN 28 CFSM 1.11 IN 15.13
WTR YR 1974 TOTAL 187,116 MEAN 513 MAX 7,340 MIN 16 CFSM .90 IN 12.28

PEAK DISCHARGE (BASE, 3,600 FT³/S) Note: No gage height record July 16 to Aug. 5, Aug. 27 to Sept. 30.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-28	2300	9.54	4,310	1-21	1400	13.24	7,460

SCIOTO RIVER BASIN

03220000 Mill Creek near Bellepoint, Ohio

LOCATION.--Lat 40°14'54", long 83°10'26", Delaware County, on left bank at upstream side of county bridge, 1.2 mi (1.9 km) west of Bellepoint, 1.5 mi (2.4 km) upstream from mouth, and 2.3 mi (3.7 km) downstream from Blues Creek.

DRAINAGE AREA.--178 mi² (461 km²).

PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 865.14 ft (263.695 m) above mean sea level, adjustment of 1912 (levels by students of Ohio State University, City of Columbus bench mark). Prior to Jan. 1, 1948, nonrecording gage, at same site and datum.

AVERAGE DISCHARGE.--32 years, 149 ft³/s (4.220 m³/s), 11.37 in/yr (288.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,780 ft³/s (78.7 m³/s) Jan. 19, gage height, 6.65 ft (2.027 m); minimum, 2.4 ft³/s (.068 m³/s) July 24, 25.

Period of record: Maximum discharge, 20,300 ft³/s (575 m³/s) Jan. 21, 1959, gage height, 13.85 ft (4.221 m), from rating curve extended above 14,000 ft³/s (396 m³/s); no flow Sept. 25, 26, 1944, Sept. 19, 1948.

A stage of 18.0 ft (5.49 m) occurred in March 1913.

REMARKS.--Records good. Diurnal fluctuation caused by stone quarry upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	82	231	110	160	358	330	41	34	13	3.0	68
2	50	89	160	91	126	270	1,600	42	29	12	3.4	34
3	114	56	123	80	100	200	1,310	45	22	11	3.4	39
4	52	32	109	76	84	166	1,010	39	18	9.8	3.4	94
5	39	23	266	70	67	176	451	35	16	9.1	3.4	106
6	60	18	180	68	73	224	258	33	17	7.5	4.4	41
7	33	15	113	66	182	152	230	33	20	6.2	6.2	24
8	21	13	80	66	168	138	190	31	22	5.8	6.6	16
9	18	12	68	68	110	128	294	35	16	5.8	7.1	11
10	13	11	63	70	66	108	750	36	14	5.3	9.8	8.4
11	13	9.8	57	62	62	88	563	45	15	5.8	13	8.0
12	11	9.3	45	58	60	120	290	41	12	5.3	7.1	11
13	9.8	9.3	53	54	80	148	192	76	11	6.6	5.8	232
14	15	9.8	131	58	324	104	168	77	9.1	5.8	7.1	186
15	23	12	143	214	250	79	172	45	11	6.2	16	85
16	21	16	88	1,190	146	312	132	36	12	4.9	9.1	39
17	19	52	54	1,630	100	340	87	36	13	4.4	9.1	24
18	13	38	48	1,160	82	176	71	57	12	4.4	9.8	18
19	11	26	45	2,460	210	130	63	47	12	4.9	7.5	14
20	9.1	22	129	2,560	664	112	56	34	11	3.6	5.8	14
21	8.0	21	209	1,770	350	112	49	29	11	3.4	4.4	16
22	6.6	29	184	968	616	120	50	29	13	3.4	4.4	7.5
23	6.6	35	121	676	552	124	59	46	36	3.0	5.8	7.5
24	6.6	43	81	596	242	136	59	57	26	2.6	4.4	7.1
25	7.5	945	443	302	110	108	47	57	30	2.6	4.4	6.6
26	7.1	1,420	1,520	238	90	114	41	47	33	3.4	4.9	5.8
27	7.5	951	1,880	980	100	200	38	31	30	3.4	5.8	6.2
28	6.6	1,220	889	725	180	174	34	25	24	3.4	5.8	6.6
29	12	917	390	454	-----	672	34	28	20	3.4	13	12
30	26	434	240	334	-----	1,470	39	31	16	3.4	38	15
31	41	-----	170	216	-----	760	-----	31	-----	3.2	124	-----
TOTAL	693.4	6,570.2	8,313	17,470	5,354	7,519	8,667	1,275	565.1	172.6	355.9	1,162.7
MEAN	22.4	219	268	564	191	243	289	41.1	18.8	5.7	11.5	38.8
MAX	114	1,420	1,880	2,560	664	1,470	1,600	77	36	13	124	232
MIN	6.6	9.3	45	54	60	79	34	25	9.1	2.6	3.0	5.8
CFSM	.13	1.23	1.51	3.17	1.07	1.37	1.62	.23	.11	.03	.06	.22
IN.	.14	1.37	1.74	3.65	1.12	1.57	1.81	.27	.12	.04	.07	.24

CAL YR 1973 TOTAL 73,116.2 MEAN 200 MAX 1,920 MIN 6.6 CFSM 1.12 IN 15.28
WTR YR 1974 TOTAL 58,117.9 MEAN 159 MAX 2,560 MIN 2.6 CFSM .89 IN 12.15

PEAK DISCHARGE (BASE, 2,500 FT³/S).--Jan. 19 (2230) 2,780 FT³/S (6.65 ft).

03221000 Scioto River below O'Shaughnessy Dam, near Dublin, Ohio

LOCATION.--Lat 40°08'36", long 83°07'14", Delaware County, on left bank, 0.2 mi (0.3 km) north of county line, 0.8 mi (1.3 km) downstream from O'Shaughnessy Dam, and 3.0 mi (4.8 km) north of Dublin.

DRAINAGE AREA.--980 mi² (2,538 km²).

PERIOD OF RECORD.--April 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 775.00 ft (236.220 m) above mean sea level, adjustment of 1912. Prior to Aug. 26, 1921, nonrecording gage at site 0.8 mi (1.3 km) upstream at same datum. Aug. 26, 1921, to Oct. 13, 1924, nonrecording gage at site 100 ft (30 m) downstream at same datum.

AVERAGE DISCHARGE.--53 years, 784 ft³/s (22.20 m³/s).

EXTREMES.--Current year: Maximum discharge, 14,100 ft³/s (399 m³/s) Jan. 21, gage height, 11.59 ft (3.533 m); minimum, 24 ft³/s (0.68 m³/s) Aug. 30.

Period of record: Maximum discharge, 55,200 ft³/s (1,560 m³/s) Jan. 22, 1959, gage height, 22.04 ft (6.718 m), from floodmark; minimum, 0.4 ft³/s (0.011 m³/s) Nov. 8, 1924.

Flood of March 25, 1913 reached a stage of 24.6 ft (7.50 m), discharge, 74,500 ft³/s (2,110 m³/s) at Griggs Dam, 9 mi (14 km) downstream from gage, computed by C. E. Sherman, Ohio State University.

REMARKS.--Records good. Flow regulated since 1924 by O'Shaughnessy Reservoir 0.8 mi (1.3 km) upstream (see station 03220500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1924-35. WSP 1725: 1924. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	422	2,490	1,700	1,800	1,310	3,640	272	205	97	59	71
2	62	519	1,730	1,030	1,280	1,680	5,750	263	167	95	59	78
3	64	404	1,090	820	955	1,520	5,960	296	137	90	59	100
4	71	300	835	760	797	1,230	5,340	254	122	87	59	76
5	101	235	1,050	570	628	1,040	3,840	233	107	85	57	71
6	134	176	917	480	546	1,130	3,910	225	97	78	51	128
7	146	153	778	420	823	1,280	3,250	189	95	76	46	140
8	125	140	597	370	806	1,190	2,320	189	105	74	46	105
9	381	134	479	400	672	1,030	1,840	221	105	71	46	85
10	300	119	428	410	533	1,100	2,550	209	97	67	46	78
11	202	101	386	370	513	1,560	2,400	233	95	53	44	76
12	150	98	342	320	463	1,590	1,750	277	90	49	42	87
13	131	98	353	280	500	1,340	1,280	340	85	49	44	488
14	131	98	473	330	974	1,110	1,040	566	83	48	44	831
15	169	104	715	526	1,430	823	983	445	85	48	44	520
16	156	113	692	2,140	1,120	1,150	848	320	85	44	46	305
17	125	163	453	4,410	797	1,850	628	310	85	42	53	189
18	119	180	331	4,870	628	1,610	513	366	85	42	46	134
19	90	169	358	10,300	694	1,240	451	254	85	41	39	102
20	101	150	554	13,100	1,770	901	388	209	85	31	34	102
21	78	156	802	13,400	1,950	781	355	189	87	29	32	95
22	75	163	786	11,000	2,400	709	355	186	90	29	34	92
23	73	183	677	8,560	2,750	740	361	229	277	31	34	71
24	73	219	554	6,670	2,280	717	355	296	355	32	36	67
25	73	1,640	893	4,870	1,750	679	305	254	250	134	34	67
26	75	3,750	3,920	3,630	1,050	628	286	217	201	154	32	65
27	71	3,630	6,820	4,190	764	781	263	178	157	80	32	65
28	73	4,100	6,640	4,090	814	874	246	147	128	44	41	65
29	90	3,950	5,490	3,540	-----	1,900	241	189	113	46	41	63
30	206	3,230	4,430	3,220	-----	4,750	254	259	102	51	34	55
31	441	-----	2,790	2,520	-----	4,610	-----	233	-----	59	42	-----
TOTAL	4,150	24,897	48,853	109,296	31,487	42,853	51,702	8,048	3,860	1,956	1,356	4,471
MEAN	134	830	1,576	3,526	1,125	1,382	1,723	260	129	63.1	43.7	149
MAX	441	4,100	6,820	13,400	2,750	4,750	5,960	566	355	154	59	831
MIN	62	98	331	280	463	628	241	147	83	29	32	55

CAL YR 1973 TOTAL 424,401 MEAN 1,163 MAX 8,130 MIN 62
WTR YR 1974 TOTAL 332,929 MEAN 912 MAX 13,400 MIN 29

SCIOTO RIVER BASIN

03223000 Olentangy River at Claridon, Ohio

LOCATION.--Lat 40°34'58", long 82°59'20", in NW 1/4 sec.26, T.5 S., R.16 E., Marion County, on left bank 900 ft (274 m) downstream from bridge on State Highway 95, 0.5 mi (0.8 km) east of Claridon, 0.8 mi (1.3 km) downstream from Otter Creek, and 1.4 mi (2.3 km) upstream from Beaver Run.

DRAINAGE AREA.--157 mi² (407 km²).

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 961.72 ft (293.132 m) above mean sea level, levels by Corps of Engineers. Prior to Aug. 18, 1969 water-stage recorder at site 1,000 ft (305 m) upstream at same datum.

AVERAGE DISCHARGE.--28 years, 148 ft³/s (4.191 m³/s), 12.80 in/yr (325.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,730 ft³/s (106 m³/s) Jan. 19, gage height, 11.45 ft (3.490 m); minimum, 2.7 ft³/s (.076 m³/s) July 29.

Period of record: Maximum discharge, 14,900 ft³/s (422 m³/s) Jan. 22, 1959, gage height, 16.77 ft (5.111 m), from rating curve extended above 4,700 ft³/s (133 m³/s) on basis of contracted-opening measurement of peak flow; no flow Oct. 2-26, 1953, Sept. 14-22, 1955.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1235: 1947, 1948(P). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	55	246	130	214	306	324	59	31	9.8	6.2	83
2	16	70	150	100	170	283	601	73	24	8.2	4.4	56
3	24	52	107	90	141	208	826	62	18	6.8	3.9	77
4	19	31	88	78	117	174	651	54	17	6.2	16	322
5	17	24	162	68	94	176	818	46	16	12	32	183
6	19	19	207	62	116	227	434	42	16	7.7	17	76
7	21	16	123	58	155	210	297	41	17	9.2	7.9	41
8	15	15	82	54	162	213	222	39	17	6.4	5.8	27
9	11	14	68	50	110	221	194	46	17	5.3	7.0	21
10	9.5	13	62	48	90	1,020	235	69	16	4.9	16	17
11	8.4	12	54	46	80	788	219	62	12	17	13	14
12	8.0	12	46	45	76	394	166	68	12	46	10	81
13	8.2	11	47	44	95	308	138	341	11	17	6.4	330
14	12	11	127	43	227	198	117	238	12	8.7	22	172
15	25	12	207	55	230	158	127	119	13	6.0	76	79
16	21	15	111	189	150	356	128	84	14	4.9	29	44
17	14	20	65	529	120	493	96	66	16	4.0	26	31
18	11	45	55	633	99	258	80	56	12	3.5	101	23
19	10	30	50	2,660	110	189	72	54	10	3.2	48	19
20	8.2	24	67	3,300	277	160	62	52	10	3.2	19	16
21	7.6	30	208	2,120	273	138	57	42	9.0	3.0	11	14
22	7.2	40	225	1,410	459	124	57	36	13	2.8	7.7	13
23	7.2	47	130	979	489	116	71	73	26	3.0	5.8	12
24	7.2	36	89	943	258	110	74	147	22	3.3	5.0	12
25	7.0	133	206	553	163	95	59	99	19	3.1	4.6	11
26	7.0	497	884	356	129	96	50	68	17	2.9	5.5	9.8
27	7.0	344	1,090	599	118	123	46	44	16	3.3	4.9	9.8
28	7.2	494	761	570	149	136	43	34	15	3.0	8.7	11
29	11	825	370	568	-----	271	41	32	14	2.8	85	25
30	36	593	348	459	-----	684	43	35	11	4.6	474	39
31	58	-----	231	292	-----	617	-----	37	-----	3.2	235	-----
TOTAL	455.7	3,540	6,666	17,131	4,871	8,850	6,348	2,318	473.0	225.0	1,313.8	1,868.6
MEAN	14.7	118	215	553	174	285	212	74.8	15.8	7.26	42.4	62.3
MAX	58	825	1,090	3,300	489	1,020	826	341	31	46	474	330
MIN	7.0	11	46	43	76	95	41	32	9.0	2.8	3.9	9.8
CFSM	.09	.75	1.37	3.52	1.11	1.82	1.35	.48	.10	.05	.27	.40
IN.	.11	.84	1.58	4.06	1.15	2.10	1.50	.55	.11	.05	.31	.44

CAL YR 1973 TOTAL 63,600.6 MEAN 174 MAX 1,880 MIN 5.1 CFSM 1.11 IN 15.07
WTR YR 1974 TOTAL 54,060.1 MEAN 148 MAX 3,300 MIN 2.8 CFSM .94 IN 12.81

PEAK DISCHARGE (BASE, 1,500 FT³/S).--Jan. 19 (1930) 3,730 FT³/S (11.45 ft).

03224500 Whetstone Creek near Ashley, Ohio

LOCATION.--Lat 40°27'18", long 82°57'28", in NW 1/4 sec.19, T.7 N., R.18 W., Morrow County, on left bank 400 ft (122 m) upstream from unnamed right bank tributary, 800 ft (244 m) upstream from bridge on State Highway 746, 0.6 mi (1.0 km) downstream from Shaw Creek, and 3.2 mi (5.1 km) north of Ashley.

DRAINAGE AREA.--98.7 mi² (256 km²).

PERIOD OF RECORD.--October 1954 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft (287.228 m) above mean sea level, levels by Corps of Engineers.

AVERAGE DISCHARGE.--20 years, 97.9 ft³/s (2.773 m³/s), 13.47 in/yr (342.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,250 ft³/s (92.0 m³/s) Jan. 19, gage height, 7.70 ft (2.347 m); minimum, 2.2 ft³/s (.062 m³/s) July 30, 31.

Period of record: Maximum discharge, 19,100 ft³/s (541 m³/s) Jan. 21, 1959, gage height, 14.34 ft (4.371 m), from rating curve extended above 3,900 ft³/s (110 m³/s) on basis of slope-area measurement of peak flow; no flow for many days in 1954-55, and part of day Oct. 3, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ohio 1973: 1972. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	95	173	82	101	184	196	45	15	27	2.8	58
2	17	79	87	70	84	141	600	45	15	13	2.8	31
3	17	52	70	60	70	112	400	39	13	9.6	11	44
4	20	42	63	56	56	90	635	37	11	8.5	15	64
5	17	36	157	52	46	110	272	32	10	10	10	31
6	14	29	142	52	56	120	181	29	10	9.2	6.5	20
7	11	25	81	50	163	216	148	27	12	7.5	5.0	17
8	17	23	65	48	120	170	120	26	11	6.5	3.9	22
9	15	23	58	47	85	141	137	32	14	6.2	3.9	20
10	10	21	55	46	64	590	158	35	11	5.8	5.3	14
11	8.6	19	49	45	50	276	114	30	9.2	6.2	7.2	9.2
12	7.6	18	46	45	42	212	88	120	8.8	9.6	5.5	46
13	9.3	18	56	45	50	139	71	170	8.5	8.5	4.8	120
14	28	19	199	44	163	88	62	68	7.8	5.8	12	66
15	21	23	126	78	95	76	59	42	13	4.8	8.5	31
16	14	42	76	285	71	304	50	32	19	4.4	5.5	21
17	13	42	56	501	57	216	45	28	17	3.9	6.8	15
18	9.3	39	50	548	48	120	42	29	11	3.7	8.8	13
19	8.3	34	47	2,700	80	94	39	26	9.2	3.2	9.2	11
20	7.6	30	60	1,090	223	82	34	23	8.5	3.1	6.8	10
21	7.6	48	160	940	146	74	32	20	8.5	2.9	5.3	13
22	7.3	78	120	590	360	71	34	19	9.6	2.8	4.4	12
23	7.3	58	80	625	248	73	44	24	59	2.9	3.7	9.6
24	7.3	61	74	524	124	73	40	29	31	3.4	3.4	8.5
25	7.3	427	220	284	80	65	34	29	18	4.1	2.9	7.8
26	6.7	467	700	168	70	80	31	22	18	3.4	2.8	7.8
27	7.3	281	900	540	60	148	30	18	25	3.2	3.7	7.8
28	7.9	570	443	392	90	110	29	16	17	2.9	27	21
29	47	544	220	368	-----	570	28	19	13	2.6	122	29
30	90	314	140	209	-----	690	32	20	12	2.2	104	24
31	70	-----	100	139	-----	356	-----	18	-----	2.8	41	-----
TOTAL	541.4	3,557	4,873	10,723	2,902	5,791	3,785	1,149	445.1	189.7	461.5	803.7
MEAN	17.5	119	157	346	104	187	126	37.1	14.8	6.12	14.9	26.8
MAX	90	570	900	2,700	360	690	635	170	59	27	122	120
MIN	6.7	18	46	44	42	65	28	16	7.8	2.2	2.8	7.8
CFSM	.18	1.21	1.59	3.51	1.05	1.89	1.28	.38	.15	.06	.15	.27
IN.	.20	1.34	1.84	4.04	1.09	2.18	1.43	.43	.17	.07	.17	.30

CAL YR 1973 TOTAL 44,941.6 MEAN 123 MAX 2,030 MIN 4.6 CFSM 1.25 IN 16.94
WTR YR 1974 TOTAL 35,221.4 MEAN 96.5 MAX 2,700 MIN 2.2 CFSM .98 IN 13.27

PEAK DISCHARGE (BASE, 1,800 FT³/S)--Jan. 19 (1100) 3,250 FT³/S (7.70 ft).

SCIOTO RIVER BASIN

03225500 Olentangy River near Delaware, Ohio

LOCATION.--Lat 40°21'18", long 83°04'02", NE 1/4 T.5 N., R.19 W., Delaware County, on left bank 500 ft (152 m) upstream from highway bridge, 1,000 ft (305 m) downstream from Delaware Dam, 1,300 ft (396 m) upstream from Norfolk and Western Railway bridge, and 4.0 mi (6.4 km) north of Delaware.

DRAINAGE AREA.--393 mi² (1,018 km²).

PERIOD OF RECORD.--October 1923 to September 1934, April 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 799.58 ft (243.712 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1950, water-stage recorder at site 500 ft (152 m) downstream at datum 76.7 ft (23.38 m) higher.

AVERAGE DISCHARGE.--47 years, 346 ft³/s (9.799 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,230 ft³/s (120 m³/s) Jan. 26, gage height, 86.69 ft (26.423 m); minimum, 15 ft³/s (0.42 m³/s) Mar. 28, 29, gage height, 79.78 ft (24.317 m).
Period of record: Maximum discharge, 14,100 ft³/s (399 m³/s) Mar. 21, 1927, gage height, 16.9 ft (5.15 m), site and datum then in use; minimum, 0.1 ft³/s (0.003 m³/s) Aug. 20, 1930, Sept. 14-29, 1934.

REMARKS.--Records good. Flow completely regulated by Delaware Lake since 1951 (see station 03225000). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	280	2,640	440	583	457	931	82	39	26	42	61
2	27	280	1,710	235	466	729	1,210	105	39	26	45	80
3	26	280	515	305	286	793	1,720	181	39	26	46	123
4	27	185	311	368	177	565	1,940	210	39	26	46	169
5	27	141	457	246	177	415	1,680	173	39	26	46	246
6	27	80	629	181	230	375	1,180	119	39	26	46	274
7	27	51	610	235	491	523	757	105	40	26	46	215
8	27	51	339	201	648	816	610	105	40	26	46	119
9	111	51	201	185	431	648	483	108	40	26	45	78
10	76	51	188	185	257	1,010	406	108	40	26	45	50
11	49	51	166	185	257	1,790	507	108	40	26	45	37
12	32	51	166	181	220	1,410	548	181	39	26	45	56
13	25	51	166	129	240	931	423	406	39	26	45	201
14	25	51	286	105	448	466	225	557	30	26	45	286
15	111	158	431	215	574	375	193	406	27	26	45	286
16	78	197	483	466	466	531	193	185	27	26	45	220
17	51	220	286	1,340	368	918	240	145	27	26	45	132
18	51	235	129	1,750	251	1,040	262	145	27	26	45	42
19	36	325	169	2,110	193	620	215	100	27	26	45	25
20	24	368	193	1,320	592	339	166	54	27	85	40	25
21	24	368	639	1,550	801	375	126	45	27	33	37	25
22	24	368	648	3,200	808	325	82	45	116	37	37	25
23	24	360	540	4,100	1,120	220	126	46	169	36	37	25
24	24	360	415	4,080	1,050	311	162	162	162	36	37	25
25	24	729	353	4,100	499	375	197	346	90	36	37	21
26	24	962	1,640	4,080	225	305	185	126	97	36	37	22
27	24	816	2,930	3,810	240	274	138	116	72	36	37	24
28	24	523	2,390	2,180	268	240	119	102	51	36	38	45
29	105	764	1,460	1,740	-----	823	65	80	45	36	39	177
30	197	2,640	892	1,270	-----	1,160	31	78	26	36	38	20
31	280	-----	786	884	-----	1,660	-----	51	-----	36	38	-----
TOTAL	1,658	11,047	22,768	41,376	12,366	20,819	15,120	4,780	1,559	973	1,310	3,134
MEAN	53.5	368	734	1,335	442	672	504	154	52.0	31.4	42.3	104
MAX	280	2,640	2,930	4,100	1,120	1,790	1,940	557	169	85	46	286
MIN	24	51	129	105	177	220	31	45	26	26	37	20

CAL YR 1973 TOTAL 171,586 MEAN 470 MAX 3,970 MIN 16
WTR YR 1974 TOTAL 136,910 MEAN 375 MAX 4,100 MIN 20

03226800 Olentangy River near Worthington, Ohio

LOCATION.--Lat 40°06'37", long 83°01'55", in NW 1/4 T.2 N., R.18 W., Franklin County, on left bank 350 ft (107 m) downstream from Interstate Highway 270 bridge, 1.5 mi (2.4 km) northwest of Worthington and 2.8 mi (4.5 km) upstream from Rush Run.

DRAINAGE AREA.--497 mi² (1,287 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 743.20 ft (226.527 m) above mean sea level.

AVERAGE DISCHARGE.--19 years, 441 ft³/s (12.49 m³/s).

EXTREMES.--Current year: Maximum discharge, 5,320 ft³/s (151 m³/s) Jan. 23, gage height, 7.40 ft (2.256 m); minimum, 17 ft³/s (0.48 m³/s) Sept. 27.
 Period of record: Maximum discharge, 16,500 ft³/s (467 m³/s) Jan. 21, 1959, gage height, 15.68 ft (4.779 m), from high-water mark in well; minimum, 7.6 ft³/s (0.22 m³/s) Oct. 8, 9, 1964.
 Flood in January 1952 reached a stage of 15.3 ft (4.66 m), discharge, 15,100 ft³/s (428 m³/s), from information by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Delaware Lake 21 mi (34 km) upstream (see station 03225000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1625: 1952(M). WSP 1908: Drainage area. WRD Ohio 1972: 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	304	3,050	600	759	432	2,200	76	70	45	36	83
2	60	271	2,040	450	525	681	1,500	117	54	36	38	76
3	46	256	895	300	462	825	2,000	163	48	34	53	178
4	38	233	399	410	251	525	2,400	236	46	29	72	174
5	41	123	665	438	241	673	2,100	226	44	45	64	204
6	39	118	688	432	272	572	1,500	170	44	41	55	294
7	33	71	719	241	636	621	1,100	135	60	34	51	288
8	34	45	593	413	681	945	760	123	76	32	48	191
9	34	45	222	370	643	961	620	152	56	32	48	90
10	110	45	210	236	379	1,140	550	135	52	34	50	79
11	59	45	210	200	305	2,720	620	132	52	36	48	55
12	49	45	210	190	294	961	700	246	52	34	48	152
13	42	45	220	180	277	658	520	366	50	34	50	111
14	47	45	372	170	399	426	350	600	42	29	58	317
15	34	61	474	300	579	420	260	572	36	24	53	322
16	106	186	538	600	545	600	261	322	35	21	50	305
17	60	180	400	1,550	406	1,000	272	256	35	20	101	213
18	47	203	170	2,110	372	1,300	317	379	35	20	58	101
19	49	230	220	3,420	294	1,000	299	236	35	20	53	53
20	41	316	280	1,990	593	450	226	135	41	20	57	38
21	29	335	820	2,050	817	500	170	98	41	88	51	60
22	27	327	780	3,180	977	440	142	95	53	32	36	36
23	26	314	640	4,900	1,040	380	135	142	462	36	34	30
24	24	378	538	4,610	1,310	420	170	142	282	40	27	24
25	25	1,460	621	4,490	1,320	480	204	462	213	34	29	21
26	26	1,610	2,010	4,400	1,080	510	217	174	114	32	30	20
27	25	1,240	3,840	4,660	261	390	191	163	159	32	32	18
28	26	1,840	3,040	2,830	366	370	138	148	88	32	70	41
29	68	557	1,930	1,720	-----	950	135	110	74	38	86	182
30	181	2,820	1,200	1,520	-----	1,500	83	155	66	40	98	109
31	264	-----	945	930	-----	2,000	-----	100	-----	36	51	-----
TOTAL	1,738	13,748	28,939	49,890	16,084	24,850	20,140	6,566	2,515	1,060	1,635	3,865
MEAN	56.1	458	934	1,609	574	802	671	212	83.8	34.2	52.7	129
MAX	264	2,820	3,840	4,900	1,320	2,720	2,400	600	462	88	101	322
MIN	24	45	170	170	241	370	83	76	35	20	27	18

CAL YR 1973 TOTAL 221,461 MEAN 607 MAX 5,500 MIN 24
 WTR YR 1974 TOTAL 171,030 MEAN 469 MAX 4,900 MIN 18

SCIOTO RIVER BASIN

03227500 Scioto River at Columbus, Ohio

LOCATION.--Lat 39°54'34", long 83°00'33", Franklin County, on right bank at sewage-treatment works of city of Columbus, 0.4 mi (0.6 km) downstream from bridge on Frank Road, 2.8 mi (4.5 km) upstream from Scioto Big Run, and 5 mi (8 km) downstream from Olentangy River.

DRAINAGE AREA.--1,629 mi² (4,219 km²).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 680.00 ft (207.264 m) above mean sea level. Prior to Oct. 1, 1924, nonrecording gage at site 200 ft (61 m) upstream at same datum.

AVERAGE DISCHARGE.--54 years, 1,375 ft³/s (38.94 m³/s).

EXTREMES.--Current year: Maximum discharge, 15,900 ft³/s (450 m³/s) Jan. 21, gage height, 18.18 ft (5.541 m); minimum, 132 ft³/s (3.74 m³/s) July 21, 27, 28.

Period of record: Maximum discharge, 68,200 ft³/s (1,930 m³/s) Jan. 22, 1959, gage height, 27.22 ft (8.297 m), from high-water mark in well, from rating curve extended above 46,000 ft³/s (1,300 m³/s); minimum, 42 ft³/s (1.19 m³/s) Sept. 6, 1930.

Flood of Mar. 25, 1913 reached a stage of 25.9 ft (7.89 m), discharge, 138,000 ft³/s (3,910 m³/s), estimated by Franklin County Conservancy District.

REMARKS.--Records good. Flow regulated by Griggs Reservoir 10.4 mi (16.7 km) upstream (see station 03221500), O'Shaughnessy Reservoir 20.4 mi (32.8 km) upstream (see station 03220500), and Delaware Lake 35 mi (56 km) upstream from station (see station 03225000). Records include only part of sewage return flow for city of Columbus. Water supply for city of Columbus is obtained from Scioto River downstream from Griggs Dam, Big Walnut Creek downstream from Central College, and from well field in Alum Creek basin. For statement on diversions from Alum Creek basin and Big Walnut Creek, see REMARKS for stations 03229000 and 03229500. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 743: 1927(M). WSP 803: 1922-24, 1926-30, 1932-33. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,420	1,190	5,840	3,130	3,290	1,840	5,980	585	579	321	170	630
2	811	1,010	4,550	1,960	2,330	2,510	8,460	512	419	284	207	397
3	335	972	2,880	1,500	1,880	2,700	9,280	771	353	279	348	929
4	335	818	1,680	1,530	1,450	2,420	11,900	636	332	269	414	591
5	350	671	2,060	1,360	1,150	2,000	7,220	598	245	518	222	460
6	255	506	2,020	1,140	1,340	1,720	5,950	554	380	315	198	524
7	290	416	1,870	1,070	2,500	1,940	4,980	454	518	260	207	617
8	295	330	1,570	972	1,990	2,130	4,230	448	284	255	212	548
9	340	320	1,120	951	1,810	2,230	3,560	598	269	260	236	431
10	572	295	972	1,110	1,240	1,760	3,920	483	255	250	222	353
11	500	280	874	1,040	1,110	3,080	3,640	454	236	236	202	332
12	350	250	783	923	1,060	3,620	3,040	743	232	222	207	489
13	335	250	888	769	1,020	2,820	2,400	750	212	217	207	579
14	368	245	1,080	748	1,320	2,090	1,900	1,120	198	250	289	1,420
15	300	542	1,270	1,160	2,210	1,580	1,620	1,280	489	241	217	1,230
16	350	584	1,470	3,090	2,120	1,840	1,410	864	448	212	202	958
17	368	500	1,310	5,890	1,600	2,640	1,190	702	326	212	643	702
18	295	566	867	7,200	1,310	3,040	1,080	1,420	212	193	310	530
19	280	572	734	11,600	1,260	2,520	1,020	757	212	202	321	391
20	255	664	1,550	13,800	2,370	1,820	843	530	241	175	300	560
21	245	832	1,970	14,800	3,240	1,640	750	425	477	179	212	466
22	225	741	2,040	13,500	3,600	1,460	778	397	750	212	212	315
23	210	706	1,670	13,200	4,140	1,290	709	885	2,140	227	236	284
24	205	1,380	1,470	11,900	3,920	1,320	675	835	1,100	188	202	245
25	190	4,160	1,360	9,950	3,200	1,340	643	828	1,080	179	198	241
26	185	5,990	4,530	8,670	1,940	1,320	682	689	1,170	170	217	232
27	175	6,470	11,100	8,920	1,380	1,420	604	500	656	166	227	241
28	220	8,020	10,000	8,410	1,390	1,490	554	436	512	170	375	591
29	578	5,050	8,220	5,830	-----	3,630	506	524	425	188	591	414
30	650	5,680	6,240	5,540	-----	7,730	604	1,020	364	193	591	454
31	825	-----	4,550	4,110	-----	7,380	-----	750	-----	179	300	-----
TOTAL	12,112	50,010	88,538	165,773	57,170	76,320	90,128	21,548	15,114	7,222	8,695	16,154
MEAN	391	1,667	2,856	5,348	2,042	2,462	3,004	695	504	233	280	538
MAX	1,420	8,020	11,100	14,800	4,140	7,730	11,900	1,420	2,140	518	643	1,420
MIN	175	245	734	748	1,020	1,290	506	397	198	166	170	232

CAL YR 1973 TOTAL 753,277 MEAN 2,064 MAX 20,600 MIN 175
WTR YR 1974 TOTAL 608,784 MEAN 1,668 MAX 14,800 MIN 166

03228500 Big Walnut Creek at Central College, Ohio

LOCATION.--Lat 40°06'13", long 82°53'03", T.2 N., R.17 W., Franklin County, on right bank at upstream side of county road bridge, 0.2 mi (0.3 km) east of Central College, 0.4 mi (0.6 km) downstream from Hoover Dam, and 3 mi (5 km) southeast of Westerville.

DRAINAGE AREA.--190 mi² (492 km²).

PERIOD OF RECORD.--July 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.16 ft (248.461 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 182 ft³/s (5.154 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,370 ft³/s (95.4 m³/s) Apr. 2, gage height, 9.84 ft (2.999 m); minimum, 13 ft³/s (0.37 m³/s) Oct. 12.

Period of record: Maximum discharge, 23,800 ft³/s (674 m³/s) Jan. 21, 1959, gage height, 19.75 ft (6.020 m), from rating curve extended above 7,200 ft³/s (204 m³/s) on basis of computation of peak flow over Hoover Dam; no flow for many days in 1944 and 1955.

REMARKS.--Records good. Flow completely regulated by Hoover Reservoir 0.4 mi (0.6 km) upstream since September 1954 (see station 03228400). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1938. WSP 1435: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	191	323	177	183	142	405	117	98	101	140	117
2	199	151	234	136	162	270	2,810	113	95	117	140	132
3	193	150	223	128	135	195	1,710	101	107	112	106	102
4	153	150	224	127	121	199	2,780	107	102	116	125	109
5	99	157	235	116	117	278	1,890	98	110	96	103	111
6	93	173	313	112	136	210	557	102	105	111	106	101
7	81	173	252	111	889	165	310	100	100	108	105	105
8	95	128	224	111	385	207	421	111	98	125	117	102
9	128	101	223	111	222	173	361	97	101	118	105	114
10	187	101	223	112	210	258	598	107	107	126	114	112
11	130	101	152	112	203	162	325	99	111	125	90	104
12	117	101	109	112	164	254	224	97	106	129	111	102
13	86	132	112	112	100	226	206	110	103	130	119	112
14	90	126	113	112	110	213	143	118	112	117	109	112
15	95	137	223	138	103	212	109	113	106	119	105	98
16	98	173	257	1,200	103	268	120	114	96	131	117	121
17	95	173	176	1,350	97	468	115	111	102	131	167	102
18	96	171	109	699	106	253	116	125	108	138	104	114
19	93	119	112	2,340	116	227	111	130	105	127	116	111
20	124	80	264	1,840	318	155	115	111	103	142	107	116
21	126	101	908	1,530	342	176	103	117	105	125	112	98
22	87	114	260	687	491	283	143	112	109	142	109	101
23	93	73	203	1,250	483	290	208	101	178	100	111	107
24	87	105	169	979	283	198	145	110	92	119	109	111
25	92	177	206	416	167	144	108	102	100	124	111	107
26	124	151	1,470	297	110	162	113	98	155	118	114	121
27	93	211	2,410	796	111	526	117	93	133	140	132	107
28	179	529	663	514	111	340	112	109	97	129	169	111
29	191	1,120	445	471	-----	1,230	116	104	101	121	123	151
30	142	482	445	269	-----	1,980	113	199	94	113	159	111
31	139	-----	306	219	-----	715	-----	111	-----	141	104	-----
TOTAL	3,788	5,851	11,586	16,684	6,078	10,579	14,704	3,437	3,239	3,791	3,659	3,322
MEAN	122	195	374	538	217	341	490	111	108	122	118	111
MAX	199	1,120	2,410	2,340	889	1,980	2,810	199	178	142	169	151
MIN	81	73	109	111	97	142	103	93	92	96	90	98

CAL YR 1973 TOTAL 106,003 MEAN 290 MAX 4,360 MIN 73
WTR YR 1974 TOTAL 86,718 MEAN 238 MAX 2,810 MIN 73

SCIOTO RIVER BASIN

03228750 Alum Creek near Kilbourne, Ohio

LOCATION.--Lat 40°21'24", long 82°55'18", T.5 N., R.17 W., Delaware County, on left bank at upstream side of bridge on County Road 34, 100 ft (30 m) downstream from West Branch Alum Creek, and 2.6 mi (4.2 km) northeast of Kilbourne.

DRAINAGE AREA.--64.9 mi² (168 km²).

PERIOD OF RECORD.--November 1973 to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 900.99 ft (274.622 m) above mean sea level.

EXTREMES.--For the period Nov. 1 to Sept. 30: Maximum discharge, 3,400 ft³/s (96.3 m³/s) Jan. 19, gage height, 9.69 ft (2.954 m); minimum, 0.66 ft³/s (0.019 m³/s) Aug. 25, 27.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		60	69	47	53	110	118	29	9.1	17	1.1	23
2		29	47	42	47	94	823	20	8.1	13	.99	13
3		17	36	38	40	87	247	25	7.2	7.7	1.2	18
4		12	34	33	31	62	474	21	6.8	5.5	3.4	33
5		10	215	30	40	79	143	16	5.9	7.7	2.6	10
6		9.4	105	27	49	68	121	15	6.4	6.8	1.9	5.1
7		8.6	52	25	232	97	93	14	6.8	4.7	1.2	3.1
8		8.2	37	24	109	97	80	14	6.4	4.0	1.1	2.6
9		7.9	32	23	76	62	124	18	6.4	3.7	1.1	2.1
10		7.4	28	30	77	121	118	17	5.9	3.4	1.2	2.1
11		6.9	23	28	53	66	72	15	5.1	3.1	1.5	1.9
12		6.8	24	26	31	107	54	126	5.1	2.8	1.5	7.7
13		7.1	34	24	47	68	46	88	4.7	2.6	1.2	40
14		8.5	126	23	85	42	66	36	4.4	2.6	2.1	16
15		14	66	60	50	39	110	22	7.7	2.4	2.6	8.6
16		24	38	600	40	216	50	18	11	2.1	1.9	5.1
17		17	31	442	29	113	36	16	10	2.1	2.1	3.7
18		13	25	295	26	69	29	18	7.7	1.9	2.1	3.1
19		11	21	2,070	65	69	26	15	5.9	1.9	1.7	2.8
20		9.6	174	423	143	54	22	12	5.9	1.7	1.2	3.4
21		27	251	647	88	58	20	11	5.9	1.7	.99	5.9
22		44	103	232	210	66	23	11	7.2	1.7	.91	5.9
23		21	70	444	119	61	27	15	90	1.9	.85	4.4
24		54	32	249	66	52	21	14	34	2.4	.78	3.4
25		757	201	128	62	49	18	12	13	2.4	.72	2.8
26		400	646	101	64	76	16	10	11	1.9	.72	2.6
27		381	950	249	53	139	15	8.6	11	1.7	.72	2.8
28		630	203	152	84	84	14	8.1	8.6	1.5	4.7	4.4
29		341	110	134	-----	437	14	13	7.7	1.1	18	10
30		121	70	97	-----	355	18	13	6.8	1.1	30	9.1
31		-----	56	74	-----	178	-----	10	-----	1.1	9.1	-----
TOTAL		3,063.4	3,909	6,817	2,069	3,275	3,038	680.7	331.7	115.2	101.18	255.6
MEAN		102	126	220	73.9	106	101	22.0	11.1	3.72	3.26	8.52
MAX		757	950	2,070	232	437	823	126	90	17	30	40
MIN		6.8	21	23	26	39	14	8.1	4.4	1.1	.72	1.9
CFSM		1.57	1.94	3.39	1.14	1.63	1.56	.34	.17	.06	.05	.13
IN.		1.76	2.24	3.91	1.19	1.88	1.74	.39	.19	.07	.06	.15

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1515	7.03	1,520	1-16	2130	7.06	1,540	1-21	0830	6.18	1,030
12-27	0045	8.02	2,160	1-19	1000	9.69	3,400	4-02	0530	7.50	1,810

03228805 Alum Creek at Africa, Ohio

LOCATION.--Lat 40°11'00", long 82°57'47", in SE 1/4 sec. 1, T.3 N., R.18 W., Delaware County, on right bank 400 ft (122 m) upstream of bridge on Lewis Center Road, 1,200 ft (366 m) downstream from outlet of Alum Creek dam, 0.3 mi (0.5 km) west of Africa, 2.8 mi (4.5 km) upstream from Westerville Reservoir outlet, and 4.2 mi (6.8 km) northwest of Westerville.

DRAINAGE AREA.--122 mi² (316 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1962, June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft (243.840 m) above mean sea level (levels by Corps of Engineers). Oct. 17, 1973 to July 9, 1974 nonrecording gage at bridge 400 ft (121.920 m) downstream at same datum. Prior to Oct. 17, 1973 water-stage recorder 600 ft (182.880 m) downstream at datum 17.37 higher.

AVERAGE DISCHARGE.--11 years, 125 ft³/s (3.540 m³/s).

EXTREMES.--Current year: Maximum observed discharge, 629 ft³/s (128 m³/s) Jan. 28, gage height, 23.64 ft (7.205 m); minimum daily, 0.84 ft³/s (0.024 m³/s) July 11, 12.

Period of record: Maximum discharge, 6,160 ft³/s (174 m³/s) Mar. 10, 1964, gage height, 13.95 ft (4.252 m), from graph based on gage readings, site and datum then in use; no flow at times 1963-65.

Flood of Mar. 5, 1963 reached a stage of 14.2 ft (4.33 m), from floodmarks, discharge, 6,460 ft³/s (183 m³/s).

REMARKS.--Records good except for Oct. 17 to July 12, which are poor. Flow regulated by Alum Creek Lake since October 1973. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	20	354	229	528	265	283	54	54	34	8.0	9.7
2	3.4	26	350	212	500	270	327	28	54	32	6.2	8.5
3	2.0	31	347	210	470	260	336	79	52	31	5.3	14
4	3.6	30	323	210	444	250	369	90	50	31	5.3	10
5	7.0	29	300	210	432	241	364	40	51	27	4.1	9.6
6	1.9	18	314	210	429	229	360	17	51	23	4.7	9.0
7	1.1	12	286	212	426	220	350	17	49	20	6.2	8.5
8	1.1	12	247	212	415	212	350	29	48	15	6.2	8.5
9	1.1	11	210	210	410	210	350	79	48	10	6.7	8.5
10	1.7	10	191	205	400	200	338	72	47	.90	6.7	8.5
11	1.5	9.9	170	205	391	196	334	76	45	.84	6.7	8.1
12	3.8	9.5	163	210	364	177	329	78	44	.84	6.7	13
13	4.7	8.0	163	205	352	175	320	68	43	.89	6.7	7.6
14	4.7	15	161	199	345	152	320	26	41	1.2	6.2	7.6
15	3.8	19	155	197	316	140	316	76	40	3.7	5.7	7.6
16	3.0	18	150	206	272	180	308	71	39	8.0	4.9	13
17	2.8	18	146	212	230	180	300	39	37	8.0	5.7	13
18	3.1	19	144	216	210	180	286	74	37	8.0	4.1	13
19	3.6	15	159	231	203	180	281	74	35	8.0	4.1	12
20	3.6	18	220	300	200	185	270	71	30	8.0	4.1	12
21	3.6	16	260	417	210	185	265	68	30	8.0	3.7	12
22	3.4	21	260	534	210	166	258	67	32	8.0	3.2	11
23	3.2	22	254	554	220	150	245	70	38	11	2.8	11
24	3.2	45	228	573	280	140	235	68	39	10	2.4	11
25	3.6	170	205	531	283	129	223	68	41	9.0	2.8	11
26	3.6	180	258	519	278	134	214	60	40	9.0	2.4	11
27	3.6	252	254	496	260	159	200	52	39	9.0	2.1	11
28	3.6	329	250	424	267	188	170	51	38	9.0	5.2	11
29	7.0	531	242	589	-----	212	57	52	37	9.0	6.9	11
30	4.0	522	231	557	-----	240	79	52	35	9.0	6.7	10
31	13	-----	231	542	-----	270	-----	53	-----	8.5	12	-----
TOTAL	119.2	2,436.4	7,226	10,037	9,345	6,075	8,437	1,819	1,264	370.87	164.5	311.7
MEAN	3.85	81.2	233	324	334	196	281	58.7	42.1	12.0	5.31	10.4
MAX	13	531	354	589	528	270	369	90	54	34	12	14
MIN	1.1	8.0	144	197	200	129	57	17	30	.84	2.1	7.6

CAL YR 1973 TOTAL 59,620.30 MEAN 163 MAX 3,540 MIN 1.1
WTR YR 1974 TOTAL 47,605.67 MEAN 130 MAX 589 MIN .84

SCIOTO RIVER BASIN

03229000 Alum Creek at Columbus, Ohio

LOCATION.--Lat 39°56'42", long 82°56'28", in NW 1/4 sec.24, T.5 N., R.22 W., Franklin County, on left bank 0.2 mi (0.3 km) downstream from Livingston Avenue Bridge in Columbus, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--189 mi² (490 km²).

PERIOD OF RECORD.--July 1923 to December 1935, January 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 733.69 ft (223.629 m) above mean sea level.

AVERAGE DISCHARGE.--48 years, 168 ft³/s (4.758 m³/s), 12.07 in/yr (306.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,380 ft³/s (67.4 m³/s) Nov. 25, gage height, 6.38 ft (1.945 m); minimum, 9.4 ft³/s (0.27 m³/s) Oct. 12, Aug. 26, 27.

Period of record: Maximum discharge, 26,400 ft³/s (748 m³/s) Jan. 22, 1959, gage height, 19.59 ft (5.971 m) (from high-water mark in well), from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of contracted-opening measurement of peak flow; no flow Sept. 21-29, 1959.

REMARKS.--Records good except those for period of no gage height record Feb. 1 to Mar. 30, June 24 to July 22, which are fair. Flow regulated by Alum Creek Lake 19 mi (31 km) upstream, since Aug. 1973. There was no pumpage from the Alum Creek well field this year. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 758: 1933. WSP 1305: 1928(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353	222	399	295	529	280	446	143	87	66	14	167
2	253	101	362	281	529	280	1,500	92	71	61	69	58
3	101	72	330	267	529	270	1,600	150	65	91	120	204
4	101	61	339	267	529	270	2,000	99	60	165	128	67
5	53	66	470	258	480	290	620	116	57	165	21	29
6	23	51	339	244	480	280	545	113	94	61	15	21
7	19	49	286	236	1,490	270	483	79	76	54	13	18
8	17	41	258	249	629	300	587	98	56	48	15	18
9	15	24	214	244	529	270	618	167	54	54	17	18
10	12	27	181	281	480	240	593	120	50	70	15	17
11	10	30	157	267	460	230	468	99	50	50	13	17
12	10	29	141	240	440	220	432	217	43	35	13	29
13	15	29	218	258	420	210	410	134	37	23	14	49
14	39	32	281	231	410	210	438	111	40	25	88	41
15	18	161	197	499	390	210	394	96	139	26	18	23
16	17	122	173	634	380	339	379	98	93	24	15	20
17	12	51	149	480	350	295	366	155	63	22	243	19
18	12	43	140	456	310	270	354	373	42	20	83	20
19	12	39	141	884	249	240	344	125	47	18	27	20
20	12	32	417	524	529	220	334	99	40	19	16	80
21	12	108	413	894	350	295	323	82	69	15	14	48
22	13	87	321	679	360	280	358	87	276	14	14	26
23	14	53	280	849	340	250	318	264	505	14	18	21
24	14	436	250	734	320	230	292	204	121	13	12	19
25	15	1,410	313	654	310	205	275	92	729	15	11	19
26	17	600	620	610	300	220	264	78	165	13	10	19
27	16	1,090	1,010	719	290	270	253	67	126	13	10	24
28	20	1,140	408	639	280	249	242	61	91	12	62	142
29	227	554	394	719	-----	829	225	151	80	12	154	56
30	236	456	367	649	-----	1,020	173	192	74	29	102	32
31	94	-----	317	600	-----	546	-----	105	-----	15	25	-----
TOTAL	1,782	7,216	9,885	14,841	12,692	9,588	15,634	4,067	3,500	1,262	1,389	1,341
MEAN	57.5	241	319	479	453	309	521	131	117	40.7	44.8	44.7
MAX	353	1,410	1,010	894	1,490	1,020	2,000	373	729	165	243	204
MIN	10	24	140	231	249	205	173	61	37	12	10	17

CAL YR 1973 TOTAL 95,171.0 MEAN 261 MAX 7,230 MIN 8.8
WTR YR 1974 TOTAL 83,197.0 MEAN 228 MAX 2,000 MIN 10

PEAK DISCHARGE (BASE, 3,000 FT³/S).--No peak above base.

03229500 Big Walnut Creek at Rees, Ohio

LOCATION.--Lat 39°51'24", long 82°57'26", in NE 1/4 sec.26, T.4 N., R.22 W., Franklin County, on right bank at downstream side of bridge on Reese Road, 0.5 mi (0.8 km) southwest of Rees, 4.2 mi (6.8 km) downstream from Alum Creek, and 10.5 mi (16.9 km) upstream from mouth.

DRAINAGE AREA.--544 mi² (1,409 km²).

PERIOD OF RECORD.--August 1921 to December 1935. October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 698.20 ft (212.811 m) above mean sea level. Aug. 18, 1921, to Oct. 23, 1927, nonrecording gage at site 0.3 mi (0.5 km) upstream at datum 2.00 ft (0.610 m) higher prior to Oct. 1, 1924, at present datum thereafter.

AVERAGE DISCHARGE.--50 years, 506 ft³/s (14.33 m³/s) (adjusted for diversion). mm/yr (adjusted for diversion).

EXTREMES.--Current year: Maximum discharge, 8,160 ft³/s (231 m³/s) Apr. 4, gage height, 12.20 ft (3.719 m); minimum, 39 ft³/s (1.10 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 59,800 ft³/s (1,690 m³/s) Jan. 22, 1959, gage height, 22.03 ft (6.715 m) (from high-water mark in well), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 5 ft³/s (0.14 m³/s) Sept. 4, 5, 10-12, 1925.

Flood of Mar. 25, 1913 reached a stage of 20.5 ft (6.25 m), present datum, at site 0.3 mi (0.5 km) upstream.

REMARKS.--Records good. Flow regulated by Hoover Reservoir 26 mi (42 km) upstream (see station 03228400) and Alum Creek Lake 30 mi (48 km) since August 1973. Beginning June 15, 1956, diversion at Morse Road Treatment Plant, 21 mi (34 km) upstream from station, for municipal water supply for the city of Columbus. For statement on pumpage from Alum Creek basin into municipal supply system of the city of Columbus, see REMARKS for station 03229000. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1053: 1929, 1933(M), 1943(M), 1945. WSP 1305: 1923(M), 1925-26(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	965	970	627	801	523	1,160	442	254	140	42	894
2	1,180	542	712	430	723	546	3,110	231	182	126	43	566
3	487	328	612	370	670	611	3,090	391	152	111	175	623
4	954	272	600	340	623	508	6,360	281	136	102	266	562
5	550	269	965	310	582	603	3,290	229	126	519	134	229
6	215	245	740	280	723	578	1,880	205	156	380	89	134
7	134	226	616	270	3,200	491	1,010	160	234	158	65	106
8	109	226	520	260	1,520	508	1,300	156	142	125	81	91
9	95	164	470	350	869	508	1,600	281	128	132	72	78
10	82	114	430	475	710	466	1,350	237	119	196	77	78
11	144	107	387	535	688	442	1,070	179	109	96	60	75
12	130	106	281	434	636	368	764	343	107	77	56	74
13	85	104	313	361	615	466	666	350	98	67	51	107
14	134	114	515	380	619	399	679	226	93	66	112	208
15	93	278	387	661	566	368	636	182	231	65	79	121
16	75	879	454	2,050	531	728	531	186	245	63	66	91
17	71	400	383	2,480	504	778	491	166	272	57	365	75
18	61	297	275	1,490	438	632	466	1,360	138	54	321	69
19	60	269	243	3,380	430	483	446	566	112	54	343	65
20	56	189	723	3,450	1,100	450	422	321	154	51	160	152
21	54	218	1,820	2,680	825	554	406	226	170	50	83	200
22	123	336	890	2,190	939	619	458	198	314	49	62	134
23	67	248	508	1,970	1,170	527	487	479	1,700	49	65	86
24	56	574	466	2,770	732	574	487	558	550	54	69	71
25	50	4,020	450	1,380	636	414	399	346	458	51	49	65
26	50	2,720	1,570	1,030	483	387	343	220	750	49	43	60
27	48	2,230	3,910	1,630	458	746	325	179	414	47	41	61
28	72	5,990	1,950	1,630	496	806	311	156	251	45	144	170
29	554	2,510	1,080	1,440	-----	2,370	291	175	205	44	365	186
30	1,210	1,440	1,130	1,130	-----	5,200	288	508	158	50	732	168
31	504	-----	820	879	-----	2,390	-----	414	-----	51	260	-----
TOTAL	7,787	26,380	25,190	37,662	22,287	25,043	34,116	9,951	8,158	3,178	4,570	5,599
MEAN	251	879	813	1,215	796	808	1,137	321	272	103	147	187
MAX	1,210	5,990	3,910	3,450	3,200	5,200	6,360	1,360	1,700	519	732	894
MIN	48	104	243	260	430	368	288	156	93	44	41	60
(+)	116	104	104	106	104	103	107	108	111	129	119	114
CAL YR 1973	TOTAL 269,550		MEAN 738		MAX 10,800		MIN 48					
WTR YR 1974	TOTAL 209,921		MEAN 575		MAX 6,360		MIN 41					

(+) Diversion, equivalent in cubic feet per second, for city of Columbus.

SCIOTO RIVER BASIN

03230500 Big Darby Creek at Darbyville, Ohio

LOCATION.--Lat 39°42'03", long 83°06'35", Pickaway County, near right bank on downstream side of pier of bridge on State Highway 316, 0.4 mi (0.6 km) northeast of Darbyville, 0.4 mi (0.6 km) upstream from Lizzard Run, and 3 mi (5 km) downstream from Greenbrier Creek.

DRAINAGE AREA.--534 mi² (1,383 km²).

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Prior to October 1959, published as Darby Creek at Darbyville.

GAGE.--Water-stage recorder. Datum of gage is 713.69 ft (217.533 m) above mean sea level. Prior to Mar. 17, 1940 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years, 441 ft³/s (12.49 m³/s), 11.21 in/yr (284.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,780 ft³/s (192 m³/s) Apr. 4, gage height, 10.81 ft (3.295 m); minimum, 31 ft³/s (0.88 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 49,000 ft³/s (1,390 m³/s) Jan. 22, 1959, gage height, 17.94 ft (5.468 m), from rating curve extended above 22,000 ft³/s (623 m³/s) on basis of contracted-opening measurement of peak flow; minimum observed, 1.4 ft³/s (0.040 m³/s) Sept. 17, 1932.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1083: 1922(M), 1924(M), 1927(M), 1933(M), 1938(M). WSP 1305: 1928-31(M), 1934(M), 1945(M). WSP 1505: 1932(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	151	1,480	891	796	658	1,690	287	424	278	39	405
2	154	184	1,080	687	694	720	2,670	249	311	233	38	239
3	192	293	879	620	623	602	4,250	348	249	196	41	220
4	369	210	777	550	544	544	5,370	300	214	169	38	381
5	351	167	958	470	467	512	4,710	251	186	390	48	396
6	237	147	1,080	420	474	547	1,880	224	184	372	40	273
7	300	134	750	380	1,280	544	1,310	210	360	190	39	184
8	220	124	606	350	879	470	1,540	198	246	150	42	135
9	174	119	536	360	662	421	2,070	216	208	132	45	107
10	150	114	498	441	508	390	2,020	216	176	117	47	95
11	134	110	434	491	467	342	2,020	202	158	107	50	85
12	124	106	375	428	421	328	1,820	206	147	96	45	77
13	115	102	378	366	464	314	1,330	216	132	90	40	134
14	113	101	441	366	626	300	987	242	121	86	41	242
15	109	109	491	644	758	270	859	206	129	81	42	186
16	119	228	434	1,810	565	339	758	177	169	74	43	147
17	136	186	363	3,140	494	487	606	170	174	72	45	120
18	118	226	280	3,520	431	447	533	246	137	67	64	100
19	107	184	308	2,980	441	354	477	450	118	59	62	89
20	100	157	460	4,440	966	311	424	405	115	54	111	85
21	96	151	1,030	4,260	1,110	351	381	292	157	53	83	89
22	92	164	863	3,850	962	372	375	244	375	52	62	84
23	90	159	651	2,420	1,350	339	378	261	2,040	52	50	78
24	90	202	508	2,470	912	339	360	623	1,640	52	44	77
25	88	1,930	505	1,790	680	303	314	547	991	51	39	71
26	86	3,800	1,730	1,260	526	290	280	399	1,060	50	36	66
27	83	4,310	4,310	1,460	481	399	265	303	717	48	32	63
28	83	5,530	3,380	2,290	512	447	244	256	519	46	41	65
29	86	4,130	1,910	1,590	-----	855	233	228	409	45	64	118
30	96	2,450	1,550	1,200	-----	3,240	237	325	331	41	186	135
31	108	-----	1,230	962	-----	3,050	-----	612	-----	40	181	-----
TOTAL	4,400	25,978	30,275	46,906	19,093	18,885	40,391	9,109	12,197	3,543	1,778	4,546
MEAN	142	866	977	1,513	682	609	1,346	294	407	114	57.4	152
MAX	369	5,530	4,310	4,440	1,350	3,240	5,370	623	2,040	390	186	405
MIN	80	101	280	350	421	270	233	170	115	40	32	63
CFSM	.27	1.62	1.83	2.83	1.28	1.14	2.52	.55	.76	.21	.11	.28
IN.	.31	1.81	2.11	3.27	1.33	1.32	2.81	.63	.85	.25	.12	.32

CAL YR 1973 TOTAL 269,964 MEAN 740 MAX 6,790 MIN 70 CFSM 1.39 IN 18.81
WTR YR 1974 TOTAL 217,101 MEAN 595 MAX 5,530 MIN 32 CFSM 1.11 IN 15.12

PEAK DISCHARGE (BASE, 4,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	1300	10.24	5,890	1-20	1330	9.31	4,650
12-27	1100	9.35	4,700	4-4	2200	10.81	6,780

03230700 SCIOTO RIVER AT CIRCLEVILLE, OHIO

LOCATION.--Lat 39°36'05", long 82°57'19", in SW 1/4 Sec. 19, T.11 N., R.21 W., Pickaway County, on right bank 100 ft (30.5 m) upstream from U.S. Highway 22 bridge, 1,400 ft (427 m) downstream from Hargus Creek, and 1.0 mi (1.5 km) downstream from Big Darby Creek.

DRAINAGE AREA.--3,217 mi² (8,332 km²).

PERIOD OF RECORD.--October 1973 to September 1974. Gage-height records collected in this vicinity since September 1915, are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 643.03 ft (195.996 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 28,800 ft³/s (816 m³/s) Apr. 5, gage height, 17.57 (5.355 m); minimum, 450 ft³/s (12.7 m³/s) Aug. 26, 27.

Flood of Mar. 26, 1913 reached a stage of 28.2 ft (8.60 m), from information supplied by National Weather Service, and has not been exceeded since.

REMARKS.--Records good. Flow regulated by 4 reservoirs 38 mi (61 km) to 62 mi (100 km) upstream from station (see Station No. 03220500, 03221500, 03225500, 03228400, and unfinished Alum Creek Dam. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	847	2,780	9,790	6,340	5,840	3,190	12,300	2,060	2,200	1,360	491	2,070
2	3,110	2,940	8,040	4,550	4,790	3,880	11,800	1,660	1,620	1,180	461	4,320
3	2,400	2,250	5,910	3,620	4,010	4,290	17,100	2,070	1,320	1,030	630	2,450
4	1,880	1,910	4,180	3,250	3,450	4,050	19,600	2,070	1,160	938	898	3,440
5	2,130	1,680	4,580	3,040	2,960	3,630	25,300	1,720	1,060	1,030	797	2,360
6	1,540	1,440	4,950	2,760	2,800	3,390	14,800	1,570	985	2,590	607	1,620
7	1,190	1,270	4,030	2,550	8,970	3,350	9,250	1,440	1,690	1,320	527	1,430
8	1,100	1,120	3,440	2,350	7,790	3,470	7,580	1,290	1,330	993	559	1,290
9	989	1,030	3,010	2,260	4,740	3,600	10,300	1,470	1,160	881	604	1,030
10	1,070	929	2,540	2,780	3,640	3,220	7,990	1,540	997	897	752	875
11	1,140	855	2,390	3,500	3,090	3,430	7,720	1,370	915	931	725	788
12	1,030	815	2,140	3,070	2,890	4,490	6,680	1,460	874	810	577	731
13	904	784	2,010	2,370	2,880	4,110	5,430	2,140	831	679	559	978
14	896	776	2,530	2,270	3,070	3,420	4,380	1,890	768	627	549	1,970
15	871	839	2,680	3,010	3,770	2,820	4,090	2,150	911	648	627	2,330
16	792	2,520	2,780	7,620	3,860	3,110	3,460	1,920	1,460	610	535	1,750
17	863	2,170	2,690	10,500	3,370	4,070	3,000	1,500	1,490	567	790	1,400
18	784	2,150	2,200	12,200	2,880	4,490	2,690	4,610	1,070	551	1,230	1,090
19	708	1,590	1,790	13,300	2,670	4,050	2,540	4,580	847	536	1,290	881
20	686	1,510	2,400	21,600	4,120	3,230	2,350	2,470	869	524	1,120	769
21	671	1,530	6,240	23,800	5,600	2,940	2,150	1,820	1,340	497	758	1,230
22	650	1,760	4,980	23,500	5,600	3,180	2,070	1,520	1,630	497	593	1,250
23	686	1,670	3,770	20,200	6,960	2,810	2,270	1,810	7,630	519	540	899
24	629	1,650	3,110	19,500	6,310	2,650	2,090	2,510	6,010	542	524	734
25	601	8,150	2,890	17,500	5,270	2,680	1,970	2,400	3,370	511	494	651
26	581	16,200	5,360	13,200	4,000	2,490	1,830	2,090	4,860	497	460	615
27	569	17,900	13,800	11,800	3,020	2,940	1,760	1,540	3,150	486	464	587
28	575	18,200	18,000	13,100	2,840	3,360	1,650	1,360	2,280	474	506	708
29	723	21,200	15,400	11,500	-----	4,300	1,540	1,290	1,890	509	904	1,170
30	2,930	13,400	12,200	8,850	-----	13,000	1,500	2,230	1,630	673	2,730	978
31	2,370	-----	8,740	7,160	-----	16,900	-----	2,510	-----	525	2,580	-----
TOTAL	35,915	133,018	168,570	283,050	121,190	130,540	197,190	62,060	57,347	24,432	24,881	42,394
MEAN	1,159	4,434	5,438	9,131	4,328	4,211	6,573	2,002	1,912	788	803	1,413
MAX	3,110	21,200	18,000	23,800	8,970	16,900	25,300	4,610	7,630	2,590	2,730	4,320
MIN	569	776	1,790	2,260	2,670	2,490	1,500	1,290	768	474	460	587

WTR YR 1974 TOTAL 1,280,587 MEAN 3,508 MAX 25,300 MIN 460

SCIOTO RIVER BASIN

03230800 Deer Creek at Mount Sterling, Ohio

LOCATION.--Lat 39°42'54", long 83°15'26", Madison County, on left bank at downstream side of bridge on State Highway 56, 0.2 mi (0.3 km) downstream from unnamed right bank tributary, 0.6 mi (1.0 km) southeast of Mount Sterling, and 4.9 mi (7.9 km) upstream from Duffs Fork.

DRAINAGE AREA.--228 mi² (591 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 836.25 ft (254.889 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 236 ft³/s (6.68 m³/s), 14.07 in/yr (357.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,160 ft³/s (118 m³/s) Nov. 28, gage height, 8.99 ft (2.740 m); minimum, 8.6 ft³/s (0.24 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 15,200 ft³/s (430 m³/s) May 24, 1968, gage height 11.87 ft (3.618 m); minimum, 5.1 ft³/s (0.14 m³/s) Nov. 24, 1970.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	80	664	417	369	291	785	172	105	146	16	82
2	122	84	530	300	340	272	2,420	136	84	122	16	88
3	125	64	440	270	295	253	1,690	272	68	108	17	90
4	93	54	404	240	263	230	3,560	210	66	93	20	141
5	162	51	585	220	233	224	2,100	164	62	153	25	95
6	127	49	519	200	260	210	844	146	75	184	18	62
7	90	45	373	180	1,000	189	590	127	105	125	16	46
8	141	45	317	170	545	160	1,220	118	77	95	17	38
9	141	45	288	190	369	153	1,930	129	73	82	16	33
10	132	44	263	220	288	144	1,370	114	64	77	15	31
11	122	40	227	260	250	127	859	102	59	86	17	30
12	112	38	210	220	227	129	600	118	57	68	17	28
13	102	38	227	180	282	120	454	114	52	55	17	62
14	105	40	241	200	313	105	369	100	46	52	15	98
15	90	54	210	530	260	110	340	90	52	51	15	86
16	80	224	160	1,610	236	160	256	84	57	45	13	60
17	70	153	120	1,330	218	155	218	77	70	41	16	48
18	62	129	120	953	197	132	199	90	55	38	20	40
19	57	118	130	1,620	241	125	186	110	48	35	18	35
20	52	100	305	1,530	469	114	167	96	46	32	16	33
21	49	88	642	2,270	348	157	155	90	59	30	18	40
22	45	93	344	1,380	509	184	160	86	155	30	15	40
23	44	80	256	1,110	474	155	164	100	1,690	28	14	36
24	44	139	210	1,050	328	146	144	112	945	28	13	30
25	42	2,210	309	675	269	122	127	118	459	30	12	27
26	42	2,200	1,210	555	227	134	120	95	675	24	11	25
27	40	2,100	2,370	867	216	197	112	82	382	23	9.2	26
28	38	3,720	1,050	750	250	176	108	73	260	25	16	31
29	41	1,850	829	736	-----	605	102	82	207	21	35	59
30	49	978	785	545	-----	2,160	114	127	169	17	62	105
31	51	-----	540	450	-----	1,340	-----	114	-----	17	38	-----
TOTAL	2,522	14,953	14,878	21,228	9,276	8,779	21,463	3,648	6,322	1,961	583.2	1,645
MEAN	81.4	498	480	685	331	283	715	118	211	63.3	18.8	54.8
MAX	162	3,720	2,370	2,270	1,000	2,160	3,560	272	1,690	184	62	141
MIN	38	38	120	170	197	105	102	73	46	17	9.2	25
CFSM	.36	2.18	2.11	3.00	1.45	1.24	3.14	.52	.93	.28	.08	.24
IN.	.41	2.44	2.43	3.46	1.51	1.43	3.50	.60	1.03	.32	.10	.27

CAL YR 1973 TOTAL 129,992.0 MEAN 356 MAX 4,400 MIN 31 CFSM 1.56 IN 21.21
WTR YR 1974 TOTAL 107,258.2 MEAN 294 MAX 3,720 MIN 9.2 CFSM 1.29 IN 17.50

PEAK DISCHARGE (BASE, 1,900 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1800	8.28	3,000	1-21	0930	7.96	2,570	4- 4	1800	8.98	4,140
11-28	1030	8.99	4,160	3-30	1300	7.87	2,460	4- 9	0030	7.98	2,600
12-27	0630	8.15	2,820	4- 2	1730	8.13	2,800	6-23	1000	7.45	1,970
1-19	2130	7.39	1,910								

03230900 Deer Creek near Pancoastburg, Ohio

LOCATION.--Lat 39°37'14", long 83°12'47", Pickaway County, on left bank 200 ft (61 m) downstream from bridge on Crownover Mill Road, 1,200 ft (366 m) downstream from Deer Creek Dam, and 2.8 mi (4.5 km) east of Pancoastburg.

DRAINAGE AREA.--277 mi² (717 km²).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximums, water years 1964-66, July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (Corps of Engineers bench mark). Oct. 23, 1963, to June 30, 1966, crest-stage at site 200 ft (61 m) upstream at datum 59.84 ft (18.239 m) higher.

AVERAGE DISCHARGE.--8 years, 272 ft³/s (7.703 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,930 ft³/s (83.0 m³/s) Dec. 1, gage height, 74.89 ft (22.826 m); minimum, 11 ft³/s (0.31 m³/s) Oct. 31 and Nov. 1.

Period of record: Maximum discharge, 19,500 ft³/s (552 m³/s) (estimated) Mar. 10, 1964, gage height, 80.93 ft (24.667 m), present datum. No flow May 25-27, 1968, result of dam closure.

REMARKS.--Records good. Flow regulated by Deer Creek Lake (see station 03230890). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ohio 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	11	1,910	474	518	327	1,000	143	193	157	16	92
2	180	29	2,870	456	405	340	1,110	228	135	106	16	62
3	245	36	2,780	527	387	335	1,390	282	111	106	16	147
4	180	48	2,670	522	340	327	991	286	89	111	15	181
5	160	60	2,560	456	286	263	132	286	78	111	15	186
6	160	72	2,450	419	255	245	314	202	72	111	15	120
7	150	62	2,080	410	1,130	218	554	132	109	111	15	62
8	130	46	1,490	374	937	193	549	118	143	113	15	52
9	130	34	1,390	335	500	175	1,390	118	143	113	16	52
10	130	35	1,000	361	374	157	1,390	118	140	116	15	52
11	132	35	815	466	340	153	1,360	120	120	104	15	51
12	130	35	793	461	278	143	1,330	138	82	71	15	33
13	132	35	613	349	263	130	977	165	43	57	15	23
14	132	35	366	327	370	130	618	153	32	57	15	23
15	130	35	278	327	396	130	452	123	20	44	15	51
16	125	225	235	911	314	140	314	94	20	37	15	64
17	85	302	193	1,440	248	153	270	76	37	37	35	64
18	69	199	170	1,320	248	157	199	138	46	37	46	64
19	48	298	167	1,350	248	94	153	167	46	31	46	63
20	37	370	228	1,680	447	28	153	165	78	21	35	60
21	78	379	626	928	452	30	150	135	72	20	18	60
22	26	387	596	22	487	31	182	120	20	19	18	64
23	26	392	353	995	563	31	199	118	591	19	18	64
24	26	387	221	1,690	405	32	202	118	1,260	19	17	39
25	26	631	274	1,610	323	32	190	116	1,190	19	13	26
26	26	1,060	820	1,640	270	32	153	116	897	19	14	26
27	26	1,100	1,690	1,410	218	33	116	116	829	19	14	26
28	26	587	1,980	838	270	34	85	116	437	19	14	26
29	26	19	1,210	572	-----	34	85	102	306	19	15	26
30	26	466	869	911	-----	344	87	82	252	19	104	26
31	19	-----	657	726	-----	1,260	-----	123	-----	120	147	-----
TOTAL	2,873	7,410	34,354	24,307	11,272	5,731	16,095	4,514	7,591	1,962	798	1,885
MEAN	92.7	247	1,108	784	403	185	537	146	253	63.3	25.7	62.8
MAX	245	1,100	2,870	1,690	1,130	1,260	1,390	286	1,260	157	147	186
MIN	19	11	167	22	218	28	85	76	20	19	13	23

CAL YR 1973 TOTAL 149,284 MEAN 409 MAX 2,870 MIN 11
WTR YR 1974 TOTAL 118,792 MEAN 325 MAX 2,870 MIN 11

SCIOTO RIVER BASIN

03231000 Deer Creek at Williamsport, Ohio

LOCATION.--Lat 39°35'09", long 83°07'22", Pickaway County, on left bank at downstream side of bridge on U.S. Highway 22 at west edge of Williamsport, 2.0 mi (3.2 km) downstream from Dry Run, and 7.6 mi (12.2 km) upstream from Hay Run.

DRAINAGE AREA.--333 mi² (862 km²).

PERIOD OF RECORD.--August 1926 to December 1935, January 1938 to September 1956, annual maximum, water years 1959, 1961-62, July 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 718.66 ft (219.048 m) above mean sea level. Prior to Feb. 29, 1940, nonrecording gage, and Feb. 29, 1940, to Aug. 24, 1954, water-stage recorder, at same site at datum 3.00 ft (0.914 m) higher. Aug. 24, 1954 to Sept. 30, 1956, nonrecording gage at same site and datum. Oct. 1, 1958, to June 1962, crest-stage gage at site 120 ft (37 m) downstream at same datum.

AVERAGE DISCHARGE.--39 years (1926-35, 1938-56, 1962-74), 291 ft³/s (8.241 m³/s). m³/s).

EXTREMES.--Current year: Maximum discharge, 3,920 ft³/s (111 m³/s) Nov. 28, gage height, 9.77 ft (2.978 m); minimum, 13 ft³/s (0.37 m³/s) Aug. 26-28.

Period of record: Maximum discharge, 39,600 ft³/s (1,120 m³/s) Jan. 22, 1959, gage height, 17.6 ft (5.36 m) (from floodmarks), from rating curve extended above 25,000 ft³/s (708 m³/s) on basis of contracted-opening measurement of peak flow; minimum discharge, 0.10 ft³/s (0.003 m³/s) Sept. 19, 1964.

REMARKS.--Records good. Flow regulated by Deer Creek Lake 9.0 mi (14.5 km) upstream beginning in 1968. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1083: 1929. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	35	2,000	718	738	414	1,330	140	326	270	23	312
2	250	34	3,160	583	573	447	1,630	232	218	155	16	226
3	280	55	3,150	718	519	447	1,760	344	151	147	17	326
4	225	55	3,030	702	459	428	1,670	333	131	143	18	440
5	195	74	2,970	626	382	368	399	330	108	143	16	312
6	190	87	2,790	562	403	316	385	258	103	184	16	216
7	180	84	2,480	545	1,310	295	765	161	171	157	16	112
8	160	65	1,730	503	1,320	261	918	131	205	147	19	82
9	160	48	1,580	440	734	221	1,290	132	229	142	38	76
10	160	45	1,290	528	552	203	1,680	131	191	138	26	74
11	160	44	1,030	714	455	182	1,620	127	161	134	21	72
12	160	44	1,010	683	396	178	1,580	143	126	96	18	61
13	160	45	892	515	382	155	1,280	182	78	75	17	31
14	160	46	552	455	487	155	874	169	58	74	16	79
15	160	48	382	773	541	155	630	142	48	66	16	70
16	140	255	323	1,180	455	208	436	111	42	49	16	91
17	105	436	270	1,740	337	200	355	100	50	48	27	87
18	79	299	216	1,720	330	195	286	264	71	47	52	83
19	71	348	205	1,760	351	171	195	232	69	47	52	78
20	48	479	382	2,050	552	54	191	200	120	29	52	76
21	104	499	835	1,580	623	74	186	171	90	26	23	76
22	37	545	889	175	652	74	216	142	55	25	18	82
23	34	541	548	1,060	769	69	255	142	760	25	18	76
24	34	555	309	2,080	583	66	240	157	1,600	25	18	64
25	34	1,770	399	1,950	417	59	235	142	1,500	25	15	34
26	34	1,730	1,110	1,930	372	69	191	138	1,340	23	13	33
27	34	1,880	2,050	1,920	283	94	149	136	1,210	22	13	33
28	35	2,240	2,380	1,350	348	83	106	131	706	22	14	33
29	35	368	1,760	722	-----	82	101	131	487	22	25	33
30	37	495	1,200	1,220	-----	316	106	108	385	21	178	33
31	38	-----	984	1,030	-----	1,550	-----	186	-----	134	195	-----
TOTAL	3,579	13,249	41,906	32,532	15,323	7,589	21,059	5,446	10,789	2,661	1,022	3,401
MEAN	115	442	1,352	1,049	547	245	702	176	360	85.8	33.0	113
MAX	280	2,240	3,160	2,080	1,320	1,550	1,760	344	1,600	270	195	440
MIN	34	34	205	175	283	54	101	100	42	21	13	31

CAL YR 1973 TOTAL 196,369 MEAN 538 MAX 3,160 MIN 26
WTR YR 1974 TOTAL 158,556 MEAN 434 MAX 3,160 MIN 13

03231500 Scioto River at Chillicothe, Ohio

LOCATION.--Lat 39°20'29", long 82°58'16", Ross County, on right bank at north end of Chillicothe, 1,400 ft (427 m) downstream from Bridge Street Bridge, 7.4 mi (11.9 km) upstream from Paint Creek, and 15.4 mi (24.8 km) downstream from Deer Creek.

DRAINAGE AREA.--3,849 mi² (9,969 km²).

PERIOD OF RECORD.--December 1913 to September 1914 (gage heights and discharge measurements only), October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected in this vicinity since 1907 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 594.05 ft (181.066 m) above mean sea level. Prior to Sept. 30, 1914, nonrecording gage at site 1,300 ft (396 m) upstream at different datum. Apr. 1, 1921, to Aug. 6, 1930, nonrecording gage, at site 1,400 ft (427 m) upstream at present datum. Aug. 7, 1930, to Sept. 30, 1969, water stage recorder 900 ft (274 m) upstream at same datum.

AVERAGE DISCHARGE.--54 years, 3,355 ft³/s (95.01 m³/s).

EXTREMES.--Current year: Maximum discharge, 28,100 ft³/s (796 m³/s) Apr. 6, gage height, 13.03 ft (3.972 m); minimum, 500 ft³/s (14.2 m³/s) Aug. 27.

Period of record: Maximum discharge, 144,000 ft³/s (4,080 m³/s) Jan. 23, 1959, gage height, 32.50 ft (9.906 m), (from high-water mark in well); minimum, 160 ft³/s (4.53 m³/s) Jan. 1, 1931; minimum gage height, 0.81 ft (0.247 m) Sept. 27, 1944.

Flood of Mar. 26, 1913 reached a stage of 39.8 ft (12.13 m), discharge, 260,000 ft³/s (7,360 m³/s) (estimated by Franklin County Conservancy District).

REMARKS.--Records good. Flow regulated by 5 reservoirs 36 mi (58 km) to 91 mi (146 km) upstream from station (see p. 125), and by unfinished Alum Creek Dam. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1929 (M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	950	2,190	14,800	9,460	8,950	3,950	18,600	2,190	3,690	2,030	709	2,210
2	2,060	3,320	13,000	6,740	7,310	4,880	16,200	2,380	2,540	1,660	610	5,040
3	3,360	2,400	11,200	5,220	5,890	5,610	18,500	2,780	1,890	1,430	631	3,550
4	1,990	2,010	8,850	4,600	5,060	5,540	22,100	3,150	1,610	1,310	842	4,300
5	2,360	1,690	7,980	4,320	4,280	4,930	25,500	2,550	1,400	1,230	1,000	3,510
6	2,030	1,500	8,900	3,810	3,790	4,510	25,300	2,250	1,290	2,570	785	2,210
7	1,390	1,260	7,960	3,470	8,900	4,260	15,200	1,980	1,690	2,080	675	1,700
8	1,250	1,130	6,580	3,200	12,900	4,240	11,000	1,720	1,990	1,390	664	1,500
9	1,110	1,000	5,490	2,940	7,980	4,450	13,000	1,700	1,620	1,210	752	1,260
10	1,030	938	4,680	3,510	5,700	4,260	12,500	1,980	1,400	1,190	741	1,090
11	1,180	842	3,890	5,470	4,410	3,770	11,700	1,770	1,280	1,340	913	963
12	1,150	796	3,530	4,880	4,030	5,190	10,600	1,720	1,190	1,130	741	901
13	1,030	763	3,280	3,670	3,850	5,350	9,050	2,400	1,120	988	675	1,260
14	925	752	3,190	3,070	4,030	4,510	7,090	2,400	1,010	877	642	2,340
15	975	752	3,510	3,750	4,660	3,690	5,820	2,480	988	853	686	2,800
16	889	1,320	3,450	8,780	5,290	3,570	5,010	2,470	1,390	842	675	2,140
17	865	2,960	3,450	12,600	4,710	4,750	4,260	1,990	1,610	774	653	1,700
18	889	1,960	3,020	15,200	3,950	5,490	3,730	4,770	1,500	752	1,190	1,350
19	774	1,690	2,360	16,400	3,570	5,290	3,360	7,290	1,130	720	1,040	1,130
20	741	1,750	2,450	18,900	4,150	4,240	3,130	3,770	1,040	752	1,400	1,010
21	697	1,750	7,000	24,100	7,170	3,490	2,820	2,570	1,120	686	988	1,700
22	731	1,940	7,920	25,700	7,380	3,870	2,670	2,050	1,980	642	741	1,690
23	697	2,030	5,700	25,200	8,660	3,510	2,890	2,170	10,500	664	642	1,310
24	686	1,920	4,240	24,100	9,070	3,170	2,750	2,960	11,400	675	621	1,010
25	642	5,350	3,850	23,700	7,410	3,190	2,640	3,260	7,050	675	587	877
26	631	15,100	5,330	20,400	5,990	3,000	2,420	2,670	6,900	642	553	807
27	621	19,100	13,700	16,800	4,240	3,320	2,270	2,150	6,180	631	521	774
28	621	22,500	19,300	16,300	3,670	3,970	2,080	1,790	3,870	610	621	763
29	642	23,700	20,900	16,300	-----	4,030	1,920	1,640	2,850	610	774	1,070
30	1,620	22,000	17,100	13,600	-----	11,300	1,850	1,990	2,470	720	2,600	1,090
31	3,000	-----	13,100	11,400	-----	17,900	-----	3,470	-----	709	3,690	-----
TOTAL	37,536	146,413	239,710	357,590	167,000	153,230	265,960	80,460	85,698	32,392	28,362	53,055
MEAN	1,211	4,880	7,733	11,540	5,964	4,943	8,865	2,595	2,857	1,045	915	1,769
MAX	3,360	23,700	20,900	25,700	12,900	17,900	25,500	7,290	11,400	2,570	3,690	5,040
MIN	621	752	2,360	2,940	3,570	3,000	1,850	1,640	988	610	521	763

CAL YR 1973 TOTAL 1,956,664 MEAN 5,361 MAX 23,700 MIN 611
WTR YR 1974 TOTAL 1,647,406 MEAN 4,513 MAX 25,700 MIN 521

SCIOTO RIVER BASIN

03232000 Paint Creek near Greenfield, Ohio

LOCATION.--Lat 39°22'45", long 83°22'32", Fayette County, on right bank at upstream side of bridge on State Highway 753, 0.6 mi (1.0 km) upstream from Stone Run, 2.0 mi (3.2 km) north of Greenfield, and 3.0 mi (4.8 km) downstream from Indian Creek.

DRAINAGE AREA.--249 mi² (645 km²).

PERIOD OF RECORD.--August 1926 to November 1935, October 1939 to September 1956; occasional low-flow measurements, water years 1962-66; annual maximums, water years 1963-66; October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 844.27 ft (257.333 m) above mean sea level. Prior to Feb. 14, 1940 nonrecording gage, Feb. 14, 1940 to June 3, 1955 water-stage recorder, June 4, 1955 to Sept. 30, 1956 nonrecording gage, at same site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--34 years (1926-35, 1939-56, 1966-74), 228 ft³/s (6.457 m³/s), 12.44 in/yr (316.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,020 ft³/s (199 m³/s) June 23, gage height, 10.35 ft (3.155 m); minimum daily discharge, 7.2 ft³/s (0.20 m³/s) Aug. 24.

Period of record: Maximum discharge, 21,700 ft³/s (615 m³/s) May 24, 1969, gage height, 14.28 ft (4.353 m); no flow Sept. 10, 18, 27, 29, 30, Oct. 1, 4, 1953.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 743: 1926(M). WSP 758: 1926-33. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	77	893	523	433	251	1,010	116	483	233	12	270
2	670	90	685	370	379	375	1,620	160	260	183	9.8	600
3	523	107	565	300	322	332	1,850	325	175	151	10	468
4	490	90	501	240	270	286	1,680	279	135	126	10	640
5	557	76	624	210	221	257	2,130	201	110	131	9.6	444
6	368	66	616	180	210	227	1,150	165	100	112	7.5	245
7	279	58	475	160	809	212	689	139	96	105	8.2	163
8	201	56	386	150	825	215	784	122	86	114	11	110
9	158	56	332	170	515	227	1,740	124	90	90	19	83
10	126	53	298	276	368	196	1,250	116	76	81	12	66
11	107	47	245	427	289	168	784	103	69	107	9.3	56
12	92	47	210	330	248	163	592	109	64	81	10	49
13	85	45	215	220	286	144	468	100	58	72	8.7	67
14	79	45	224	250	302	124	386	88	52	61	8.2	107
15	72	47	201	678	279	124	339	85	74	56	7.7	146
16	67	88	183	1,330	245	295	282	79	76	50	8.2	114
17	62	210	150	1,310	218	266	227	85	77	45	10	92
18	58	175	130	1,080	196	207	196	523	58	42	13	74
19	53	135	120	1,310	224	178	175	375	66	37	8.2	58
20	50	112	350	1,300	308	155	155	239	52	34	7.7	50
21	50	100	663	1,610	339	199	139	173	88	32	7.7	88
22	46	90	504	1,550	416	227	151	144	682	26	7.7	74
23	45	85	364	1,140	501	207	160	175	5,190	27	7.7	53
24	43	92	286	1,120	390	188	133	218	2,400	34	7.7	45
25	42	1,030	346	838	280	160	112	193	971	25	7.7	40
26	40	2,550	867	659	210	175	105	151	780	23	7.7	36
27	40	2,810	1,540	834	200	251	100	122	693	19	7.7	36
28	40	4,580	1,350	867	220	245	94	107	493	17	9.3	38
29	41	3,300	962	859	-----	221	90	120	386	16	67	37
30	50	1,530	962	678	-----	640	94	201	295	24	114	38
31	52	-----	705	542	-----	1,230	-----	270	-----	17	158	-----
TOTAL	4,716	17,847	15,952	21,511	9,503	8,145	18,685	5,407	14,235	2,171	602.3	4,387
MEAN	152	595	515	694	339	263	623	174	475	70.0	19.4	146
MAX	670	4,580	1,540	1,610	825	1,230	2,130	523	5,190	233	158	640
MIN	40	45	120	150	196	124	90	79	52	16	7.5	36
CFSM	.61	2.39	2.07	2.79	1.36	1.06	2.50	.70	1.91	.28	.08	.59
IN.	.70	2.67	2.38	3.21	1.42	1.22	2.79	.81	2.13	.32	.09	.66

CAL YR 1973 TOTAL 139,940.0 MEAN 383 MAX 4,580 MIN 20 CFSM 1.54 IN 20.91
WTR YR 1974 TOTAL 123,161.3 MEAN 337 MAX 5,190 MIN 7.5 CFSM 1.35 IN 18.40

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	0200	9.63	5,580	4-05	0700	6.97	2,480
4-03	0700	6.59	2,150	6-23	0230	10.35	7,020

03232300 Rattlesnake Creek near Centerfield, Ohio

LOCATION.--Lat 39°19'44", long 83°28'32", Highland County, on right bank 600 ft (183 m) upstream from county road bridge at Centerfield, 0.6 mi (1.0 km) upstream from Walnut Creek, 1.5 mi (2.4 km) downstream from Lees Creek, and 2.4 mi (3.9 km) southeast of East Monroe.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 822.32 ft (250.643 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 7,270 ft³/s (206 m³/s) Nov. 28, gage height, 12.87 ft (3.923 m); minimum, 1.9 ft³/s (0.053 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 7,270 ft³/s (206 m³/s) Nov. 28, 1973, gage height, 12.87 ft (3.923 m); minimum, 1.8 ft³/s (0.051 m³/s) Aug. 22-24, 1972.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	84	680	300	306	235	802	94	591	138	14	408
2	1,090	117	488	230	268	447	1,390	113	318	105	14	769
3	722	106	385	190	225	360	1,580	324	195	84	12	724
4	588	73	338	165	185	281	1,510	277	138	69	12	935
5	1,110	61	560	140	140	238	1,580	182	108	63	11	647
6	510	52	492	120	149	206	710	145	95	62	11	332
7	310	45	334	100	546	190	491	116	93	52	5.0	200
8	218	42	264	84	620	174	722	96	79	47	5.6	125
9	164	42	232	110	351	205	1,240	98	65	43	5.9	88
10	127	39	208	215	246	178	837	94	51	40	8.8	65
11	98	35	167	368	201	149	510	80	40	55	12	55
12	79	31	146	260	167	153	380	82	35	62	8.8	48
13	69	31	155	188	215	135	306	78	27	44	6.5	51
14	63	31	188	188	237	112	250	66	23	35	5.3	125
15	55	39	173	809	214	106	221	61	26	31	4.1	213
16	48	141	140	1,190	185	389	188	58	27	28	3.6	133
17	42	192	110	1,170	170	315	147	58	31	26	4.7	90
18	37	127	92	1,050	146	224	126	598	18	22	4.7	69
19	32	109	80	1,380	172	188	113	405	20	23	3.8	55
20	30	86	407	1,090	283	158	99	233	32	20	3.3	47
21	29	75	670	1,830	263	204	89	160	142	20	2.7	54
22	27	75	416	1,140	373	247	109	129	466	18	2.5	57
23	24	69	283	988	456	209	138	138	4,890	17	2.5	52
24	24	73	218	899	304	184	103	132	3,640	17	2.5	43
25	24	1,470	318	625	190	154	81	143	1,900	18	2.4	38
26	23	2,580	1,010	488	130	174	73	114	845	18	2.2	36
27	23	2,870	1,270	643	150	262	70	91	575	18	2.1	36
28	24	4,200	936	684	189	236	67	77	353	16	14	35
29	24	2,370	775	712	-----	212	64	129	252	15	92	37
30	33	1,170	790	523	-----	698	67	243	186	15	119	43
31	39	-----	519	398	-----	1,120	-----	333	-----	13	125	-----
TOTAL	5,832	16,435	12,844	18,277	7,081	8,143	14,063	4,947	15,261	1,234	523.0	5,610
MEAN	188	548	414	590	253	263	469	160	509	39.8	16.9	187
MAX	1,110	4,200	1,270	1,830	620	1,120	1,580	598	4,890	138	125	935
MIN	23	31	80	84	130	106	64	58	18	13	2.1	35
CFSM	.90	2.62	1.98	2.82	1.21	1.26	2.24	.77	2.44	.19	.08	.89
IN.	1.04	2.93	2.29	3.25	1.26	1.45	2.50	.88	2.72	.22	.09	1.00

CAL YR 1973 TOTAL 112,237.1 MEAN 307 MAX 4,200 MIN 4.5 CFSM 1.47 IN 19.98
WTR YR 1974 TOTAL 110,250.0 MEAN 302 MAX 4,890 MIN 2.1 CFSM 1.45 IN 19.62

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1330	7.22	2,410	11-28	0045	12.87	3,950	1-21	0530	7.70	2,790
11-26	1630	9.16	3,950	12-26	2030	6.89	2,220	6-23	0200	12.10	6,520

SCIOTO RIVER BASIN

03232470 Paint Creek below Paint Creek Dam, near Bainbridge, Ohio

LOCATION.--Lat 39°15'08", long 83°20'58", Highland County, on right bank, 400 ft (122 m) downstream from Paint Creek Dam site, 700 ft (213 m) upstream from Cliff Creek, and 4.5 mi (7.2 km) northwest of Bainbridge.

DRAINAGE AREA.--570 mi² (1,476 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1962-67, annual maximum, water years 1963-67 (published as "at damsite near Bainbridge"). October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (levels by Corps of Engineers). Prior to May 3, 1968, water-stage recorder and crest-stage gage at partial-record site 1,000 ft (305 m) downstream at datum 42.96 ft (13.094 m) higher.

AVERAGE DISCHARGE.--7 years, 583 ft³/s (16.51 m³/s).

EXTREMES.--Current year: Maximum discharge, 8,720 ft³/s (247 m³/s) Nov. 29, gage height, 55.14 ft (16.807 m); minimum, 2.8 ft³/s (0.079 m³/s) Dec. 11 (result of gate operation).

Period of record: Maximum discharge, about 45,000 ft³/s (1,270 m³/s) Mar. 10, 1964, gage height, 27.3 ft (8.32 m), site and datum then in use; minimum observed, 1.1 ft³/s (0.031 m³/s) Sept. 17, 1964.

REMARKS.--Records good. Flow regulated by Paint Creek Lake (see Station 03232460). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	151	4,120	1,050	896	567	2,230	107	1,440	870	24	719
2	1,330	210	1,870	765	765	1,000	2,560	101	795	399	24	1,600
3	1,280	247	1,070	674	674	857	3,480	106	422	339	25	1,310
4	795	210	915	612	577	707	3,230	125	388	285	24	1,370
5	1,670	180	1,110	521	491	627	3,580	305	279	241	25	1,400
6	942	161	1,190	474	453	553	2,870	353	247	175	25	622
7	622	142	896	441	1,000	535	1,530	360	261	175	25	399
8	465	133	713	367	1,580	491	990	346	261	217	25	353
9	367	131	642	414	1,140	521	627	339	261	241	91	282
10	305	128	587	691	730	474	1,880	308	252	205	126	175
11	255	115	447	1,170	577	414	1,500	289	207	215	85	205
12	215	109	429	814	512	433	753	289	188	236	64	149
13	195	104	425	558	544	385	587	276	173	193	54	276
14	191	103	461	558	612	336	637	244	130	135	32	553
15	167	110	453	1,380	563	318	508	182	133	120	24	478
16	155	238	380	2,390	526	915	270	177	189	121	10	370
17	142	395	330	2,760	482	759	155	177	247	123	10	308
18	133	350	290	2,340	441	572	140	889	206	123	10	159
19	121	285	320	2,800	469	486	109	1,620	148	121	10	261
20	115	244	765	2,800	510	422	107	544	150	112	11	180
21	110	217	1,500	3,070	604	508	106	425	457	107	15	795
22	104	205	1,110	3,220	795	587	107	388	428	107	17	301
23	95	193	771	2,580	1,060	530	107	399	624	107	17	151
24	89	191	607	2,420	814	482	107	422	1,790	109	17	138
25	88	1,580	685	1,930	637	425	109	425	4,160	103	17	153
26	84	3,340	1,500	1,380	499	465	104	381	4,410	47	18	121
27	78	4,630	2,990	1,690	491	607	101	261	4,540	20	17	120
28	80	7,400	2,730	1,740	504	582	103	244	4,350	24	184	120
29	84	8,240	2,010	1,940	-----	539	104	244	3,910	24	517	173
30	100	6,590	2,070	1,570	-----	1,320	106	499	3,380	24	942	123
31	117	-----	1,510	1,170	-----	2,370	-----	1,440	-----	24	482	-----
TOTAL	10,617	36,332	34,896	46,289	18,946	19,787	28,797	12,265	34,426	5,342	2,967	13,364
MEAN	342	1,211	1,126	1,493	677	638	960	396	1,148	172	95.7	445
MAX	1,670	8,240	4,120	3,220	1,580	2,370	3,580	1,620	4,540	870	942	1,600
MIN	78	103	290	367	441	318	101	101	130	20	10	120

CAL YR 1973 TOTAL 286,833 MEAN 786 MAX 8,240 MIN 30
WTR YR 1974 TOTAL 264,028 MEAN 723 MAX 8,240 MIN 10

03232500 Rocky Fork near Barretts Mills, Ohio

LOCATION.--Lat 39°13'06", long 83°23'08", Highland County, on left bank at downstream side of highway bridge, 1.1 mi (1.8 km) north of Barretts Mills, 2 mi (3 km) east of Rainsboro, 2.8 mi (4.5 km) upstream from mouth, and 6 mi (10 km) downstream from Rocky Fork Lake.

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 770.8 ft (234.94 m) above mean sea level, levels by Corps of Engineers. Prior to Feb. 15, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 151 ft³/s (4.276 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,720 ft³/s (134 m³/s) Aug. 30, gage height, 10.47 ft (3.191 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 5, 6, 7.

Period of record: Maximum discharge, 13,400 ft³/s (379 m³/s) Mar. 10, 1964 from rating curve extended above 8,800 ft³/s (249 m³/s) on basis of velocity-area studies; maximum gage height, 15.56 ft (4.743 m) Mar. 6, 1945; minimum discharge, 0.40 ft³/s (0.011 m³/s) Oct. 7, 11, 1964; minimum daily, 0.90 ft³/s (0.025 m³/s) Sept. 10, 1966.

REMARKS.--Records good. Some diurnal fluctuation caused by mill 6 mi (10 km) upstream from station. Flow regulated by Rocky Fork Lake 6 mi (10 km) upstream, since 1952, capacity, 34,100 acre-ft (42.0 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	19	381	276	261	162	405	130	1,060	95	23	1,170
2	224	17	278	224	248	251	596	135	600	77	24	857
3	224	17	224	200	240	237	450	311	376	67	27	612
4	167	16	197	180	217	207	444	278	235	62	22	594
5	144	17	205	160	197	160	370	221	185	62	17	377
6	104	27	186	140	202	178	302	185	158	62	15	271
7	82	25	163	130	268	230	247	150	146	61	18	207
8	70	26	148	120	245	248	327	134	133	61	76	167
9	62	32	140	160	222	224	499	140	127	60	230	142
10	54	30	133	368	204	202	396	130	120	61	73	129
11	47	26	126	565	195	207	317	121	105	59	74	121
12	44	28	125	439	185	306	266	132	96	50	67	123
13	40	26	129	325	185	258	228	120	89	48	50	243
14	49	28	131	274	183	217	218	111	82	45	39	342
15	45	36	128	371	169	200	190	105	92	44	30	248
16	39	99	127	455	133	568	165	102	93	43	25	195
17	30	85	125	423	133	423	154	114	84	42	25	160
18	37	76	119	392	133	320	145	667	76	41	23	137
19	19	70	98	475	148	271	124	429	74	40	21	121
20	17	62	218	472	151	226	94	312	76	45	19	111
21	17	60	291	594	142	263	100	234	150	45	18	297
22	17	58	236	512	219	255	118	188	210	37	17	253
23	17	54	201	455	207	219	156	188	1,270	33	17	197
24	17	56	182	430	195	213	149	173	710	31	17	157
25	19	368	191	357	188	189	135	144	579	27	17	137
26	36	870	322	308	174	195	130	123	573	26	17	119
27	111	974	516	405	169	185	126	111	359	25	17	111
28	178	2,090	389	439	167	177	124	102	248	24	219	111
29	19	1,070	383	455	-----	183	119	110	183	24	328	111
30	20	585	402	374	-----	438	118	143	134	24	2,190	104
31	18	-----	334	314	-----	492	-----	786	-----	23	990	-----
TOTAL	2,041	6,947	6,828	10,792	5,380	7,904	7,212	6,329	8,423	1,444	4,745	7,924
MEAN	65.8	232	220	348	192	255	240	204	281	46.6	153	264
MAX	224	2,090	516	594	268	568	596	786	1,270	95	2,190	1,170
MIN	17	16	98	120	133	160	94	102	74	23	15	104

CAL YR 1973 TOTAL 72,371 MEAN 198 MAX 2,090 MIN 16
WTR YR 1974 TOTAL 75,969 MEAN 208 MAX 2,190 MIN 15

SCIOTO RIVER BASIN

03234000 Paint Creek near Bourneville, Ohio

LOCATION.--Lat 39°15'49", long 83°10'01", Ross County, on upstream side of left abutment of highway bridge, 0.2 mi (0.3 km) downstream from Sulphur Lick, 1.2 mi (1.9 km) southwest of Bourneville, and 1.2 mi (1.9 km) upstream from Upper Twin Creek.

DRAINAGE AREA.--807 mi² (2,090 km²).

PERIOD OF RECORD.--October 1921 to January 1937, January 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Bainbridge" October 1921 to September 1923 and as "near Bainbridge" January 1938 to May 1939.

GAGE.--Water-stage recorder. Datum of gage is 665.56 ft (202.863 m) above mean sea level. See WSP 1725 for history of changes prior to May 3, 1939.

AVERAGE DISCHARGE.--51 years (1921-36, 1938-74), 791 ft³/s (22.40 m³/s).

EXTREMES.--Current year: Maximum discharge, 9,490 ft³/s (269 m³/s) Nov. 28, gage height, 10.56 ft (3.219 m); minimum, 44 ft³/s (1.25 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 56,900 ft³/s (1,610 m³/s) Mar. 10, 1964, gage height, 20.50 ft (6.248 m), from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of contracted-opening measurement at gage height 20.08 ft (6.120 m); minimum, 4.8 ft³/s (0.14 m³/s) Sept. 16, 17, 1964.

REMARKS.--Records good. Flow regulated by Paint Creek Lake 17 mi (27.4 km) upstream since 1971, capacity 145,000 acre-ft (179 hm³) and Rocky Fork Lake 23 mi (37 km) upstream since 1952, capacity, 34,100 acre-ft (42.0 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ohio 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	137	4,850	1,530	1,400	810	2,920	246	3,230	1,830	68	1,770
2	982	187	2,620	1,160	1,210	1,410	3,270	240	1,740	673	66	2,690
3	1,670	219	1,520	960	1,120	1,370	3,980	623	1,080	695	84	2,230
4	1,080	211	1,270	860	958	1,130	4,110	520	780	528	84	2,190
5	1,690	180	1,350	790	820	930	4,030	544	614	476	80	1,990
6	1,260	169	1,520	731	770	870	3,620	574	492	346	73	1,290
7	820	162	1,250	673	1,300	930	2,230	560	500	311	68	785
8	610	150	994	583	1,950	915	1,730	520	448	304	91	700
9	476	152	860	628	1,600	870	1,540	516	432	346	315	574
10	380	152	785	1,200	1,160	815	2,040	484	400	332	240	416
11	311	143	640	2,070	958	718	2,230	432	353	308	204	372
12	263	133	600	1,520	825	895	1,340	452	287	339	178	360
13	232	131	596	1,060	810	795	1,040	448	269	308	152	408
14	227	127	641	952	890	677	1,000	368	224	238	123	1,390
15	211	129	632	1,750	870	614	970	329	216	189	102	855
16	189	246	583	2,970	750	1,700	641	263	235	189	82	750
17	173	432	520	3,320	691	1,500	436	269	322	187	69	682
18	158	464	440	2,950	637	1,150	392	1,820	294	180	68	428
19	158	364	410	3,450	664	952	325	2,380	238	178	62	396
20	135	311	718	3,520	860	825	257	1,120	222	178	57	372
21	129	272	1,980	3,800	915	875	246	790	472	182	54	1,260
22	125	257	1,570	3,950	1,170	1,040	254	691	650	171	52	1,030
23	121	240	1,160	3,300	1,400	920	294	722	4,520	167	49	632
24	115	232	925	3,120	1,200	850	284	704	1,970	160	47	444
25	113	1,290	905	2,590	976	770	266	650	4,850	154	49	396
26	110	4,050	1,460	1,960	795	780	254	592	5,050	139	45	350
27	133	5,540	3,530	2,220	755	895	243	448	4,850	93	45	304
28	269	8,610	3,300	2,350	760	900	235	364	4,570	78	145	301
29	173	8,330	2,580	2,720	-----	860	229	376	4,290	80	925	311
30	119	7,000	2,660	2,250	-----	1,690	227	596	3,620	80	3,330	315
31	127	-----	2,110	1,750	-----	2,900	-----	1,970	-----	73	1,850	-----
TOTAL	12,655	40,020	44,979	62,687	28,214	32,356	40,633	20,611	47,218	9,512	8,857	25,991
MEAN	408	1,334	1,451	2,022	1,008	1,044	1,354	665	1,574	307	286	866
MAX	1,690	8,610	4,850	3,950	1,950	2,900	4,110	2,380	5,050	1,830	3,330	2,690
MIN	96	127	410	583	637	614	227	240	216	73	45	301

CAL YR 1973 TOTAL 385,712 MEAN 1,057 MAX 8,610 MIN 69
WTR YR 1974 TOTAL 373,733 MEAN 1,024 MAX 8,610 MIN 45

PEAK DISCHARGE (BASE, 9,000 FT³/S).--Nov. 28 (1630) 9,490 ft³/s (10.56 ft).

03234500 Scioto River at Higby, Ohio

LOCATION.--Lat 39°12'44", long 82°51'50", in sec. 6, T.7 N., R.20 W., Ross County, on left bank at downstream side of highway bridge, 0.8 mi (1.3 km) downstream from Walnut Creek, 1.2 mi (1.9 km) north of Higby, 3 mi (5 km) west northwest of Richmondale, and 5.0 mi (8.0 km) upstream from Salt Creek.

DRAINAGE AREA.--5,131 mi² (13,289 km²).

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 567.28 ft (172.907 m) above mean sea level. Prior to Nov. 7, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 4,473 ft³/s (126.7 m³/s).

EXTREMES.--Current year: Maximum discharge, 33,300 ft³/s (943 m³/s) Nov. 28, gage height, 16.70 ft (5.090 m); minimum, 684 ft³/s (19.4 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 177,000 ft³/s (5,010 m³/s) Jan. 23, 1937, from rating curve extended above 112,000 ft³/s (3,170 m³/s); maximum gage height, 26.4 ft (8.05 m) Jan. 23, 1937, from floodmarks, and Jan. 23, 1959; minimum discharge, 244 ft³/s (6.91 m³/s) Oct. 23, 1930.

A stage of 31.6 ft (9.63 m) occurred Mar. 26, 1913, and has not been exceeded since.

REMARKS.--Records good. Flow slightly regulated by 6 reservoirs 45 mi (72 km) to 105 mi (169 km) upstream from station (see p. 125), and since 1952 by Rocky Fork Lake 51 mi (82 km) upstream, capacity, 34,100 acre-ft (42.0 hm³), and by unfinished Alum Creek Dam. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 893: 1937(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,250	2,500	21,200	11,800	11,100	4,930	21,900	2,580	9,570	5,720	960	4,960
2	2,180	3,480	16,500	8,520	9,210	6,910	21,400	2,980	5,440	2,960	847	8,140
3	5,400	2,880	13,200	6,620	7,700	7,710	22,000	4,860	3,830	2,630	921	8,010
4	3,720	2,560	10,600	5,910	6,600	7,140	26,000	4,430	2,960	2,310	1,280	7,520
5	3,870	2,240	9,320	5,400	5,550	6,380	27,100	3,550	2,560	2,120	1,320	6,590
6	4,020	2,080	10,400	4,860	4,920	5,820	28,600	3,230	2,230	2,820	1,120	4,530
7	2,760	1,900	9,450	4,460	9,050	5,600	19,600	2,940	2,450	2,940	960	3,060
8	2,340	1,760	7,850	4,090	15,000	5,520	13,700	2,660	2,900	2,110	940	2,690
9	2,080	1,680	6,580	3,840	10,800	5,520	15,600	2,550	2,470	1,920	1,140	2,350
10	1,900	1,560	5,730	5,330	7,600	5,400	15,000	2,760	2,200	2,240	1,260	2,040
11	1,900	1,480	4,840	9,200	5,920	4,730	14,500	2,560	1,990	2,420	1,320	1,770
12	1,860	1,380	4,370	7,890	5,250	5,860	12,500	2,630	1,830	1,900	1,220	1,700
13	1,720	1,340	4,080	5,580	4,970	6,410	10,700	3,060	1,700	1,700	1,040	1,740
14	1,600	1,320	3,990	4,530	5,090	5,520	8,650	3,120	1,570	1,500	980	4,920
15	1,600	1,300	4,280	5,620	5,560	4,650	7,320	2,970	1,520	1,380	940	4,020
16	1,540	1,560	4,150	11,700	6,150	6,090	6,200	2,980	1,780	1,340	980	3,450
17	1,460	3,460	4,130	15,500	5,640	7,040	5,160	2,600	2,220	1,280	903	2,760
18	1,480	2,840	3,720	17,700	4,870	6,950	4,510	8,070	2,180	1,230	1,260	2,320
19	1,380	2,480	3,100	19,600	4,540	6,640	4,100	10,900	1,730	1,190	1,440	1,910
20	1,340	2,440	3,320	21,500	5,200	5,610	3,780	6,290	1,540	1,230	1,680	1,780
21	1,280	2,420	8,370	24,800	7,690	4,860	3,450	4,010	1,600	1,150	1,380	3,690
22	1,280	2,460	9,910	28,000	8,670	5,350	3,290	3,250	2,700	1,040	1,120	4,190
23	1,180	2,600	7,360	27,000	9,980	4,960	3,550	3,590	24,200	1,010	903	2,650
24	1,160	2,480	5,560	26,000	10,500	4,490	3,450	3,980	19,200	1,020	828	2,000
25	1,080	5,140	4,940	25,000	8,700	4,350	3,230	4,280	12,800	1,030	810	1,730
26	1,040	19,600	6,370	22,800	5,190	4,250	3,000	3,640	13,200	977	774	1,580
27	1,020	23,300	16,200	19,400	7,450	4,600	2,840	3,150	12,600	932	702	1,450
28	1,120	30,400	21,000	18,600	4,790	5,180	2,680	2,540	9,830	874	980	1,410
29	1,320	31,600	22,700	19,700	-----	5,260	2,490	2,380	8,380	936	1,840	1,590
30	1,720	29,200	20,300	16,600	-----	12,400	2,380	2,710	7,050	1,090	8,400	1,840
31	3,260	-----	16,000	13,800	-----	20,200	-----	5,870	-----	1,040	6,970	-----
TOTAL	60,860	191,440	289,520	421,350	203,690	196,330	318,680	117,120	166,230	54,039	47,218	98,390
MEAN	1,963	6,381	9,339	13,590	7,275	6,333	10,620	3,778	5,541	1,743	1,523	3,280
MAX	5,400	31,600	22,700	28,000	15,000	20,200	28,600	10,900	24,200	5,720	8,400	8,140
MIN	1,020	1,300	3,100	3,840	4,540	4,250	2,380	2,380	1,520	874	702	1,410

CAL YR 1973 TOTAL 2,565,037 MEAN 7,027 MAX 31,600 MIN 828

WTR YR 1974 TOTAL 2,164,867 MEAN 5,931 MAX 31,600 MIN 702

SCIOTO RIVER BASIN

03235500 Tar Hollow Creek at Tar Hollow State Park, Ohio

LOCATION.--Lat 39°23'22", long 82°45'03", in NE 1/4 sec.36, T.10 N., R.20 W., Ross County, in Tar Hollow State Park, on left bank 2.0 mi (3.2 km) upstream from mouth and 5.2 mi (8.4 km) south of Adelphi.

DRAINAGE AREA.--1.35 mi² (3.50 km²).

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 793.63 ft (241.898 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 1.25 ft³/s (0.0354 m³/s), 12.57 in/yr (319.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 526 ft³/s (14.90 m³/s) June 22, gage height, 4.63 ft (1.411 m) from flood mark; no flow many days.

Period of record: Maximum discharge, 957 ft³/s (27.1 m³/s) May 24, 1968, gage height, 5.66 ft (1.725 m) (in gage well), 5.84 ft (1.780 m) (from floodmark), from rating curve extended above 92 ft³/s (2.61 m³/s) on basis of slope-area measurements at gage height 5.21 ft (1.588 m) and at peak flow; no flow many days each year.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	.83	.40	1.0	1.4	1.4	5.4	.83	7.3	1.0	.01	1.9
2	.10	.48	.32	.69	1.4	4.3	11	1.2	3.3	.69	.01	1.7
3	.08	.40	.32	.69	1.4	3.6	5.7	15	1.7	.48	.32	4.9
4	.12	.18	.24	.69	1.5	2.8	5.4	4.9	1.0	.40	1.4	3.6
5	.24	.12	.18	.58	2.6	2.5	3.9	3.0	.69	.32	.40	1.5
6	.18	.06	.18	.58	9.0	2.3	3.3	2.1	.77	.24	.24	.83
7	.06	.06	.18	.48	3.4	2.1	3.0	1.5	.83	.24	.12	.58
8	.06	.03	.18	.40	2.4	1.9	4.9	1.4	.70	.18	.12	.40
9	.03	.03	.12	.58	1.5	1.7	6.7	1.4	.69	.12	.12	.32
10	.03	.03	.12	3.5	1.5	1.5	4.2	1.2	.48	1.6	.12	.32
11	.03	.03	.12	6.0	1.5	1.4	3.0	1.0	.40	1.9	.12	.24
12	.01	.03	.12	3.0	1.2	1.2	2.5	3.9	.32	.69	.06	.24
13	.01	.03	.12	1.9	1.2	1.0	1.9	4.2	.24	.40	.06	.24
14	.01	.03	.18	1.5	1.0	.83	1.5	2.8	.18	.24	.03	.40
15	.01	.03	.18	3.0	1.0	.83	1.4	2.1	1.0	.31	.03	.40
16	.01	.06	.18	3.6	1.0	5.8	1.0	1.5	1.3	.24	.01	.32
17	.01	.06	.18	2.5	.83	3.9	.83	1.4	1.0	.18	.03	.24
18	.01	.12	.18	4.7	.69	2.8	.83	29	.58	.12	.01	.18
19	.01	.12	.18	8.9	1.1	2.3	.69	6.7	.89	.06	.01	.18
20	.01	.12	1.1	5.4	1.7	1.7	.58	3.3	1.2	.06	0	.18
21	0	.12	2.1	3.4	1.5	2.4	.48	2.1	.83	.06	0	1.0
22	0	.06	1.2	2.5	2.8	2.5	.67	1.5	28	.06	0	1.0
23	0	.06	.83	6.0	2.5	2.3	1.4	1.7	40	.10	0	.58
24	0	.12	.69	3.2	2.3	2.1	1.2	2.1	7.6	.18	0	.40
25	0	1.6	.58	2.5	1.7	1.7	1.0	1.4	3.6	.06	0	.40
26	0	3.3	1.2	2.1	1.4	1.9	1.0	1.0	3.6	.01	0	.32
27	0	4.0	2.1	2.5	1.4	2.1	1.0	.83	3.3	.01	0	.24
28	0	3.9	1.5	2.5	1.5	1.9	.83	.58	2.3	.01	.16	.24
29	0	1.2	1.5	2.0	-----	2.5	.69	.59	1.9	.01	1.1	.32
30	.32	.58	1.5	1.5	-----	12	.83	.69	1.4	.01	9.6	.24
31	.58	-----	1.4	1.5	-----	10	-----	13	-----	.01	1.4	-----
TOTAL	2.50	17.79	19.38	79.39	52.42	87.26	76.83	113.92	117.10	9.99	15.48	23.41
MEAN	.081	.59	.63	2.56	1.87	2.81	2.56	3.67	3.90	.32	.50	.78
MAX	.58	4.0	2.1	8.9	9.0	12	11	29	40	1.9	9.6	4.9
MIN	0	.03	.12	.40	.69	.83	.48	.58	.18	.01	0	.18
CFSM	.06	.44	.47	1.90	1.39	2.08	1.90	2.72	2.89	.24	.37	.58
IN.	.07	.49	.53	2.19	1.44	2.40	2.12	3.14	3.23	.28	.43	.65

CAL YR 1973 TOTAL 502.22 MEAN 1.38 MAX 23 MIN 0 CFSM 1.02 IN 13.84
WTR YR 1974 TOTAL 615.47 MEAN 1.69 MAX 40 MIN 0 CFSM 1.25 IN 16.96

PEAK DISCHARGE (BASE, 50 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-18	0700	3.27	111	6-22	2200	4.63	526
5-31	1500	2.98	63				

Reservoirs in Scioto River basin

03220500 O'SHAUGHNESSY RESERVOIR.--Lat 40°09'14", long 83°07'33", Delaware County, in gate house of dam on Scioto River, 4.0 mi (6.4 km) north of Dublin. Drainage area, 979 mi² (2,536 km²). Period of record, October 1924 to current year. Water-stage recorder. Monthend contents only for some periods published in WSP 1305. Datum of gage is at mean sea level (levels by city of Columbus). Prior to Dec. 2, 1940, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 19,850 acre-ft (24.5 hm³) Jan. 21, elevation, 850.69 ft (259.290 m); minimum, 14,570 acre-ft (18.0 hm³) Aug. 13, elevation, 845.10 ft (257.586 m). Extremes for period of record: Maximum contents, 24,240 acre-ft (29.9 hm³) Jan. 22, 1959, elevation, 854.40 ft (260.421 m); minimum, 43 acre-ft (53,000 m³) Feb. 11, 1945, elevation, 791.97 ft (241.392 m).

Reservoir is formed by concrete dam; dam completed and storage began in 1924. Usable capacity, 14,500 acre-ft (5.55 hm³), between elevations, 789.5 ft (240.64 m) (sill of outlet gate), and 845 ft (258 m) (crest of spillway), based on survey made in 1942. Flashboards installed May 8, 1945, additional capacity, 2,480 acre-ft (3.06 hm³), between elevations 845 ft (258 m) (crest of spillway), and 847.9 ft (258.44 m) (crest of flashboards). Dead storage below elevation 789.5 ft (240.64 m), 55 acre-ft (67,800 m³). Figures given herein represent usable contents. Water used for municipal supply of city of Columbus and recreational purposes. Capacity table computed from data furnished by city of Columbus.

03221500 GRIGGS RESERVOIR.--Lat 40°00'54", long 83°05'38", Franklin County, on left abutment of dam on Scioto River, 6.2 mi (10.0 km) northwest of State Capitol building in Columbus, and 6.5 mi (10.5 km) upstream from Olentangy River. Drainage area, 1,044 mi² (2,704 km²). Period of record, January 1921 to current year. Water-stage recorder. Monthend contents only for some periods, published in WSP 1305. Daily readings have been obtained by city of Columbus, Division of Water, since 1908. Datum of gage is 680.38 ft (207.380 m) above mean sea level, adjustment of 1912 (levels by city of Columbus); gage readings have been reduced to elevations above mean sea level. Prior to Oct. 4, 1940 nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 5,750 acre-ft (7.09 hm³) Jan. 21, elevation, 759.22 ft (231.410 m); minimum, 3,930 acre-ft (4.85 hm³) July 25, elevation, 754.09 ft (229.847 m). Extremes for period of record: Maximum contents, 7,490 acre-ft (9.24 hm³) Jan. 22, 1959, elevation, 763.91 ft (232.840 m); minimum, 38 acre-ft (46,900 m³) Jan. 24, 1945, elevation, 735.78 ft (224.266 m).

Reservoir formed by concrete dam; dam completed and storage began in 1905. Usable capacity, 3,700 acre-ft (4.56 hm³) between elevations, 735.4 ft (224.15 m) (lowest outlets), and 753.4 ft (229.64 m) (crest of spillway), based on survey made in 1935. Flashboards installed July 28, 1945, additional capacity, 750 acre-ft (925,000 m³), between elevations, 753.4 ft (229.64 m) (crest of spillway) and 755.6 ft (230.31 m) (crest of flashboards). Dead storage below elevation, 735.4 ft (224.15 m), 239 acre-ft (295,000 m³). Figures given herein represent usable contents. Water is used for municipal supply of city of Columbus and recreational purposes. Capacity table computed from data furnished by city of Columbus.

03225000 DELAWARE LAKE.--Lat 40°21'31", long 83°04'10", in T.5 N., R.19 W., Delaware County, in gate house of dam on Olentangy River, 4.0 mi (6.4 km) north of Delaware. Drainage area, 386 mi² (1000 km²). Period of record, March 1951 to current year. Prior to October 1971 published as Delaware Reservoir. Water-stage recorder. Datum of gage is at mean sea level, Sandy Hook datum (levels by Corps of Engineers). Extremes for current year: Maximum contents, 38,510 acre-ft (47.5 hm³) Jan. 22, elevation, 928.54 ft (283.019 m); minimum, 8,290 acre-ft (10.2 hm³) Dec. 8, elevation, 909.88 ft (277.331 m). Extremes for period of record: Maximum contents, 113,000 acre-ft (139 hm³) Jan. 25, 1959, elevation, 944.75 ft (287.960 m); minimum, 2,070 acre-ft (2.55 hm³) Feb. 13, 1970, elevation, 899.43 ft (274.146 m).

Lake is formed by earthfill dam with concrete spillway; storage began Mar. 20, 1951. Usable capacity 24,500 acre-ft (30.2 hm³) between elevation, 884.0 ft (269.44 m) (lowest outlet) and 922.0 ft (281.03 m) (crest of spillway). Additional flood-control storage above elevation 922.0 ft (281.03 m) by taintor gates on spillway, 107,500 acre-ft (133 hm³). Normal conservation pool storage 8,400 acre-ft (10.4 hm³), elevation, 910.0 ft (277.37 m) winter, and 14,000 acre-ft (17.3 hm³), elevation, 915.0 ft (278.89 m) summer. No dead storage. Figures given herein represent usable contents. Lake is used primarily for flood control although the conservation pool is operated to augment low flow for water supply, pollution abatement, and for recreation and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceways through dam, but above spillway level, taintor gates on spillway can be used. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03228400 HOOVER RESERVOIR.--Lat 40°06'30", long 82°52'59", in T.2 N., R.17 W., Franklin County, in gate house of dam on Big Walnut Creek, 0.5 mi (0.8 km) northeast of Central College, and 12 mi (19 km) northeast of Columbus. Drainage area, 190 mi² (492 km²). Period of record, March 1955 to current year. Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 10, 1956, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 72,630 acre-ft (89.6 hm³) Apr. 4, elevation, 894.22 ft (272.558 m); minimum, 44,470 acre-ft (54.8 hm³) Sept. 30, elevation, 883.91 ft (269.416 m). Extremes for period of record: Maximum contents, 83,220 acre-ft (103 hm³) June 20, 1973, elevation, 897.25 ft (273.482 m); minimum, 19,010 acre-ft (23.4 hm³) Mar. 1, 1964, elevation, 868.58 ft (264.743 m).

Reservoir formed by earthfill dam with concrete spillway; dam completed in 1954 and storage began in March 1955. Usable capacity, 60,130 acre-ft (74.1 hm³) between elevations 830.0 ft (252.98 m) (lowest outlet), and 890.0 ft (271.27 m) (crest of spillway). Additional flood-control storage above elevation 890.0 ft (271.27 m) by bascule gates installed in May 1970, 25,750 acre-ft (31.7 hm³). Dead storage below elevation 830.0 ft (252.98 m), 214 acre-ft (264,000 m³). Figures given herein represent usable contents. Reservoir is used for municipal supply of city of Columbus and for recreational purposes. Outflow is controlled mostly by operation of valves in tunnel through dam, but above spillway level bascule gates can be used. Capacity table computed from data furnished by city of Columbus.

03230890 DEER CREEK LAKE.--Lat 39°37'20", long 83°12'58", Pickaway County, in outlet tower of dam on Deer Creek, 1,000 ft (305 m) upstream from Crownover Mill Road, and 2.8 mi (4.5 km) east of Pancoastburg. Drainage area, 277 mi² (717 km²). Period of record, April 1968 to current year. Prior to October 1971 published as Deer Creek Reservoir. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 38,650 acre-ft (47.7 hm³) Nov. 30, elevation, 821.49 ft (250.390 m); minimum, 3,000 acre-ft (3.70 hm³) Feb. 24, Mar. 5, elevation, 790.09 ft (240.819 m). Extremes for period of record: Maximum contents, 71,830 acre-ft (88.6 hm³) May 31, 1968, elevation, 835.25 ft (254.584 m); minimum, 1,140 acre-ft (1.41 hm³) Jan. 8, 1970, elevation, 784.75 ft (239.192 m).

Lake formed by earthfill dam with concrete spillway; dam completed in 1968 and storage began April 1, 1968. Usable capacity 26,440 acre-ft (32.6 hm³) (corrected) between elevation 772.0 ft (235.31 m) (lowest outlet) and 814.0 ft (248.11 m) (corrected) crest of spillway. Additional flood control storage above 814.0 ft (248.11 m) by taintor gates on spillway 76,100 acre-ft (93.8 hm³). Normal conservation pool storage 6,420 acre-ft (7.92 hm³), elevation, 796.0 ft (242.62 m) winter, and 21,030 acre-ft (25.9 hm³), elevation, 810.0 ft (246.89 m) summer. Dead storage 2 acre-ft (2,470 m³) (corrected) below 772.0 ft (235.31 m). Figures given herein represent usable contents. Lake is used primarily for flood control although the conservation pool is operated to augment low flow for water supply, pollution abatement and for recreation and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceways through dam, but above spillway level, taintor gates on spillway can be used. Gage-height chart and capacity table furnished by Corps of Engineers.

SCIOTO RIVER BASIN

Reservoirs in Scioto River basin

03232460 PAINT CREEK LAKE.--Lat 39°15'09", long 83°20'59", Highland County, in outlet structure of dam on Paint Creek, 1.9 mi (3.1 km) upstream from Rocky Fork, and 4.5 mi (7.2 km) northwest of Bainbridge. Drainage area, 570 mi² (1,476 km²). Period of record, April to September 1974. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for the period April to September: Maximum contents, 52,520 acre-ft (64.8 hm³) June 25, elevation, 817.73 ft (249.244 m); minimum since initial filling was completed on May 6, 1974, 20,270 acre-ft (25.0 km³) July 25, elevation, 797.93 ft (243.209 m).

Lake is formed by earth and rock embankment dam with concrete spillway. Dam completed in 1974 and storage began April 8, 1974. Useable capacity 37,420 acre-ft (46.1 hm³) between elevation 750.0 ft (228.60 m) (lowest outlet), and 810.0 ft (246.89 m) (crest of spillway). Additional flood control storage above elevation 810.0 ft (246.89 m) by three taintor gates on spillway, 107,600 acre-ft (132.67 hm³). Seasonal pool storage 20,310 acre-ft (25.0 hm³) elevation, 798.0 ft (243.23 m). Dead storage 5 acre-ft (6.170 m³) below elevation 750.0 ft (228.60 m). Figures given herein represent useable contents. Lake is used primarily for flood control although seasonal pool is used for water quality control, water supply, recreation and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceway through dam but above spillway level taintor gates on spillway can be used. Gage-height chart and capacity table furnished by Corps of Engineers.

SCIOTO RIVER BASIN

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Reservoirs in Scioto River basin

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)
03220500 O'Shaughnessy Reservoir				03221500 Griggs Reservoir		
Sept. 30.....	847.58	16,680	-	755.48	4,400	-
Oct. 31.....	848.43	17,490	+810	755.86	4,530	+130
Nov. 30.....	849.13	18,190	+700	756.85	4,880	+350
Dec. 31.....	849.02	18,080	-110	756.70	4,830	-50
CAL YR 1973.....	-	-	-480	-	-	-150
Jan. 31.....	849.01	18,070	-10	756.68	4,820	-10
Feb. 28.....	848.60	17,660	-410	756.07	4,610	-210
Mar. 31.....	849.49	18,560	+900	757.38	5,070	+460
Apr. 30.....	848.35	17,410	-1,150	755.80	4,510	-560
May 31.....	848.35	17,410	0	756.86	4,530	+20
June 30.....	848.11	17,170	-240	755.67	4,470	-60
July 31.....	845.73	15,070	-2,100	755.13	4,290	-180
Aug. 31.....	846.50	15,720	+650	754.90	4,210	-80
Sept. 30.....	847.77	16,850	+1,130	755.45	4,390	+180
WTR YR 1974.....	-	-	+170	-	-	-10
03225000 Delaware Lake				03228400 Hoover Reservoir		
Sept. 30.....	914.40	13,220	-	889.63	59,130	-
Oct. 31.....	915.40	14,520	+1,300	888.11	55,080	-4,050
Nov. 30.....	916.41	15,870	+1,350	893.12	69,040	+13,960
Dec. 31.....	910.17	8,570	-7,300	893.07	68,880	-160
CAL YR 1973.....	-	-	-1,300	-	-	+7,820
Jan. 31.....	910.11	8,510	-60	893.08	68,910	+30
Feb. 28.....	910.50	8,900	+390	893.01	68,690	-220
Mar. 31.....	913.66	12,330	+3,430	893.11	69,010	+320
Apr. 30.....	915.24	14,310	+1,980	892.45	67,010	-2,000
May 31.....	915.14	14,180	-130	892.51	67,190	+180
June 30.....	915.17	14,220	+40	890.95	62,720	-4,470
July 31.....	914.07	12,790	-1,430	887.92	54,580	-8,140
Aug. 31.....	915.06	14,080	+1,290	885.74	48,960	-5,620
Sept. 30.....	915.06	14,080	0	883.91	44,470	-4,490
WTR YR 1974.....	-	-	+860	-	-	-14,660
03230890 Deer Creek Lake				03232560 Paint Creek Lake		
Sept. 30.....	810.20	21,290	-			
Oct. 31.....	810.42	21,570	+280			
Nov. 30.....	821.33	38,350	+16,780			
Dec. 31.....	796.12	6,510	-31,840			
CAL YR 1973.....	-	-	-250			
Jan. 31.....	790.93	3,390	-3,120			
Feb. 28.....	790.54	3,210	-180			
Mar. 31.....	799.90	9,720	+6,510			
Apr. 30.....	810.36	21,490	+11,770	794.38	16,260	-
May 31.....	810.36	21,490	0	798.47	20,880	+4,620
June 30.....	810.07	21,120	-370	798.78	21,250	+370
July 31.....	810.03	21,070	-50	798.12	20,450	-800
Aug. 31.....	810.18	21,260	+190	798.29	20,660	+210
Sept. 30.....	810.32	21,440	+180	798.15	20,490	-170
WTR YR 1974.....	-	-	+150	-	-	-

UPPER TWIN CREEK BASIN

03237280 Upper Twin Creek at McGaw, Ohio
(Hydrologic bench-mark station)

LOCATION.--Lat 38°38'37", long 83°12'57", Scioto County, on right bank, 0.3 mi (0.5 km) downstream from Brown Run, 0.3 mi (0.5 km) upstream from Tucker Run, 0.7 mi (1.1 km) upstream from bridge on U.S. Highway 52 at McGaw, 2.7 mi (4.3 km) northeast of Buena Vista, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--12.2 mi² (31.6 km²). Area at site used prior to July 21, 1972, 12.8 mi² (33.2 km²).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 543.41 ft (165.631 m) above mean sea level, Ohio Department of Highways bench mark. Prior to July 21, 1972 water-stage recorder at site 0.7 mi (1.1 km) downstream at datum 23.41 ft (7.135 m) lower.

AVERAGE DISCHARGE.--11 years, 12.4 ft³/s (0.351 m³/s), 13.80 in/yr (350.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,220 ft³/s (34.6 m³/s) June 1, gage height, 6.04 ft (1.841 m); minimum, 0.01 ft³/s (0.000 m³/s) Oct. 4-7, 9-12, 22-24, 26.

Period of record: Maximum discharge, 3,500 ft³/s (99.1 m³/s) Mar. 4, 1964, gage height, 9.7 ft (2.96 m), in gage well, 10.2 ft (3.11 m), from outside highwater mark; no flow for many days most years.

Flood of July 3, 1960 reached a stage of 11.62 ft (3.542 m), discharge, 7,230 ft³/s (205 m³/s), on basis of contracted-opening and flow over road measurement of peak flow.

REMARKS.--Records good except those above 250 cfs, which are fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	6.3	3.9	11	17	14	34	4.5	466	3.3	.15	13
2	.02	5.1	2.1	7.9	15	17	102	64	101	2.3	.15	17
3	.02	3.3	1.4	24	12	18	46	137	30	1.6	.15	228
4	.01	2.3	1.2	38	9.9	17	40	36	14	1.5	3.2	66
5	.01	2.1	2.5	22	8.5	17	29	21	8.8	2.3	2.2	16
6	.01	1.7	3.0	14	8.8	69	24	14	6.5	1.5	1.3	7.8
7	.02	1.4	2.1	11	25	59	20	9.5	4.6	1.1	1.7	4.9
8	.02	1.1	1.7	8.2	21	35	31	8.2	3.3	.91	11	3.3
9	.01	1.4	1.4	15	16	25	50	11	3.0	1.2	11	2.5
10	.01	1.4	1.4	258	14	19	36	8.5	2.5	1.7	3.5	2.5
11	.01	1.1	1.1	217	12	61	26	7.3	2.0	1.5	4.4	2.2
12	.01	.96	.84	48	12	106	21	25	1.9	1.0	5.6	2.5
13	.02	.84	1.1	27	16	52	17	20	1.6	.81	3.2	2.0
14	.02	.84	1.7	20	15	32	15	13	1.2	.55	2.3	3.0
15	.02	.96	2.1	16	13	24	12	9.5	1.0	.48	1.5	2.8
16	.02	1.2	2.1	12	13	64	11	6.6	.81	.40	1.0	2.2
17	.02	1.2	1.9	11	11	43	9.5	4.8	.71	.33	.71	1.7
18	.02	1.2	4.5	9.5	10	30	8.5	5.4	.63	.27	.63	1.3
19	.02	1.2	1.4	12	15	23	7.9	4.2	.55	.27	.48	1.0
20	.02	1.1	6.6	16	21	18	7.3	3.3	.48	.27	.40	.81
21	.02	1.2	15	22	18	22	6.6	2.5	.40	.20	.40	.81
22	.01	1.2	9.9	21	23	20	6.9	7.9	.91	.20	.33	1.0
23	.01	1.4	7.9	19	19	18	7.6	87	31	.20	.27	.81
24	.01	2.1	5.4	18	18	16	6.3	30	10	.20	.20	.63
25	.02	5.1	4.5	16	16	13	5.4	14	5.1	.15	.20	.55
26	.02	14	6.9	14	13	12	5.1	9.2	3.3	.15	.20	.48
27	.02	63	14	14	12	11	5.1	6.6	2.8	.15	.15	.48
28	.36	72	11	60	13	11	4.8	4.2	4.9	.20	8.8	.55
29	.24	13	15	59	-----	46	4.5	6.9	9.2	.20	129	.63
30	3.6	6.9	21	34	-----	114	4.2	75	5.4	.15	131	.71
31	5.4	-----	15	24	-----	46	-----	48	-----	.15	14	-----
TOTAL	10.04	216.60	169.64	1,098.6	417.2	1,072	603.7	704.1	723.59	25.24	339.12	387.16
MEAN	.32	7.22	5.47	35.4	14.9	34.6	20.1	22.7	24.1	.81	10.9	12.9
MAX	5.4	72	21	258	25	114	102	137	466	3.3	131	228
MIN	.01	.84	.84	7.9	8.5	11	4.2	2.5	.40	.15	.15	.48
CFSM	.03	.59	.45	2.90	1.22	2.84	1.65	1.86	1.98	.07	.89	1.06
IN.	.03	.66	.52	3.35	1.27	3.27	1.84	2.15	2.21	.08	1.03	1.18

CAL YR 1973 TOTAL 4,677.94 MEAN 12.8 MAX 149 MIN .01 CFSM 1.05 IN 14.26
WTR YR 1974 TOTAL 5,766.99 MEAN 15.8 MAX 466 MIN .01 CFSM 1.30 IN 17.58

PEAK DISCHARGE (BASE, 450 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	1115	5.13	798	8-29	2230	4.52	833
5-02	2245	5.46	976	9-03	0615	4.43	595
6-01	1130	6.04	1,220				

03237500 Ohio Brush Creek near West Union, Ohio

LOCATION.--Lat 38°48'13", long 83°25'16", Adams County, on right bank at downstream side of bridge on State Highway 348, 0.3 mi (0.5 km) downstream from Cedar Run, 7.0 mi (11.3 km) east of West Union, and 7.1 mi (11.4 km) upstream from Beasley Fork.

DRAINAGE AREA.--387 mi² (1,002 km²).

PERIOD OF RECORD.--August 1926 to November 1935, September 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 510.6 ft (155.63 m) above mean sea level, adjustment of 1912. Prior to Nov. 22, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 439 ft³/s (12.43 m³/s), 15.40 in/yr (391.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,400 ft³/s (295 m³/s) Nov. 28, gage height, 13.86 ft (4.225 m); minimum, 8.1 ft³/s (0.23 m³/s) Oct. 23, 24.

Period of record: Maximum discharge, 59,200 ft³/s (1,680 m³/s) Mar. 10, 1964, gage height, 27.91 ft (8.507 m), from rating curve extended above 22,000 ft³/s (623 m³/s) on basis of slope-area measurement of peak flow; no flow Sept. 13-23, 27, 28, 1955 and for part of each day Sept. 17, 18, 1964.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	83	327	451	403	333	784	95	2,530	204	37	1,350
2	121	113	246	277	350	1,520	3,380	106	1,080	144	23	1,470
3	131	91	204	526	487	912	1,280	1,130	495	116	24	1,640
4	61	57	185	1,180	351	542	3,490	634	318	95	121	1,710
5	42	49	354	501	265	437	986	289	232	75	201	681
6	31	44	327	363	260	1,640	650	201	191	70	79	343
7	38	41	211	304	1,160	1,840	491	161	354	66	51	223
8	31	46	167	238	634	817	786	131	265	66	686	165
9	23	42	147	399	387	546	1,630	258	323	71	515	133
10	19	38	139	4,400	297	427	716	246	152	71	258	142
11	19	37	126	6,150	303	1,730	495	158	123	747	133	154
12	16	39	106	1,560	261	3,650	400	228	98	173	118	166
13	14	38	111	669	285	1,220	340	377	79	89	118	265
14	16	35	198	524	344	655	293	191	66	58	73	2,010
15	14	32	243	640	265	496	258	131	61	48	51	552
16	12	310	173	1,020	217	4,140	214	109	386	83	40	286
17	24	228	141	761	203	1,360	188	93	155	46	34	196
18	19	118	95	540	180	765	167	903	111	56	32	155
19	14	85	102	927	452	565	155	1,040	81	43	32	124
20	12	71	1,570	1,070	1,120	461	144	772	66	41	34	104
21	9.8	63	1,900	1,480	475	641	133	391	63	42	27	498
22	9.2	57	522	843	1,320	734	131	239	111	61	21	756
23	8.6	56	380	683	984	449	232	2,330	4,150	42	16	296
24	8.1	57	311	924	549	387	225	1,210	1,100	33	14	181
25	8.6	1,430	383	550	427	363	149	470	595	24	11	138
26	9.8	3,050	621	438	311	343	123	281	663	22	12	116
27	13	2,760	2,030	1,150	327	310	111	198	485	19	11	102
28	15	4,990	698	1,270	370	268	104	149	323	17	1,070	106
29	15	1,060	985	1,710	-----	315	95	182	562	15	975	132
30	25	480	1,370	768	-----	2,100	91	1,660	310	14	3,060	133
31	34	-----	611	535	-----	1,410	-----	2,900	-----	30	1,080	-----
TOTAL	825.1	15,600	14,983	32,851	12,987	31,376	18,241	17,263	15,528	2,681	8,957	14,327
MEAN	26.6	520	483	1,060	464	1,012	608	557	518	86.5	289	478
MAX	131	4,990	2,030	6,150	1,320	4,140	3,490	2,900	4,150	747	3,060	2,010
MIN	8.1	32	95	238	180	268	91	93	61	14	11	102
CFSM	.07	1.34	1.25	2.74	1.20	2.62	1.57	1.44	1.34	.22	.75	1.24
IN.	.08	1.50	1.44	3.16	1.25	3.02	1.75	1.66	1.49	.26	.86	1.38

CAL YR 1973 TOTAL 169,118.5 MEAN 463 MAX 5,520 MIN 7.6 CFMS 1.20 IN 16.26
WTR YR 1974 TOTAL 185,619.1 MEAN 509 MAX 6,150 MIN 8.1 CFMS 1.32 IN 17.84

PEAK DISCHARGE (BASE, 11,000 FT³/S). No peaks above base.

WHITEOAK CREEK BASIN

03238500 Whiteoak Creek near Georgetown, Ohio

LOCATION.--Lat 38°51'29", long 83°55'43", Brown County, on left bank 150 ft (46 m) upstream from diversion dam for Georgetown water treatment plant, 0.7 mi (1.1 km) upstream from Town Run, 1.4 mi (2.3 km) southwest of Georgetown, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--218 mi² (565 km²).

PERIOD OF RECORD.--October 1923 to November 1935, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 604.20 ft (184.160 m) above mean sea level. Prior to Oct. 12, 1972 nonrecording gage at a site 1.0 mi (1.6 km) downstream at a datum 35.24 ft (10.741 m) lower. See WSP 2108 for history of changes prior to Dec. 8, 1940.

AVERAGE DISCHARGE.--47 years, 249 ft³/s (7.052 m³/s), 15.51 in/yr (394.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,560 ft³/s (271 m³/s) Nov. 28, gage height, 7.49 ft (2.283 m); minimum, 1.5 ft³/s (0.042 m³/s) Aug. 23, 24, 26, 27.

Period of record: Maximum discharge, 22,400 ft³/s (634 m³/s) Mar. 10, 1964; maximum gage height, 20.87 ft (6.361 m), site and datum then in use, May 14, 1933; no flow at times in 1930, 1940-41, 1943, 1948, 1951-53, 1959, 1969, 1970.

REVISIONS.--The maximum discharge for the water year 1973 has been revised to 9,010 ft³/s (255 m³/s) Dec. 9, gage height, 7.36 ft (2.243 m), superseding figures published in WRD Ohio 1973.

REMARKS.--Records good above 50 ft³/s (1.42 m³/s), fair below. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 728: 1924-31. WSP 758: 1933. WSP 1908: Drainage area. The figures of peak discharge for the water year 1973 have been revised as shown in the following table. They supersede figures published in WRD Ohio 1973.

Revised Peak Discharge.--1973: Nov. 8 (0830) 6,770 ft³/s (6.75 ft); Nov. 14 (1530) 8,370 ft³/s (7.20 ft); Dec. 9 (0630) 9,010 ft³/s (7.36 ft); Apr. 24 (0200) 6,840 ft³/s (6.77 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	660	171	219	212	169	201	444	35	2,550	32	6.5	739
2	1,780	267	164	121	140	1,540	1,680	41	476	20	6.5	2,120
3	764	92	123	159	356	637	541	240	185	16	35	729
4	185	57	151	289	195	276	963	217	104	13	53	1,220
5	184	48	607	185	126	185	492	96	70	11	50	328
6	192	44	437	130	108	868	212	60	57	13	29	135
7	74	38	219	113	931	1,080	164	47	47	159	16	81
8	54	38	123	85	377	858	710	41	38	135	13	60
9	51	29	92	179	154	276	1,630	50	35	47	20	47
10	51	29	88	2,100	108	174	363	57	41	29	26	44
11	35	35	74	2,940	100	941	201	50	32	1,560	26	41
12	23	29	71	748	85	2,680	144	41	26	195	18	63
13	18	25	71	270	92	646	117	38	20	63	18	283
14	18	23	258	206	121	246	104	38	18	38	18	3,120
15	51	109	287	1,030	121	190	92	32	32	29	11	406
16	48	1,550	137	1,560	88	3,390	81	26	23	23	11	154
17	25	383	75	1,020	77	719	77	26	29	63	18	92
18	18	171	64	655	74	295	70	70	18	29	16	67
19	13	103	52	1,540	113	201	67	223	16	126	13	53
20	11	81	680	1,030	592	164	63	399	13	321	8.0	47
21	9.1	78	1,350	2,770	240	592	60	159	13	130	8.0	212
22	7.5	88	320	768	931	558	63	81	47	47	6.5	524
23	7.5	92	230	878	729	206	174	74	1,570	29	5.2	144
24	7.5	104	200	1,010	252	159	113	117	384	18	4.0	81
25	9.1	3,280	180	335	159	195	74	70	117	16	4.0	57
26	13	3,250	1,200	240	108	223	57	44	67	13	3.0	47
27	11	3,700	1,910	1,070	117	201	50	29	70	11	4.0	41
28	13	7,230	460	920	185	144	44	23	60	13	26	38
29	15	1,140	797	1,350	-----	130	38	26	47	9.6	328	38
30	23	376	1,370	377	-----	2,020	35	414	41	8.0	3,230	38
31	38	-----	328	234	-----	1,390	-----	2,590	-----	6.5	2,590	-----
TOTAL	4,408.7	22,660	12,337	24,524	6,848	21,385	8,923	5,454	6,246	3,223.1	6,620.7	11,049
MEAN	142	755	398	791	245	690	297	176	208	104	214	368
MAX	1,780	7,230	1,910	2,940	931	3,390	1,680	2,590	2,550	1,560	3,230	3,120
MIN	7.5	23	52	85	74	130	35	23	13	6.5	3.0	38
CFSM	.65	3.46	1.83	3.63	1.12	3.17	1.36	.81	.95	.48	.98	1.69
IN.	.75	3.87	2.11	4.18	1.17	3.65	1.52	.93	1.07	.55	1.13	1.89

CAL YR 1973 TOTAL 138,586.6 MEAN 380 MAX 7,230 MIN 6.1 CFSM 1.74 IN 23.65
WTR YR 1974 TOTAL 133,678.5 MEAN 366 MAX 7,230 MIN 3.0 CFSM 1.68 IN 22.81

PEAK DISCHARGE (BASE, 5,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE
11-28	1600	7.49	9,560
8-31	0200	6.46	5,890

03240000 Little Miami River near Oldtown, Ohio

LOCATION.--Lat 39°44'54", long 83°55'53", in sec. 34, R.7, T.4, Greene County, on right bank at downstream side of bridge on U.S. Highway 68, 0.8 mi (1.3 km) downstream from Conner Branch, 0.9 mi (1.4 km) upstream from Massies Creek, and 1.3 mi (2.1 km) northeast of Oldtown.

DRAINAGE AREA.--129 mi² (334 km²).

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.56 ft (248.887 m) above mean sea level.

AVERAGE DISCHARGE.--22 years, 107 ft³/s (3.030 m³/s), 11.26 in/yr (268.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,820 ft³/s (51.5 m³/s) Apr. 4, gage height, 7.04 ft (2.146 m); minimum daily, 20 ft³/s (0.57 m³/s) Aug. 23.

Period of record: Maximum discharge, 14,800 ft³/s (419 m³/s) Jan. 21, 1959, gage height, 12.20 ft (3.719 m), from rating curve extended above 4,400 ft³/s (125 m³/s) on basis of slope-area measurement of peak flow; minimum, 5.4 ft³/s (0.15 m³/s) July 29, 1954, result of temporary storage at rock dam upstream.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	72	308	203	220	195	338	143	87	83	30	54
2	97	72	253	170	190	185	1,280	128	77	74	29	66
3	73	61	218	150	170	175	870	145	73	65	30	97
4	69	57	200	140	160	163	1,560	128	69	61	33	101
5	125	58	240	130	150	168	741	118	62	58	30	63
6	75	56	210	120	178	158	477	111	62	62	27	50
7	63	54	168	110	396	160	383	105	66	58	27	42
8	57	53	140	100	280	210	747	103	66	55	29	39
9	53	52	130	110	213	150	873	111	65	51	27	36
10	50	50	120	120	183	138	603	99	61	130	25	37
11	47	49	111	110	160	123	426	93	56	293	25	34
12	45	49	101	100	150	123	355	99	55	85	34	143
13	46	50	115	90	168	109	310	93	52	66	30	130
14	52	45	125	95	175	99	275	92	50	62	26	153
15	49	57	111	235	153	99	245	88	57	57	24	97
16	45	173	101	567	145	125	220	85	57	52	21	72
17	43	101	88	525	138	113	203	93	53	47	40	61
18	42	77	88	438	128	103	188	173	53	45	36	54
19	41	69	81	699	163	105	178	140	52	42	57	50
20	41	62	148	588	270	99	165	109	54	42	32	52
21	39	62	245	762	215	128	158	97	55	38	30	52
22	39	61	168	546	308	135	175	88	107	39	23	47
23	39	57	133	543	300	115	183	105	498	39	20	44
24	39	101	115	507	223	113	153	128	253	41	23	39
25	39	678	210	358	185	101	140	111	170	36	22	39
26	39	759	423	315	150	101	133	93	160	34	23	40
27	39	753	603	567	140	115	128	85	123	33	45	39
28	39	906	378	408	183	107	123	78	101	33	110	44
29	43	612	318	348	-----	185	118	107	93	34	130	160
30	47	396	320	290	-----	483	130	118	78	34	70	135
31	47	-----	245	255	-----	462	-----	97	-----	30	50	-----
TOTAL	1,618	5,702	6,214	9,699	5,494	4,845	11,878	3,363	2,865	1,879	1,158	2,070
MEAN	52.2	190	200	313	196	156	396	108	95.5	60.6	37.4	69.0
MAX	125	906	603	762	398	483	1,560	173	498	293	130	160
MIN	39	45	81	90	128	99	118	78	50	30	20	34
CFSM	.40	1.47	1.55	2.43	1.52	1.21	3.07	.84	.74	.47	.29	.53
IN.	.47	1.64	1.79	2.80	1.58	1.40	3.43	.97	.83	.54	.33	.60

CAL YR 1973 TOTAL 67,336 MEAN 184 MAX 953 MIN 30 CFSM 1.43 IN 19.42
WTR YR 1974 TOTAL 56,785 MEAN 156 MAX 1,560 MIN 20 CFSM 1.21 IN 16.38

PEAK DISCHARGE (BASE, 800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1130	4.79	927	1-21	1730	4.62	876	4-4	1600	7.04	1,820
11-28	0145	4.87	951	4-2	0230	6.61	1,620	4-8	1730	5.59	1,220

LITTLE MIAMI RIVER BASIN

03241500 Massies Creek at Wilberforce, Ohio

LOCATION.--Lat 39°43'22", long 83°52'58", Greene County, on right bank 200 ft (61 m) downstream from bridge on Wilberforce-Clinton Road, 0.5 mi (0.8 km) northwest of Wilberforce, 0.6 mi (1.0 km) downstream from unnamed right bank tributary and 1.7 mi (2.7 km) upstream from Clark Run.

DRAINAGE AREA.--63.2 mi² (164 km²).

PERIOD OF RECORD.--September 1952 to current year. Prior to October 1962, published as Massie Creek at Wilberforce.

GAGE.--Water-stage recorder. Datum of gage is 865.15 ft (263.698 m) above mean sea level. Prior to Aug. 4, 1972 at site 150 ft (46 m) upstream at same datum.

AVERAGE DISCHARGE.--22 years, 59.0 ft³/s (1.671 m³/s), 12.68 in/yr (322.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,440 ft³/s (40.8 m³/s) Apr. 4, gage height, 6.97 ft (2.124 m); minimum, 4.3 ft³/s (0.12 m³/s) Aug. 26.

Period of record: Maximum discharge, 7,300 ft³/s (207 m³/s) Jan. 21, 1959, Mar. 4, 1963, gage height, 11.25 ft (3.429 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.3 ft³/s (0.008 m³/s) Sept. 3-7, 1954.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	56	180	106	109	95	297	62	34	43	8.0	46
2	81	49	144	91	100	103	732	54	31	36	7.5	61
3	56	37	124	82	87	97	379	67	29	33	11	94
4	49	30	115	73	76	85	1,250	59	27	32	14	94
5	66	30	166	66	67	87	526	52	25	31	11	55
6	47	26	138	58	96	80	260	48	26	28	8.5	36
7	36	23	90	52	246	81	188	43	28	24	8.0	27
8	31	24	80	48	150	176	425	40	34	23	9.0	22
9	27	23	70	52	107	110	544	45	30	23	8.5	19
10	24	21	62	56	87	85	283	39	27	45	8.0	17
11	23	20	61	60	76	72	192	38	26	245	9.0	18
12	22	20	60	54	70	68	154	38	25	75	8.5	105
13	24	20	65	48	77	58	126	38	24	48	7.0	84
14	29	19	65	56	82	54	108	37	23	37	8.5	106
15	24	58	55	192	69	54	93	37	27	35	6.5	69
16	23	124	48	395	66	68	79	32	33	28	5.7	47
17	20	73	40	315	61	60	70	35	25	24	12	37
18	19	56	35	255	58	54	65	130	21	22	13	31
19	18	48	33	420	84	53	61	79	20	20	11	26
20	17	40	85	348	132	48	55	59	21	19	7.5	27
21	17	40	148	514	102	73	53	45	21	17	6.0	29
22	16	37	96	323	176	72	56	40	49	16	5.7	25
23	16	34	77	360	145	63	56	45	303	15	5.3	23
24	16	138	68	305	105	58	48	54	184	15	5.3	21
25	15	511	140	202	86	51	44	46	111	12	5.0	20
26	15	514	310	182	72	56	40	37	123	11	4.6	19
27	15	496	393	335	70	65	36	34	88	10	5.0	19
28	16	562	230	233	89	60	34	32	67	9.0	11	49
29	17	388	190	200	-----	148	43	34	56	15	26	158
30	23	238	186	160	-----	448	53	41	47	12	25	107
31	23	-----	136	130	-----	415	-----	36	-----	9.0	17	-----
TOTAL	857	3,755	3,690	5,771	2,745	3,097	6,350	1,476	1,585	1,012.0	298.1	1,491
MEAN	27.6	125	119	186	98.0	99.9	212	47.6	52.8	32.6	9.62	49.7
MAX	81	562	393	514	246	448	1,250	130	303	245	26	158
MIN	15	19	33	48	58	48	34	32	20	9.0	4.6	17
CFSM	.44	1.98	1.88	2.94	1.55	1.58	3.35	.75	.84	.52	.15	.79
IN.	.50	2.21	2.17	3.40	1.62	1.82	3.74	.87	.93	.60	.18	.88

CAL YR 1973 TOTAL 36,672.0 MEAN 100 MAX 628 MIN 8.5 CFSM 1.58 IN 21.59
WTR YR 1974 TOTAL 32,127.1 MEAN 88.0 MAX 1,250 MIN 4.6 CFSM 1.39 IN 18.91

PEAK DISCHARGE (BASE, 600 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	0900	5.52	828	4-4	1430	6.97	1,440
4-2	0030	6.23	1,090	4-8	2300	5.21	704

03242050 Little Miami River near Spring Valley, Ohio

LOCATION.--Lat 39°35'00", long 84°01'49", Greene County, on right bank at downstream side of bridge on New Burlington Road, 0.3 mi (0.5 km) upstream from unnamed right bank tributary, 2.2 mi (3.5 km) southwest of Spring Valley, and 2.8 mi (4.5 km) downstream from Gladly Run.

DRAINAGE AREA.--366 mi² (948 km²).

PERIOD OF RECORD.--September 1925 to December 1935 and October 1939 to December 1951 (published as "at Spring Valley"), July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 729.29 ft (222.288 m) above mean sea level. Prior to Dec. 12, 1939 nonrecording gage and Dec. 13, 1939 to Dec. 31, 1951 water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 8.6 ft (2.62 m) higher.

AVERAGE DISCHARGE.--28 years (1925-35, 1939-51, 1969-74), 382 ft³/s (10.82 m³/s), 14.17 in/yr (359.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,560 ft³/s (129 m³/s) Apr. 2, gage height, 11.19 ft (3.411 m); minimum, 97 ft³/s (2.75 m³/s) Aug. 26.

Period of record: Maximum discharge, 18,400 ft³/s (521 m³/s) Feb. 26, 1929, gage height 16.8 ft (5.12 m) site and datum then in use; minimum, 23 ft³/s (0.65 m³/s) July 27, 1934.

Flood of Jan. 21, 1959 reached a stage of 18.1 ft (5.52 m) (revised) at present site and datum, discharge, 36,400 ft³/s (1,030 m³/s).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 893: 1932(M). WSP 1053: 1929. WSP 2108: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407	314	886	600	690	615	1,090	623	318	315	114	501
2	771	256	748	540	654	627	3,860	514	278	308	109	448
3	381	221	674	500	611	604	2,540	608	260	266	134	699
4	307	200	650	470	566	559	3,680	514	251	237	162	615
5	587	208	666	450	526	592	2,820	452	231	245	123	417
6	337	195	674	420	634	562	1,450	428	223	251	118	291
7	258	184	570	390	1,610	526	1,120	398	225	206	111	223
8	235	183	514	370	942	646	2,020	398	254	193	130	186
9	213	184	480	420	711	574	2,860	468	225	186	116	172
10	199	174	464	509	608	522	1,660	394	206	234	153	167
11	188	169	421	559	540	472	1,220	364	195	654	162	164
12	180	168	394	493	520	468	990	452	211	424	149	1,220
13	178	168	460	409	560	428	877	372	188	272	124	842
14	245	168	464	448	577	394	791	339	172	223	125	990
15	191	341	421	1,030	537	390	719	322	285	209	116	559
16	180	647	390	1,650	501	489	666	308	190	186	109	417
17	171	427	350	1,350	484	444	623	417	181	169	329	329
18	166	314	336	1,150	460	405	589	821	172	158	153	285
19	162	271	325	1,820	596	394	566	574	172	153	248	237
20	159	243	642	1,700	795	379	537	480	183	151	143	311
21	156	241	782	1,950	674	537	514	428	188	140	124	295
22	154	231	596	1,590	929	526	592	386	711	133	118	231
23	154	213	514	1,600	911	460	600	409	2,370	141	113	203
24	151	619	484	1,490	699	448	522	460	1,030	141	119	201
25	150	2,300	666	1,050	611	421	476	394	715	133	107	188
26	145	2,400	1,120	929	551	424	456	343	674	127	101	181
27	145	2,200	1,650	1,770	537	432	436	318	555	122	107	174
28	142	2,730	1,110	1,270	608	428	413	288	456	118	390	285
29	148	1,800	929	1,070	-----	514	405	339	413	118	518	1,100
30	202	1,150	946	894	-----	1,230	522	432	353	130	585	686
31	181	-----	757	782	-----	1,650	-----	379	-----	118	269	-----
TOTAL	7,243	18,919	20,083	29,673	18,642	17,160	35,614	13,422	11,885	6,461	5,479	12,617
MEAN	234	631	648	957	666	554	1,187	433	396	208	177	421
MAX	771	2,730	1,650	1,950	1,610	1,650	3,860	821	2,370	654	585	1,220
MIN	142	168	325	370	460	379	405	288	172	118	101	164
CFSM	.64	1.72	1.77	2.61	1.82	1.51	3.24	1.18	1.08	.57	.48	1.15
IN.	.74	1.92	2.04	3.02	1.89	1.74	3.62	1.36	1.21	.66	.56	1.28

CAL YR 1973 TOTAL 215,999 MEAN 592 MAX 3,100 MIN 120 CFSM 1.62 IN 21.95
WTR YR 1974 TOTAL 197,198 MEAN 540 MAX 3,860 MIN 101 CFSM 1.48 IN 20.04

PEAK DISCHARGE (BASE, 3,600 FT³/S)

DATE	TIME	G. H.	DISCHARGE
4-2	1400	11.19	4,560
4-4	1400	10.91	4,190

LITTLE MIAMI RIVER BASIN

03242150 Caesar Creek near Xenia, Ohio

LOCATION.--Lat 39°37'25", long 83°54'09", Greene County, on left bank at downstream side of bridge on Winchester Road, 0.2 mi (0.3 km) downstream from unnamed left bank tributary, 4.5 mi (7.2 km) south of Xenia, and 7.4 mi (11.9 km) upstream from Anderson Fork.

DRAINAGE AREA.--71.4 mi² (185 km²).

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 894.18 ft (272.546 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 78.6 ft³/s (2.226 m³/s), 14.95 in/yr (379.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 3,500 ft³/s (99.1 m³/s) June 22 or 23; minimum, 2.2 ft³/s (0.062 m³/s) Aug. 26, 27, 28.

Period of record: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Apr. 2, 1970, gage height, 11.86 ft (3.615 m); minimum daily, 0.44 ft³/s (0.012 m³/s) Oct. 9, 1970.

REMARKS.--Records good except those for periods of no gage height record, which are fair. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee, 7.2 mi (11.6 km) upstream, drainage area 10.9 mi² (28.2 km²). Summer storage is about 1,100 acre-ft (1.36 km³) more than winter. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	71	186	98	110	87	211	64	46	34	4.1	527
2	174	51	154	88	90	100	819	57	34	30	3.0	297
3	138	36	129	78	78	100	570	115	27	27	2.8	428
4	122	28	124	68	60	86	1,150	70	25	25	24	346
5	162	27	196	60	50	89	328	48	24	23	11	112
6	75	24	138	52	56	81	211	43	24	21	7.3	97
7	58	22	106	46	486	72	134	38	24	20	6.1	63
8	45	21	91	42	186	113	750	36	24	19	5.4	28
9	35	21	85	56	123	101	534	40	24	17	4.7	24
10	29	18	74	70	90	82	259	36	22	16	5.0	20
11	26	16	63	76	70	70	139	35	21	15	4.7	19
12	22	16	56	64	74	66	123	39	21	14	5.0	39
13	21	16	54	56	84	54	90	36	20	13	4.1	54
14	24	21	62	54	89	50	94	35	18	11	3.8	135
15	22	144	54	230	73	49	110	43	21	10	3.0	70
16	18	179	46	452	70	71	62	28	21	9.4	3.0	44
17	16	125	42	266	64	54	54	104	19	8.4	8.7	33
18	15	104	50	209	58	46	50	194	17	7.6	8.7	27
19	14	89	40	396	89	44	44	68	16	11	6.5	22
20	14	73	228	303	133	38	40	49	15	21	4.1	19
21	13	67	176	615	100	70	39	41	21	14	3.3	19
22	12	58	107	305	215	67	54	37	660	10	2.8	18
23	12	50	85	425	139	55	70	38	1,500	8.0	3.8	18
24	12	161	76	308	90	49	47	116	300	7.0	5.8	11
25	12	912	170	211	70	42	36	60	150	6.4	3.0	20
26	11	662	374	186	56	48	35	47	80	5.8	2.6	10
27	11	521	379	425	66	56	34	40	60	5.2	2.2	8.7
28	12	770	206	252	90	53	33	36	50	4.8	3.5	26
29	13	352	160	232	-----	110	32	48	44	4.4	29	112
30	18	243	140	174	-----	437	42	76	38	4.1	125	68
31	22	-----	110	141	-----	374	-----	54	-----	4.4	30	-----
TOTAL	1,294	4,898	3,961	6,038	2,959	2,814	6,194	1,771	3,366	426.5	336.0	2,714.7
MEAN	41.7	163	128	195	106	90.8	206	57.1	112	13.8	10.8	90.5
MAX	174	912	379	615	486	437	1,150	194	1,500	34	125	527
MIN	11	16	40	42	50	38	32	28	15	4.1	2.2	8.7
CFSM	.58	2.28	1.79	2.73	1.48	1.27	2.89	.80	1.57	.19	.15	1.27
IN.	.67	2.55	2.06	3.15	1.54	1.47	3.23	.92	1.75	.22	.18	1.41
CAL YR 1973	TOTAL 36,738.3	MEAN 101	MAX 1,080	MIN 6.8	CFSM 1.41	IN 19.14						
WTR YR 1974	TOTAL 36,772.2	MEAN 101	MAX 1,500	MIN 2.2	CFSM 1.41	IN 19.16						

PEAK DISCHARGE (BASE, 1,000 FT³/S) Note: No gage height record June 23 to July 30.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1000	8.82	1,770	4-2	0130	8.30	1,480	6-22 or			
11-26	1500	7.80	1,210	4-3	2330	9.10	1,940	23	unknown	unknown	about 3,500
11-28	0030	7.57	1,100	4-8	1400	8.22	1,440	9- 1	1230	7.92	1,280

03242200 Anderson Fork near New Burlington, Ohio

LOCATION.--Lat 39°33'59", long 83°54'10", Greene County, on right bank at downstream side of bridge on Old Winchester Trail, 1.0 mi (1.6 km) downstream from Painters Run, 3.4 mi (5.5 km) east of New Burlington, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--77.8 mi² (202 km²).

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 883.67 ft (269.343 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 84.0 ft³/s (2.379 m³/s), 14.66 in/yr (372.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,420 ft³/s (68.5 m³/s) June 23, gage height, 11.65 ft (3.551 m); minimum daily, 1.2 ft³/s (0.033 m³/s) Aug. 27.
Period of record: Maximum discharge, 2,610 ft³/s (73.9 m³/s) Apr. 2, 1970, gage height, 12.22 ft (3.725 m); minimum, 0.08 ft³/s (0.002 m³/s) Sept. 24, 25, 1970.

REMARKS.--Records poor. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	78	171	113	110	87	295	36	133	37	4.5	535
2	225	60	137	80	102	102	1,240	40	84	33	4.5	381
3	197	42	108	66	87	113	691	115	53	30	4.5	480
4	147	30	106	56	75	89	1,040	77	35	27	8.2	439
5	203	27	205	50	62	84	339	55	28	25	5.0	231
6	173	22	157	45	159	74	205	48	26	23	3.0	133
7	108	22	110	42	509	66	161	40	27	21	2.8	84
8	72	21	87	40	201	58	561	38	26	19	2.6	60
9	56	19	72	46	129	52	467	48	26	18	2.4	37
10	47	17	60	62	99	47	230	39	19	16	2.3	33
11	38	16	54	80	81	44	159	35	18	15	2.4	29
12	31	16	56	60	75	46	127	43	18	14	2.6	45
13	27	16	60	52	95	40	101	35	17	13	3.3	115
14	25	19	56	60	97	38	91	30	17	12	3.5	258
15	18	38	50	402	81	39	78	30	21	11	3.5	139
16	17	106	45	495	77	92	60	23	18	10	7.1	97
17	13	62	40	285	69	86	51	43	17	9.2	47	64
18	11	48	35	260	62	65	47	135	17	8.8	9.0	56
19	10	40	31	474	95	59	44	102	16	8.2	4.8	49
20	10	33	235	360	133	48	43	72	16	11	3.5	28
21	10	34	235	691	99	84	43	55	18	8.0	2.3	45
22	8.9	30	127	321	228	83	43	46	399	6.8	2.0	37
23	8.9	25	91	442	159	69	43	44	1,920	6.0	2.4	99
24	9.6	62	75	295	115	62	42	56	792	5.6	2.1	23
25	8.2	1,160	177	193	83	49	42	39	200	5.2	1.7	22
26	7.6	873	396	191	62	59	42	26	110	4.8	1.4	21
27	8.2	820	516	348	63	75	40	20	84	5.0	1.2	19
28	8.2	1,370	273	253	89	71	40	15	64	5.4	3.8	31
29	8.9	712	260	250	-----	123	39	23	50	5.0	102	76
30	17	268	250	173	-----	495	39	48	42	4.8	181	50
31	22	-----	159	137	-----	488	-----	43	-----	4.6	75	-----
TOTAL	1,644.5	6,086	4,434	6,422	3,296	2,987	6,443	1,499	4,311	422.4	501.4	3,716
MEAN	53.0	203	143	207	118	96.4	215	48.4	144	13.6	16.2	124
MAX	225	1,370	516	691	509	495	1,240	135	1,920	37	181	535
MIN	7.6	16	31	40	62	38	39	15	16	4.6	1.2	19
CFSM	.68	2.61	1.84	2.66	1.52	1.24	2.76	.62	1.85	.17	.21	1.59
IN.	.79	2.91	2.12	3.07	1.58	1.43	3.08	.72	2.06	.20	.24	1.78

CAL YR 1973 TOTAL 41,390.6 MEAN 113 MAX 1,370 MIN 4.1 CFSM 1.45 IN 19.79
WTR YR 1974 TOTAL 41,762.3 MEAN 114 MAX 1,920 MIN 1.2 CFSM 1.47 IN 19.97

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1000	10.21	1,710	4- 2	0130	10.72	1,960
11-26	1530	8.99	1,190	4- 3	2100	10.25	1,730
11-28	0930	10.11	1,660	6-23	1000	11.65	2,420

LITTLE MIAMI RIVER BASIN

03242300 Caesar Creek at Harveysburg, Ohio

LOCATION.--Lat 39°30'27", long 84°00'42", Warren County, on right bank at downstream side of bridge on State Highway 73, 0.2 mi (0.3 km) north of Harveysburg, 2.3 mi (3.7 km) downstream from Turkey Run, and 3.1 mi (5.0 km) upstream from Jonahs Run.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 781.83 ft (238.302 m) above mean sea level. June 19 to Oct. 10, 1962, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--14 years, 210 ft³/s (5.947 m³/s), 13.64 in/yr (346.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,550 ft³/s (147 m³/s) July 23, gage height, 10.60 ft (3.231 m); minimum, 9.2 ft³/s (0.26 m³/s) Aug. 27, 28.

Period of record: Maximum discharge, 24,000 ft³/s (680 m³/s) May 24, 1968, gage height 18.70 ft (5.700 m), from rating curve extended above 5,200 ft³/s (147 m³/s) on basis of drainage area ratio comparisons with three nearby stations; no flow all or part of each day Sept. 9-18, Oct. 17, 18, 1964.

Flood of Jan. 21, 1959 reached a stage of 20.5 ft (6.25 m), from floodmark, discharge, 26,000 ft³/s (736 m³/s), from rating curve extended above 12,000 ft³/s (340 m³/s).

REMARKS.--Records fair. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee 20.5 mi (33.0 km) upstream, drainage area 10.9 mi² (28.2 km²). Summer storage is about 1,100 acre-ft (1.36 hm³) more than winter. Intermittent pumpage, upstream from gage, for local irrigation. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	186	480	329	313	261	635	181	214	146	12	1,210
2	559	167	390	283	295	265	2,940	146	161	124	12	933
3	457	117	336	250	261	298	1,360	326	110	103	12	1,130
4	438	87	319	220	220	258	3,110	237	85	87	52	1,060
5	577	79	461	200	186	244	970	175	68	77	38	476
6	342	73	379	180	323	230	603	153	63	115	23	326
7	251	73	295	160	1,420	240	445	131	63	83	16	240
8	178	65	254	150	521	217	1,570	115	63	72	14	164
9	141	63	230	195	355	227	1,470	138	60	66	13	115
10	117	55	211	233	283	198	684	124	49	61	13	94
11	96	49	190	304	240	167	430	110	45	94	13	85
12	83	47	180	261	217	167	355	129	43	83	14	136
13	72	47	170	220	251	148	295	122	40	79	13	207
14	73	47	180	200	268	131	265	103	37	77	12	542
15	66	186	200	882	230	127	286	105	40	73	12	316
16	58	397	180	1,270	211	220	211	96	49	47	13	211
17	54	268	170	719	198	211	183	146	38	32	96	159
18	48	211	160	608	178	167	169	542	35	25	45	127
19	44	178	150	1,110	230	153	156	310	30	22	41	103
20	43	148	476	857	355	134	138	186	29	31	17	89
21	41	136	585	1,810	283	211	131	148	44	21	13	100
22	37	127	480	803	521	230	143	127	657	17	11	96
23	35	110	360	1,150	419	183	186	124	4,860	16	10	75
24	35	286	280	808	313	167	146	230	1,640	15	17	65
25	33	2,700	240	521	251	141	117	161	697	14	13	58
26	30	1,970	500	468	211	153	110	127	640	13	11	72
27	30	1,620	1,070	1,050	207	178	107	107	426	13	9.5	52
28	30	2,730	622	649	258	181	105	87	292	15	28	107
29	31	1,360	585	631	-----	233	103	105	223	14	298	342
30	41	697	608	453	-----	1,060	115	178	172	13	488	240
31	52	-----	419	379	-----	1,200	-----	153	-----	13	223	-----
TOTAL	4,287	14,279	11,160	17,353	9,018	8,000	17,538	5,122	10,973	1,661	1,602.5	8,930
MEAN	138	476	360	560	322	258	585	165	366	53.6	51.7	298
MAX	577	2,730	1,070	1,810	1,420	1,200	3,110	542	4,860	146	488	1,210
MIN	30	47	150	150	178	127	103	87	29	13	9.5	52
CFSM	.66	2.28	1.72	2.68	1.54	1.23	2.80	.79	1.75	.26	.25	1.43
IN.	.76	2.54	1.99	3.09	1.61	1.42	3.12	.91	1.95	.30	.29	1.59

CAL YR 1973 TOTAL 117,156.0 MEAN 321 MAX 3,730 MIN 12 CFSM 1.54 IN 20.85
WTR YR 1974 TOTAL 109,923.5 MEAN 301 MAX 4,860 MIN 9.5 CFSM 1.44 IN 19.57

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1130	9.14	4,110	4- 2	0500	9.63	4,550	4- 8	1830	7.91	3,080
11-28	0530	8.05	3,190	4- 4	0630	9.11	4,080	6-23	0830	10.60	5,550

03242350 Caesar Creek near Wellman, Ohio

LOCATION.--Lat 39°28'57", long 84°03'52", Warren County, on downstream side of bridge on O'Neill Road, 0.5 mi (0.8 km) downstream from Flat Fork, 1.6 mi (2.6 km) west of Wellman, 2.8 mi (4.5 km) upstream from mouth, and 3.2 mi (5.1 km) southwest of Harveysburg.

DRAINAGE AREA.--239 mi² (619 km²).

PERIOD OF RECORD.--July 1965 to June 1974 (discontinued).

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 730.93 ft (28 m) (revised) above mean sea level.

AVERAGE DISCHARGE.--8 years (1966-73), 235 ft³/s (6.655 m³/s), 13.35 in/yr (339.1 mm/yr).

EXTREMES.--For the period Oct. 1 to June 30: Maximum discharge, 3,050 ft³/s (86.4 m³/s) June 24, gage height, 11.49 ft (3.502 m); minimum observed discharge, 30 ft³/s (0.85 m³/s) June 15.

Period of record: Maximum discharge, 25,000 ft³/s (708 m³/s) May 24, 1968, gage height, 21.7 ft (6.61 m), from rating curve extended above 4,700 ft³/s (133 m³/s) on the basis of slope-conveyance study; minimum, 0.50 ft³/s (0.014 m³/s) Aug. 24, 1965, gage height, 3.88 ft (1.183 m).

Flood of Jan. 21, 1959 reached a stage of 24.03 ft (7.324 m), from information by Ohio Division of Water, discharge, about 29,000 ft³/s (821 m³/s), from flood study.

REMARKS.--Records fair. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee 26 mi (42 km) upstream, drainage area 10.9 mi² (28.2 km²). Summer Storage is about 1,100 acre-ft (1.36 hm³) more than winter. Also some regulation by unfinished Caesar Creek Lake. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	203	562	360	343	289	788	173	370			
2	776	213	433	308	311	301	2,170	124	154			
3	503	126	363	308	275	314	2,240	399	98			
4	330	112	317	240	241	284	2,530	253	77			
5	831	82	499	211	195	261	2,190	164	62			
6	367	82	425	198	221	250	923	136	57			
7	255	70	301	180	1,530	224	662	121	54			
8	176	67	266	170	689	198	700	107	57			
9	141	72	244	178	275	195	1,870	139	55			
10	116	66	221	220	292	193	1,100	114	49			
11	102	63	180	270	269	169	552	109	47			
12	87	60	160	250	219	188	425	132	44			
13	78	58	190	224	278	154	330	107	38			
14	83	58	255	210	298	130	304	107	32			
15	74	250	180	1,000	255	143	320	109	34			
16	65	370	169	1,400	221	269	230	107	44			
17	62	295	143	1,070	203	255	193	227	38			
18	57	208	145	640	221	130	164	729	35			
19	55	176	130	1,390	247	160	147	275	34			
20	52	126	684	1,230	425	143	136	169	32			
21	53	136	746	2,010	304	241	126	119	83			
22	47	132	314	1,160	764	275	128	109	116			
23	47	112	284	1,260	381	193	219	109	2,570			
24	54	180	238	1,240	339	176	143	213	2,910			
25	45	2,120	339	656	255	154	128	137	2,340			
26	41	2,430	863	499	164	169	107	98	1,220			
27	44	2,340	1,420	1,450	221	193	102	77	478			
28	44	2,450	794	770	289	188	85	74	289			
29	43	2,180	729	857	-----	176	90	70	230			
30	53	1,110	825	557	-----	971	82	158	180			
31	54	-----	500	437	-----	1,360	-----	128	-----			
TOTAL	4,928	15,947	12,919	20,953	9,725	8,346	19,184	5,093	11,827			
MEAN	159	532	417	676	347	269	639	164	394			
MAX	831	2,450	1,420	2,010	1,530	1,360	2,530	729	2,910			
MIN	41	58	130	170	164	130	82	70	32			
CFSM	.67	2.23	1.74	2.83	1.45	1.13	2.67	.69	1.65			
IN.	.77	2.48	2.01	3.26	1.51	1.30	2.99	.79	1.84			

CAL YR 1973 TOTAL 128,478 MEAN 352 MAX 3,440 MIN 29 CFSM 1.47 IN 20.00

LITTLE MIAMI RIVER BASIN

03244000 Todd Fork near Roachester, Ohio

LOCATION.--Lat 39°20'07", long 84°05'12", Warren County, on right bank at downstream side of bridge on State Highway 123, 0.3 mi (0.5 km) downstream from Lick Run, 1.6 mi (2.6 km) southeast of Roachester, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--219 mi² (567 km²).

PERIOD OF RECORD.--September 1952 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 679.40 ft (207.081 m) above mean sea level.

AVERAGE DISCHARGE.--22 years, 224 ft³/s (6.344 m³/s).

EXTREMES.--Current year: Maximum discharge, 17,500 ft³/s (496 m³/s) June 23, gage height, 18.25 ft (5.563 m); minimum, 4.6 ft³/s (0.13 m³/s) Oct. 1.

Period of record: Maximum discharge, 25,500 ft³/s (722 m³/s) Jan. 21, 1959, gage height, 19.50 ft (5.944 m), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of contracted-opening measurement of peak flow; no flow for all or part of each day Sept. 1, 2, 1953, Sept. 6-17, 1964.

REMARKS.--Records good. Some regulation by Cowan Lake on Cowan Creek, 17.2 mi (27.7 km) upstream, capacity, 12,000 acre-ft (14.8 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1435: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490	194	381	340	478	354	710	162	1,260	164	9.5	2,230
2	845	142	276	290	306	506	3,310	168	494	130	9.1	818
3	372	93	230	260	270	267	1,210	610	276	106	11	1,050
4	498	69	236	230	200	214	3,310	279	194	91	13	980
5	1,100	58	650	210	118	264	890	180	148	80	17	410
6	454	54	414	190	136	236	558	139	124	75	12	220
7	232	44	270	170	1,310	204	390	113	124	67	9.9	142
8	158	40	240	150	357	182	1,670	100	168	58	9.1	104
9	112	40	230	140	214	158	1,310	164	122	51	8.6	80
10	83	39	220	176	150	146	638	130	95	49	144	67
11	64	35	210	273	130	146	410	110	76	46	56	65
12	52	32	240	160	120	210	309	160	79	46	50	124
13	46	30	282	118	140	156	246	130	68	39	26	144
14	44	30	363	122	160	125	208	99	56	34	18	562
15	42	35	306	915	139	116	172	91	53	31	14	228
16	35	178	282	1,050	125	734	150	93	73	30	12	140
17	29	150	250	774	118	402	130	125	65	28	19	103
18	26	124	230	790	104	273	115	826	55	25	42	81
19	23	73	220	1,560	208	212	106	454	45	22	23	67
20	21	49	1,270	794	336	172	99	282	42	240	15	60
21	20	45	698	2,060	186	372	91	180	558	58	11	76
22	20	49	336	840	686	318	119	139	2,420	33	8.2	70
23	20	43	261	1,410	360	218	214	152	11,700	25	7.5	57
24	19	156	234	895	212	198	133	168	1,570	21	7.9	49
25	18	3,300	598	638	168	186	106	128	770	20	7.5	43
26	17	2,510	995	690	136	198	93	97	1,220	18	9.1	38
27	16	2,710	1,340	1,510	140	208	87	84	558	16	6.8	37
28	18	5,010	538	895	202	192	83	73	418	15	40	41
29	22	1,200	822	940	-----	194	79	130	315	13	156	84
30	28	602	758	686	-----	1,290	84	418	206	12	682	83
31	47	-----	400	606	-----	1,600	-----	1,840	-----	10	204	-----
TOTAL	4,971	17,134	13,780	19,882	7,209	10,051	17,030	7,824	23,352	1,653	1,658.2	8,253
MEAN	160	571	445	641	257	324	568	252	778	53.3	53.5	275
MAX	1,100	5,010	1,340	2,060	1,310	1,600	3,310	1,840	11,700	240	682	2,230
MIN	16	30	210	118	104	116	79	73	42	10	6.8	37

CAL YR 1973 TOTAL 130,206.6 MEAN 357 MAX 5,010 MIN 4.1
WTR YR 1974 TOTAL 132,797.2 MEAN 364 MAX 11,700 MIN 6.8

PEAK DISCHARGE (BASE, 4,300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1245	12.73	5,390	4-2	0600	13.60	6,580	5-31	1800	12.03	4,500
11-28	0530	13.95	7,070	4-4	0145	12.38	4,930	6-23	0500	18.25	17,500

03245500 Little Miami River at Milford, Ohio

LOCATION.--Lat 39°10'17", long 84°17'53", Clermont County, on right bank 500 ft (152 m) downstream from Wooster Pike Bridge on U.S. Highway 50 in Milford, 1.2 mi (1.9 km) upstream from East Fork, and 6.4 mi (10.3 km) downstream from North Branch Creek.

DRAINAGE AREA.--1,203 mi² (3,116 km²).

PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), March 1925 to September 1936, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Miamiville" 1915-20.

GAGE.--Water-stage recorder. Datum of gage is 499.35 ft (152.202 m) above mean sea level, adjustment of 1912. June 22, 1915, to May 14, 1920, nonrecording gage at site 4 mi (6 km) upstream at different datum. Mar. 11, 1925, to Aug. 16, 1928, nonrecording gage at bridge 500 ft (152 m) upstream at datum 0.72 ft (0.219 m) higher.

AVERAGE DISCHARGE.--49 years, (1915-17, 1925-36, 1938-74), 1,225 ft³/s (34.69 m³/s), 13.83 in/yr (351.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 41,000 ft³/s (1,160 m³/s) June 23, gage height, 14.97 ft (4.563 m); minimum, 188 ft³/s (5.32 m³/s) Aug. 27.

Period of record: Maximum discharge, 84,100 ft³/s (2,380 m³/s) Jan. 22, 1959, gage height, 22.30 ft (6.797 m), from rating curve extended above 60,000 ft³/s (1,700 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 27 ft³/s (0.76 m³/s) Sept. 18, 1954.

Flood in March 1913 reached a stage of 25.5 ft (7.77 m), present datum, from information by Corps of Engineers.

REMARKS.--Records good. Some regulation since 1948 by Cowan Lake, capacity, 12,000 acre-ft (14.8 hm³), 45 mi (72 km) upstream on Cowan Creek, tributary to Todd Fork, and Caesar Creek Reservoir capacity 242,200 acre-ft (298.6 hm³) 41.3 mi (66.4 km) upstream on Caesar Creek. Annual figures of runoff are considered to be within 10 percent of natural yield. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 728: 1931. WSP 743: 1932. WSP 873: 1925-36. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,290	950	2,300	1,920	2,080	1,590	4,210	1,220	4,130	903	214	3,380
2	5,990	926	1,950	1,510	1,730	2,120	13,600	1,220	1,630	767	201	4,600
3	2,140	653	1,710	1,460	1,610	1,760	10,100	2,970	1,060	673	217	3,960
4	2,010	497	1,600	1,360	1,390	1,460	15,800	1,790	804	590	241	4,700
5	5,390	445	1,940	1,230	1,180	1,430	9,430	1,200	679	540	268	2,440
6	2,010	435	2,010	1,170	1,160	1,470	5,740	990	627	509	255	1,330
7	1,220	403	1,550	1,130	6,390	1,330	3,190	856	577	522	224	990
8	918	398	1,310	1,020	3,470	1,240	7,080	767	596	462	211	753
9	726	398	1,200	934	2,040	1,290	9,430	1,090	621	421	217	608
10	602	393	1,130	1,200	1,550	1,130	6,040	1,020	540	451	224	522
11	486	363	1,090	1,770	1,360	1,580	3,430	811	431	515	393	462
12	435	355	1,020	1,470	1,230	1,950	2,590	826	398	774	295	1,220
13	398	355	1,060	1,040	1,250	1,290	2,170	966	393	552	306	2,060
14	412	348	1,510	1,020	1,330	1,010	1,850	746	363	412	241	3,320
15	440	336	1,260	3,000	1,250	934	1,670	653	359	375	217	1,880
16	389	1,190	1,120	6,580	1,120	2,570	1,480	615	407	367	228	1,180
17	355	1,220	990	4,800	1,060	1,770	1,310	760	384	332	285	864
18	325	895	895	3,780	997	1,310	1,200	4,230	355	306	412	699
19	317	726	864	6,730	1,200	1,140	1,120	2,930	336	295	336	590
20	310	615	3,850	5,520	2,170	1,040	1,040	2,130	332	384	325	782
21	282	565	4,130	8,280	1,690	1,660	966	1,170	456	407	268	926
22	282	546	2,050	5,650	3,220	1,900	1,240	910	6,130	295	224	673
23	282	522	1,510	6,080	2,790	1,340	1,820	856	31,300	285	204	534
24	282	1,040	1,280	5,740	1,840	1,210	1,280	879	9,180	258	204	462
25	282	12,800	1,930	3,490	1,480	1,190	1,030	966	4,980	262	252	412
26	265	9,060	3,860	2,800	1,240	1,180	910	746	4,210	248	214	384
27	248	14,200	6,200	6,650	1,190	1,170	849	640	2,400	241	201	380
28	248	20,900	3,800	4,580	1,330	1,150	789	577	1,630	234	706	380
29	255	5,920	3,350	4,290	-----	1,230	739	910	1,490	224	1,020	2,080
30	348	2,970	3,990	3,030	-----	3,980	760	1,600	1,110	214	3,040	1,910
31	355	-----	2,420	2,460	-----	7,500	-----	5,170	-----	214	1,670	-----
TOTAL	30,292	80,424	64,879	101,694	50,347	52,924	112,863	42,214	77,908	13,032	13,313	44,481
MEAN	977	2,681	2,093	3,280	1,798	1,707	3,762	1,362	2,597	420	429	1,483
MAX	5,990	20,900	6,200	8,280	6,390	7,500	15,800	5,170	31,300	903	3,040	4,700
MIN	248	336	864	934	997	934	739	577	332	214	201	380
CFSM	.81	2.23	1.74	2.73	1.49	1.42	3.13	1.13	2.16	.35	.36	1.23
IN.	.94	2.49	2.01	3.14	1.56	1.64	3.49	1.31	2.41	.40	.41	1.38

CAL YR 1973 TOTAL 806,044 MEAN 2,208 MAX 20,900 MIN 214 CFSM 1.84 IN 24.93
WTR YR 1974 TOTAL 684,371 MEAN 1,875 MAX 31,300 MIN 201 CFSM 1.56 IN 21.16

PEAK DISCHARGE (BASE, 15,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1000	8.45	19,100	4-04	0800	8.46	19,200
11-28	1230	9.51	23,100	6-23	0800	14.97	41,000
4-02	0700	8.30	18,500				

03246500 East Fork Little Miami River at Williamsburg, Ohio

LOCATION.--Lat 39°03'09", long 84°03'02", Clermont County, on right bank at downstream side of Main Street Bridge in Williamsburg, 1.1 mi (1.8 km) upstream from Todd Run, and 2.4 mi (3.9 km) downstream from Crane Run.

DRAINAGE AREA.--237 mi² (614 km²).

PERIOD OF RECORD.--March 1949 to September 1953, July 1960 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 784.09 ft (238.991 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 277 ft³/s (7.845 m³/s), 15.87 in/yr (403.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,700 ft³/s (331 m³/s) Nov. 28, gage height, 11.42 ft (3.481 m); minimum, 3.8 ft³/s (0.11 m³/s) Aug. 26, 27.

Period of record: Maximum discharge, 19,800 ft³/s (561 m³/s) Mar. 10, 1964, gage height, 15.23 ft (4.642 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of contracted-opening measurement of peak flow; no flow for many days in 1951, 1953, 1963-65.

Flood in January 1959 reached a stage of 12.2 ft (3.72 m), from information by local resident, discharge, 14,000 ft³/s (396 m³/s).

REMARKS.--Records good except those for period of no gage height record, which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	219	270	250	215	219	501	93	2,300	75	6.3	1,560
2	2,620	187	204	170	190	793	1,590	152	840	58	6.0	1,710
3	604	123	170	150	170	543	594	886	320	50	7.4	1,040
4	204	83	183	130	150	270	2,950	454	190	42	8.8	1,170
5	530	69	643	120	133	187	609	187	120	36	7.8	419
6	329	67	489	100	128	276	299	118	92	35	6.3	190
7	133	61	252	90	747	623	234	89	72	113	5.7	116
8	81	56	174	84	422	392	1,450	71	76	102	13	83
9	59	58	147	110	204	197	1,810	67	68	34	26	64
10	47	56	133	543	140	133	422	67	60	29	22	58
11	38	53	123	1,500	120	599	261	62	52	29	19	50
12	31	52	109	539	110	1,090	193	54	44	23	15	116
13	29	41	121	261	110	382	158	49	40	19	13	395
14	35	26	432	193	139	193	136	47	36	17	13	752
15	33	136	319	1,260	128	158	116	42	32	16	11	339
16	26	539	193	2,020	102	2,070	102	37	33	14	9.8	152
17	26	270	141	1,150	87	609	77	35	33	13	13	95
18	23	116	110	825	83	302	64	33	30	12	19	67
19	20	79	94	2,900	113	230	59	1,200	28	35	46	54
20	18	66	1,250	1,330	319	190	54	700	25	211	23	46
21	16	64	1,660	2,840	215	395	50	240	23	45	16	45
22	15	69	372	914	548	530	52	130	25	43	13	59
23	15	66	242	1,330	562	238	208	90	600	29	9.2	85
24	14	121	190	1,310	242	190	193	88	3,500	19	7.0	66
25	14	4,430	485	412	155	226	98	94	1,000	14	5.3	46
26	14	4,300	1,900	312	100	270	71	74	400	12	4.5	36
27	14	4,590	3,040	799	100	270	59	60	290	9.8	4.0	31
28	15	9,820	552	683	150	183	52	48	220	8.8	436	28
29	15	2,160	893	1,090	-----	279	46	42	150	7.8	2,130	30
30	24	395	1,500	395	-----	2,330	45	38	100	7.0	5,200	29
31	40	-----	379	279	-----	1,660	-----	2,700	-----	6.6	886	-----
TOTAL	5,445	28,372	16,770	24,089	5,882	16,027	12,553	8,047	10,799	1,165.0	9,002.1	8,931
MEAN	176	946	541	777	210	517	418	260	360	37.6	290	298
MAX	2,620	9,820	3,040	2,900	747	2,330	2,950	2,700	3,500	211	5,200	1,710
MIN	14	26	94	84	83	133	45	33	23	6.6	4.0	28
CFSM	.74	3.99	2.28	3.28	.89	2.18	1.76	1.10	1.52	.16	1.22	1.26
IN.	.85	4.45	2.63	3.78	.92	2.52	1.97	1.26	1.70	.18	1.41	1.40

CAL YR 1973 TOTAL 154,723.0 MEAN 424 MAX 9,820 MIN 3.5
WTR YR 1974 TOTAL 147,082.1 MEAN 403 MAX 9,820 MIN 4.0

PEAK DISCHARGE (BASE, 4,500 FT³/S)

Note: No gage height record May 16 to July 3.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	0300	11.42	11,700	6-23	unknown	unknown	about 2,000
12-27	0300	7.72	4,810	8-30	0700	10.23	8,960

LITTLE MIAMI RIVER BASIN

03247050 East Fork Little Miami River near Batavia, Ohio

LOCATION.--Lat 39°03'36", long 84°10'32", Clermont County, on right bank on Elk Lick Road, 230 ft (70 m) upstream from unnamed right bank tributary, 1,400 ft (427 m) upstream from Lucy Run, and 1.3 mi (2.1 km) south of Batavia.

DRAINAGE AREA.--352 mi² (912 km²), includes that of unnamed tributary.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 571.68 ft (174.248 m) above mean sea level. Prior to July 17, 1968, nonrecording gage 1,100 ft (335 m) downstream at same datum.

AVERAGE DISCHARGE.--9 years, 415 ft³/s (11.75 m³/s), 16.01 in/yr (406.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 31,000 ft³/s (878 m³/s) Aug. 30 (gage height, 20.80 ft (6.400 m) in gage well, 21.8 ft (6.645 m) from floodmarks) result of failure of cofferdam at East Fork damsite; minimum, 1.4 ft³/s (0.040 m³/s) Aug. 27.

Period of record: Maximum discharge, 28,700 ft³/s (813 m³/s) Apr. 2, 1970 gage height, 20.31 ft (6.190 m); minimum, 0.14 ft³/s (0.004 m³/s) Sept. 23, 27, 1967. Maximum discharge since start of construction of East Fork Dam 31,000 ft³/s (878 m³/s) Aug. 30, 1974, gage height, 20.80 ft (6.400 m) gage well, 21.8 ft (6.645 m) from floodmarks, result of failure of cofferdam.

Flood in March 1964 reached a stage of 21.46 ft (6.541 m) at site 1,100 ft (335 m) downstream from information by local resident, discharge, about 32,000 ft³/s (906 m³/s), from flood study.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,810	444	437	409	350	357	951	82	4,660	101	3.9	2,380
2	3,620	294	305	260	290	1,340	2,150	189	1,010	82	3.2	2,620
3	1,450	181	241	220	250	1,070	1,220	787	402	64	5.1	1,670
4	357	123	246	200	230	513	3,690	824	241	56	8.5	2,020
5	310	101	824	190	210	339	1,220	299	181	47	12	984
6	573	103	926	170	210	894	555	178	134	47	8.5	416
7	228	90	389	161	967	1,030	395	134	113	120	5.5	264
8	167	79	250	148	886	870	1,920	113	118	582	17	164
9	103	79	200	305	369	409	2,780	113	103	118	43	99
10	75	79	164	1,790	250	260	817	106	84	54	48	90
11	61	75	161	2,970	212	1,520	444	103	71	59	46	88
12	50	69	142	1,230	196	2,470	310	99	64	44	46	110
13	44	67	145	625	192	951	246	86	53	23	30	1,110
14	61	54	409	357	204	423	208	79	44	15	18	3,260
15	66	321	555	1,310	208	299	171	79	48	13	11	1,400
16	51	1,770	289	2,790	174	3,430	148	71	46	11	8.5	333
17	34	474	200	1,540	148	1,300	134	64	38	9.0	30	200
18	27	204	148	1,130	136	564	108	321	30	7.1	62	125
19	26	134	136	2,920	189	395	99	1,120	30	14	41	92
20	19	106	1,920	2,050	522	305	92	863	27	2,650	66	79
21	16	99	2,530	3,800	402	600	86	402	23	305	36	131
22	13	123	926	1,790	910	910	90	212	27	110	17	246
23	11	108	389	1,700	1,040	437	299	161	5,190	79	8.5	115
24	11	123	299	2,020	466	316	376	161	3,720	57	6.6	113
25	11	6,220	600	795	284	363	171	178	659	38	3.9	82
26	11	7,790	2,130	555	208	395	120	123	489	20	2.0	62
27	10	6,970	4,080	1,170	204	409	99	95	474	13	3.7	51
28	12	12,100	992	1,420	305	310	88	66	260	9.6	15	47
29	13	3,890	1,280	1,630	-----	299	82	64	181	7.5	950	44
30	21	760	2,070	787	-----	2,940	77	1,040	131	5.8	10,000	44
31	77	-----	704	497	-----	2,380	-----	4,230	-----	4.8	2,050	-----
TOTAL	9,338	43,030	24,087	36,939	10,012	28,098	19,146	12,442	18,651	4,765.8	13,605.9	18,439
MEAN	301	1,434	777	1,192	358	906	638	401	622	154	439	615
MAX	3,620	12,100	4,080	3,800	1,040	3,430	3,690	4,230	5,190	2,650	10,000	3,260
MIN	10	54	136	148	136	260	77	64	23	4.8	2.0	44
CFSM	.86	4.07	2.21	3.39	1.02	2.57	1.81	1.14	1.77	.44	1.25	1.75
IN.	.99	4.55	2.55	3.90	1.06	2.97	2.02	1.31	1.97	.50	1.44	1.95

CAL YR 1973 TOTAL 227,855.6 MEAN 624 MAX 12,100 MIN 3.1 CFSM 1.77 IN 24.08
WTR YR 1974 TOTAL 238,553.7 MEAN 654 MAX 12,100 MIN 2.0 CFSM 1.86 IN 25.21

03247500 East Fork Little Miami River at Perintown, Ohio

LOCATION.--Lat 39°08'13", long 84°14'17", Clermont County, on left bank at downstream side of highway bridge at Perintown, 0.2 mi (0.3 km) downstream from Sugarcamp Run, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--476 mi² (1,233 km²).

PERIOD OF RECORD.--May 1915 to September 1917, October 1917 to May 1920 (gage heights only), January 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 507.03 ft (154.543 m) above mean sea level. Prior to Feb. 6, 1940, nonrecording gage, at same site and datum.

AVERAGE DISCHARGE.--51 years (1915-17, 1925-74), 543 ft³/s (15.38 m³/s), 15.49 in/yr (393.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,200 ft³/s (657 m³/s) Aug. 30, gage height, 19.52 ft (5.950 m), result of failure of coffer dam at East Fork Damsite; minimum, 14 ft³/s (0.40 m³/s) Aug. 27.

Period of record: Maximum discharge, 42,400 ft³/s (1,200 m³/s) Mar. 10, 1964, gage height, 23.84 ft (7.266 m); minimum, 0.3 ft³/s (0.008 m³/s) July 24, 1930; minimum gage height, -0.18 ft (-0.055 m) Oct. 3-7, 1917. Maximum discharge since start of construction of East Fork Dam 23,200 ft³/s (657 m³/s) Aug. 30, 1974, gage height, 19.52 ft (5.950 m), result of failure of coffer dam.

REMARKS.--Records good. Occasional regulation by Stonelick Lake on Stonelick Creek 14 mi (23 km) upstream. Surface area at spillway level, 171 acres (69 km²). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1938. WSP 973: 1933(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,520	692	582	574	432	414	1,190	190	5,210	134	18	2,200
2	7,420	447	428	361	380	1,630	2,840	443	1,270	110	18	2,790
3	1,810	253	343	330	350	1,240	1,530	1,320	499	93	20	1,920
4	641	173	374	290	320	600	4,270	1,010	318	76	25	2,310
5	841	143	1,120	260	294	418	1,580	400	229	66	25	996
6	770	139	1,130	240	274	754	694	244	192	59	24	464
7	332	123	548	220	1,070	1,360	500	177	154	104	21	293
8	264	105	374	200	1,050	1,060	2,810	150	164	420	29	226
9	173	102	308	302	446	504	3,570	152	187	173	37	167
10	130	102	263	1,900	299	337	1,040	137	158	100	44	132
11	104	96	247	3,640	258	1,710	570	130	114	107	49	136
12	87	90	226	1,460	239	3,530	407	128	97	66	49	344
13	75	84	231	626	234	1,280	331	113	83	44	36	969
14	89	79	540	435	244	561	285	97	69	36	31	3,430
15	97	264	690	1,650	250	390	242	95	69	31	25	1,430
16	79	2,320	407	3,290	219	3,910	214	89	70	28	23	403
17	65	710	296	1,870	188	1,680	190	103	62	25	31	267
18	56	328	221	1,560	171	677	160	681	55	23	50	194
19	54	211	211	3,600	260	484	145	1,500	49	23	46	150
20	50	165	2,670	2,550	613	384	134	1,090	51	2,250	44	123
21	47	152	3,130	4,400	500	772	125	496	49	353	43	112
22	44	181	865	2,230	1,250	1,070	137	260	1,060	134	31	287
23	43	169	496	2,270	1,230	553	337	209	5,880	91	24	167
24	41	248	418	2,500	574	407	407	173	3,910	69	24	146
25	39	7,830	813	938	355	446	239	184	656	50	21	123
26	38	8,200	2,450	715	269	496	168	139	450	37	17	95
27	37	7,340	4,610	1,700	263	484	135	110	407	31	15	78
28	38	13,600	1,350	1,710	384	387	120	92	293	26	685	70
29	38	4,420	1,660	2,030	-----	346	108	75	218	23	2,680	72
30	47	943	2,680	932	-----	3,240	110	917	171	21	10,700	69
31	78	-----	959	582	-----	2,970	-----	5,760	-----	21	2,240	-----
TOTAL	18,147	49,709	30,640	45,365	12,416	34,094	24,588	16,664	22,194	4,824	17,125	20,163
MEAN	585	1,657	988	1,463	443	1,100	820	538	740	156	552	672
MAX	7,420	13,600	4,610	4,400	1,250	3,910	4,270	5,760	5,880	2,250	10,700	3,430
MIN	37	79	211	200	171	337	108	75	49	21	15	69
CFSM	1.23	3.48	2.08	3.07	.93	2.31	1.72	1.13	1.55	.33	1.16	1.41
IN.	1.42	3.88	2.39	3.55	.97	2.66	1.92	1.30	1.73	.38	1.34	1.58

CAL YR 1973 TOTAL 305,360 MEAN 837 MAX 13,600 MIN 23 CFSM 1.76 IN 23.86
WTR YR 1974 TOTAL 295,929 MEAN 811 MAX 13,600 MIN 15 CFSM 1.70 IN 23.13

MILL CREEK BASIN

03255500 Mill Creek at Reading, Ohio

LOCATION.--Lat 39°13'14", long 84°26'49", in sec.32, R.1, T.4, Hamilton County, on right bank at upstream side of Koehler Street Bridge at Reading, 1.0 mi (1.6 km) upstream from West Fork Mill Creek, and 13.0 mi (20.9 km) upstream from mouth.

DRAINAGE AREA.--73.0 mi² (189 km²).

PERIOD OF RECORD.--October 1938 to April 1939, June 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 527.00 ft (160.630 m) above mean sea level, Ohio River datum. Prior to Oct. 1, 1951, water-stage recorder or nonrecording gage at same site at datum 4.00 ft (1.219 m) higher. Oct. 1, 1951, to Apr. 25, 1954, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum discharge, 2,130 ft³/s (60.3 m³/s) Apr. 2, gage height, 11.03 ft (3.362 m); minimum, 7.7 ft³/s (0.22 m³/s) Oct. 21, 22.

Period of record: Maximum discharge, 5,780 ft³/s (164 m³/s) Mar. 6, 1945, gage height, 20.00 ft (6.096 m) present datum; no flow for days in 1940-41, 1944, 1951.

REMARKS.--Records good. Some diversion and ground water pumpage from Mill Creek and Great Miami River basin by industrial plants of the greater Cincinnati area upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	60	93	63	79	56	172	66	132	20	13	273
2	188	19	71	45	89	161	955	155	51	18	16	93
3	31	13	66	36	78	71	587	175	37	18	31	397
4	328	9.7	89	30	59	58	630	53	30	17	17	185
5	149	21	69	27	50	106	191	34	27	38	12	54
6	32	13	44	25	69	66	129	31	37	19	15	33
7	33	12	40	24	316	78	85	26	27	16	14	25
8	24	12	34	24	97	56	673	30	26	18	14	20
9	21	20	30	29	76	43	353	175	20	19	14	20
10	17	12	26	114	61	36	149	50	20	149	12	30
11	15	10	24	112	50	237	102	34	21	44	28	44
12	14	12	27	69	43	191	78	42	25	19	15	366
13	16	12	66	46	41	87	61	30	18	15	15	163
14	15	13	61	68	37	63	49	27	18	13	15	158
15	13	41	34	328	34	59	42	38	51	15	15	47
16	12	31	28	248	30	135	38	25	16	15	16	33
17	11	16	23	143	28	68	35	270	17	14	97	29
18	11	14	21	208	26	54	33	222	16	15	13	25
19	11	16	24	300	106	50	31	252	16	16	12	23
20	10	17	416	185	69	44	27	122	17	12	13	21
21	8.8	35	138	288	50	182	25	59	17	10	12	41
22	10	22	83	127	270	85	175	43	244	11	15	20
23	12	16	54	357	89	63	91	61	1,020	16	19	17
24	10	146	46	169	58	66	38	36	188	13	15	17
25	11	998	120	108	46	71	31	27	85	13	8.9	18
26	10	723	281	158	38	63	30	22	49	13	11	17
27	9.0	550	237	440	50	54	26	21	38	11	36	17
28	11	770	104	277	61	46	22	21	29	8.9	499	46
29	13	277	191	188	-----	76	23	191	25	11	244	530
30	24	149	118	114	-----	237	91	106	20	13	248	79
31	43	-----	79	89	-----	129	-----	550	-----	14	73	-----
TOTAL	1,371.8	4,059.7	2,737	4,439	2,100	2,791	4,972	2,994	2,337	643.9	1,577.9	2,841
MEAN	44.3	135	88.3	143	75.0	90.0	166	96.6	77.9	20.8	50.9	94.7
MAX	328	998	416	440	316	237	955	550	1,020	149	499	530
MIN	8.8	9.7	21	24	26	36	22	21	16	8.9	8.9	17

CAL YR 1973 TOTAL 41,578.5 MEAN 114 MAX 1,410 MIN 8.8
WTR YR 1974 TOTAL 32,864.3 MEAN 90.0 MAX 1,020 MIN 8.8

PEAK DISCHARGE (BASE, 1,700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	0830	10.67	1,950	6-22	2230	10.99	2,120
4-2	0130	11.03	2,130				

MILL CREEK BASIN

145

03256500 West Fork Mill Creek Lake near Greenhills, Ohio

LOCATION.--Lat 39°15'34", long 84°29'41", in SE 1/4 sec.17, T.3, R.1, Hamilton County, in gate house of dam on West Fork Mill Creek, 1.2 mi (1.9 km) east of Greenhills.

DRAINAGE AREA.--29.9 mi² (77.4 km²).

PERIOD OF RECORD.--April 1953 to current year. Prior to October 1971, published as West Fork Mill Creek Reservoir near Greenhills, Ohio.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) above mean sea level, adjustment of 1912 (levels by Corps of Engineers); gage readings have been adjusted to elevations above mean sea level.

EXTREMES.--Current year: Maximum contents, 3,150 acre-ft (3.88 hm³) June 23, elevation, 682.18 ft (207.928 m); minimum, 922 acre-ft (1.14 hm³) Dec. 27, elevation, 671.55 ft (204.688 m).

Period of record: Maximum contents, 9,680 acre-ft (11.9 hm³) Jan. 22, 1959, elevation, 698.95 ft (213.040 m); minimum, 729 acre-ft (899,000 m³) Feb. 26, 1964, elevation, 670.00 ft (204.216 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway; operation for flood control began Dec. 20, 1952; storage to maintain conservation pool began Apr. 19, 1953. Usable capacity 11,310 acre-ft (13.9 hm³) between elevations 655.0 ft (199.64 m), lowest outlet, and 702.0 ft (213.97 m), crest of spillway, of which 1,470 acre-ft (1.81 hm³) is in conservation pool. Dead storage below elevation 655.0 ft (199.64 m), 65 acre-ft (80,100 m³). Figures given herein represent useable contents. Reservoir is used for flood control and recreation. There are no gates on spillway and all regulation is done by gates in conduit through dam.

COOPERATION.--Water-stage recorder graph and capacity table furnished by Corps of Engineers.

REVISIONS.--WSP 1908: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	675.21	1,510	-
Oct. 31.....	675.63	1,590	+ 80
Nov. 30.....	675.27	1,520	- 70
Dec. 31.....	672.17	1,010	-510
CAL YR 1973.....	-	-	- 60
Jan. 31.....	673.61	1,230	+220
Feb. 28.....	675.20	1,500	+270
Mar. 31.....	675.35	1,530	+ 30
Apr. 30.....	675.69	1,600	+ 70
May 31.....	677.77	2,030	+430
June 30.....	675.10	1,490	-540
July 31.....	674.94	1,460	- 30
Aug. 31.....	675.16	1,500	+ 40
Sept. 30.....	675.25	1,510	+ 10
WTR YR 1974.....	-	-	0

MILL CREEK BASIN

03257500 West Fork Mill Creek at Woodlawn, Ohio

LOCATION.--Lat 39°15'14". long 84°28'13", in NE 1/4 sec.10, R. 1, T.3, Hamilton County, on left bank at upstream side of Riddle Road Bridge in Woodlawn, 0.5 mi (0.8 km) upstream from small left bank tributary, 1.9 mi (3.1 km) downstream from West Fork Mill Creek Dam, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--32.2 mi² (83.4 km²).

PERIOD OF RECORD.--December 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 570.00 ft (173.736 m) above mean sea level, adjustment of 1912 (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--21 years (1953-74), 31.2 ft³/s (0.884 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,070 ft³/s (30.3 m³/s) Apr. 9, gage height, 5.00 ft (1.524 m); minimum, 0.18 ft³/s (0.005 m³/s) Aug. 22.

Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Apr 4, 1956, gage height, 6.82 ft (2.079 m); no flow for many days in most years.

REMARKS.--Records good. Flow regulated by West Fork Mill Creek Reservoir 1.9 mi (3.1 km) upstream beginning 1953 (see station 03256500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	64	86	23	13	20	51	73	297	3.5	1.1	56
2	371	15	108	17	2.7	78	310	28	32	1.9	1.5	86
3	219	9.1	68	8.3	1.9	29	337	165	18	1.8	4.6	171
4	50	3.2	25	5.0	1.6	28	329	24	10	3.1	4.6	106
5	305	7.5	36	18	1.5	26	173	9.1	6.3	15	7.2	12
6	71	12	23	16	7.5	38	54	12	6.3	8.7	6.8	1.6
7	18	11	7.8	13	54	43	45	11	7.5	1.9	4.4	1.2
8	26	4.4	6.0	10	21	40	194	11	7.9	27	4.4	.77
9	12	8.7	13	13	21	25	441	16	7.2	39	3.8	.68
10	9.1	6.7	11	34	18	17	98	16	5.5	36	.86	4.6
11	4.4	6.3	1.0	81	14	96	44	21	4.2	12	5.8	10
12	2.9	3.7	2.1	25	14	256	30	23	6.3	1.9	9.1	206
13	3.4	3.7	21	17	14	47	20	22	8.3	1.5	4.9	45
14	7.8	3.9	28	21	14	43	20	13	4.4	1.3	4.2	139
15	9.1	8.7	13	126	14	31	17	7.9	24	1.6	1.3	23
16	3.4	34	13	116	12	75	14	9.1	32	1.1	1.3	8.7
17	2.1	24	7.8	64	7.1	36	7.2	22	14	.77	74	4.4
18	1.0	5.0	3.7	71	8.7	24	8.3	198	4.0	.60	12	3.1
19	.61	5.0	5.6	249	37	20	8.3	326	3.1	.68	7.2	3.1
20	.44	5.0	219	71	50	18	9.1	342	1.5	.86	2.1	3.1
21	.44	15	96	159	18	91	8.7	32	1.8	.60	.34	23
22	.52	34	26	41	131	36	71	25	34	.60	.34	17
23	.52	28	24	104	31	21	121	21	355	.77	2.7	1.1
24	.28	37	25	38	22	22	18	15	372	.68	2.3	.77
25	.21	234	37	24	22	29	6.3	9.1	40	.68	2.7	.60
26	.28	351	52	39	22	29	7.5	6.5	22	.77	.97	.60
27	.44	479	175	254	21	23	9.1	5.8	8.3	.86	.68	.60
28	.71	374	9.6	167	20	18	8.3	4.9	5.1	.97	108	15
29	.90	225	68	116	-----	18	8.7	20	4.2	.97	181	202
30	18	23	77	32	-----	43	20	106	3.8	.97	108	57
31	17	-----	27	30	-----	74	-----	185	-----	.86	3.8	-----
TOTAL	1,328.55	2,040.9	1,314.6	2,002.3	614.0	1,394	2,488.5	1,779.4	1,345.7	168.94	571.99	1,202.92
MEAN	42.9	68.0	42.4	64.6	21.9	45.0	83.0	57.4	44.9	5.45	18.5	40.1
MAX	371	479	219	254	131	256	441	342	372	39	181	206
MIN	.21	3.2	1.0	5.0	1.5	17	6.3	4.9	1.5	.60	.34	.60
CFSM	1.33	2.11	1.32	2.01	.68	1.40	2.58	1.78	1.39	.17	.57	1.25
IN.	1.53	2.36	1.52	2.31	.71	1.61	2.87	2.06	1.55	.20	.66	1.39

CAL YR 1973 TOTAL 18,569.73 MEAN 50.9 MAX 788 MIN .06 CFSM 1.58 IN 21.45
WTR YR 1974 TOTAL 16,251.80 MEAN 44.5 MAX 479 MIN .21 CFSM 1.38 IN 18.78

03259000 Mill Creek at Carthage, Ohio

LOCATION.--Lat 39°12'07", long 84°28'16", in SW 1/4 sec.1, R.1, T.3, Hamilton County, on right bank 100 ft (30 m) downstream from Anthony Wayne Avenue Bridge in Carthage, 1.0 mi (1.6 km) downstream from West Fork Mill Creek, and 11.0 mi (17.7 km) upstream from mouth.

DRAINAGE AREA.--115 mi² (298 km²).

PERIOD OF RECORD.--November 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 512.00 ft (156.058 m) above mean sea level, Ohio River datum. Prior to Oct. 1, 1954 at site 100 ft (30 m) upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 2,810 ft³/s (79.6 m³/s) June 22, gage height, 8.41 ft (2.563 m); minimum, 9.1 ft³/s (0.26 m³/s) July 28, 29.

Period of record: Maximum discharge, 8,900 ft³/s (252 m³/s) Jan. 21, 1959, gage height, 16.17 ft (4.929 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s) on basis of slope-area measurement of peak flow; no flow many days in 1947-48.

REMARKS.--Records good. Some inter-basin transfers of water between Mill Creek and Great Miami River basins by industrial and municipal operations. Flow regulated by West Fork Mill Reservoir, 6.9 mi (11.1 km) upstream, beginning 1953 (see station 03256500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	443	140	131	93	94	74	155	148	474	34	13	343
2	554	40	152	72	93	247	1,040	208	91	30	19	180
3	232	24	124	67	74	97	972	369	61	29	42	548
4	422	14	107	58	67	87	1,020	81	48	28	23	296
5	468	35	96	57	56	131	352	44	40	61	16	77
6	115	24	67	51	97	104	164	42	49	42	22	45
7	55	22	48	49	372	122	119	39	41	25	15	31
8	55	18	38	44	119	96	945	39	39	46	16	22
9	33	30	39	76	81	68	759	202	30	70	17	23
10	25	18	39	157	68	51	234	68	29	216	14	40
11	19	16	24	206	61	367	140	52	30	70	41	57
12	16	15	24	93	61	491	102	65	33	27	25	573
13	20	15	77	58	61	137	77	51	29	18	20	239
14	21	16	87	91	57	107	67	45	27	16	18	306
15	20	62	42	462	50	93	58	51	76	19	18	76
16	14	70	38	392	48	210	53	35	52	18	23	49
17	12	45	30	204	40	99	44	409	42	17	187	36
18	11	18	24	287	37	76	40	462	24	18	29	31
19	11	19	26	588	144	68	38	591	24	19	23	30
20	10	22	678	260	133	61	33	477	29	14	18	29
21	11	55	239	457	69	289	29	93	27	11	15	68
22	10	59	99	167	412	124	256	76	323	13	23	39
23	12	46	68	497	127	77	234	87	1,550	22	25	18
24	9.9	212	81	204	82	91	61	57	588	16	23	18
25	9.9	1,260	152	140	76	91	39	38	131	14	13	20
26	9.9	1,080	372	180	69	96	36	28	88	14	15	18
27	11	1,090	352	716	73	76	33	27	62	12	39	19
28	12	1,200	110	446	81	65	28	29	49	9.5	631	56
29	14	471	245	304	-----	90	30	283	40	11	407	727
30	39	133	196	144	-----	285	107	245	32	13	343	146
31	68	-----	113	124	-----	212	-----	823	-----	13	82	-----
TOTAL	2,762.7	6,269	3,918	6,744	2,802	4,282	7,265	5,264	4,158	955.5	2,215	4,160
MEAN	89.1	209	126	218	100	138	242	170	139	31.1	71.5	139
MAX	554	1,260	678	716	412	491	1,040	823	1,550	216	631	727
MIN	9.9	14	24	44	37	51	28	27	24	9.5	13	18

CAL YR 1973 TOTAL 62,315.7 MEAN 171 MAX 2,560 MIN 9.9
WTR YR 1974 TOTAL 50,805.2 MEAN 139 MAX 1,550 MIN 9.5

GREAT MIAMI RIVER BASIN

03260700 Bokengehalas Creek near De Graff, Ohio

LOCATION.--Lat 40°20'50", long 83°53'28", in E. 1/2 sec. 3, R. 14, T.2, Logan County, on right bank at downstream side of county road bridge, 2 mi (3 km) downstream from Bluejacket Creek, 2.8 mi (4.5 km) northeast of De Graff, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--36.3 mi² (94.0 km²).

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1962, published as Buckongahelas Creek near Degraff.

GAGE.--Water-stage recorder. Datum of gage is 1,008.76 ft (307.470 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 32.8 ft³/s (0.929 m³/s), 12.27 in/yr (311.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 982 ft³/s (27.8 m³/s) Jan. 19, gage height, 5.84 ft (1.780 m); minimum, 6.1 ft³/s (0.17 m³/s) July 28, 29, 30, Aug. 2, 25, 26.

Period of record: Maximum discharge, 1,780 ft³/s (50.4 m³/s) Jan. 21, 1959, gage height, 6.83 ft (2.082 m); minimum, 2.0 ft³/s (0.057 m³/s) Sept. 29, 30, Oct. 1, 8, 1963.

REMARKS.--Records good. Diurnal fluctuation caused by municipal plant operation in Bellefontaine, 9.8 mi (15.8 km) upstream; since storage capacity is small, daily flows are not affected appreciably. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 10 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	35	49	45	62	70	63	36	23	15	7.0	25
2	21	21	41	48	56	58	167	31	20	15	7.0	19
3	16	18	38	36	53	53	104	32	18	14	11	39
4	18	16	38	33	47	50	235	29	17	13	13	30
5	20	16	39	31	43	64	110	27	17	16	7.9	20
6	16	15	33	29	51	54	95	26	17	13	7.9	16
7	14	14	30	28	84	53	77	25	16	11	7.9	13
8	14	14	28	28	59	51	71	31	15	11	8.7	11
9	14	14	26	27	46	48	72	42	15	12	7.9	11
10	14	13	26	26	41	46	81	31	13	11	7.4	11
11	13	12	24	25	41	43	66	29	14	11	9.1	13
12	13	13	23	24	45	48	58	47	14	10	7.9	164
13	16	13	33	32	66	42	53	35	14	10	8.3	71
14	21	13	38	30	71	39	50	30	14	9.1	30	41
15	15	20	30	32	52	40	47	28	29	8.7	10	30
16	14	21	26	50	48	56	45	26	16	9.1	9.6	25
17	14	16	24	88	45	46	42	24	14	8.7	9.1	22
18	13	15	23	179	43	42	40	28	14	8.7	8.3	19
19	14	15	22	717	62	43	38	23	14	8.7	8.3	17
20	13	14	36	274	72	39	36	22	14	8.3	8.3	15
21	13	16	38	248	58	43	35	21	16	7.4	7.9	14
22	13	15	34	158	107	41	39	21	29	7.4	7.9	13
23	13	14	27	161	81	41	38	35	78	7.9	8.3	12
24	14	20	27	119	61	40	36	36	34	8.3	7.9	12
25	14	100	118	93	54	37	33	26	27	7.9	6.6	12
26	13	73	144	83	49	40	32	23	24	7.0	6.6	12
27	13	76	128	119	48	44	31	21	21	7.0	7.0	12
28	13	124	73	96	65	40	30	20	19	6.6	31	13
29	17	108	67	118	-----	114	30	23	18	6.6	100	23
30	21	63	64	83	-----	108	34	28	16	6.6	48	17
31	19	-----	52	72	-----	73	-----	25	-----	7.0	23	-----
TOTAL	474	937	1,399	3,132	1,610	1,606	1,888	881	610	303.0	448.8	752
MEAN	15.3	31.2	45.1	101	57.5	51.8	62.9	28.4	20.3	9.77	14.5	25.1
MAX	21	124	144	717	107	114	235	47	78	16	100	164
MIN	13	12	22	24	41	37	30	20	13	6.6	6.6	11
CFSM	.42	.86	1.24	2.78	1.58	1.43	1.73	.78	.56	.27	.40	.69
IN.	.49	.96	1.43	3.21	1.65	1.65	1.93	.90	.63	.31	.46	.77

CAL YR 1973 TOTAL 17,784.0 MEAN 48.7 MAX 536 MIN 11 CFSM 1.34 IN 18.22
WTR YR 1974 TOTAL 14,040.8 MEAN 38.5 MAX 717 MIN 6.6 CFSM 1.06 IN 14.39

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	0800	5.84	982	4-4	0930	4.17	344
1-21	1230	3.89	304				

03260800 Stony Creek near De Graff, Ohio

LOCATION.--Lat 40°17'27", long 83°54'36", in NW 1/4 sec. 5, R.13, T.3, Logan County, on right bank at downstream side of county road bridge, 0.6 mi (1.0 km) downstream from Lee Creek, 1.5 mi (2.4 km) south of De Graff, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--59.1 mi² (153 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 967.54 ft (294.906 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 51.6 ft³/s (1.461 m³/s), 11.86 in/yr (301.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 862 ft³/s (24.4 m³/s) Jan. 19, gage height, 7.77 ft (2.368 m); minimum, 13 ft³/s (0.37 m³/s) Aug. 2.

Period of record: Maximum discharge, 2,770 ft³/s (78.4 m³/s) Jan. 22, 1959, gage height, 9.39 ft (2.862 m); maximum gage height, 11.48 ft (3.499 m) Jan. 22, 1959, backwater from Great Miami River; minimum, 4.0 ft³/s (0.11 m³/s) Sept. 27, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 11 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	83	87	77	97	115	113	51	41	31	15	46
2	55	59	66	74	92	96	270	47	38	28	15	37
3	44	50	55	66	84	87	191	49	36	26	21	59
4	59	43	54	61	78	82	216	45	34	26	20	46
5	65	39	55	61	71	108	144	44	34	27	17	34
6	50	37	45	56	78	95	119	43	34	25	16	29
7	43	35	39	54	124	83	98	41	33	23	15	26
8	39	34	37	61	95	76	95	46	32	23	16	25
9	37	33	34	60	78	72	112	53	31	22	15	23
10	35	30	33	66	66	70	145	47	30	21	15	23
11	31	32	28	52	66	66	131	48	30	22	17	29
12	30	31	28	62	64	68	104	86	30	20	16	213
13	43	29	44	67	106	61	87	63	29	20	16	121
14	59	28	52	54	116	59	78	52	29	20	22	71
15	44	53	42	65	87	61	73	47	35	20	17	49
16	37	65	36	145	78	77	68	44	31	19	16	37
17	34	46	32	230	72	69	63	45	29	19	16	33
18	32	39	28	279	69	63	60	67	28	19	25	29
19	31	34	27	715	100	62	58	51	27	19	31	25
20	30	27	60	433	127	59	55	45	28	18	21	24
21	29	24	63	367	99	62	54	41	29	18	18	23
22	27	23	50	253	183	61	57	41	50	18	16	22
23	27	21	40	242	157	61	57	104	141	19	16	21
24	27	31	37	207	109	59	53	98	73	18	17	20
25	27	261	195	151	88	57	51	65	51	18	16	20
26	27	256	288	130	80	61	49	53	45	17	15	20
27	27	212	267	199	78	66	48	47	39	17	15	20
28	30	268	169	170	110	61	46	43	35	17	23	22
29	35	238	133	179	-----	149	46	47	34	16	69	33
30	47	135	117	137	-----	206	50	49	32	16	55	27
31	45	-----	92	114	-----	144	-----	44	-----	15	43	-----
TOTAL	1,195	2,296	2,333	4,887	2,652	2,516	2,791	1,646	1,168	637	665	1,207
MEAN	38.5	76.5	75.3	158	94.7	81.2	93.0	53.1	38.9	20.5	21.5	40.2
MAX	65	268	288	715	183	206	270	104	141	31	69	213
MIN	27	21	27	52	64	57	46	41	27	15	15	20
CFSM	.65	1.29	1.27	2.67	1.60	1.37	1.57	.90	.66	.35	.36	.68
IN.	.75	1.45	1.47	3.08	1.67	1.58	1.76	1.04	.74	.40	.42	.76

CAL YR 1973 TOTAL 32,449 MEAN 88.9 MAX 1,310 MIN 21 CFSM 1.50 IN 20.42
WTR YR 1974 TOTAL 23,993 MEAN 65.7 MAX 715 MIN 15 CFSM 1.11 IN 15.10

PEAK DISCHARGE (BASE, 350 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1030	6.81	433	1-19	1000	7.77	862

GREAT MIAMI RIVER BASIN

03261500 Great Miami River at Sidney, Ohio

LOCATION.--Lat 40°17'13", long 84°09'00", Shelby County, on right bank 50 ft (15 m) upstream from North Street Bridge in Sidney, and 0.5 mi (0.8 km) downstream from Tawawa Creek.

DRAINAGE AREA.--541 mi² (1,401 km²).

PERIOD OF RECORD.--February 1914 to current year. Prior to October 1962, published as Miami River at Sidney.

GAGE.--Water-stage recorder. Datum of gage is 924.70 ft (281.848 m) above mean sea level, adjustment of 1912. Prior to Sept. 18, 1919, nonrecording gage at site 50 ft (15 m) downstream at datum 1.76 ft (0.536 m) higher. Sept. 18, 1919, to August, 1925, nonrecording gage at site 50 ft (15 m) downstream at present datum.

AVERAGE DISCHARGE.--49 years (1925-74), 476 ft³/s (13.48 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,280 ft³/s (178 m³/s) Jan. 19, gage height, 9.23 ft (2.813 m); minimum, 43 ft³/s (1.22 m³/s) July 31, Aug. 1, 2.

Period of record: Maximum discharge, 20,700 ft³/s (586 m³/s) Mar. 20, 1927, gage height, 14.4 ft (4.39 m), from rating curve extended above 6,900 ft³/s (195 m³/s) on basis of velocity-area studies; maximum gage height, 15.91 ft (4.849 m) Jan. 21, 1959; minimum discharge, 1.5 ft³/s (0.042 m³/s) Aug. 13, 1963, result of temporary storage behind dam upstream; minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Sept. 23, 1935.

Flood of Mar. 25, 1913 reached a stage of 19.6 ft (5.97 m), present datum, discharge, 44,000 ft³/s (1,250 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Water supply for city of Sidney is pumped from the Great Miami River 1,200 ft (366 m) upstream and from wells adjacent to Great Miami River upstream from station. The pumpage averaged 4.3 ft³/s (0.12 m³/s) in 1974 and is returned as sewage 1.2 mi (1.9 km) downstream from the station. Some regulation by Indian Lake, 28 mi (45 km) upstream, capacity, 45,900 acre-ft (56.6 hm³) prior to 1926; water diverted into Miami and Erie Canal at Port Jefferson, 2.8 mi (4.5 km) upstream, prior to 1926; amount of diversion not published. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 8 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 1305: 1914(M), 1922(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	279	1,030	824	943	1,220	1,680	267	195	134	44	499
2	169	260	755	600	853	896	1,830	256	191	117	45	400
3	159	199	643	540	825	671	1,510	233	166	105	62	532
4	165	170	601	480	663	563	2,540	264	147	101	73	759
5	219	147	728	400	574	874	2,440	219	136	106	67	416
6	196	143	652	430	567	1,030	2,070	203	131	99	57	236
7	150	140	528	360	910	673	1,650	254	127	92	53	168
8	130	118	479	320	785	637	1,250	206	121	85	54	133
9	121	109	463	290	600	562	1,230	243	116	80	84	112
10	114	111	450	260	520	581	1,360	241	110	77	102	101
11	108	113	416	240	480	586	1,140	230	101	75	93	100
12	103	102	399	230	460	500	858	488	103	72	80	426
13	110	101	457	230	660	645	651	637	101	70	86	895
14	183	101	663	250	918	455	586	379	94	65	182	610
15	162	113	569	270	738	363	553	288	107	63	303	341
16	134	220	477	817	522	554	470	294	116	61	197	220
17	133	211	408	1,960	407	767	397	264	103	59	139	166
18	122	163	324	2,580	361	621	362	621	97	57	134	137
19	109	142	230	6,060	585	462	345	401	90	55	135	117
20	107	145	220	5,690	1,360	466	342	317	98	55	102	105
21	100	153	210	5,240	1,090	414	283	245	109	53	81	98
22	100	182	210	4,400	1,760	469	285	218	199	51	69	96
23	95	301	210	3,770	1,810	407	329	500	929	52	60	93
24	94	334	230	3,210	1,190	496	357	651	586	55	58	87
25	92	1,230	1,230	2,430	831	398	325	431	320	54	56	79
26	89	1,860	3,180	1,900	677	356	237	314	252	52	51	76
27	92	1,670	3,190	2,100	623	520	224	251	193	50	52	79
28	94	1,950	2,400	1,890	856	467	217	216	159	50	100	86
29	102	2,260	1,850	1,880	-----	1,390	218	206	144	48	1,060	103
30	135	1,600	1,550	1,520	-----	2,610	234	263	132	45	1,390	117
31	185	-----	1,100	1,160	-----	2,210	-----	223	-----	45	803	-----
TOTAL	3,981	14,627	25,852	52,331	22,568	22,863	25,973	9,823	5,473	2,183	5,872	7,387
MEAN	128	488	834	1,688	806	738	866	317	182	70.4	189	246
MAX	219	2,260	3,190	6,060	1,810	2,610	2,540	651	929	134	1,390	895
MIN	89	101	210	230	361	356	217	203	90	45	44	76

CAL YR 1973 TOTAL 281,428 MEAN 771 MAX 6,030 MIN 89
WTR YR 1974 TOTAL 198,933 MEAN 545 MAX 6,060 MIN 44

PEAK DISCHARGE (BASE, 4,000 FT³/S)--Jan. 19 (0930) 6,280 FT³/S (9.23 ft).

03261950 Loramie Creek near Newport, Ohio

LOCATION.--Lat 40°18'25", long 84°23'02", in SE 1/4 sec. 24, T.11N., R.4E., Shelby County, on right bank at downstream side of bridge on Cardo Roman Road, 1.1 mi (1.8 km) northwest of Newport, 3 mi (5 km) south of Fort Loramie, and 3 mi (5 km) downstream from Mile Creek.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 927.00 ft (282.550 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--10 years, 130 ft³/s (3.682 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,760 ft³/s (78.2 m³/s) Jan. 20, gage height, 12.90 ft (3.932 m); minimum, 0.55 ft³/s (0.016 m³/s) Aug. 13.

Period of record: Maximum discharge, 2,760 ft³/s (78.2 m³/s) Jan. 20, 1974, gage height, 12.90 ft (3.432 m); minimum, 0.10 ft³/s (0.003 m³/s) several days in August 1965 and September 1966.

Flood of Mar. 25, 1913 reached a stage of 17.0 ft (5.18 m) and flood of Jan. 21, 1959 a stage of 14.2 ft (4.33 m), from flood profile furnished by Miami Conservancy District.

REMARKS.--Records good. Some regulation by Lake Loramie 5 mi (8 km) upstream; capacity, 13,000 acre-ft (16.0 hm³). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WRD Ohio 1971: 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	18	184	150	234	325	392	23	13	45	.75	340
2	2.3	13	105	178	222	233	250	17	9.4	27	.80	307
3	2.5	5.7	72	181	200	176	236	19	5.7	7.3	1.8	449
4	3.9	2.7	70	167	146	151	1,630	16	4.8	5.4	2.5	530
5	5.4	1.8	81	110	29	413	1,910	12	3.9	5.4	1.6	279
6	2.9	1.2	63	58	33	387	1,110	11	4.1	4.3	1.2	131
7	1.8	3.0	54	35	93	231	498	8.7	3.6	3.0	.86	65
8	1.3	2.5	41	20	57	171	332	11	3.6	2.3	.60	34
9	1.2	3.2	35	18	35	129	313	21	3.6	2.5	1.3	22
10	.99	4.1	27	16	21	111	398	18	3.2	2.1	1.2	15
11	1.2	4.8	22	14	16	92	249	15	3.2	2.2	1.2	12
12	.99	4.5	22	12	24	92	165	80	3.0	2.1	.99	35
13	1.5	7.5	32	11	143	79	125	95	2.5	1.8	1.2	196
14	4.3	8.3	56	14	432	66	86	52	2.1	1.7	.78	211
15	2.1	5.5	48	27	315	25	69	42	2.3	2.1	191	116
16	1.6	9.8	33	239	66	87	62	33	2.3	1.9	89	62
17	1.1	6.3	28	827	44	118	47	29	2.1	2.2	82	33
18	1.2	3.9	24	1,060	37	97	37	37	1.9	3.3	86	22
19	1.7	2.9	22	2,360	191	92	37	28	1.8	1.6	39	14
20	1.9	2.2	23	2,590	516	73	27	19	2.9	1.2	15	11
21	1.9	2.2	27	1,910	356	70	21	13	3.0	.86	7.0	8.7
22	1.9	2.9	21	1,230	834	64	30	12	70	.86	3.7	5.2
23	2.1	2.5	19	1,000	931	76	41	41	323	.75	2.0	3.4
24	2.2	6.4	20	904	412	70	32	51	145	.75	1.6	2.3
25	2.2	189	480	482	190	58	23	37	57	.86	1.1	1.9
26	2.7	348	1,610	305	130	59	19	24	29	.93	.85	1.6
27	3.6	310	1,960	929	100	106	16	17	20	.80	.99	1.8
28	4.8	346	1,520	880	210	98	14	12	13	.86	111	4.6
29	8.1	636	771	638	-----	807	13	12	8.7	.93	576	10
30	12	360	403	419	-----	1,340	22	16	6.6	1.1	813	10
31	9.1	-----	247	295	-----	840	-----	13	-----	.99	578	-----
TOTAL	93.18	2,313.9	8,120	17,079	6,017	6,736	8,204	834.7	754.3	134.09	2,691.24	2,933.5
MEAN	3.01	77.1	262	551	215	217	273	26.9	25.1	4.33	86.8	97.8
MAX	12	636	1,960	2,590	931	1,340	1,910	95	323	45	813	530
MIN	.99	1.2	19	11	16	25	13	8.7	1.8	.75	.60	1.6

CAL YR 1973 TOTAL 66,368.72 MEAN 182 MAX 1,960 MIN .75
WTR YR 1974 TOTAL 55,910.91 MEAN 153 MAX 2,590 MIN .60

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	1230	11.53	2,020	4-5	0030	11.79	2,140
01-20	0230	12.90	2,760				

GREAT MIAMI RIVER BASIN

03262000 Loramie Creek at Lockington, Ohio

LOCATION.--Lat 40°12'35", long 84°14'32", in NE 1/4 sec. 30, T.7N., R.6E., Shelby County, on left bank at downstream side of county road bridge, 1,300 ft (396 m) downstream from Lockington Dam, 0.5 mi (0.8 km) northwest of Lockington, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--257 mi² (666 km²).

PERIOD OF RECORD.--October 1915 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 800.03 ft (243.849 m) above mean sea level, adjustment of 1912. Prior to July 3, 1924 nonrecording gage at same site at datum 75.96 ft (23.153 m) higher. July 3, 1924, to Aug. 17, 1926, nonrecording gage, and Aug. 18 to Sept. 30, 1926, water-stage recorder, at same site at datum 74.96 ft (22.848 m) higher.

AVERAGE DISCHARGE.--59 years, 206 ft³/s (5.834 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,310 ft³/s (122 m³/s) Jan. 19, gage height, 83.41 ft (25.423 m); minimum, 9.1 ft³/s (0.26 m³/s) Aug. 2, 13.

Period of record: Maximum discharge, 10,400 ft³/s (295 m³/s) May 7, 1916, gage height, 86.4 ft (26.33 m), present datum, from rating curve extended above 5,400 ft³/s (153 m³/s); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 19, 1931.

Flood of March 25, 1913 reached a stage of 91.6 ft (27.92 m), present datum, discharge, 25,600 ft³/s (725 m³/s), at site upstream from Turtle Creek, drainage area, 211 mi² (546 km²), computed by Miami Conservancy District.

REMARKS.--Records good. Slight regulation by Lake Loramie 18 mi (29 km) upstream, capacity, 13,000 acre-ft (16.0 hm³). Flood flow regulated by Lockington retarding basin beginning in 1921. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 11 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 923: 1916. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	54	315	294	337	544	652	57	40	93	9.6	363
2	16	50	190	191	307	382	466	54	36	82	9.6	323
3	21	34	136	281	275	293	460	52	32	46	12	467
4	31	26	114	233	242	238	2,250	52	28	34	14	549
5	57	22	157	190	108	701	2,140	46	28	46	12	348
6	39	19	120	120	85	627	1,470	41	28	37	10	196
7	26	16	93	80	270	367	765	39	25	28	9.4	121
8	22	15	77	62	170	267	468	40	24	23	22	77
9	19	15	67	54	112	208	594	50	23	22	23	53
10	17	14	63	52	83	186	771	51	22	19	21	42
11	16	14	51	48	77	154	454	47	22	17	20	35
12	15	14	48	46	74	147	296	172	23	14	20	38
13	15	14	65	44	212	129	219	167	19	13	14	157
14	19	14	147	46	583	113	175	112	18	13	15	236
15	21	18	105	59	455	88	130	79	18	12	152	172
16	19	28	83	432	220	158	117	73	17	12	138	106
17	16	25	63	1,370	111	199	98	144	17	11	88	71
18	15	23	60	1,820	89	161	83	295	17	14	104	48
19	14	20	54	4,020	522	145	74	117	17	16	75	39
20	13	18	54	3,610	908	125	71	77	18	13	45	32
21	13	17	56	3,120	594	115	61	58	23	12	29	27
22	13	16	52	1,740	1,430	122	62	50	180	12	20	25
23	13	16	47	1,330	1,160	118	86	85	1,000	12	16	20
24	13	17	46	1,140	654	124	74	103	342	11	14	18
25	12	741	1,160	756	335	97	63	83	139	11	12	16
26	12	695	2,490	494	224	101	54	63	85	11	11	14
27	12	831	2,800	1,260	181	160	51	52	62	11	10	14
28	12	873	2,130	1,140	364	161	49	44	51	11	12	14
29	13	1,030	1,290	1,040	-----	1,250	46	43	41	11	416	14
30	15	616	822	670	-----	1,620	48	49	39	11	679	17
31	22	-----	480	463	-----	1,230	-----	47	-----	9.6	612	-----
TOTAL	576	5,305	13,435	26,205	10,182	10,330	12,347	2,442	2,434	687.6	2,644.6	3,652
MEAN	18.6	177	433	845	364	333	412	78.8	81.1	22.2	85.3	122
MAX	57	1,030	2,800	4,020	1,430	1,620	2,250	295	1,000	93	679	549
MIN	12	14	46	44	74	88	46	39	17	9.6	9.4	14

CAL YR 1973 TOTAL 114,276.0 MEAN 313 MAX 3,920 MIN 12
WTR YR 1974 TOTAL 90,240.2 MEAN 247 MAX 4,020 MIN 9.4

03262700 Great Miami River at Troy, Ohio

LOCATION.--Lat 40°02'25", long 84°11'52", Miami County, 400 ft (122 m) downstream from B and O Railroad bridge, 1,300 ft (396 m) downstream from bridge on State Highway 55 at Troy, 1.2 mi (1.9 km) upstream from small left bank tributary, and 2.3 mi (3.7 km) downstream from Spring Creek.

DRAINAGE AREA.--926 mi² (2,398 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961, 1962 (published as Miami River at Troy). October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 810.67 ft (247.092 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 786 ft³/s (22.26 m³/s).

EXTREMES.--Current year: Maximum discharge, 12,600 ft³/s (357 m³/s) Jan. 19, gage height, 12.20 ft (3.719 m); minimum, 30 ft³/s (0.85 m³/s) July 16, result of temporary storage during repair of dam upstream.

Period of record: Maximum discharge, 17,300 ft³/s (490 m³/s) Mar. 6, 1963, gage height, 14.66 ft (4.468 m); minimum, 0.50 ft³/s (0.014 m³/s) July 12, 13, 1963, gage height, 2.37 ft (0.722 m), result of temporary storage during repair of dam upstream; minimum daily discharge, 16 ft³/s (0.45 m³/s) July 13, Oct. 7, 1963.

Flood of June 11, 1958 reached a stage of 16.4 ft (5.00 m), discharge, 21,000 ft³/s (595 m³/s).

REMARKS.--Records good. Flood flow regulated by retarding basin on Loramie Creek, 18 mi (29 km) upstream. Low and medium flow slightly regulated by Indian Lake; capacity, 45,900 acre-ft (56.6 hm³), 54 mi (87 km) upstream. Water supply for city of Troy is pumped from wells adjacent to the Great Miami River upstream from the station. The pumpage averaged 3.6 ft³/s (0.10 m³/s) in 1974 and is returned as sewage 1 mi (2 km) downstream from the station. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	357	1,850	1,500	1,700	2,000	3,040	410	296	316	84	1,100
2	193	430	1,290	1,000	1,400	1,690	2,840	423	261	269	84	838
3	226	326	1,010	850	1,300	1,220	2,420	403	252	228	110	926
4	222	261	929	700	1,100	1,030	5,180	376	230	196	136	1,510
5	301	213	996	620	900	1,560	5,410	389	213	188	132	1,010
6	286	197	976	720	840	2,050	4,270	316	209	198	116	546
7	234	193	811	680	1,300	1,390	2,910	321	197	179	103	335
8	193	185	709	600	1,100	1,110	2,130	327	182	166	103	256
9	178	178	674	500	950	967	2,090	332	175	153	101	211
10	167	171	637	440	900	890	2,750	357	161	136	128	176
11	157	171	591	400	800	948	2,250	316	161	131	164	169
12	150	167	548	360	709	811	1,640	539	147	119	148	223
13	167	161	600	320	938	870	1,210	938	144	107	121	960
14	209	150	910	340	1,620	755	996	665	141	119	182	981
15	243	189	870	540	1,470	591	880	452	147	107	382	606
16	205	248	660	1,350	1,020	674	792	410	167	122	434	365
17	175	301	520	4,270	665	1,090	665	403	175	55	296	269
18	175	248	420	5,050	591	938	582	1,050	157	111	259	220
19	157	217	390	11,400	967	745	539	718	150	118	249	190
20	150	205	380	11,300	2,680	709	531	490	161	108	214	173
21	144	213	380	10,600	2,110	656	459	389	271	98	161	150
22	150	222	370	8,050	3,410	691	444	316	957	98	136	144
23	154	301	370	6,000	3,650	637	490	531	3,080	99	115	141
24	150	383	400	5,200	2,390	682	531	900	1,650	99	110	139
25	150	1,940	2,050	4,000	1,520	646	498	674	811	101	102	131
26	147	3,340	6,900	3,000	1,090	548	410	490	646	111	98	121
27	144	3,230	7,580	4,060	967	674	332	370	421	109	89	127
28	150	3,260	5,800	3,700	1,270	773	332	321	319	108	111	144
29	144	4,100	4,200	3,000	-----	2,790	474	311	266	106	971	151
30	167	2,870	3,500	2,600	-----	4,960	531	389	248	103	2,350	151
31	226	-----	2,300	2,000	-----	4,440	-----	338	-----	89	1,880	-----
TOTAL	5,678	24,427	49,621	95,150	39,357	39,535	47,626	14,664	12,395	4,247	9,669	12,463
MEAN	183	814	1,601	3,069	1,406	1,275	1,588	473	413	137	312	415
MAX	301	4,100	7,580	11,400	3,650	4,960	5,410	1,050	3,080	316	2,350	1,510
MIN	144	150	370	320	591	548	332	311	141	55	84	121

CAL YR 1973 TOTAL 477,231 MEAN 1,307 MAX 10,800 MIN 144
WTR YR 1974 TOTAL 354,832 MEAN 972 MAX 11,400 MIN 55

GREAT MIAMI RIVER BASIN

03263000 Great Miami River at Taylorsville, Ohio

LOCATION.--Lat 39°52'22", long 84°09'51", in SW 1/4 sec. 36, R.8, T.2, Montgomery County, on left bank 600 ft (183 m) downstream from Taylorsville Dam, 0.8 mi (1.3 km) north of Taylorsville, and 9.5 mi (15.3 km) upstream from Stillwater River.

DRAINAGE AREA.--1,149 mi² (2,976 km²).

PERIOD OF RECORD.--January 1914 to September 1917 (published as Miami River at Tadmor), October 1921 to current year (published as Miami River at Taylorsville 1921-62). Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site at Tadmor, January 1914 to July 1920, are contained in reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 700.08 ft (213.384 m) above mean sea level, adjustment of 1912. Prior to October 1921, nonrecording gage at site 1.8 mi (2.9 km) upstream at different datum. Jan. 1, 1922, to Nov. 11, 1925, nonrecording gage at site 600 ft (183 m) upstream at outlet works of Taylorsville Dam at present datum.

AVERAGE DISCHARGE.--56 years, 991 ft³/s (28.07 m³/s), 11.71 in/yr (297.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 15,700 ft³/s (445 m³/s) Jan. 20, gage height, 72.08 ft (21.970 m); minimum, 92 ft³/s (2.61 m³/s) Aug. 2.

Period of record: Maximum discharge, 31,400 ft³/s (889 m³/s) Jan. 22, 1959, gage height, 75.44 ft (22.994 m); minimum, 30 ft³/s (0.85 m³/s) Jan. 2, 1945.

Flood in March 1913 reached a stage of 25.4 ft (7.74 m) at site at Tadmor, discharge, 127,000 ft³/s (3,600 m³/s) computed by Miami Conservancy District.

REMARKS.--Records good. Flood flow regulated by retarding basins on Great Miami River, just upstream from station and on Loramie Creek 28 mi (45 km) upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake 64 mi (103 km) upstream from station, and by Lake Loramie 47 mi (76 km) upstream from station on Loramie Creek; combined capacity, 58,900 acre-ft (72.6 km³). Water-quality records for the current year are published for station 03263110 in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 743: 1924(M). WSP 853: 1930, 1937. WSP 923: 1922-24. WSP 1385: 1916. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	496	2,240	1,700	1,920	2,040	3,550	537	453	548	96	1,320
2	338	598	1,580	1,200	1,670	1,940	3,930	551	399	491	96	945
3	360	479	1,280	1,100	1,580	1,480	3,090	554	382	407	142	1,110
4	330	379	1,160	1,000	1,400	1,290	4,690	502	342	341	175	1,570
5	370	340	1,200	900	1,180	1,610	6,360	511	323	317	152	1,280
6	416	284	1,210	820	1,070	2,300	4,960	449	306	314	135	714
7	359	271	997	740	1,750	1,710	3,330	439	292	289	115	452
8	302	268	874	660	1,650	1,420	2,620	498	274	264	121	343
9	263	252	820	620	1,270	1,230	2,620	490	259	245	109	282
10	246	238	787	600	1,080	1,090	3,430	499	240	227	109	241
11	227	229	733	540	1,000	1,120	3,060	499	228	215	178	211
12	215	231	679	500	970	1,000	2,250	652	231	202	177	301
13	217	223	720	470	1,120	990	1,670	1,030	210	175	141	820
14	293	211	966	520	1,600	976	1,400	827	206	207	179	1,130
15	337	226	1,060	717	1,670	803	1,250	617	212	181	288	770
16	308	373	878	1,680	1,310	843	1,120	541	217	163	494	497
17	262	417	728	4,710	942	1,210	962	838	232	152	389	369
18	248	369	649	5,330	808	1,140	864	1,330	216	126	275	288
19	233	313	574	10,000	904	963	802	990	211	152	344	249
20	209	278	676	14,000	2,740	868	759	688	227	144	269	220
21	201	291	750	11,000	2,380	874	705	577	497	125	199	195
22	200	299	671	9,500	3,380	863	691	504	903	121	159	177
23	209	324	606	8,000	4,270	831	712	767	4,310	125	141	170
24	204	471	618	6,670	2,800	828	717	1,110	2,420	126	124	162
25	200	2,100	1,470	4,760	1,820	832	689	878	1,450	122	114	157
26	195	4,640	7,290	3,390	1,360	730	615	670	1,250	126	108	145
27	191	4,110	8,770	4,520	1,230	793	523	539	880	127	106	139
28	194	4,340	7,180	4,290	1,390	942	502	479	629	122	284	161
29	197	5,020	4,650	3,890	-----	2,450	498	471	518	119	551	203
30	238	3,480	3,590	3,160	-----	6,080	515	541	448	116	2,300	178
31	283	-----	2,450	2,430	-----	5,600	-----	520	-----	108	1,990	-----
TOTAL	8,093	31,550	57,856	109,617	46,264	46,846	58,884	20,098	18,765	6,497	10,060	14,799
MEAN	261	1,052	1,866	3,536	1,652	1,511	1,963	648	626	210	325	493
MAX	416	5,020	8,770	14,000	4,270	6,080	6,360	1,330	4,310	548	2,300	1,570
MIN	191	211	574	470	808	730	498	439	206	108	96	139
CFSM	.23	.92	1.62	3.08	1.44	1.32	1.71	.56	.54	.18	.28	.43
IN.	.26	1.02	1.87	3.55	1.50	1.52	1.91	.65	.61	.21	.33	.48
CAL YR 1973	TOTAL 587,353	MEAN 1,609	MAX 9,980	MIN 191	CFSM 1.40	IN 19.02						
WTR YR 1974	TOTAL 429,329	MEAN 1,176	MAX 14,000	MIN 96	CFSM 1.02	IN 13.90						

Note: No gage height record Jan. 19 to 23.

03264000 Greenville Creek near Bradford, Ohio

LOCATION.--Lat 40°06'08", long 84°25'48", between secs. 33 and 34, T.9N., R.4E., on boundary line of Darke and Miami Counties, on left bank at downstream side of bridge on State Highway 721, 0.8 mi (1.3 km) downstream from small left bank tributary, 1.8 mi (2.9 km) south of Bradford, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--193 mi² (500 km²).

PERIOD OF RECORD.--October 1930 to current year. Prior to April 1931, monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 948.9 ft (289.22 m) above mean sea level, adjustment of 1912. Prior to Oct. 1, 1942, nonrecording gage at same site and datum. Apr. 6, 1962 to Nov. 13, 1963, water-stage recorder at site 200 ft (61 m) downstream at same datum.

AVERAGE DISCHARGE.--44 years, 170 ft³/s (4.814 m³/s), 11.96 in/yr (303.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,970 ft³/s (55.8 m³/s) Jan. 19, Apr. 5; maximum gage height, 5.99 ft (1.826 m) Jan. 19; minimum discharge, 32 ft³/s (0.31 m³/s) Sept. 25.

Period of record: Maximum discharge, 9,320 ft³/s (264 m³/s) May 14, 1933, gage height, 9.2 ft (2.80 m); maximum gage height, 10.31 ft (3.142 m) Mar. 5, 1963, from high-water mark in well (ice jam); minimum discharge, 4.8 ft³/s (0.14 m³/s) Sept. 17, 1963.

Flood in March 1913 reached a stage of 12.1 ft (3.69 m), discharge, 18,200 ft³/s (515 m³/s), at site with drainage area of 213 mi² (552 km²), computed by Miami Conservancy District.

REMARKS.--Records good. Some diurnal fluctuation caused by mill 8 mi (13 km) upstream from station; daily flows are not affected appreciably. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 803: 1933(M). WSP 1235: 1936, 1937(M). WRD 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	52	132	215	282	389	476	141	78	103	28	49
2	39	45	106	160	249	303	413	130	68	94	27	51
3	37	41	97	140	213	261	354	137	64	68	32	97
4	45	37	95	120	185	246	1,310	126	62	59	52	112
5	52	36	101	100	170	473	1,520	120	62	118	34	62
6	45	39	83	92	173	538	658	113	73	101	30	43
7	36	39	71	86	285	347	459	105	59	68	28	39
8	35	36	66	82	240	361	399	115	56	61	28	37
9	35	33	65	80	195	297	562	128	61	56	28	35
10	36	35	62	82	165	237	900	113	59	56	36	36
11	37	38	57	94	156	200	960	115	51	285	41	34
12	33	31	58	86	151	193	610	161	48	128	32	57
13	37	32	66	78	237	165	438	144	47	80	31	56
14	48	34	64	86	246	156	343	111	47	65	120	41
15	41	41	58	100	195	149	279	109	58	56	68	35
16	36	48	50	329	170	200	234	99	56	47	39	32
17	38	50	40	1,110	158	190	213	107	51	43	53	32
18	36	41	50	1,060	149	168	195	118	43	39	45	29
19	31	38	45	1,760	246	165	175	99	43	36	36	35
20	31	35	40	1,620	445	144	163	92	43	38	40	27
21	30	40	40	1,210	297	156	163	88	59	35	31	27
22	31	43	42	845	815	144	183	85	59	32	29	26
23	35	36	44	686	810	133	193	92	431	31	28	24
24	32	45	47	606	417	135	158	90	319	32	26	24
25	40	172	315	417	294	118	149	80	170	35	25	13
26	31	263	1,090	368	228	128	140	74	135	35	26	25
27	30	301	1,250	1,080	210	161	140	74	111	31	26	33
28	35	294	715	870	312	161	137	74	92	28	27	35
29	38	252	466	638	-----	510	142	85	86	27	64	47
30	51	177	371	462	-----	800	135	118	76	28	76	39
31	48	-----	276	361	-----	670	-----	88	-----	28	49	-----
TOTAL	1,167	2,404	6,062	15,023	7,693	8,298	12,201	3,331	2,667	1,943	1,235	1,232
MEAN	37.6	80.1	196	485	275	268	407	107	88.9	62.7	39.8	41.1
MAX	52	301	1,250	1,760	815	800	1,520	161	431	285	120	112
MIN	30	31	40	78	149	118	135	74	43	27	25	13
CFSM	.19	.42	1.02	2.51	1.42	1.39	2.11	.55	.46	.32	.21	.21
IN.	.22	.46	1.17	2.90	1.48	1.60	2.35	.64	.51	.37	.24	.24

CAL YR 1973 TOTAL 83,545 MEAN 229 MAX 2,080 MIN 30 CFSM 1.19 IN 16.10
WTR YR 1974 TOTAL 63,256 MEAN 173 MAX 1,760 MIN 13 CFSM .90 IN 12.19

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1930	5.99	1,970	4-5	0530	5.98	1,970

GREAT MIAMI RIVER BASIN

03265000 Stillwater River at Pleasant Hill, Ohio

LOCATION.--Lat 40°03'28", long 84°21'22", in SW 1/4 sec. 18, T.7N., R.5E., Miami County, on left bank at downstream side of bridge on Laurer Road, 0.8 mi (1.3 km) northwest of Pleasant Hill, 2 mi (3 km) downstream from Painter Creek, and 2 mi (3 km) upstream from Canyon Run.

DRAINAGE AREA.--503 mi² (1,303 km²).

PERIOD OF RECORD.--October 1916 to September 1928, October 1934 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at same site March 1922 to December 1963 are contained in reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 846.73 ft (258.083 m) above mean sea level, adjustment of 1912. Prior to Dec. 23, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years, 439 ft³/s (12.43 m³/s), 11.85 in/yr (301.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,480 ft³/s (212 m³/s) Jan. 19, gage height, 11.16 ft (3.402 m); minimum, 22 ft³/s (0.62 m³/s) Sept. 26.

Period of record: Maximum discharge, 26,400 ft³/s (748 m³/s) Jan. 14, 1937, from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of velocity-area study; maximum gage height, 17.98 ft (5.480 m) Jan. 21, 1959; minimum discharge observed, 4 ft³/s (0.11 m³/s) Oct. 17, 1920, July 12, 22, Aug. 30, 1921.

Flood of January 25, 1913 reached a stage of 17.5 ft (5.33 m). Discharge, at site about 3 mi (5 km) upstream, 51,400 ft³/s (1,460 m³/s), computed by Miami Conservancy District. This stage is not comparable with present gage heights because of failure of levee in 1913.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 14 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 523: 1917. WSP 1305: 1920(M), 1922-25(M), WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	95	383	577	689	1,060	1,200	226	142	167	37	66
2	68	118	301	430	598	759	1,040	214	125	201	37	68
3	64	95	264	360	505	633	878	218	113	137	52	98
4	68	79	248	310	421	584	4,040	207	107	109	61	165
5	93	70	273	260	366	1,260	3,870	191	109	150	52	105
6	102	64	236	210	376	1,370	1,500	185	115	169	44	68
7	81	69	189	170	661	808	1,010	175	111	115	40	53
8	70	65	168	160	591	822	871	178	107	98	39	48
9	65	62	160	160	450	668	1,310	207	107	91	37	45
10	62	58	150	170	320	518	2,490	188	104	83	38	44
11	64	60	140	180	250	427	2,090	178	96	188	51	43
12	60	57	130	160	260	404	1,300	291	91	161	48	51
13	65	55	150	150	360	345	906	278	87	100	41	59
14	86	55	188	170	829	300	717	214	81	85	87	56
15	79	66	180	230	551	296	577	197	85	85	134	49
16	70	80	140	864	421	387	475	185	91	75	71	43
17	68	87	120	3,550	376	433	416	181	85	65	64	41
18	65	78	110	3,700	334	355	371	291	78	60	65	40
19	59	72	120	6,870	766	329	334	269	75	53	52	36
20	57	66	130	5,690	1,710	296	310	197	76	51	51	37
21	55	64	130	3,900	913	291	296	169	98	50	45	35
22	53	66	127	2,470	2,750	286	315	161	376	47	39	35
23	53	64	131	2,050	2,330	269	355	164	1,320	47	37	34
24	55	68	133	1,770	1,030	265	291	164	773	48	36	37
25	59	592	1,340	1,120	703	233	252	147	361	47	34	36
26	61	1,110	4,800	934	531	244	240	135	310	48	32	24
27	56	1,200	4,940	3,160	468	320	233	127	226	45	32	32
28	60	1,130	2,640	2,450	745	339	229	125	175	41	36	38
29	63	1,130	1,430	1,900	-----	1,930	222	135	155	38	54	53
30	73	597	1,170	1,240	-----	2,800	222	178	140	38	97	59
31	90	-----	794	913	-----	1,890	-----	169	-----	37	85	-----
TOTAL	2,084	7,472	21,415	46,278	20,304	20,921	28,360	5,944	5,919	2,729	1,628	1,598
MEAN	67.2	249	691	1,493	725	675	945	192	197	88.0	52.5	53.3
MAX	102	1,200	4,940	6,870	2,750	2,800	4,040	291	1,320	201	134	165
MIN	53	55	110	150	250	233	222	125	75	37	32	24
CFSM	.13	.50	1.37	2.97	1.44	1.34	1.88	.38	.39	.18	.10	.11
IN.	.15	.55	1.58	3.42	1.50	1.55	2.10	.44	.44	.20	.12	.12

CAL YR 1973 TOTAL 214,597 MEAN 588 MAX 5,500 MIN 53 CFSM 1.17 IN 15.87
WTR YR 1974 TOTAL 164,652 MEAN 451 MAX 6,870 MIN 24 CFSM .90 IN 12.18

PEAK DISCHARGE (BASE, 5,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	0500	9.07	5,370	4-5	0100	9.51	5,810
01-19	1230	11.16	7,480				

03266000 Stillwater River at Englewood, Ohio

LOCATION.--Lat 39°52'10", long 84°16'57", in NW 1/4 sec. 23, T.5N., R.5E., Montgomery County, on right bank 1,000 ft (305 m) downstream from Englewood Dam, 1 mi (2 km) southeast of Englewood, and 8.5 mi (13.7 km) upstream from mouth.

DRAINAGE AREA.--650 mi² (1,684 km²).

PERIOD OF RECORD.--October 1925 to current year (monthly discharge only, October 1925, published in WSP 1305).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 699.97 ft (213.351 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--49 years, 570 ft³/s (16.14 m³/s), 11.91 in/yr (302.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,080 ft³/s (172 m³/s) Jan. 20, gage height, 78.24 ft (23.848 m); minimum, 18 ft³/s (0.51 m³/s) Aug. 2, gage height 71.67 ft (21.845 m).

Period of record: Maximum discharge, 9,980 ft³/s (283 m³/s) June 15, 1958, gage height, 80.88 ft (24.652 m); minimum, 3.7 ft³/s (0.10 m³/s) Sept. 30, Oct. 1, 1944, gage height, 71.36 ft (21.751 m).

Flood in March 1913 reached a discharge of 85,400 ft³/s (2,420 m³/s) at site 1 mi (2 km) downstream, computed by Miami Conservancy District.

REMARKS.--Records good. Flood flow regulated by Englewood retarding basin. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	125	670	900	1,030	1,330	1,900	323	214	223	47	142
2	110	128	480	567	853	1,060	1,780	308	184	262	39	120
3	97	145	403	490	728	863	1,380	313	166	248	58	203
4	94	125	366	430	605	777	2,640	298	150	185	70	246
5	102	110	375	390	516	1,230	4,470	276	143	162	74	251
6	113	94	359	340	524	1,880	3,150	264	147	224	67	160
7	125	89	292	300	907	1,170	1,520	250	147	204	57	118
8	104	87	245	260	919	1,320	1,410	252	142	156	59	93
9	92	84	226	270	689	1,030	1,910	277	136	138	52	80
10	84	70	224	280	541	779	2,970	274	133	160	48	77
11	80	76	208	270	490	624	3,200	251	128	155	54	73
12	80	78	194	250	448	575	2,240	298	124	272	63	103
13	82	78	200	230	539	502	1,480	377	113	184	60	128
14	97	76	234	280	916	435	1,130	316	108	144	68	113
15	104	84	247	352	818	418	925	274	113	131	108	97
16	97	104	227	1,040	578	472	730	254	113	111	156	83
17	84	107	191	3,250	511	561	616	361	114	97	132	75
18	80	113	172	4,050	453	490	553	555	108	85	90	69
19	78	110	184	4,900	547	452	502	481	104	64	83	68
20	76	99	230	5,930	2,090	416	457	340	110	72	69	63
21	72	94	239	5,860	1,380	415	424	272	128	67	66	62
22	70	92	205	5,350	2,170	408	443	247	190	66	59	57
23	70	89	210	4,350	3,460	386	482	251	1,880	67	54	53
24	70	102	208	3,210	1,740	372	439	240	1,660	66	54	52
25	70	455	790	1,820	1,050	338	374	219	850	65	48	53
26	72	1,770	3,840	1,400	741	332	346	200	724	62	46	50
27	72	1,760	4,880	2,670	648	380	334	186	484	63	52	46
28	70	1,910	4,770	3,580	820	449	324	178	343	59	206	51
29	72	1,690	2,900	2,590	-----	1,450	316	189	273	54	143	70
30	82	1,130	1,770	1,850	-----	3,540	318	212	235	50	138	79
31	89	-----	1,290	1,360	-----	3,100	-----	239	-----	47	150	-----
TOTAL	2,685	11,074	26,829	58,819	26,711	27,554	38,763	8,775	9,464	3,943	2,470	2,935
MEAN	86.6	369	865	1,897	954	889	1,292	283	315	127	79.7	97.8
MAX	125	1,910	4,880	5,930	3,460	3,540	4,470	555	1,880	272	206	251
MIN	70	70	172	230	448	332	316	178	104	47	39	46
CFSM	.13	.57	1.33	2.92	1.47	1.37	1.99	.44	.48	.20	.12	.15
IN.	.15	.63	1.54	3.37	1.53	1.58	2.22	.50	.54	.23	.14	.17

CAL YR 1973 TOTAL 282,113 MEAN 773 MAX 5,540 MIN 70 CFSM 1.19 IN 16.15
WTR YR 1974 TOTAL 220,022 MEAN 603 MAX 5,930 MIN 39 CFSM .93 IN 12.59

GREAT MIAMI RIVER BASIN

03266500 Mad River at Zanesfield, Ohio

LOCATION.--Lat 40°21'01", long 83°40'28", Logan County, on left bank at upstream side of bridge on County Road No. 5 (adjacent to former U.S. Highway 33), 0.8 mi (1.3 km) upstream from Sugar Creek, and 1 mi (2 km) north of Zanesfield.

DRAINAGE AREA.--7.31 mi² (18.9 km²).

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,208.28 ft (368.284 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 7.84 ft³/s (0.222 m³/s), 14.56 in/yr (369.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 421 ft³/s (11.9 m³/s) Jan. 19; gage height, 3.23 ft (0.984 m); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 26.

Period of record: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Apr. 13, 1972, gage height, 9.54 ft (2.908 m) in gage house, from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of critical-depth measurement of peak flow; minimum, 0.30 ft³/s (0.008 m³/s) Jan. 16, 1966, gage height, 0.58 ft (0.177 m), result of freezeup.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	5.4	7.7	8.0	14	16	20	7.7	4.2	3.0	1.7	3.4
2	3.6	3.2	6.5	7.4	14	13	42	7.3	3.9	2.6	1.9	2.8
3	2.8	2.8	5.8	6.9	12	12	23	7.3	3.6	2.6	2.4	6.1
4	2.8	2.6	6.5	6.4	11	11	24	6.5	3.4	2.6	2.1	3.6
5	2.8	2.4	6.5	6.0	10	15	18	6.1	3.6	2.6	1.8	2.8
6	2.4	2.2	5.4	5.7	13	13	20	6.1	3.4	2.4	1.8	2.2
7	2.4	2.2	4.8	5.5	18	12	17	5.8	3.4	2.4	1.7	2.2
8	2.2	2.2	4.3	5.3	13	11	16	8.5	3.2	2.2	1.8	2.1
9	2.2	2.2	4.0	5.1	11	11	19	11	3.2	2.2	1.8	2.1
10	2.2	2.1	3.8	5.0	10	10	21	7.7	3.0	2.2	1.7	2.1
11	2.1	2.1	3.7	4.8	10	10	17	7.7	3.0	2.4	1.8	4.2
12	2.1	2.2	3.7	4.7	10	11	15	9.5	3.0	2.2	1.7	31
13	3.0	2.1	6.5	4.6	20	9.5	14	7.7	2.8	2.2	2.4	10
14	3.2	2.1	7.7	4.5	18	9.0	12	6.9	2.8	2.1	2.8	5.1
15	2.6	3.6	5.4	4.5	12	10	11	6.5	4.2	2.1	1.9	3.6
16	2.4	3.4	4.2	14	11	15	11	6.1	3.0	2.1	1.8	3.0
17	2.2	2.8	3.9	22	10	12	10	6.1	3.0	2.1	1.8	2.8
18	2.2	2.8	3.7	80	10	10	10	6.5	2.8	1.9	1.8	2.6
19	2.1	2.6	3.5	110	18	11	9.5	5.8	2.8	1.9	1.8	2.4
20	2.1	2.4	7.3	50	17	9.5	9.0	5.4	3.0	1.9	1.7	2.4
21	2.1	3.0	5.6	46	14	10	8.5	5.1	3.0	1.9	1.7	2.4
22	2.1	2.8	4.8	28	23	10	10	5.4	7.3	1.9	1.5	2.2
23	2.1	2.6	4.5	20	16	11	9.5	7.7	12	1.9	1.5	2.2
24	2.1	3.9	4.5	16	13	10	8.1	7.3	5.1	1.9	1.7	2.2
25	1.9	29	31	15	12	11	7.7	5.4	4.2	1.9	1.5	2.2
26	2.1	12	44	23	11	11	7.7	5.1	3.9	1.9	1.4	2.2
27	2.1	14	31	43	11	11	7.3	4.8	3.6	1.8	1.5	2.1
28	2.2	32	15	27	16	10	6.9	4.5	3.4	1.8	5.4	2.2
29	2.6	19	12	26	-----	35	6.9	5.8	3.4	1.8	17	3.0
30	2.8	10	10	19	-----	27	8.1	5.4	3.2	1.7	5.8	2.4
31	3.0	-----	8.8	16	-----	18	-----	4.8	-----	1.7	3.4	-----
TOTAL	76.1	181.7	276.1	639.4	378	395.0	419.2	203.5	114.4	65.9	80.6	119.6
MEAN	2.45	6.06	8.91	20.6	13.5	12.7	14.0	6.56	3.81	2.13	2.60	3.99
MAX	3.6	32	44	110	23	35	42	11	12	3.0	17	31
MIN	1.9	2.1	3.5	4.5	10	9.0	6.9	4.5	2.8	1.7	1.4	2.1
CFSM	.34	.83	1.22	2.82	1.85	1.74	1.92	.90	.52	.29	.36	.55
IN.	.39	.92	1.41	3.25	1.92	2.01	2.13	1.04	.58	.34	.41	.61

CAL YR 1973 TOTAL 3,378.1 MEAN 9.26 MAX 101 MIN 1.7 CFSM 1.27 IN 17.19
WTR YR 1974 TOTAL 2,949.5 MEAN 8.08 MAX 110 MIN 1.4 CFSM 1.11 IN 15.01

PEAK DISCHARGE (BASE, 200 FT³/S)--Jan. 19 (0200) 421 FT³/S (3.23 ft).

Note: No gage height record Jan. 19 to 25.

03267000 Mad River near Urbana, Ohio

LOCATION.--Lat 40°06'27", long 83°47'57", on west line of sec. 35. T.5E., R.11N., Champaign County, on left bank at downstream side of bridge on U.S. Highway 36, 1.8 mi (2.9 km) upstream from Dugan Run, 1.8 mi (2.9 km) downstream from Muddy Creek, and 2.5 mi (4.0 km) west of Urbana.

DRAINAGE AREA.--162 mi² (420 km²).

PERIOD OF RECORD.--September 1925 to September 1931, August 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 985.22 ft (300.295 m) above mean sea level. Prior to May 18, 1930, nonrecording gage at same site and datum. May 18, 1930, to Sept. 30, 1931, nonrecording gage at site 600 ft (183 m) downstream at datum 0.36 ft (0.110 m) lower. Aug. 1 to Sept. 25, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--41 years, 141 ft³/s (3.993 m³/s), 11.82 in/yr (300.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,970 ft³/s (55.8 m³/s) Jan. 19, gage height, 6.15 ft (1.875 m); minimum, 83 ft³/s (2.35 m³/s) Aug. 15.

Period of record: Maximum discharge, 8,000 ft³/s (227 m³/s) Jan. 22, 1959, gage height, 12.05 ft (3.673 m), from rating curve extended above 4,000 ft³/s (113 m³/s) on basis of estimate of peak flow based on contracted-opening measurement at site 3 mi (5 km) downstream with drainage area of 235 mi² (609 km²) adjusted to gage site by 0.8 power of the drainage-area ratio; minimum, 2.1 ft³/s (0.059 m³/s) Jan. 21, 1963, gage height, 2.33 ft (0.710 m), result of freezeup; minimum daily, 24 ft³/s (0.68 m³/s) Feb. 2, 3, 1945, Jan. 13, 1964.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph, tapes and 11 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 1305: 1930(M). WSP 1505: 1956. WSP 1625: 1929. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	171	247	223	340	277	264	201	181	144	93	122
2	181	156	227	200	326	247	827	191	175	138	92	111
3	156	139	215	190	304	235	410	198	168	135	99	134
4	165	136	208	180	290	231	415	187	165	133	100	123
5	187	131	215	170	269	273	322	184	162	134	94	107
6	162	131	194	170	277	247	308	181	165	132	92	99
7	153	129	181	160	350	231	286	178	162	129	91	96
8	147	129	175	160	299	219	277	181	162	127	90	93
9	145	126	171	170	269	212	290	194	165	126	90	94
10	142	126	168	160	256	208	375	184	162	126	88	93
11	136	124	159	160	247	201	425	181	159	123	91	93
12	136	124	156	160	243	205	365	205	159	120	89	179
13	139	121	168	150	277	194	317	191	150	120	88	143
14	162	121	181	150	331	191	299	184	150	120	97	123
15	145	131	162	160	256	194	286	175	156	114	86	112
16	136	168	156	282	243	231	264	171	153	112	87	103
17	134	139	147	495	235	208	243	223	150	112	87	101
18	131	134	145	527	223	198	231	420	147	111	101	98
19	131	131	145	1,280	277	194	227	252	147	109	144	94
20	129	129	175	673	326	191	219	215	147	107	106	92
21	126	129	187	750	269	194	215	198	145	105	98	90
22	126	131	165	522	365	187	227	194	178	105	94	87
23	126	129	156	549	313	191	227	322	415	106	92	87
24	124	131	150	473	264	184	212	247	239	103	92	88
25	126	479	269	400	239	178	205	208	201	100	89	87
26	124	406	462	380	231	184	201	198	191	100	89	88
27	124	350	544	767	227	191	198	187	171	99	93	88
28	124	440	326	522	269	184	191	181	159	97	115	90
29	126	415	277	511	-----	345	187	194	155	95	130	94
30	134	295	282	425	-----	415	194	212	152	96	131	91
31	131	-----	243	385	-----	313	-----	191	-----	93	109	-----
TOTAL	4,364	5,601	6,656	11,504	7,815	6,953	8,707	6,428	5,191	3,571	3,037	3,100
MEAN	141	187	215	371	279	224	290	207	173	115	98.0	103
MAX	187	479	544	1,280	365	415	827	420	415	144	144	179
MIN	124	121	145	150	223	178	187	171	145	93	86	87
CFSM	.87	1.15	1.33	2.29	1.72	1.38	1.79	1.28	1.07	.71	.60	.64
IN.	1.00	1.29	1.53	2.64	1.79	1.60	2.00	1.48	1.19	.82	.70	.71

CAL YR 1973 TOTAL 83,577 MEAN 229 MAX 1,490 MIN 121 CFSM 1.41 IN 19.19
WTR YR 1974 TOTAL 72,927 MEAN 200 MAX 1,280 MIN 86 CFSM 1.23 IN 16.75

PEAK DISCHARGE (BASE, 1,400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1130	6.15	1,970	4-2	0600	5.72	1,630

GREAT MIAMI RIVER BASIN

03267500 Mad River at Tremont City, Ohio

LOCATION.--Lat 40°00'25", long 83°49'24", in NW 1/4 sec. 4, R.10, T.4, Clark County, on right bank at downstream side of bridge on Tremont City Road, 500 ft (152 m) upstream from Chapman Creek, 0.8 mi (1.3 km) southeast of Tremont City, and 1.3 mi (2.1 km) downstream from Storms Creek.

DRAINAGE AREA.--264 mi² (684 km²).

PERIOD OF RECORD.--July 1931 to March 1933, October 1965 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 926.40 ft (282.366 m) above mean sea level. July 23, 1931, to Mar. 31, 1933, nonrecording gage at same site at datum 2.92 ft (0.890 m) higher.

AVERAGE DISCHARGE.--10 years (1932, 1966-74) 256 ft³/s (7.250 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,230 ft³/s (91.5 m³/s) Jan. 19, gage height, 10.43 ft (3.179 m); minimum, 148 ft³/s (4.19 m³/s) Aug. 15, 18, 25, 26, 27, Sept. 26, 27.

Period of record: Maximum discharge, 11,900 ft³/s (337 m³/s), June 26, 1971, gage height, 16.12 ft (4.913 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s); minimum, 69 ft³/s (1.95 m³/s) Jan. 27, Feb. 1, 1971, result of freezeup.

Flood in March 1913 reached a stage of 19.2 ft (5.85 m), present datum, from data furnished by Miami Conservancy District.

REMARKS.--Records good. Water supply for the city of Springfield is pumped from wells adjacent to Mad River downstream from the station. Recharge to the well field is largely by induced infiltration from the river. At times the cone of depression of the well field extends upstream from the station. See REMARKS for station No. 03267900. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	273	391	358	513	455	588	310	273	240	156	209
2	265	242	358	310	491	415	1,490	297	265	224	156	194
3	238	224	336	290	460	396	738	306	257	224	176	254
4	238	212	331	280	440	396	726	289	250	220	180	227
5	269	209	344	270	420	491	551	285	246	220	160	198
6	242	201	318	260	481	435	507	277	250	212	160	180
7	231	198	297	250	572	396	465	273	242	209	156	173
8	224	198	285	260	470	377	476	281	238	205	156	170
9	216	194	277	270	425	363	534	289	238	201	156	166
10	212	190	273	260	400	354	702	277	235	201	153	163
11	205	190	265	250	391	344	744	269	231	201	160	163
12	201	190	261	250	391	349	588	297	231	198	156	250
13	209	190	297	250	435	331	502	281	227	194	150	220
14	238	187	297	250	497	323	455	269	224	190	170	190
15	220	198	273	290	405	327	435	261	231	190	150	176
16	209	265	257	673	391	386	400	257	224	187	150	170
17	205	220	242	854	377	354	381	327	220	183	160	166
18	198	209	242	830	367	336	372	572	220	183	156	160
19	198	205	238	2,200	476	331	363	354	220	183	216	156
20	194	198	306	1,090	540	323	349	310	220	180	176	163
21	190	205	327	1,180	440	336	344	293	231	176	166	156
22	190	205	281	824	605	323	380	289	344	176	160	150
23	190	198	269	981	513	323	380	476	702	180	156	150
24	187	216	257	768	440	314	350	372	363	173	156	150
25	183	891	556	639	405	306	330	318	310	170	150	150
26	183	650	762	673	386	314	310	297	293	170	148	150
27	183	633	824	1,280	381	323	310	281	273	166	156	150
28	187	830	529	774	435	310	306	273	257	163	220	153
29	194	644	465	714	-----	854	302	302	240	163	257	166
30	205	460	455	616	-----	879	302	323	230	160	246	156
31	205	-----	391	561	-----	583	-----	289	-----	156	190	-----
TOTAL	6,555	9,125	11,004	18,755	12,547	12,347	14,680	9,594	7,985	5,898	5,258	5,279
MEAN	211	304	355	605	448	398	489	309	266	190	170	176
MAX	269	891	824	2,200	605	879	1,490	572	702	240	257	254
MIN	183	187	238	250	367	306	302	257	220	156	148	150

CAL YR 1973 TOTAL 131,651 MEAN 361 MAX 1,580 MIN 183
WTR YR 1974 TOTAL 119,027 MEAN 326 MAX 2,200 MIN 148

PEAK DISCHARGE (BASE, 2,100 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	0730	10.43	3,230	4-2	0530	9.27	2,300
1-27	0030	9.09	2,150				

03267900 Mad River at St. Paris Pike at Eagle City, Ohio

LOCATION.--Lat 39°57'51", long 83°49'54", in W 1/2 sec. 1, R. 10, T.4, Clark County, on left bank at downstream side of bridge on St. Paris Pike, 0.8 mi (1.3 km) southeast of Eagle City, 1.1 mi (1.8 km) downstream from Moore Run, 3.1 mi (5.0 km) upstream from Buck Creek, and 3.3 mi (5.3 km) south of Tremont City.

DRAINAGE AREA.--310 mi² (803 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 904.66 ft (275.740 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 301 ft³/s (8.524 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,290 ft³/s (121 m³/s) Jan. 19, gage height, 11.51 ft (3.508 m); minimum, 147 ft³/s (4.16 m³/s) July 31, Aug. 2, 13, 15.

Period of record: Maximum discharge, 9,700 ft³/s (275 m³/s) June 26, 1971, gage height, 16.00 ft (4.877 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s); minimum, 91 ft³/s (2.58 m³/s) Sept. 19, 1966.

Flood in March 1913 reached a stage of 19.8 ft (6.04 m), from data furnished by Miami Conservancy District. Flood of Jan. 21, 1959 reached a stage of 15.7 ft (4.79 m).

REMARKS.--Records good. Water supply for city of Springfield is pumped from wells, adjacent to Mad River, just upstream from station. Recharge to the well field is largely by induced infiltration from Mad River and Moore Run. The pumpage averaged 26.0 ft³/s (0.74 m³/s) in 1974 and is returned as sewage 1.4 mi (2.3 km) upstream from the station near Springfield. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276	334	494	425	592	509	714	318	282	268	155	233
2	300	282	425	360	560	456	1,990	303	264	245	155	217
3	252	246	390	330	513	428	991	312	255	234	195	318
4	249	233	383	310	480	420	974	291	246	231	198	272
5	297	225	400	300	444	570	705	282	241	233	165	222
6	264	215	390	290	488	490	638	279	241	225	161	201
7	244	210	370	280	728	429	571	267	236	219	157	189
8	233	210	350	270	542	397	602	282	233	217	159	180
9	228	205	340	300	464	380	721	294	228	213	157	175
10	220	200	330	280	426	366	995	273	225	210	153	172
11	215	197	320	260	412	352	1,080	267	223	209	165	171
12	212	197	310	260	406	354	825	303	223	202	159	294
13	220	195	317	260	471	331	654	282	218	198	151	254
14	258	192	337	270	565	322	570	264	218	199	172	217
15	236	210	298	350	433	328	517	255	231	197	153	196
16	220	294	275	800	410	403	459	249	220	192	157	186
17	215	241	255	1,290	391	363	430	306	215	189	178	181
18	207	225	250	1,170	376	338	409	690	215	186	157	174
19	207	218	246	2,990	532	331	393	344	215	185	238	169
20	205	210	348	1,510	651	316	375	288	215	178	190	176
21	200	215	384	1,750	495	344	368	264	249	173	170	169
22	197	215	310	1,120	766	325	401	267	476	175	163	162
23	197	207	293	1,350	618	320	393	599	1,130	183	159	161
24	197	238	279	1,030	500	312	358	430	508	175	161	160
25	195	1,230	676	803	440	296	337	347	393	167	153	159
26	195	1,020	1,100	778	410	308	325	312	363	165	151	158
27	195	960	1,200	1,760	404	319	318	291	315	163	159	160
28	202	1,240	734	1,010	480	306	312	291	291	159	306	168
29	210	970	628	896	-----	1,150	306	340	276	159	325	193
30	223	629	611	749	-----	1,220	312	368	262	157	311	172
31	223	-----	491	668	-----	867	-----	306	-----	153	215	-----
TOTAL	6,992	11,463	13,534	24,219	13,997	13,650	18,043	9,964	8,907	6,059	5,648	5,859
MEAN	226	382	437	781	500	440	601	321	297	195	182	195
MAX	300	1,240	1,200	2,990	766	1,220	1,990	690	1,130	268	325	318
MIN	195	192	246	260	376	296	306	249	215	153	151	158

CAL YR 1973 TOTAL 158,164 MEAN 433 MAX 2,020 MIN 192
WTR YR 1974 TOTAL 138,335 MEAN 379 MAX 2,990 MIN 151

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	0800	11.51	4,290	4-2	0600	9.96	2,950
1-27	0200	9.74	2,770				

GREAT MIAMI RIVER BASIN

03267950 Buck Creek near New Moorefield, Ohio

LOCATION.--Lat 40°00'38", long 83°41'56", in SE 1/4 sec. 5, R.10, T.5, Clark County, on right bank at downstream side of bridge on State Highway 4, 2,000 ft (610 m) upstream from East Fork Buck Creek, 1.7 mi (2.7 km) northeast of New Moorefield, and 2.6 mi (4.2 km) downstream from Dugan Ditch.

DRAINAGE AREA.--30.5 mi² (79.0 km²).

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage 1,025.10 ft (312.450 m) above mean sea level. Prior to May 23, 1967 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--7 years, 28.1 ft³/s (0.796 m³/s), 12.51 in/yr (317.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 502 ft³/s (14.2 m³/s) Jan. 19, Mar. 29, gage height, 6.61 ft (2.015 m); minimum daily discharge, 16 ft³/s (0.45 m³/s) Aug. 15.

Period of record: Maximum discharge, 1,190 ft³/s (33.7 m³/s) May 25, 1970, gage height, 9.09 ft (2.771 m), from rating extended above 140 ft³/s (3.96 m³/s), minimum, 6.2 ft³/s (0.18 m³/s) Feb. 17, 1968, result of freezeup.

REMARKS.--Records fair except those for periods of doubtful gage height record, which are poor. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	26	26	42	34	41	44	43	31	28	18	23
2	39	24	24	38	32	40	150	35	30	28	18	22
3	33	23	24	34	30	39	52	39	29	27	19	27
4	31	22	24	32	30	37	61	38	29	28	20	22
5	32	22	23	31	31	39	46	37	29	27	18	21
6	31	22	22	30	44	42	44	35	28	27	17	21
7	29	21	21	29	66	39	43	33	28	28	17	20
8	28	21	21	28	40	37	44	36	28	28	17	20
9	28	21	21	30	32	35	47	38	28	28	17	20
10	26	21	20	31	30	34	71	35	28	27	17	21
11	26	21	20	30	30	32	104	34	27	27	17	21
12	26	21	20	28	36	30	66	41	27	27	17	26
13	27	21	21	27	42	28	50	38	27	26	17	23
14	26	21	21	28	42	26	47	34	27	25	18	22
15	26	22	20	44	36	33	45	31	26	24	16	22
16	25	22	19	69	31	39	44	30	26	24	17	22
17	25	21	29	97	28	35	43	39	26	24	20	22
18	25	21	41	52	26	32	44	66	26	25	18	22
19	25	21	28	207	43	30	44	42	26	25	19	21
20	25	21	50	64	44	35	42	30	25	24	18	21
21	24	22	44	101	38	38	41	27	26	22	17	21
22	24	22	38	52	62	37	42	30	39	22	17	22
23	24	21	35	102	46	35	41	66	67	21	18	21
24	23	24	34	55	38	33	40	40	33	21	19	21
25	23	74	110	47	36	31	39	30	30	21	18	21
26	23	46	140	48	35	35	38	25	29	20	18	20
27	23	45	110	98	38	33	38	24	29	20	18	20
28	23	72	70	49	41	31	36	25	28	20	25	21
29	24	39	58	44	-----	137	36	50	28	20	26	22
30	24	29	60	40	-----	77	40	37	28	18	36	21
31	23	-----	48	36	-----	47	-----	32	-----	18	23	-----
TOTAL	825	829	1,242	1,643	1,061	1,237	1,522	1,140	888	750	590	649
MEAN	26.6	27.6	40.1	53.0	37.9	39.9	50.7	36.8	29.6	24.2	19.0	21.6
MAX	39	74	140	207	66	137	150	66	67	28	36	27
MIN	23	21	19	27	26	26	36	24	25	18	16	20
CFSM	.87	.90	1.31	1.74	1.24	1.31	1.66	1.21	.97	.79	.62	.71
IN.	1.01	1.01	1.51	2.00	1.29	1.51	1.86	1.39	1.08	.91	.72	.79

CAL YR 1973 TOTAL 14,155 MEAN 38.8 MAX 145 MIN 19 CFSM 1.27 IN 17.26
WTR YR 1974 TOTAL 12,376 MEAN 33.9 MAX 207 MIN 16 CFSM 1.11 IN 15.09

PEAK DISCHARGE (BASE, 150 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1230	5.75	176	01-27	0215	5.20	195
01-19	0830	6.61	502	03-29	0615	6.61	502
01-21	1000	4.92	153	04-02	0330	6.14	385
01-23	1245	5.23	200	04-10	2245	5.00	165

Note: Doubtful gage height record
Dec. 14 to Mar. 28, Apr. 30 to
May 28.

03267960 East Fork Buck Creek near New Moorefield, Ohio

LOCATION.--Lat 40°00'22", long 83°41'37", in SE 1/4 sec. 5, R.10, T.5, Clark County, on right bank at downstream side of bridge on Baldwin Lane, 1,500 ft (457 m) upstream from mouth, 0.6 mi (1.0 km) downstream from unnamed left bank tributary, and 1.6 mi (2.6 km) northeast of New Moorefield.

DRAINAGE AREA.--28.7 mi² (74.3 km²).

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage 1,022.71 ft (311.722 m) above mean sea level. Prior to May 23, 1967, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--7 years, 37.3 ft³/s (1.056 m³/s), 16.94 in/yr (430.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,040 ft³/s (29.5 m³/s) Apr. 2, gage height, 9.95 ft (3.033 m); minimum, 12 ft³/s (0.34 m³/s) Aug. 25, 26, 27.

Period of record: Maximum discharge, 1,180 ft³/s (33.4 m³/s) Aug. 9, 1969, gage height, 9.98 ft (3.042 m), from rating curve extended above 290 ft³/s (8.21 m³/s), minimum, 6.2 ft³/s (0.18 m³/s) part of each day June 13-15, 21, July 19-22, 24, Aug. 1-3, 5-7, 11, 1971.

REMARKS.--Records good except those for periods of no gage height record, indefinite stage discharge relation and those above 200 ft³/s, which are fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	28	25	34	45	43	91	39	35	26	14	21
2	42	22	24	33	44	40	332	39	33	25	15	20
3	30	20	23	32	42	38	218	43	32	24	17	31
4	26	19	21	30	39	38	185	39	30	23	17	24
5	23	19	20	29	38	44	84	37	30	23	15	20
6	22	18	19	28	53	39	74	37	28	23	15	18
7	21	18	18	26	83	37	67	36	28	22	15	17
8	20	18	18	28	45	35	80	35	28	21	15	17
9	20	17	18	29	39	34	109	43	27	21	15	16
10	20	17	17	30	37	33	149	37	26	21	15	16
11	19	17	16	27	35	32	131	35	26	21	16	16
12	19	17	16	26	39	32	91	36	26	20	15	25
13	19	17	17	25	44	31	73	35	25	20	15	21
14	20	17	17	26	42	31	69	34	24	20	15	19
15	19	18	16	84	37	32	63	33	27	19	14	17
16	18	18	18	187	35	38	59	32	25	19	14	17
17	18	17	28	103	34	33	56	32	25	18	19	16
18	18	17	40	85	34	31	53	45	24	18	16	16
19	18	17	27	239	55	31	51	36	24	17	15	15
20	18	17	48	102	51	30	49	34	24	17	15	15
21	17	18	41	224	44	34	49	32	28	16	14	16
22	17	18	33	75	77	32	48	32	50	16	14	15
23	17	17	31	158	50	31	49	60	105	17	14	15
24	17	21	31	78	43	31	46	45	45	17	14	15
25	17	75	112	60	39	28	44	36	38	16	13	15
26	17	45	130	61	38	32	44	34	37	15	13	14
27	17	50	80	121	38	32	42	32	32	15	13	14
28	17	72	54	63	44	31	40	31	30	15	30	15
29	19	36	56	56	-----	175	40	64	28	15	28	21
30	20	28	48	51	-----	153	39	55	27	15	23	18
31	20	-----	42	48	-----	67	-----	40	-----	14	19	-----
TOTAL	645	748	1,104	2,198	1,244	1,348	2,525	1,198	967	589	502	535
MEAN	20.8	24.9	35.6	70.9	44.4	43.5	84.2	38.6	32.2	19.0	16.2	17.8
MAX	42	75	130	239	83	175	332	64	105	26	30	31
MIN	17	17	16	25	34	28	39	31	24	14	13	14
CFSM	.72	.87	1.24	2.47	1.55	1.52	2.93	1.34	1.12	.66	.56	.62
IN.	.84	.97	1.43	2.85	1.61	1.75	3.27	1.55	1.25	.76	.65	.69

CAL YR 1973 TOTAL 16,888 MEAN 46.3 MAX 376 MIN 16 CFSM 1.61 IN 21.89
WTR YR 1974 TOTAL 13,603 MEAN 37.3 MAX 332 MIN 13 CFSM 1.30 IN 17.63

PEAK DISCHARGE (BASE, 350 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	2100	7.51	492	03-30	0330	7.56	422
01-16	1730	7.92	494	04-02	0130	9.95	1,040
01-21	0230	8.29	572	04-03	2000	9.63	939
01-27	0030	7.54	418				

Note: No gage height record
Nov. 10 to Dec. 19, indefinite
stage discharge relation Dec. 26
to Jan. 15.

GREAT MIAMI RIVER BASIN

03268090 Clarence J. Brown Reservoir near Springfield, Ohio

LOCATION.--Lat 39°57'01", long 83°44'51", in SE 1/4 sec. 13, R.10, T.5, Clark County, in gate house of dam on Buck Creek, 1.3 mi (2.1 km) upstream from Beaver Creek, 4.0 mi (6.4 km) northeast of city hall in Springfield, and 7.3 mi (11.7 km) upstream from confluence with Mad River.

DRAINAGE AREA.--82.0 mi² (212 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--April to September: Maximum contents, 16,580 acre-ft (20.4 hm³) September 30, elevation, 1,000.48 ft (304.946 m); minimum, 12,990 acre-ft (16.0 hm³) May 7, elevation, 997.73 ft (304.108 m).

REMARKS.--Reservoir is formed by rolled rock-fill dam having an impervious core with sand and gravel shell, and an open cut spillway. Storage began in January 1974, recorder was installed and records began April 16, 1974. Usable capacity 63,690 acre-ft (78.5 hm³) between elevations 968.0 ft (295.05 m), lowest outlet, and 1,023.0 ft (311.81 m), crest of spillway. Dead storage below elevation 968.0 ft (295.05 m) 6 acre-ft (7,400 m³). Figures given herein represent usable contents. Reservoir is used for flood control, low-flow augmentation and recreation. There are no gates on spillway and all regulation is done by gates in conduit through dam.

COOPERATION.--Water-stage recorder graph and capacity table furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....			
Oct. 31.....			
Nov. 30.....			
Dec. 31.....			
CAL YR 1973.....			
Jan. 31.....			
Feb. 28.....			
Mar. 31.....			
Apr. 30.....	997.98	13,290	-
May 31.....	997.99	13,300	+10
June 30.....	998.25	13,630	+330
July 31.....	998.10	13,440	-190
Aug. 31.....	999.23	14,880	+1,440
Sept. 30.....	1,000.48	16,580	+1,700
WTR YR 1974.....	-	-	-

03268500 Beaver Creek near Springfield, Ohio

LOCATION.--Lat 39°56'26", long 83°44'56", in sec. 18, R.9, T.5, Clark County, on right bank at upstream side of Croft Road Bridge, 0.8 mi (1.3 km) upstream from mouth, 2.1 mi (3.4 km) downstream from Sinking Creek, and 3.5 mi (5.6 km) east of Springfield.

DRAINAGE AREA.--39.2 mi² (102 km²).

PERIOD OF RECORD.--October 1942 to September 1958, December 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 954.64 ft (290.974 m) above mean sea level (levels by Corps of Engineers). October 1942 to September 1958 at same site at datum 960.98 ft (292.907 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--17 years (1943-58, 1974), 39.4 ft³/s (1.116 m³/s), 13.65 in/yr (346.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,040 ft³/s (29.5 m³/s) Apr. 3, gage height, 8.58 ft (2.615 m); minimum, 9.1 ft³/s (0.26 m³/s) Sept. 9, 10, 11.

Period of record: Maximum discharge, 4,980 ft³/s (141 m³/s) Feb. 13, 1948, gage height, 7.95 ft (2.423 m), in gage well, datum then in use, from rating curve extended above 2,100 ft³/s (59.5 m³/s); minimum, 3.3 ft³/s (0.093 m³/s) Jan. 25, 1945.

Flood of Jan. 21, 1959, reached a stage of 9.0 ft (2.74 m), datum then in use, from floodmark, discharge 4,950 ft³/s (140 m³/s), on basis of slope-area measurement of peak flow.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1943-45, 1948(M), 1952(M), WRD Ohio 1973: Drainage area. The figures of peak discharge for the period June 13, 1973 to September 1973 have been revised as shown below. They supersede figures published in WRD Ohio 1973.

REVISED PEAK DISCHARGE.--June 20 (0815) 508 ft³/s (7.07 ft); July 4 (0045) 698 ft³/s (7.68 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	41	80	51	52	53	85	35	27	22	9.5	24
2	66	32	68	42	49	50	496	33	24	19	9.5	16
3	44	27	58	39	46	47	328	37	22	17	11	31
4	34	24	56	36	42	45	543	33	20	17	11	25
5	30	24	52	34	39	46	147	31	19	16	11	17
6	25	24	47	33	45	44	97	30	19	16	10	13
7	23	22	43	32	134	43	77	28	19	16	9.8	11
8	22	22	40	31	66	41	159	32	20	14	9.8	10
9	20	20	37	33	50	39	220	37	20	14	9.8	9.5
10	19	19	36	37	44	37	210	33	19	14	10	9.1
11	19	18	32	37	41	35	136	31	18	14	12	9.8
12	17	18	32	32	41	35	88	32	18	13	12	41
13	17	18	37	31	48	32	70	30	17	12	11	31
14	20	18	44	32	49	31	62	28	16	11	11	30
15	19	18	39	74	42	32	54	24	22	11	10	21
16	19	40	35	228	40	41	49	23	21	11	9.5	17
17	18	32	32	206	39	38	45	26	19	10	33	15
18	18	27	30	128	37	35	43	51	17	10	16	14
19	18	27	29	295	55	34	41	38	16	10	13	12
20	18	26	57	170	78	32	37	32	17	9.8	11	11
21	16	29	62	337	59	39	37	29	18	9.5	11	13
22	15	27	45	131	104	39	40	29	25	10	11	12
23	15	25	40	161	82	36	41	56	90	12	10	11
24	15	61	38	112	59	35	37	53	48	11	11	10
25	15	466	85	80	49	33	35	40	35	11	15	10
26	15	210	182	73	44	35	35	34	35	10	17	9.8
27	15	230	214	186	44	39	33	30	31	10	18	9.8
28	16	180	92	93	49	37	32	27	27	9.8	35	12
29	17	130	78	78	-----	96	32	30	25	10	23	33
30	23	100	79	66	-----	196	32	32	23	11	29	26
31	23	-----	61	58	-----	112	-----	29	-----	9.8	30	-----
TOTAL	688	1,955	1,860	2,976	1,527	1,487	3,341	1,033	747	390.9	449.9	514.0
MEAN	22.2	65.2	60.0	96.0	54.5	48.0	111	33.3	24.9	12.6	14.5	17.1
MAX	66	466	214	337	134	196	543	56	90	22	35	41
MIN	15	18	29	31	37	31	32	23	16	9.5	9.5	9.1
CFSM	.57	1.66	1.53	2.45	1.39	1.22	2.83	.85	.64	.32	.37	.44
IN.	.65	1.86	1.77	2.82	1.45	1.41	3.17	.98	.71	.37	.43	.49

CAL YR 1973 TOTAL 20,533.0 MEAN 56.3 MAX 466 MIN 13 CFSM 1.44 IN 19.49
WTR YR 1974 TOTAL 16,968.8 MEAN 46.5 MAX 543 MIN 9.1 CFSM 1.19 IN 16.10

PEAK DISCHARGE (BASE, 400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	1245	8.01	814	04-02	0345	8.03	820
01-21	0600	7.08	510	04-03	2200	8.58	1,040

GREAT MIAMI RIVER BASIN

03269000 Buck Creek at Springfield, Ohio

LOCATION.--Lat 39°55'57", long 83°48'59", on west line sec. 35, R.9, T.5, Clark County, on right bank at downstream side of Plum Street Bridge in Springfield, 0.3 mi (0.5 km) upstream from concrete control dam, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--139 mi² (360 km²).

PERIOD OF RECORD.--July 1914 to September 1921, May 1924 to September 1949, annual maximum, water years 1913, 1959-72 and July 1973 to September 1974 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 906.85 ft (276.408 m) above mean sea level, adjustment of 1912. July 14, 1914 to September 30, 1921 nonrecording gage at present site, at datum 1 ft (0 m) higher. May 23, 1924 to September 30, 1928 nonrecording gage 0.5 mi (0.8 km) upstream, at datum 6.17 ft (1.881 m) higher. October 1, 1928 to September 30, 1949 at present site and datum.

AVERAGE DISCHARGE.--33 years (1914-21, 1924-49, 1974), 123 ft³/s (3.483 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,820 ft³/s (51.5 m³/s) Apr. 4, gage height, 5.41 ft (1.649 m); minimum daily discharge 30 ft³/s (0.85 m³/s) Oct. 18.

Period of record (1914-21, 1924-49, 1973-74): Maximum discharge, 13,000 ft³/s (368 m³/s) Feb. 26, 1929, gage height, 14.3 ft (4.36 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope area determinations and computed flow over dam; minimum, 2.1 ft³/s (0.059 m³/s) July 30, 1936; minimum daily, 4.0 ft³/s (0.11 m³/s) July 30, 1936.

Flood of Mar. 25, 1913 reached a stage of 13.3 ft (4.05 m) present datum, discharge, 11,100 ft³/s (314 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good to June 15, fair thereafter. Flow partly regulated by unfinished C. J. Brown Reservoir since 1972. Records of discharge do not include minor diversion, less than 2 ft³/s (0.057 m³/s), from pool for use in municipal park and returned to stream downstream from control. Prior to 1958 diversion upstream from station for municipal supply of city of Springfield. Prior to 1936 part of sewage return flow bypassed station; subsequent to 1936 all sewage return flow bypassed station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	145	222	171	215	83	331	205	145	57	49	54
2	243	120	198	130	211	80	735	149	141	49	54	49
3	165	106	184	99	205	77	661	127	123	41	68	99
4	130	99	181	99	276	77	1,170	116	120	68	54	74
5	130	106	184	96	364	86	585	145	116	86	51	62
6	80	99	168	96	283	74	311	194	116	152	49	57
7	134	96	158	96	295	71	211	194	113	152	49	54
8	103	93	149	93	215	68	279	83	113	152	49	54
9	68	93	145	99	162	65	355	62	113	152	49	54
10	44	89	141	103	198	62	427	57	106	152	46	54
11	171	86	130	103	194	59	445	65	99	113	62	77
12	93	86	130	99	171	59	406	89	103	68	51	130
13	96	86	152	93	145	57	389	80	89	65	62	80
14	99	86	155	96	145	57	303	80	86	65	54	77
15	93	127	138	165	138	59	194	149	116	65	49	68
16	80	149	127	261	134	74	184	225	93	65	62	62
17	34	113	120	232	130	68	184	311	89	59	155	59
18	30	103	113	175	138	62	181	323	89	62	59	59
19	49	103	109	319	215	59	178	205	96	68	54	57
20	171	96	184	218	276	59	162	86	96	80	54	62
21	138	103	181	343	175	80	127	96	103	77	51	65
22	86	99	145	178	152	71	162	127	198	77	49	57
23	83	96	134	205	127	68	184	257	359	77	49	57
24	83	178	127	165	93	68	178	295	299	65	49	54
25	83	800	225	127	83	62	175	184	155	62	49	57
26	80	585	359	141	74	65	155	113	68	62	49	57
27	80	643	472	222	71	68	134	106	59	62	65	59
28	80	698	254	181	80	68	130	106	58	62	149	65
29	93	389	229	246	-----	194	158	106	158	65	80	96
30	99	268	229	232	-----	389	191	162	165	65	62	71
31	109	-----	191	222	-----	323	-----	184	-----	55	54	-----
TOTAL	3,218	5,940	5,634	5,105	4,965	2,812	9,285	4,681	3,784	2,500	1,886	1,980
MEAN	104	198	182	165	177	90.7	310	151	126	80.6	60.8	66.0
MAX	243	800	472	343	364	389	1,170	323	359	152	155	130
MIN	30	86	109	93	71	57	127	57	58	41	46	49
CFSM	.75	1.42	1.31	1.19	1.27	.65	2.23	1.09	.91	.58	.44	.47
IN.	.86	1.59	1.51	1.37	1.33	.75	2.48	1.25	1.01	.67	.50	.53

WTR YR 1974 TOTAL 51,790 MEAN 142 MAX 1,170 MIN 30 CFSM 1.02 IN 13.86

03269500 Mad River near Springfield, Ohio

LOCATION.--Lat 39°55'23", long 83°52'13", in NW 1/4 sec. 16, R.9, T.4, Clark County, on right bank 150 ft (46 m) downstream from Rock Run, 300 ft (91 m) downstream from bridge on Lower Valley Pike, 2 mi (3 km) downstream from Buck Creek, and 3 mi (5 km) west of Springfield.

DRAINAGE AREA.--490 mi² (1,269 km²).

PERIOD OF RECORD.--January 1904 to March 1906 (fragmentary), February 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 881.42 ft (268.657 m) above mean sea level, adjustment of 1912. Jan. 1, 1904, to Mar. 31, 1906, nonrecording gage at site 0.3 mi (0.5 km) downstream at different datum. Feb. 1, 1914, to Feb. 29, 1924, nonrecording gage at site 1.8 mi (2.9 km) upstream at datum 6.39 ft (1.948 m) higher. Mar. 1, 1924, to July 31, 1925, nonrecording gage at site 300 ft (91 m) upstream at same datum.

AVERAGE DISCHARGE.--61 years, (1904-05, 1914-74), 483 ft³/s (13.68 m³/s), 13.39 in/yr (340.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,560 ft³/s (129 m³/s) Apr. 2, gage height, 7.32 ft (2.231 m); minimum, 218 ft³/s (6.17 m³/s) Aug. 1, 2, 11, 16, 26, 27.

Period of record: Maximum discharge, 30,500 ft³/s (864 m³/s) Jan. 21, 1959, gage height, 15.76 ft (4.804 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of slope-area and contracted-opening measurements of peak flow; minimum, 30 ft³/s (0.85 m³/s) Sept. 15, 1904.

Flood of March 25, 1913 reached a stage of 16.9 ft (5.15 m), present datum, discharge, 55,400 ft³/s (1,570 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Some regulation by unfinished C. J. Brown Reservoir, 8.3 mi (13.4 km) upstream on Buck Creek, since 1972. Occasional low-flow regulation by power plant 2.3 mi (3.7 km) upstream; daily flows are not affected appreciably. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 603: 1924. WSP 823: 1929(M). WSP 1305: 1914(M), 1916-17(M), 1922-23(M), 1925(M). WSP 1625: 1924(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	585	522	900	700	969	712	1,250	658	506	379	228	329
2	720	441	760	610	929	650	3,360	573	478	326	245	305
3	499	391	698	564	872	610	1,820	553	449	308	314	503
4	449	363	650	530	920	610	2,600	498	435	317	282	392
5	490	384	706	510	1,020	785	1,540	510	425	335	244	325
6	400	347	626	490	1,020	688	1,140	587	429	400	237	296
7	427	344	562	488	1,330	618	959	571	420	392	234	274
8	396	340	540	430	961	570	1,130	496	412	394	235	266
9	351	332	520	481	769	539	1,340	454	403	391	233	263
10	302	323	502	509	785	509	1,600	414	394	387	227	261
11	445	317	467	487	769	502	1,700	410	385	354	275	294
12	360	320	460	454	728	502	1,400	490	377	286	242	575
13	378	317	626	436	744	469	1,220	445	348	276	238	390
14	400	317	610	451	841	456	1,060	422	341	279	280	338
15	376	407	560	699	696	482	865	480	431	276	232	300
16	352	486	480	1,320	665	586	801	593	357	269	264	284
17	286	393	424	1,630	634	517	763	825	341	265	482	276
18	277	366	430	1,330	626	489	736	1,220	336	262	250	267
19	281	352	424	3,490	904	476	711	753	353	266	306	260
20	413	342	650	2,020	1,160	456	667	518	347	273	272	280
21	385	371	714	2,430	841	547	603	486	378	265	252	291
22	323	347	580	1,520	1,080	489	724	533	676	268	242	253
23	320	335	540	1,870	912	469	719	1,040	1,560	274	240	249
24	316	368	520	1,430	728	476	670	941	962	254	238	247
25	314	1,780	800	1,100	642	443	638	666	682	246	225	246
26	310	1,590	1,450	1,070	602	456	596	522	507	244	226	245
27	306	1,710	2,190	2,260	586	476	546	486	427	240	274	253
28	309	2,360	1,150	1,380	673	463	534	469	384	234	638	277
29	345	1,580	1,000	1,330	-----	1,520	558	558	468	235	462	387
30	366	1,070	880	1,160	-----	1,960	638	644	502	233	448	287
31	378	-----	814	1,060	-----	1,400	-----	601	-----	230	297	-----
TOTAL	11,859	18,915	22,233	34,239	23,406	19,925	32,888	18,416	14,513	9,158	8,862	9,218
MEAN	383	631	717	1,104	836	643	1,096	594	484	295	286	307
MAX	720	2,360	2,190	3,490	1,330	1,960	3,360	1,220	1,560	400	638	575
MIN	277	317	424	430	586	443	534	410	336	230	225	245
CFSM	.78	1.29	1.46	2.25	1.71	1.31	2.24	1.21	.99	.60	.58	.63
IN.	.90	1.44	1.69	2.60	1.78	1.51	2.50	1.40	1.10	.70	.67	.70

CAL YR 1973 TOTAL 266,599 MEAN 730 MAX 3,040 MIN 277 CFSM 1.49 IN 20.24
WTR YR 1974 TOTAL 223,632 MEAN 613 MAX 3,490 MIN 225 CFSM 1.25 IN 16.98

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1330	7.27	4,520	4-2	0700	7.32	4,560

GREAT MIAMI RIVER BASIN

03270000 Mad River near Dayton, Ohio

LOCATION.--Lat 39°47'50", long 84°05'19", in SW 1/4 sec. 7, R.8, T.2, Greene County, on left bank in retarding basin 300 ft (91 m) upstream from Huffman Dam, 2.3 mi (3.7 km) downstream from Mud Run, and 6.2 mi (10.0 km) northeast of Dayton.

DRAINAGE AREA.--635 mi² (1,645 km²).

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 776.96 ft (236.817 m) above mean sea level, adjustment of 1912. Jan. 21, 1959 to Dec. 14, 1967, at site 900 ft (274 m) downstream, at datum 77.01 ft (23.473 m) lower. See WSP 1725 for history of changes prior to Jan. 21, 1959.

AVERAGE DISCHARGE.--60 years, 618 ft³/s (17.50 m³/s), 13.22 in/yr (335.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,080 ft³/s (144 m³/s) Apr. 2, gage height, 11.13 ft (3.392 m); minimum, 264 ft³/s (7.48 m³/s) Aug. 2.

Period of record: Maximum discharge, 21,200 ft³/s (600 m³/s) Jan. 22, 1959 (based on Huffman retarding basin outflow records); maximum gage height, 87.9 ft (26.79 m) Feb. 26, 1929 at site and datum then in use; minimum discharge, 91 ft³/s (2.58 m³/s) Aug. 6, 9, 1934, but may have been less during period 1921-24.

Flood of Mar. 25, 1913 reached a stage of 14.0 ft (4.27 m), original site and datum, discharge, 75,700 ft³/s (2,140 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Flood flows affected by backwater from Huffman retarding dam beginning in 1921. Also see REMARKS for station 03269500. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 453: 1915. WSP 743: 1929-32. WSP 1305: 1916(M), 1925(M), 1930-32(M). WSP 1908: 1922(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	660	655	1,170	925	1,180	871	1,490	844	655	597	268	533
2	974	610	1,000	803	1,120	826	4,220	754	610	448	275	484
3	727	524	916	754	1,050	781	2,330	754	570	414	374	808
4	619	466	889	714	1,020	758	3,180	682	547	390	419	718
5	628	488	907	650	1,160	898	2,110	651	524	386	308	533
6	570	448	817	620	1,150	894	1,540	718	524	488	293	453
7	466	427	740	600	1,740	799	1,310	718	538	484	290	410
8	551	423	700	560	1,260	844	1,610	687	529	470	304	378
9	475	419	669	600	1,010	736	1,980	696	515	457	297	366
10	394	402	655	669	960	696	2,170	597	493	511	290	358
11	493	390	624	640	939	664	2,270	565	479	488	370	370
12	439	390	606	580	894	660	1,870	669	479	358	326	875
13	439	390	691	540	885	633	1,580	633	466	334	300	669
14	493	386	758	592	965	606	1,410	601	448	334	366	547
15	462	448	691	875	853	606	1,140	592	547	334	300	453
16	439	615	633	1,710	808	714	1,030	723	493	322	290	410
17	382	511	579	2,310	781	682	978	875	462	315	812	386
18	354	448	574	1,660	749	633	934	1,720	439	311	402	378
19	346	431	556	3,510	921	615	898	1,050	462	311	414	362
20	410	414	785	2,880	1,350	597	853	772	462	318	386	382
21	511	431	934	2,950	1,060	696	781	673	475	311	334	410
22	402	423	732	2,080	1,230	669	894	696	709	304	326	358
23	394	402	673	2,280	1,210	619	939	1,120	2,140	318	308	342
24	390	583	651	2,020	943	624	853	1,210	1,300	311	308	334
25	390	2,230	987	1,490	830	592	812	903	956	293	286	326
26	382	2,710	1,860	1,370	767	597	781	714	808	286	275	322
27	382	2,540	2,340	2,810	754	619	718	651	642	286	283	326
28	382	3,010	1,530	1,840	821	601	700	615	556	279	921	386
29	394	2,200	1,260	1,650	-----	1,360	700	646	565	283	947	592
30	475	1,500	1,300	1,450	-----	2,190	763	799	592	275	894	457
31	457	-----	1,060	1,300	-----	1,790	-----	754	-----	272	547	-----
TOTAL	14,880	25,314	28,287	43,432	28,410	24,870	42,844	24,082	18,985	11,288	12,513	13,726
MEAN	480	844	912	1,401	1,015	802	1,428	777	633	364	404	458
MAX	974	3,010	2,340	3,510	1,740	2,190	4,220	1,720	2,140	597	947	875
MIN	346	386	556	540	749	592	700	565	439	272	268	322
CFSM	.76	1.33	1.44	2.21	1.60	1.26	2.25	1.22	1.00	.57	.64	.72
IN.	.87	1.48	1.66	2.54	1.66	1.46	2.51	1.41	1.11	.66	.73	.80

CAL YR 1973 TOTAL 339,366 MEAN 930 MAX 4,700 MIN 346 CFSM 1.46 IN 19.88
WTR YR 1974 TOTAL 288,631 MEAN 791 MAX 4,220 MIN 268 CFSM 1.25 IN 16.91

03270500 Great Miami River at Dayton, Ohio

LOCATION.--Lat 39°45'55", long 84°11'51", in sec. 10, R.7, T.1, Montgomery County, on left bank 1,000 ft (305 m) downstream from Main Street Bridge in Dayton, 0.7 mi (1.1 km) upstream from Wolf Creek, and 0.8 mi (1.3 km) downstream from Mad River.

DRAINAGE AREA.--2,511 mi² (6,503 km²).

PERIOD OF RECORD.--April to September 1905, January to September 1906, January 1907 to December 1909 (gage heights only), April 1913 to current year. Monthly discharge only for October 1919 to September 1921, published in WSP 1305. Gage-height records collected at Main Street Bridge since January 1892 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Dayton.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level, adjustment of 1912. Prior to Oct. 1, 1921 nonrecording gage at Main Street Bridge at datum 23.73 ft (7.233 m) higher. Oct. 1, 1921, to July 24, 1931, nonrecording gage at Main Street Bridge at datum 21.00 ft (6.401 m) higher.

AVERAGE DISCHARGE.--45 years (1929-74), 2,100 ft³/s (59.47 m³/s).

EXTREMES.--Current year: Maximum discharge, 23,100 ft³/s (654 m³/s) Jan. 20, gage height, 29.71 ft (9.056 m); minimum, 378 ft³/s (10.7 m³/s) Aug. 2.

Period of record: Maximum discharge, 60,900 ft³/s (1,720 m³/s) Jan. 22, 1959, gage height, 35.45 ft (10.805 m) in gage well, from graph based on gage readings; 36.0 ft (10.97 m), from outside floodmarks; minimum, 78 ft³/s (2.21 m³/s) Sept. 26, 1941.

Flood of Mar. 26, 1913 reached a stage of 29.0 ft (8.84 m), site and datum then in use, discharge, 250,000 ft³/s (7,080 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Flood flow regulated by four retarding basins upstream from station beginning in 1920 on Mad River 6.5 mi (10.5 km) upstream, on Stillwater River 10.5 mi (16.9 km) upstream, on Great Miami River 11.5 mi (18.5 km) upstream, and on Loramie Creek 40 mi (64 km) upstream. Also see REMARKS for station No. 03261500, 03261950 and 03269500. Water is diverted 6 mi (10 km) upstream from station for use in Dayton; most of return flow from diversions bypasses station in Dayton sewer systems. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 8 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1385: 1917. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,010	1,140	4,480	3,810	4,490	4,230	7,840	1,710	1,360	1,360	392	2,210
2	1,530	1,200	3,280	2,800	3,920	4,160	11,000	1,590	1,190	1,250	435	1,610
3	1,150	1,020	2,750	2,500	3,580	3,340	7,560	1,650	1,090	1,090	636	2,430
4	1,060	879	2,520	2,300	3,170	2,970	10,100	1,450	1,010	946	707	2,470
5	1,020	878	2,550	2,100	2,950	3,470	13,100	1,400	955	889	513	2,120
6	1,000	745	2,510	1,900	2,960	5,450	10,300	1,420	953	967	494	1,380
7	874	718	2,120	1,800	4,610	3,980	6,740	1,350	941	967	464	1,010
8	881	696	1,870	1,800	4,110	3,770	6,500	1,520	959	901	510	831
9	758	670	1,760	1,700	3,180	3,190	7,080	1,500	902	834	471	750
10	670	634	1,710	1,800	2,660	2,670	9,060	1,330	857	906	396	698
11	719	602	1,600	1,600	2,500	2,470	9,190	1,330	813	908	678	691
12	681	614	1,510	1,500	2,400	2,310	7,000	1,630	798	825	587	1,460
13	703	616	1,670	1,400	2,530	2,160	5,100	1,960	758	712	492	1,480
14	819	603	1,940	1,400	3,430	2,100	4,220	1,780	732	638	588	1,790
15	806	792	2,080	2,190	3,580	1,900	3,540	1,470	926	656	585	1,370
16	778	964	1,770	4,540	2,880	2,050	3,000	1,470	833	594	959	1,020
17	681	915	1,490	9,910	2,340	2,450	2,640	2,360	789	577	1,750	842
18	628	850	1,410	11,100	2,080	2,360	2,420	4,060	700	501	795	741
19	599	783	1,300	17,300	2,380	2,110	2,250	2,790	736	519	846	683
20	615	723	1,770	22,700	6,000	1,920	2,090	1,940	742	502	735	672
21	684	746	2,030	21,800	5,280	2,150	1,950	1,610	1,040	467	584	654
22	610	746	1,740	18,800	6,510	1,970	2,160	1,560	2,450	464	520	560
23	609	719	1,500	15,200	9,470	1,870	2,210	2,020	8,750	507	510	555
24	600	1,220	1,300	12,600	6,180	1,850	2,030	2,570	5,850	480	472	544
25	584	4,610	2,580	8,750	4,070	1,810	1,880	2,130	3,750	456	422	536
26	575	9,420	12,200	6,790	3,130	1,680	1,750	1,640	3,040	444	417	522
27	562	8,950	15,500	9,840	2,820	1,750	1,560	1,370	2,140	441	419	524
28	561	9,890	13,400	10,300	3,010	2,000	1,480	1,260	1,580	428	1,940	605
29	624	8,990	9,260	8,670	-----	4,480	1,470	1,380	1,370	449	1,780	893
30	738	6,600	6,970	7,060	-----	11,600	1,600	1,560	1,270	422	3,280	689
31	744	-----	5,070	5,540	-----	11,000	-----	1,560	-----	413	2,810	-----
TOTAL	23,873	67,933	113,640	221,500	106,220	101,220	148,820	54,370	49,284	21,513	26,187	32,340
MEAN	770	2,264	3,666	7,145	3,794	3,265	4,961	1,754	1,643	694	845	1,078
MAX	1,530	9,890	15,500	22,700	9,470	11,600	13,100	4,060	8,750	1,360	3,280	2,470
MIN	561	602	1,300	1,400	2,080	1,680	1,470	1,260	700	413	392	522

CAL YR 1973 TOTAL 1,255,434 MEAN 3,440 MAX 18,800 MIN 561
WTR YR 1974 TOTAL 966,900 MEAN 2,649 MAX 22,700 MIN 392

GREAT MIAMI RIVER BASIN

03270800 Wolf Creek at Trotwood, Ohio

LOCATION.--Lat 39°47'39", long 84°18'36", Montgomery County, on right bank 350 ft (107 m) downstream from Union Road Bridge, 700 ft (213 m) downstream from unnamed right bank tributary, 0.2 mi (0.3 km) south of Trotwood, and 0.3 mi (0.5 km) upstream from confluence with North Branch.

DRAINAGE AREA.--22.7 mi² (58.8 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 826.28 ft (251.850 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 20.5 ft³/s (0.581 m³/s), 12.26 in/yr (311.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,220 ft³/s (62.9 m³/s) June 22, gage height, 5.46 ft (1.664 m); minimum daily discharge, 1.4 ft³/s (0.040 m³/s) Oct. 16, 17, July 30 to Aug. 1.

Period of record: Maximum discharge, 2,970 ft³/s (84.1 m³/s) May 24, 1968, gage height, 6.47 ft (1.972 m); no flow all or part of each day Sept. 8-17, Oct. 3, 1964, Sept. 16-19, 1967.

Maximum discharge during flood in January 1959, about 3,900 ft³/s (110 m³/s), gage height, 8.0 ft (2.44 m), computed by Miami Conservancy District on basis of estimate of peak flow based on contracted-opening measurement at site 1.1 mi (1.8 km) downstream with drainage area of 48.2 mi² (125 km²), adjusted to gage site by 0.8 power of the drainage-area ratio. Flood in March 1913 reached a stage of 9.4 ft (2.87 m), computed by Miami Conservancy District.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	11	24	24	20	33	103	9.8	6.8	14	1.4	14
2	10	3.5	20	22	19	33	244	8.2	5.6	11	1.6	13
3	3.9	2.5	17	20	16	27	66	9.8	4.6	9.0	7.5	106
4	6.2	2.1	20	18	15	26	52	6.8	4.6	8.2	3.8	27
5	5.7	3.8	22	15	14	51	33	6.2	4.6	9.0	2.0	12
6	2.5	3.0	14	13	22	34	27	6.2	8.2	6.8	1.8	6.8
7	2.2	2.1	11	12	72	27	23	5.1	4.6	6.8	2.0	4.6
8	1.9	2.2	9.8	22	36	23	159	14	4.2	5.6	3.5	3.8
9	2.2	2.4	9.0	15	23	20	186	16	3.8	4.6	2.0	3.5
10	1.6	2.4	8.2	14	17	18	156	9.0	3.8	21	1.8	3.5
11	1.6	2.4	7.4	13	15	15	94	8.2	3.8	16	4.2	3.8
12	1.6	2.3	6.6	12	14	15	52	12	3.5	6.2	3.2	35
13	2.2	2.3	8.2	12	13	12	37	6.8	2.9	4.2	2.6	14
14	4.2	2.3	7.0	12	14	12	31	6.2	2.9	3.5	21	8.2
15	1.8	8.6	6.4	76	13	13	26	5.6	4.2	3.2	3.5	5.6
16	1.4	8.6	5.8	227	12	21	20	4.6	3.2	2.9	3.2	4.2
17	1.4	3.6	5.4	166	12	14	17	306	3.2	2.4	29	3.5
18	1.5	2.9	5.0	140	11	12	16	152	2.9	2.4	4.6	2.9
19	1.6	2.6	4.6	268	12	12	14	48	3.5	2.2	2.9	2.6
20	1.8	2.3	4.6	147	60	9.8	12	31	3.8	2.2	2.4	2.6
21	1.8	3.3	33	203	30	23	12	21	8.2	1.8	2.2	3.8
22	1.9	3.7	26	71	120	17	16	19	954	1.8	2.0	2.6
23	2.1	2.7	16	147	74	15	15	22	560	2.2	2.2	2.4
24	2.1	25	24	66	42	14	11	17	136	2.2	2.0	2.2
25	2.3	259	145	44	34	12	9.0	12	186	1.8	1.8	2.2
26	2.7	154	149	44	26	14	9.0	9.8	113	1.8	1.8	2.0
27	2.6	172	110	76	24	15	8.2	9.0	46	1.6	2.0	2.4
28	3.6	193	52	44	42	14	7.5	7.5	29	1.6	87	3.5
29	4.1	57	51	34	-----	37	6.8	13	22	1.6	35	8.2
30	5.5	35	43	28	-----	177	9.8	13	17	1.4	20	4.2
31	7.1	-----	31	24	-----	99	-----	9.0	-----	1.4	6.8	-----
TOTAL	97.8	977.6	937.4	2,029	822	864.8	1,472.3	823.8	2,155.9	160.4	266.8	310.1
MEAN	3.15	32.6	30.2	65.5	29.4	27.9	49.1	26.6	71.9	5.17	8.61	10.3
MAX	10	259	149	268	120	177	244	306	954	21	87	106
MIN	1.4	2.1	4.6	12	11	9.8	6.8	4.6	2.9	1.4	1.4	2.0
CFSM	1.4	1.44	1.33	2.89	1.30	1.23	2.16	1.17	3.17	1.23	1.38	1.45
IN.	1.16	1.60	1.54	3.33	1.35	1.42	2.41	1.35	3.53	1.26	1.44	1.51

CAL YR 1973 TOTAL 10,724.7 MEAN 29.4 MAX 690 MIN 1.4 CFSM 1.30 IN 17.58
WTR YR 1974 TOTAL 10,917.9 MEAN 29.9 MAX 954 MIN 1.4 CFSM 1.32 IN 17.89

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-25	0900	3.75	1,040	06-22	1045	5.46	2,220
04-02	0045	3.32	799	06-22	2215	5.22	2,030
05-17	2045	4.34	1,390				

03271500 Great Miami River at Miamisburg, Ohio

LOCATION.--Lat 39°38'40", long 84°17'23", in sec. 31, R.6, T.1, Montgomery County, on left bank 600 ft (183 m) downstream from bridge on State Highway 725 at Miamisburg, 0.3 mi (0.5 km) downstream from Bear Creek, and 3.2 mi (5.1 km) upstream from Cains Run.

DRAINAGE AREA.--2,711 mi² (7,021 km²).

PERIOD OF RECORD.--March 1916 to September 1920 (published as Miami River at Franklin 1916-17), August 1924 to September 1935 (published as Miami River near Miamisburg), October 1952 to current year (published as Miami River at Miamisburg 1952-62). Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 678.60 ft (206.837 m) above mean sea level, adjustment of 1912. Mar. 16, 1916 to Sept. 30, 1920, nonrecording gage at site 6.7 mi (10.8 km) downstream at different datum. Aug. 29 to Sept. 16, 1924, nonrecording gage, and Sept. 17, 1924, to Sept. 30, 1935, water-stage recorder, at site 2.2 mi (3.5 km) downstream at datum 677.06 ft (206.368 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 2,358 ft³/s (66.78 m³/s), 11.82 in./yr (300.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,200 ft³/s (657 m³/s) Jan. 20, gage height, 13.06 ft (3.981 m); minimum, 623 ft³/s (17.6 m³/s) Sept. 26, 27.

Period of record: Maximum discharge, 61,800 ft³/s (1,750 m³/s) Jan. 21, 22, 1959, gage height, 20.65 ft (6.294 m), in gage well, from graph based on gage readings; 21.3 ft (6.49 m), from outside floodmarks; minimum daily, 148 ft³/s (4.19 m³/s) Sept. 7, 1925.

Flood of March 26, 1913 reached a discharge of 257,000 ft³/s (7,280 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Diurnal fluctuation caused by powerplant 0.4 mi (0.6 km) upstream from station. Flood flow regulated by retarding dams beginning in 1920 on Mad River 19 mi (31 km) upstream, on Stillwater River 23 mi (37 km) upstream, on Great Miami River 23 mi (37 km) upstream and on Loraine Creek 52 mi (84 km) upstream. Also see REMARKS for station No. 03261500 and 03269500. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 743: 1929(M). WSP 1385: 1926. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,400	1,470	4,570	3,850	4,530	3,980	8,480	2,210	1,660	1,580	681	2,520
2	2,290	1,510	3,340	2,840	3,900	4,210	13,100	1,960	1,470	1,530	681	1,760
3	1,480	1,290	2,810	2,770	3,540	3,400	8,630	2,030	1,350	1,340	904	2,840
4	1,450	1,130	2,630	2,660	3,180	3,000	10,000	1,730	1,270	1,190	1,010	2,490
5	1,400	1,150	2,600	2,380	2,950	3,290	13,400	1,660	1,210	1,120	773	2,260
6	1,260	1,010	2,560	2,350	3,060	5,200	11,100	1,660	1,240	1,100	752	1,570
7	1,120	948	2,240	2,310	5,020	4,080	7,190	1,600	1,200	1,130	731	1,150
8	1,110	937	2,000	2,000	4,260	3,650	8,660	1,830	1,200	1,080	795	945
9	1,000	915	1,870	1,960	3,320	3,210	8,320	1,900	1,160	1,030	795	859
10	937	860	1,830	2,210	2,770	2,680	9,790	1,590	1,110	1,080	805	826
11	915	816	1,740	2,030	2,590	2,480	9,960	1,550	1,090	1,170	959	790
12	926	816	1,650	1,820	2,470	2,380	7,870	1,970	1,070	1,000	849	2,190
13	959	838	1,780	1,510	2,520	2,210	5,750	2,150	1,020	937	752	1,710
14	1,050	816	2,010	1,660	3,210	2,180	4,750	2,080	991	816	871	2,000
15	1,010	1,220	2,170	2,670	3,580	2,000	4,030	1,780	1,280	871	795	1,540
16	1,020	1,240	1,910	4,710	2,920	2,160	3,460	1,720	1,080	805	1,070	1,150
17	915	1,100	1,650	9,580	2,420	2,350	3,090	2,820	1,070	805	2,020	960
18	871	1,020	1,530	11,300	2,170	2,410	2,850	5,900	981	752	1,050	853
19	860	970	1,440	16,400	2,520	2,210	2,680	3,230	1,010	763	937	792
20	849	926	2,110	22,600	5,370	2,000	2,510	2,400	1,030	731	926	849
21	915	937	2,290	22,200	5,410	2,330	2,400	2,000	1,250	710	805	777
22	871	915	1,880	19,100	6,110	2,110	2,670	1,950	6,330	720	741	682
23	882	871	1,620	15,800	9,420	2,000	2,670	2,240	12,700	784	720	660
24	893	1,670	1,630	13,200	6,470	1,950	2,430	2,780	6,710	773	731	669
25	893	5,020	2,610	9,140	4,160	1,940	2,290	2,420	4,530	752	661	650
26	882	9,790	10,900	6,960	3,210	1,830	2,180	1,960	4,030	741	660	650
27	871	9,460	15,300	9,670	2,860	1,830	2,010	1,660	2,640	720	697	670
28	849	11,000	13,700	10,500	2,990	2,060	1,900	1,530	2,010	700	1,980	770
29	915	9,000	9,740	8,700	-----	3,380	1,890	1,720	1,680	700	2,570	1,190
30	1,090	6,780	7,040	7,190	-----	11,400	2,100	1,880	1,550	700	3,040	865
31	1,030	-----	5,190	5,590	-----	11,700	-----	1,850	-----	691	2,790	-----
TOTAL	32,913	76,425	116,340	227,660	106,930	101,610	168,160	65,760	66,922	28,821	33,551	37,637
MEAN	1,062	2,548	3,753	7,344	3,819	3,278	5,605	2,121	2,231	930	1,082	1,255
MAX	2,290	11,000	15,300	22,600	9,420	11,700	13,400	5,900	12,700	1,580	3,040	2,840
MIN	849	816	1,440	1,510	2,170	1,830	1,890	1,530	981	691	660	650
CFSM	.39	.94	1.38	2.71	1.41	1.21	2.07	.78	.82	.34	.40	.46
IN.	.45	1.05	1.60	3.12	1.47	1.39	2.31	.90	.92	.40	.46	.52

CAL YR 1973 TOTAL 1,353,765 MEAN 3,709 MAX 18,900 MIN 816 CFSM 1.37 IN 18.58
WTR YR 1974 TOTAL 1,062,729 MEAN 2,912 MAX 22,600 MIN 650 CFSM 1.07 IN 14.58

GREAT MIAMI RIVER BASIN

03271800 Twin Creek near Ingomar, Ohio

LOCATION.--Lat 39°42'28", long 84°31'30", in sec. 15, T.5N., R.3E., Preble County, on left bank at downstream side of bridge on Halderman Road, 0.5 mi (0.8 km) downstream from Bantas Fork, 1.4 mi (2.3 km) west of Ingomar, and 4.8 mi (7.7 km) upstream from Aukerman Creek.

DRAINAGE AREA.--197 mi² (510 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1959, 1961-62. October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.42 ft (248.540 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 184 ft³/s (5.211 m³/s), 12.68 in/yr (322.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,530 ft³/s (185 m³/s) June 22, gage height, 8.62 ft (2.627 m); minimum, 13 ft³/s (0.37 m³/s) Oct. 12, 13, 19, 20-22, 26, 27.

Period of record: Maximum discharge, 19,300 ft³/s (547 m³/s) Mar. 4, 1963, gage height, 14.40 ft (4.389 m), from rating curve extended above 4,000 ft³/s (113 m³/s) on basis of contracted-opening measurement at gage height 18.8 ft (5.73 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Sept. 12-14, 1964.

Flood of Jan. 21, 1959 reached a stage of 18.8 ft (5.73 m), discharge, 30,300 ft³/s (858 m³/s), computed by Miami Conservancy District. Flood of Mar. 25, 1913 reached a stage of 28.0 ft (8.53 m).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 11 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	146	189	194	261	502	68	52	106	19	50
2	19	23	112	141	184	225	912	60	46	72	19	49
3	19	21	98	130	153	208	563	66	43	58	26	473
4	18	19	92	120	129	205	772	59	40	50	36	353
5	20	19	106	110	110	483	349	51	37	48	36	155
6	19	18	85	98	146	330	243	50	39	44	26	90
7	19	17	66	85	450	225	197	46	37	43	18	63
8	17	16	59	74	231	176	1,150	55	36	56	18	49
9	16	16	56	78	168	150	1,520	72	35	34	17	41
10	15	16	56	86	132	132	1,460	55	35	32	16	37
11	14	16	49	76	118	114	1,090	48	34	173	18	33
12	14	15	48	70	108	116	605	55	33	123	21	349
13	14	15	54	70	139	96	353	77	33	80	19	231
14	16	15	71	74	143	83	255	55	33	85	24	134
15	17	19	66	214	118	85	194	50	39	165	30	96
16	16	25	55	1,190	110	127	155	46	40	78	23	66
17	15	25	46	2,040	106	112	129	874	36	52	34	52
18	14	22	59	1,470	94	98	116	478	34	41	31	43
19	14	20	45	2,930	258	92	108	200	32	37	23	38
20	13	19	90	1,610	478	82	96	150	36	33	20	33
21	13	19	104	1,880	252	104	89	104	50	31	18	33
22	14	18	85	887	1,170	102	98	89	1,550	28	18	30
23	14	18	69	1,270	640	90	112	94	3,440	28	17	28
24	14	29	78	761	308	85	90	80	832	27	19	26
25	14	595	1,110	441	208	74	77	63	326	26	16	25
26	14	635	1,720	365	163	82	74	55	459	25	16	24
27	13	727	1,720	1,390	153	98	71	50	246	24	16	25
28	14	925	732	650	255	96	65	46	155	23	123	26
29	14	357	464	424	-----	280	63	60	116	22	252	52
30	16	211	398	312	-----	1,350	65	64	100	20	184	108
31	18	-----	264	252	-----	944	-----	58	-----	19	82	-----
TOTAL	483	3,913	8,203	19,487	6,718	6,705	11,573	3,378	8,024	1,683	1,235	2,812
MEAN	15.6	130	265	629	240	216	386	109	267	54.3	39.8	93.7
MAX	20	925	1,720	2,930	1,170	1,350	1,520	874	3,440	173	252	473
MIN	13	15	45	70	94	74	63	46	32	19	16	24
CFSM	.08	.66	1.35	3.19	1.22	1.10	1.96	.55	1.36	.28	.20	.48
IN.	.09	.74	1.55	3.68	1.27	1.27	2.19	.64	1.52	.32	.23	.53

CAL YR 1973 TOTAL 88,248 MEAN 242 MAX 3,330 MIN 12 CFSM 1.23 IN 16.66
WTR YR 1974 TOTAL 74,214 MEAN 203 MAX 3,440 MIN 13 CFSM 1.03 IN 14.01

PEAK DISCHARGE (BASE, 4,700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-17	1915	8.29	6,090	6-22	2315	8.62	6,530

03272000 Twin Creek near Germantown, Ohio

LOCATION.--Lat 39°38'10", long 84°23'48", in NW 1/4 sec. 11, T.3N., R.4E., Montgomery County, on right bank 0.3 mi (0.5 km) downstream from Germantown Dam, 1.5 mi (2.4 km) northwest of Germantown, and 3 mi (5 km) upstream from Little Twin Creek.

DRAINAGE AREA.--275 mi² (712 km²).

PERIOD OF RECORD.--April 1914 to December 1923, December 1926 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.24 ft (213.433 m) above mean sea level, adjustment of 1912. Prior to Dec. 18, 1926 nonrecording gage at site 1 mi (2 km) downstream at datum 12.49 ft (3.807 m) higher.

AVERAGE DISCHARGE.--56 years (1914-23, 1927-74), 261 ft³/s (7.392 m³/s), 12.89 in/yr (327.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,800 ft³/s (164 m³/s) June 23, gage height, 26.42 ft (8.053 m); minimum, 19 ft³/s (0.54 m³/s) Aug. 27.

Period of record: Maximum discharge, 9,390 ft³/s (266 m³/s) July 8, 1915, gage height, 11.7 ft (3.57 m), from graph based on gage readings, site and datum then in use; maximum gage height, 29.19 ft (8.897 m) Jan. 22, 1959; minimum discharge, 1.5 ft³/s (0.042 m³/s) Sept. 25, 1941.

Flood of Mar. 25, 1913 reached a stage of 18.3 ft (5.58 m), original site and datum, discharge, 66,000 ft³/s (1,870 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Flood flow regulated by Germantown retarding basin, 0.3 mi (0.5 km) upstream beginning in 1920. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 8 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 403: 1914(M). WSP 1385: 1915(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	39	271	323	317	409	749	129	102	198	25	99
2	44	40	209	273	290	350	1,590	116	89	158	24	77
3	34	39	179	240	252	328	753	127	80	130	29	331
4	34	36	177	220	212	298	1,040	115	75	112	39	466
5	33	35	212	200	183	523	557	102	72	106	40	211
6	32	34	168	170	234	502	397	97	77	98	36	122
7	32	31	134	160	749	351	324	92	72	88	31	86
8	31	30	118	150	405	280	1,770	100	69	130	27	67
9	27	30	111	150	291	242	1,970	142	67	87	25	58
10	25	28	108	160	225	214	1,920	116	63	75	24	52
11	24	28	95	160	203	189	1,440	103	62	152	29	49
12	23	26	91	150	187	196	847	119	60	155	30	236
13	24	26	97	140	206	170	542	133	56	98	34	317
14	27	26	105	147	227	149	404	114	51	76	34	171
15	26	39	108	513	197	146	325	100	58	140	43	123
16	26	59	97	1,330	179	189	265	95	56	96	43	90
17	25	41	82	2,430	174	188	227	290	51	69	42	71
18	23	37	80	1,730	158	164	203	1,650	48	58	63	60
19	22	34	78	3,250	244	157	187	429	46	53	45	53
20	22	30	110	2,260	673	146	170	337	47	49	35	56
21	21	31	210	2,540	396	193	157	229	53	45	29	52
22	21	31	193	1,300	1,310	196	171	209	1,160	42	25	44
23	21	28	177	1,540	993	166	183	227	5,280	41	23	39
24	21	88	140	1,140	494	158	160	207	1,810	41	24	36
25	22	901	1,030	671	330	139	136	159	764	38	23	35
26	23	1,030	1,970	533	230	150	129	134	889	36	20	33
27	23	1,280	2,300	1,580	240	160	123	118	524	35	19	33
28	24	1,710	1,010	915	378	164	117	107	367	33	24	35
29	25	668	666	615	-----	247	112	110	279	30	292	43
30	28	386	634	477	-----	1,450	117	126	217	28	261	88
31	30	-----	436	393	-----	1,320	-----	117	-----	26	140	-----
TOTAL	823	6,841	11,396	25,860	9,977	9,534	17,085	6,249	12,644	2,523	1,578	3,233
MEAN	26.5	228	368	834	356	308	570	202	421	81.4	50.9	108
MAX	44	1,710	2,300	3,250	1,310	1,450	1,970	1,650	5,280	198	292	466
MIN	21	26	78	140	158	139	112	92	46	26	19	33
CFSM	.10	.83	1.34	3.03	1.29	1.12	2.07	.73	1.53	.30	.19	.39
IN.	.11	.93	1.54	3.50	1.35	1.29	2.31	.85	1.71	.34	.21	.44

CAL YR 1973 TOTAL 134,550 MEAN 369 MAX 4,660 MIN 19 CFMS 1.34 IN 18.20
WTR YR 1974 TOTAL 107,743 MEAN 295 MAX 5,280 MIN 19 CFMS 1.07 IN 14.57

GREAT MIAMI RIVER BASIN

03274000 Great Miami River at Hamilton, Ohio

LOCATION.--Lat 39°23'28", long 84°34'20", in NE 1/4 sec. 6, T.1N., R.3E., Butler County, on right bank 1,000 ft (305 m) downstream from Columbia Bridge at Hamilton, 3 mi (5 km) downstream from Four Mile Creek, and 4.3 mi (6.9 km) upstream from Pleasant Run.

DRAINAGE AREA.--3,630 mi² (9,402 km²).

PERIOD OF RECORD.--January 1907 to June 1909 (fragmentary), January 1910 to September 1918, April 1927 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 0.7 mi (1.1 km) upstream since 1911 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Hamilton.

GAGE.--Water-stage recorder. Datum of gage is 499.98 ft (152.394 m) above mean sea level, adjustment of 1912. Prior to Apr. 12, 1927, nonrecording gage at site 0.7 mi (1.1 km) upstream at datum 64.65 ft (19.705 m) higher.

AVERAGE DISCHARGE.--43 years (1931-74), 3,209 ft³/s (90.88 m³/s), 12.01 in/yr (305.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 46,300 ft³/s (1,310 m³/s) June 23, gage height, 71.31 ft (21.735 m); minimum, 520 ft³/s (14.7 m³/s) Aug. 2.

Period of record: Maximum discharge, 352,000 ft³/s (9,970 m³/s) Mar. 26, 1913, gage height, 38.5 ft (11.73 m), site and datum then in use, computed by Miami Conservancy District; minimum, 100 ft³/s (2.83 m³/s) Sept. 26, 27, 1941; minimum gage height, 55.73 ft (16.986 m) Oct. 18, 1960.

REMARKS.--Records good. Some regulation at low flow by industrial plants upstream from station. Flood flow regulated by five retarding basins upstream from station beginning in 1920 (see REMARKS for station numbers 03271500 and 03272000). Small diversion about 6 mi (10 km) upstream from gage for municipal supply of Hamilton. Diversion averaged 0.68 ft³/s (0.019 m³/s) in 1974 and is returned as sewage 1.4 mi (2.3 km) downstream from the station. The Miami and Erie Canal diverted water from the basin 1.7 mi (2.7 km) upstream from station until Nov. 1, 1930, when canal was abandoned; amount of diversion not known. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 12 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 803: 1936. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,530	1,510	6,330	5,670	6,280	4,930	11,500	3,070	2,270	2,490	706	5,460
2	3,380	1,650	4,770	4,440	5,550	5,630	21,400	2,550	1,960	2,440	655	3,140
3	2,060	1,530	4,030	4,130	5,040	4,810	12,200	2,990	1,760	2,090	886	4,980
4	2,860	1,330	3,840	3,990	4,550	4,150	14,600	2,510	1,660	1,860	1,110	4,330
5	2,890	1,280	3,920	3,600	4,030	4,350	14,500	2,230	1,570	1,770	943	3,460
6	1,730	1,230	3,640	3,420	4,130	5,960	12,900	2,180	1,600	1,600	813	2,550
7	1,500	1,090	3,310	3,260	8,360	5,590	9,010	2,120	1,540	1,630	778	1,890
8	1,410	1,060	2,960	2,940	5,980	4,660	14,100	2,130	1,510	1,740	813	1,520
9	1,320	1,040	2,740	2,750	4,800	4,340	14,500	2,860	1,460	1,590	825	1,320
10	1,180	1,010	2,640	3,140	3,990	3,770	12,900	2,300	1,360	1,460	977	1,260
11	1,080	949	2,550	3,180	3,680	3,520	12,500	2,130	1,340	1,600	794	1,250
12	1,100	913	2,410	2,780	3,510	3,560	10,200	2,450	1,310	1,520	1,180	6,130
13	1,060	945	2,410	2,340	3,480	3,170	7,460	2,620	1,240	1,360	900	3,770
14	1,220	947	2,620	2,390	3,920	3,040	5,950	2,660	1,170	1,190	888	4,220
15	1,160	1,360	2,790	4,790	4,550	2,890	5,180	2,350	1,400	1,120	952	2,700
16	1,160	2,310	2,630	7,790	4,010	3,070	4,420	2,130	1,400	1,170	933	2,040
17	1,100	1,570	2,320	11,900	3,510	3,040	3,940	2,270	1,210	1,040	1,990	1,670
18	1,000	1,400	2,100	14,200	3,110	3,270	3,600	8,920	1,170	1,000	1,790	1,460
19	956	1,290	2,000	20,100	3,510	3,020	3,360	5,370	1,100	902	1,140	1,300
20	930	1,220	3,070	26,500	5,910	2,770	3,150	4,370	1,170	926	1,180	1,270
21	936	1,210	3,560	28,400	6,950	3,340	2,950	3,180	1,220	849	1,030	1,360
22	969	1,230	2,770	23,100	8,020	3,230	3,190	2,920	7,230	784	879	1,170
23	919	1,130	2,430	20,100	11,300	2,840	3,520	2,940	33,400	812	822	996
24	923	2,800	2,390	17,100	8,760	2,730	3,060	3,620	13,000	861	874	979
25	909	9,100	3,980	12,100	5,880	2,710	2,810	3,290	6,830	824	770	947
26	892	13,400	11,300	9,220	4,630	2,650	2,660	2,680	6,740	789	674	927
27	872	13,900	19,400	12,800	4,140	2,570	2,480	2,270	4,640	784	679	911
28	846	18,100	16,500	13,400	4,280	2,700	2,300	2,030	3,470	754	2,040	1,060
29	852	11,500	12,700	11,100	-----	3,030	2,250	2,130	3,030	714	5,300	2,660
30	1,070	8,870	9,520	9,320	-----	11,400	2,510	2,560	2,530	734	4,250	1,710
31	1,130	-----	7,250	7,530	-----	15,000	-----	2,480	-----	729	3,780	-----
TOTAL	40,944	106,874	154,880	297,480	145,860	131,740	225,100	90,310	111,290	39,132	41,351	68,440
MEAN	1,321	3,562	4,996	9,596	5,209	4,250	7,503	2,913	3,710	1,262	1,334	2,281
MAX	3,380	18,100	19,400	28,400	11,300	15,000	21,400	8,920	33,400	2,490	5,300	6,130
MIN	846	913	2,000	2,340	3,110	2,570	2,250	2,030	1,100	714	655	911
CFSM	.36	.98	1.38	2.64	1.44	1.17	2.07	.80	1.02	.35	.37	.63
IN.	.42	1.10	1.59	3.05	1.49	1.35	2.31	.93	1.14	.40	.42	.70

CAL YR 1973 TOTAL 1,804,630 MEAN 4,944 MAX 26,500 MIN 846 CFSM 1.36 IN 18.49
WTR YR 1974 TOTAL 1,453,401 MEAN 3,982 MAX 33,400 MIN 655 CFSM 1.10 IN 14.89

03276500 Whitewater River at Brookville, Ind.

LOCATION.--Lat 39°24'24", long 85°00'46", in NE 1/4 NW 1/4 sec.32, T.9 N., R.2 W., Franklin County, on right bank at downstream side of highway bridge, 0.3 mi (0.5 km) downstream from East Fork Whitewater River, and 1.1 mi (1.8 km) south of Brookville.

DRAINAGE AREA.--1,224 mi² (3,170 km²).

PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), and July 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft (181.572 m) above mean sea level. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft (0.46 m) higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--53 years (1915-17, 1923-74), 1,260 ft³/s (35.68 m³/s), 13.98 in/yr (355.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,500 ft³/s (524 m³/s) June 23, gage height, 12.38 ft (3.773 m); minimum daily, 227 ft³/s (6.43 m³/s) Oct. 27.

Period of record: Maximum discharge, 81,800 ft³/s (2,320 m³/s) Jan. 21, 1959, gage height, 27.78 ft (8.467 m), from rating curve extended above 45,000 ft³/s (1,270 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 60 ft³/s (1.70 m³/s) July 27, 1934.

Flood of Mar. 25, 1913, reached a stage of 39.0 ft (11.89 m), present datum, from floodmarks (discharge not determined).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1915-17, 1929, 1930(M), 1933(M), 1934, 1935(M), 1936. WSP 1505: 1916(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	315	1,110	1,570	1,620	1,520	2,390	1,120	950	887	258	4,820
2	304	319	926	1,200	1,540	1,520	3,340	850	682	848	258	1,120
3	282	286	818	1,290	1,420	1,370	2,060	991	578	675	345	3,970
4	371	268	796	1,100	1,210	1,220	3,520	839	529	616	340	1,860
5	455	271	942	966	1,010	1,730	4,740	739	500	1,130	297	722
6	301	271	818	966	1,110	2,210	2,430	688	529	958	271	579
7	271	261	703	910	2,210	1,630	1,950	639	475	689	273	505
8	264	258	635	724	1,490	1,360	7,280	762	629	597	519	459
9	258	255	591	833	1,170	1,180	8,210	1,460	554	535	343	429
10	255	249	572	934	974	1,050	4,800	919	554	506	293	426
11	249	245	512	958	894	1,350	3,430	777	500	480	287	719
12	242	242	506	788	848	1,860	2,590	976	450	465	298	1,720
13	245	242	541	668	879	1,390	2,160	929	417	450	278	799
14	297	242	591	767	902	1,090	1,850	772	393	696	323	843
15	282	353	535	1,720	825	999	1,600	781	703	616	330	717
16	258	675	500	2,870	759	1,310	1,410	757	529	455	286	565
17	245	393	441	4,320	724	1,200	1,260	1,470	446	403	783	505
18	239	332	436	5,090	682	1,050	1,130	4,460	412	371	478	531
19	236	308	441	8,880	887	966	1,030	4,170	393	362	575	562
20	236	293	578	7,930	1,580	887	962	3,120	384	345	347	725
21	233	297	603	7,860	1,310	1,370	897	1,650	389	336	298	824
22	233	336	460	4,340	3,060	1,150	1,140	1,290	1,920	323	280	721
23	233	308	506	3,400	3,060	958	1,330	1,170	12,800	319	271	525
24	230	767	668	2,970	1,920	902	1,010	955	3,060	308	321	522
25	233	3,280	2,890	2,230	1,520	848	883	814	1,840	304	263	507
26	230	3,020	3,980	2,440	1,250	902	825	719	1,610	301	250	494
27	227	3,020	5,210	5,520	1,220	879	775	653	1,340	289	259	546
28	230	3,860	3,550	3,350	1,440	871	730	599	1,020	286	754	621
29	233	2,010	2,550	2,630	-----	879	697	986	926	278	1,670	1,210
30	249	1,430	2,330	2,210	-----	3,290	872	1,370	788	278	960	957
31	268	-----	1,920	1,880	-----	3,310	-----	1,200	-----	264	1,320	-----
TOTAL	8,160	24,406	37,659	83,314	37,514	42,251	67,301	38,625	36,300	15,370	13,828	29,503
MEAN	263	814	1,215	2,688	1,340	1,363	2,243	1,246	1,210	496	446	983
MAX	455	3,860	5,210	8,880	3,060	3,310	8,210	4,460	12,800	1,130	1,670	4,820
MIN	227	242	436	668	682	848	697	599	384	264	250	426
CFSM	.21	.67	.99	2.20	1.09	1.11	1.83	1.02	.99	.41	.36	.80
IN.	.25	.74	1.14	2.53	1.14	1.28	2.05	1.17	1.10	.47	.42	.90

CAL YR 1973 TOTAL 597,785 MEAN 1,638 MAX 14,300 MIN 227 CFSM 1.34 IN 18.17
WTR YR 1974 TOTAL 434,231 MEAN 1,190 MAX 12,800 MIN 227 CFSM .97 IN 13.20

PEAK DISCHARGE (BASE, 12,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-8	2000	11.43	16,300	6-23	1400	12.38	18,500

WABASH RIVER BASIN

03322500 Wabash River near New Corydon, Ind.

LOCATION.--Lat 40°33'50", long 84°48'10", in NE 1/4 SE 1/4 sec.3, T.24 N., R.15 E., Jay County, on left bank, 10 ft (3 m) downstream from county bridge on Indiana-Ohio State line road, 2 mi (3 km) east of New Corydon, 2.8 mi (4.5 km) downstream from Beaver Creek, and at mile 465.6 (749.2 km).

DRAINAGE AREA.--262 mi² (679 km²).

PERIOD OF RECORD.--April 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 830.10 ft (253.014 m) above mean sea level. Prior to Jun. 24, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 196 ft³/s (5.551 m³/s), 10.16 in/yr (258.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,030 ft³/s (142 m³/s) Jan. 19, gage height, 18.53 ft (5.648 m); minimum daily, 4.8 ft³/s (0.14 m³/s) Oct. 3.
Period of record: Maximum discharge, 8,720 ft³/s (247 m³/s) Jan. 22, 1959, gage height, 20.47 ft (6.239 m), from floodmarks; minimum daily, 0.8 ft³/s (0.023 m³/s) Dec. 22, 23, 1963.

REMARKS.--Records fair. Occasional regulation by Grand Lake, diversion from or into St. Marys River basin, and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 1555: 1957(P). WSP 1909: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	21	257	267	368	673	360	54	31	187	7.4	43
2	5.0	22	206	243	340	469	255	50	29	129	8.2	83
3	4.8	19	190	230	308	394	232	50	25	50	9.4	190
4	6.0	16	185	220	280	361	2,050	42	23	28	12	133
5	8.5	14	192	200	266	1,210	1,220	39	23	34	8.4	55
6	12	13	180	190	290	768	582	35	25	22	7.0	31
7	10	12	166	185	317	469	357	31	24	16	7.0	21
8	7.6	11	145	200	295	373	358	41	99	14	7.2	18
9	6.2	10	135	220	269	453	592	57	90	12	7.4	14
10	5.7	9.4	130	250	252	602	818	50	41	12	7.7	13
11	5.5	9.1	125	220	248	378	417	47	27	11	8.2	13
12	5.6	9.6	125	190	250	346	285	160	22	10	7.9	26
13	6.2	9.6	140	185	387	308	230	109	19	10	7.2	318
14	7.2	10	161	200	632	285	192	71	18	11	13	172
15	8.6	18	150	235	385	312	160	92	17	10	12	61
16	9.0	37	140	417	324	894	154	82	16	9.6	8.6	34
17	7.6	28	130	1,620	297	526	147	84	15	9.4	22	24
18	6.9	26	125	1,790	297	378	139	115	15	8.6	16	20
19	6.6	25	120	4,490	729	339	133	93	14	8.6	9.4	17
20	6.6	20	120	3,580	1,020	307	83	67	15	8.6	7.7	17
21	6.8	20	125	2,420	623	292	68	55	19	8.6	8.2	31
22	7.0	20	135	1,300	1,940	229	65	49	47	8.4	8.4	21
23	7.8	22	140	2,090	1,220	107	62	92	259	8.4	8.2	15
24	7.8	22	140	1,180	578	80	54	69	142	9.4	7.9	13
25	7.1	160	877	709	415	72	54	50	65	9.4	8.2	13
26	7.0	307	3,190	524	360	85	52	42	43	8.9	7.7	13
27	7.0	323	3,220	1,900	323	151	50	38	33	8.4	7.4	13
28	7.4	570	2,000	1,100	510	118	46	34	25	8.4	55	14
29	10	901	923	1,070	-----	1,290	43	36	20	8.2	127	17
30	20	420	521	664	-----	1,490	54	37	21	7.4	111	16
31	34	-----	338	466	-----	738	-----	35	-----	7.2	34	-----
TOTAL	262.7	3,104.7	14,731	28,555	13,523	14,497	9,312	1,906	1,262	693.5	576.7	1,469
MEAN	8.47	103	475	921	483	468	310	61.5	42.1	22.4	18.6	49.0
MAX	34	901	3,220	4,490	1,940	1,490	2,050	160	259	187	127	318
MIN	4.8	9.1	120	185	248	72	43	31	14	7.2	7.0	13
CFSM	.03	.39	1.81	3.52	1.84	1.79	1.18	.23	.16	.09	.07	.19
IN.	.04	.44	2.09	4.05	1.92	2.06	1.32	.27	.18	.10	.08	.21

CAL YR 1973 TOTAL 114,612.4 MEAN 314 MAX 3,220 MIN 4.8 CFMS 1.20 IN 16.27
WTR YR 1974 TOTAL 89,892.6 MEAN 246 MAX 4,490 MIN 4.8 CFMS .94 IN 12.76

PEAK DISCHARGE (BASE, 2,500 FT³/S)

Note: No gage height record
Oct. 1 to Nov. 8.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	0700	17.44	3,530	01-19	1800	18.53	5,030

STREAMS TRIBUTARY TO LAKE ERIE

04178000 St. Joseph River near Newville, Ind.

LOCATION.--Lat 41°23'08", long 84°48'06", in SW 1/4 SW 1/4 sec. 18, T.5 N., R.1 E., Defiance County, Ohio, on left bank at bridge on Ohio State Highway 249, 3.5 mi (5.6 km) northeast of Newville and 6.5 mi (10.5 km) northwest of Hicksville, Ohio.

DRAINAGE AREA.--610 mi² (1,580 km²).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage if 795.40 ft (242.438 m) above mean sea level. Prior to Oct. 22, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 501 ft³/s (14.19 m³/s), 11.15 in/yr (283.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,670 ft³/s (104 m³/s) Jan. 25, gage height, 13.73 ft (4.185 m); minimum daily, 34 ft³/s (0.96 m³/s) Sept. 27, 28, 30.

Period of record: Maximum discharge, 9,710 ft³/s (275 m³/s) Apr. 6, 1950, gage height, 17.05 ft (5.197 m); minimum daily, 14 ft³/s (0.40 m³/s) Sept. 10, 16, 1964.

REMARKS.--Records fair.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	72	463	1,200	2,630	1,350	1,000	385	444	227	91	38
2	93	77	355	950	2,280	1,100	1,110	379	407	204	168	36
3	82	84	263	740	1,600	1,050	1,260	352	359	181	164	44
4	85	89	221	600	1,200	1,280	1,760	330	327	162	125	43
5	86	82	220	480	1,000	2,550	1,930	311	302	151	98	45
6	90	77	229	380	850	2,880	1,830	294	284	152	83	47
7	98	72	241	310	740	3,130	1,680	279	271	166	73	45
8	89	76	216	270	610	3,320	1,560	306	273	154	66	42
9	80	77	182	250	530	3,220	1,370	575	298	140	60	40
10	77	74	165	240	470	3,120	1,180	802	326	128	57	41
11	72	73	151	230	420	3,060	1,010	954	309	120	58	41
12	70	71	140	220	390	2,970	885	1,480	280	113	60	51
13	68	68	139	215	375	2,680	920	1,800	261	108	57	54
14	68	66	175	210	365	2,270	949	1,830	249	102	57	60
15	64	65	190	210	355	1,890	904	2,020	247	95	53	73
16	65	65	190	215	350	1,610	749	2,080	248	89	55	70
17	64	65	185	230	350	1,380	677	1,970	229	84	70	64
18	63	70	170	280	360	1,180	590	1,990	209	78	67	58
19	61	71	160	404	453	1,030	541	2,090	205	76	106	52
20	56	69	150	580	745	916	517	2,110	205	73	84	52
21	55	74	140	1,840	1,010	851	502	1,940	325	70	68	49
22	53	75	135	2,370	1,840	794	477	1,550	451	66	58	41
23	54	73	135	2,740	2,210	728	447	1,230	570	66	52	38
24	54	78	145	3,180	2,320	659	422	889	497	66	49	37
25	55	88	205	3,610	2,320	585	390	670	384	67	45	35
26	53	94	583	3,530	2,310	531	360	542	327	68	45	35
27	53	114	1,250	3,570	2,110	505	341	461	310	66	47	34
28	56	181	1,590	3,440	1,750	493	328	405	325	64	44	34
29	56	312	1,640	3,270	-----	493	335	372	319	70	44	35
30	60	459	1,650	3,130	-----	679	351	363	266	54	42	34
31	64	-----	1,500	2,980	-----	955	-----	428	-----	50	40	-----
TOTAL	2,127	3,011	13,178	41,874	31,943	49,259	26,375	31,187	9,507	3,310	2,186	1,368
MEAN	68.6	100	425	1,351	1,141	1,589	879	1,006	317	107	70.5	45.6
MAX	98	459	1,650	3,610	2,630	3,320	1,930	2,110	570	227	168	73
MIN	53	65	135	210	350	493	328	279	205	50	40	34
CFSM	.11	.16	.70	2.21	1.87	2.60	1.44	1.65	.52	.18	.12	.07
IN.	.13	.18	.80	2.55	1.95	3.00	1.61	1.90	.58	.20	.13	.08

CAL YR 1973 TOTAL 216,890 MEAN 594 MAX 2,160 MIN 45 CFSM .97 IN 13.23
WTR YR 1974 TOTAL 215,325 MEAN 590 MAX 3,610 MIN 34 CFSM .97 IN 13.13

STREAMS TRIBUTARY TO LAKE ERIE

04181500 St. Marys River at Decatur, Ind.

LOCATION.--Lat 40°50'55", long 84°56'16", in SW 1/4 SW 1/4 sec.27, T.28 N., R.14 E., Adams County, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 27, 0.5 mi (0.8 km) upstream from Holthouse ditch, and 1.3 mi (2.1 km) north of Decatur.

DRAINAGE AREA.--621 mi² (1,608 km²).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307. Gage-height records collected at site 0.5 mi (0.8 km) upstream January 1932 to November 1954, and at present site thereafter are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft (231.782 m) above mean sea level. Prior to July 27, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 495 ft³/s (14.02 m³/s), 10.82 in/yr (274.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,860 ft³/s (279 m³/s) Jan. 22, gage height, 22.86 ft (6.968 m); minimum daily, 16 ft³/s (0.45 m³/s) Aug. 1.

Period of record: Maximum discharge, 11,300 ft³/s (320 m³/s) Feb. 10, 11, 1959; maximum gage height, 24.22 ft (7.382 m) Feb. 10, 1959 (ice jam); minimum daily discharge, 5.4 ft³/s (0.15 m³/s) Oct. 18, 1960.

REMARKS.--Records good. Flow regulated by Grand Lake. Slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 1174: 1948. WSP 1337: 1947. WSP 1627: 1950. WSP 1912: 1955, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	50	778	1,800	1,870	797	1,940	99	92	68	16	78
2	22	57	714	1,200	1,150	742	1,950	91	78	85	18	172
3	20	41	682	787	793	701	1,960	96	72	55	18	160
4	26	40	597	479	574	791	3,780	96	68	46	18	130
5	24	40	503	362	392	2,190	3,710	87	65	42	19	118
6	25	39	360	271	278	2,710	3,210	83	65	40	18	152
7	26	37	254	232	226	1,720	2,800	77	75	37	19	176
8	192	32	198	214	200	1,000	2,460	117	237	33	18	135
9	119	30	172	198	184	929	2,130	373	225	31	19	94
10	43	28	155	194	175	2,360	1,970	257	211	29	21	64
11	32	26	118	190	174	1,500	1,600	193	205	29	24	49
12	27	25	109	193	176	884	1,000	1,170	161	32	21	42
13	25	24	124	201	193	808	855	899	122	28	46	121
14	22	23	117	203	228	627	707	416	96	23	39	275
15	21	51	103	215	303	690	551	1,200	73	20	34	164
16	19	57	91	253	346	1,520	407	983	62	21	35	153
17	18	39	82	866	405	1,430	299	1,330	54	22	76	162
18	18	30	77	1,400	407	933	239	1,710	48	22	62	123
19	19	27	73	2,740	585	886	198	622	43	21	41	85
20	21	28	71	3,610	1,820	791	169	340	47	22	35	59
21	21	40	70	7,960	1,600	655	154	253	435	21	38	46
22	21	41	71	9,660	2,390	529	151	220	322	19	46	39
23	20	38	75	8,930	3,250	424	146	447	325	19	41	33
24	21	62	86	6,620	2,830	352	126	392	198	20	34	30
25	21	632	533	3,910	1,940	317	111	265	105	20	27	27
26	20	921	2,950	2,980	1,250	310	107	207	90	21	23	25
27	21	642	3,610	3,000	996	328	104	180	101	21	22	23
28	21	1,450	3,670	3,010	778	328	101	153	90	19	31	22
29	28	2,110	3,480	3,220	-----	616	97	134	73	20	33	23
30	28	1,270	3,100	3,170	-----	1,800	100	120	60	18	32	19
31	38	-----	2,500	2,660	-----	1,960	-----	105	-----	18	26	-----
TOTAL	1,001	7,930	25,523	70,728	25,513	31,628	33,132	12,715	3,898	922	950	2,799
MEAN	32.3	264	823	2,282	911	1,020	1,104	410	130	29.7	30.6	93.3
MAX	192	2,110	3,670	9,660	3,250	2,710	3,780	1,710	435	85	76	275
MIN	18	23	70	190	174	310	97	77	43	18	16	19
CFSM	.05	.43	1.33	3.67	1.47	1.64	1.78	.66	.21	.05	.05	.15
IN.	.06	.48	1.53	4.24	1.53	1.89	1.98	.76	.23	.06	.06	.17

CAL YR 1973 TOTAL 224,855 MEAN 616 MAX 4,200 MIN 18 CFSM .99 IN 13.47
WTR YR 1974 TOTAL 216,739 MEAN 594 MAX 9,660 MIN 16 CFSM .96 IN 12.98

PEAK DISCHARGE (BASE, 2,900 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-28	0100	18.00	3,700	02-23	0900	16.99	3,300
01-22	0700	22.86	9,860	04-05	1800	18.83	4,110

04183000 Maumee River at New Haven, Ind.

LOCATION.--Lat 41°05'06", long 85°01'20", in SE 1/4 NE 1/4 sec.2, T.30 N., R.13 E., Allen County, on left bank 600 ft (183 m) upstream from bridge on Landin Road, 1,400 ft (427 m) upstream from the Wabash Railroad bridge, 1.1 mi (1.8 km) northwest of New Haven, 2.8 mi (4.5 km) upstream from Sixmile Creek.

DRAINAGE AREA.--1,967 mi² (5,095 km²).

PERIOD OF RECORD.--December 1946 to September 1956 (high-water records only), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 724.51 ft (220.831 m) above mean sea level. Prior to Sept. 7, 1956, nonrecording gage and Sept. 7, 1956, to Sept. 14, 1965, water-stage recorder at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.--18 years (1956-74), 1,576 ft³/s (44.63 m³/s), 10.88 in/yr (276.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,000 ft³/s (481 m³/s) Jan. 23, gage height, 20.80 ft (6.340 m); minimum daily, 92 ft³/s (2.61 m³/s) Aug. 28.

Period of record: Maximum discharge, 19,100 ft³/s (541 m³/s) Feb. 16, 1950, gage height, 21.4 ft (6.52 m) at site then in use; minimum daily, 48 ft³/s (1.36 m³/s) Oct. 6, 13, 1963.

REMARKS.--Records good. Flow regulated by hydro-powerplant on the St. Joseph River 10.3 mi (16.6 km) upstream from station. Flow slightly regulated by upstream reservoirs.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	323	2,350	5,600	8,870	3,880	4,120	798	670	534	119	132
2	182	206	1,740	3,620	6,740	3,260	4,160	746	834	375	123	138
3	223	257	1,500	2,430	4,910	2,900	4,330	803	757	417	223	399
4	268	240	1,350	2,010	3,760	3,980	8,200	727	738	353	283	328
5	308	210	1,210	1,570	2,830	9,730	9,760	705	594	324	206	288
6	160	198	1,070	1,400	2,160	11,000	9,120	673	707	342	178	238
7	200	224	855	1,330	1,580	10,100	7,720	610	574	278	137	240
8	233	413	722	930	1,500	8,620	6,620	1,410	752	296	164	276
9	307	134	642	866	1,500	8,870	5,870	2,300	951	279	194	252
10	373	196	456	891	1,390	10,500	4,690	2,090	817	286	305	226
11	206	176	480	758	1,260	9,570	4,040	2,180	865	268	164	187
12	188	185	428	805	1,230	7,240	3,360	4,330	832	224	158	420
13	197	179	561	719	1,280	6,030	2,920	4,720	567	223	146	471
14	156	173	583	671	1,300	4,930	2,880	3,550	729	214	236	240
15	160	263	700	687	1,180	4,330	2,290	6,110	637	239	217	396
16	179	260	614	704	1,090	5,260	2,010	6,220	600	176	172	318
17	146	242	440	945	1,180	5,180	1,780	6,520	518	141	394	318
18	153	235	436	2,040	1,220	3,670	1,310	7,590	517	127	235	332
19	142	209	496	5,070	2,200	3,210	1,200	4,990	457	155	194	293
20	136	195	352	8,200	4,490	2,860	978	3,830	472	213	220	229
21	158	216	428	12,400	4,560	2,470	995	3,310	786	139	202	181
22	137	204	344	14,800	8,910	2,080	1,020	2,980	1,450	157	151	168
23	142	214	400	16,600	10,500	2,130	906	3,590	1,290	166	141	159
24	141	277	480	16,500	9,760	1,510	906	3,380	1,200	140	168	153
25	168	833	1,120	14,600	7,030	1,440	718	1,980	1,030	142	135	147
26	120	1,610	5,180	12,400	5,100	1,400	774	1,570	714	124	128	133
27	154	1,500	9,360	12,200	4,780	1,280	755	1,330	655	147	119	130
28	224	3,000	9,810	12,200	4,380	1,250	727	1,100	595	92	173	153
29	241	4,770	9,240	12,000	-----	1,290	978	921	582	110	167	233
30	245	3,740	8,300	11,100	-----	2,570	885	1,040	527	154	148	150
31	232	-----	7,140	10,200	-----	4,220	-----	681	-----	166	136	-----
TOTAL	6,133	20,882	68,787	186,246	106,690	146,760	96,022	82,784	22,417	7,001	5,736	7,326
MEAN	198	696	2,219	6,008	3,810	4,734	3,201	2,670	747	226	185	244
MAX	373	4,770	9,810	16,600	10,500	11,000	9,760	7,590	1,450	534	394	471
MIN	120	134	344	671	1,090	1,250	718	610	457	92	119	130
CFSM	.10	.35	1.13	3.05	1.94	2.41	1.63	1.36	.38	.11	.09	.12
IN.	.12	.39	1.30	3.52	2.02	2.78	1.82	1.57	.42	.13	.11	.14

CAL YR 1973 TOTAL 739,816 MEAN 2,027 MAX 10,400 MIN 116 CFSM 1.03 IN 13.99
WTR YR 1974 TOTAL 756,786 MEAN 2,073 MAX 16,600 MIN 92 CFSM 1.05 IN 14.31

PEAK DISCHARGE (BASE, 9,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-28	0945	15.03	9,880	02-23	0800	15.79	10,600	03-10	1815	16.00	10,900
01-23	2345	20.80	17,000	03-06	1645	16.23	11,100	04-05	1215	15.32	9,970

STREAMS TRIBUTARY TO LAKE ERIE

04183500 Maumee River at Antwerp, Ohio

LOCATION.--Lat 41°11'56", long 84°44'40", in sec. 22, T.3N., R.1E., Paulding County, on left bank 425 ft (130 m) downstream from bridge on State Highway 49, 1 mi (2 km) north of Antwerp, 7 mi (11 km) downstream from Indiana State line and 10 mi (16 km) upstream from Marie DeLarme Creek.

DRAINAGE AREA.--2,129 mi² (5,514 km²).

PERIOD OF RECORD.--September 1921 to December 1935, April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 694.90 ft (211.805 m) above mean sea level. Prior to Sept. 13, 1925, nonrecording gage at site 400 ft (122 m) upstream at same datum.

AVERAGE DISCHARGE.--49 years, 1,674 ft³/s (47.41 m³/s), 10.68 in/yr (271.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,800 ft³/s (504 m³/s) Jan. 24, gage height, 17.94 ft (5.468 m); minimum, 96 ft³/s (2.72 m³/s) Oct. 22.

Period of record: Maximum discharge, 26,200 ft³/s (742 m³/s) May 20, 1943, gage height, 20.29 ft (6.184 m); minimum, 24 ft³/s (0.68 m³/s) Oct. 17, 1930, June 21, 22, 1933, gage height, 0.32 ft (0.098 m). Flood of Mar. 27, 1913, estimated as 40,000 ft³/s (1,130 m³/s).

REMARKS.--Records good. Low flow slightly regulated by powerplant at Fort Wayne, Indiana, 32 mi upstream. Flow slightly regulated by upstream reservoirs. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1174: 1927, 1933, 1940. WSP 1387: 1922-23, 1925-27, 1934. WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	245	2,900	6,040	9,160	3,820	4,240	962	800	533	205	153
2	269	314	1,990	4,720	7,150	3,510	4,210	866	930	528	151	146
3	188	203	1,640	3,300	5,280	2,960	4,170	850	840	394	142	183
4	234	237	1,450	2,560	4,010	3,220	6,980	852	750	417	234	367
5	283	218	1,370	2,220	3,210	8,160	9,280	770	640	372	305	328
6	311	203	1,230	1,770	2,530	10,700	9,370	738	694	349	237	291
7	190	193	1,080	1,590	2,040	10,700	8,190	677	728	356	210	250
8	205	239	878	1,230	1,720	9,030	6,700	766	699	311	175	255
9	234	352	734	834	1,650	8,450	6,050	2,420	1,010	320	190	283
10	294	144	664	970	1,580	9,700	5,030	2,340	1,040	305	237	269
11	352	170	535	920	1,420	10,200	4,340	1,930	878	305	308	247
12	231	168	493	830	1,400	7,840	3,620	4,310	962	296	195	237
13	190	175	459	760	1,310	6,410	3,220	4,720	790	261	193	462
14	178	168	595	680	1,340	5,340	2,930	3,930	648	253	185	452
15	183	173	645	640	1,310	4,490	2,720	5,030	836	250	255	269
16	153	247	724	740	1,210	4,870	2,140	6,460	679	266	237	373
17	160	255	570	1,000	1,180	5,410	2,030	5,620	617	213	242	317
18	165	231	450	1,740	1,260	4,460	1,690	7,450	536	185	382	308
19	130	218	410	4,860	1,430	3,440	1,440	5,890	516	146	258	319
20	135	200	360	7,040	3,640	3,020	1,250	3,990	472	175	221	285
21	158	190	420	11,800	4,550	2,920	1,140	3,320	718	242	231	231
22	126	200	360	14,700	7,330	2,340	1,160	3,060	907	178	221	190
23	142	193	390	16,800	10,400	2,340	1,130	3,140	1,800	180	178	170
24	124	200	480	17,700	9,950	1,970	1,020	3,500	1,340	213	158	163
25	156	291	700	16,800	7,950	1,660	976	2,640	1,240	170	180	153
26	130	1,080	3,370	14,700	5,410	1,650	809	1,800	990	173	158	151
27	137	1,660	8,390	13,300	4,590	1,580	869	1,400	730	156	142	139
28	146	1,860	9,440	12,900	4,420	1,480	818	1,200	660	168	135	130
29	213	4,420	9,190	12,600	-----	1,560	982	1,100	612	124	178	158
30	250	4,190	8,060	11,900	-----	1,830	1,090	1,100	571	115	195	229
31	261	-----	6,920	10,500	-----	3,700	-----	950	-----	165	168	-----
TOTAL	6,079	18,637	66,897	198,144	108,470	148,760	99,594	83,781	24,633	8,119	6,506	7,508
MEAN	196	621	2,158	6,392	3,874	4,799	3,320	2,703	821	262	210	250
MAX	352	4,420	9,440	17,700	10,400	10,700	9,370	7,450	1,800	533	382	462
MIN	124	144	360	640	1,180	1,480	809	677	472	115	135	130
CFSM	.09	.29	1.01	3.00	1.82	2.25	1.56	1.27	.39	.12	.10	.12
IN.	.11	.33	1.17	3.46	1.90	2.60	1.74	1.46	.43	.14	.11	.13

CAL YR 1973 TOTAL 750,661 MEAN 2,057 MAX 10,800 MIN 120 CFSM .97 IN 13.12
WTR YR 1974 TOTAL 777,128 MEAN 2,129 MAX 17,700 MIN 115 CFSM 1.00 IN 13.58

PEAK DISCHARGE (BASE, 8,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-28	1200	12.61	9,490	02-23	1400	13.38	10,500	03-11	0800	13.34	10,400
01-24	0700	17.94	17,800	03-07	0500	13.68	10,900	04-06	0100	12.81	9,750

04184500 Bean Creek at Powers, Ohio

LOCATION.--Lat 41°40'39", long 84°13'56", in NE 1/4 sec. 24, T.9 S., R.1 E., Fulton County, on right bank at downstream side of bridge on U.S. Highway 20, 1 mi (2 km) east of Powers, 2.2 mi (3.5 km) upstream from Iron Creek, 3 mi (5 km) downstream from Silver Creek, and 5.2 mi (8.4 km) east of Fayette.

DRAINAGE AREA.--206 mi² (534 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 722.57 ft (220.239 m) above mean sea level. Prior to Jan. 18, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 161 ft³/s (4.560 m³/s), 10.61 in/yr (269.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,560 ft³/s (44.2 m³/s) Mar. 10, gage height, 10.39 ft (3.167 m); minimum, 16 ft³/s (0.45 m³/s) Aug. 31, Sept. 1, 2, 26, 27, 28.

Period of record: Maximum discharge, 4,250 ft³/s (120 m³/s) Apr. 29, 1956, gage height, 13.82 ft (4.212 m); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 9, 1964.

REMARKS.--Records good. Water-quality records for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1307: 1948(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	34	84	210	563	295	332	141	180	100	22	17
2	23	35	66	170	420	289	428	130	149	88	22	17
3	22	34	57	140	331	319	409	127	131	80	23	20
4	23	31	58	120	293	499	879	119	116	73	23	22
5	28	30	71	100	219	1,290	646	110	104	73	22	22
6	24	29	74	90	190	1,250	515	110	95	75	22	20
7	22	27	62	80	170	1,110	418	150	90	65	20	18
8	24	27	54	70	150	1,020	426	550	121	60	20	18
9	27	26	50	64	140	1,300	377	480	148	56	21	18
10	26	25	47	60	130	1,530	321	380	135	52	21	17
11	25	24	45	66	130	1,300	286	460	118	49	22	17
12	25	24	42	60	120	1,030	284	680	110	48	22	23
13	24	24	50	56	120	724	377	600	102	45	21	36
14	24	24	106	52	130	535	348	500	94	42	21	32
15	23	25	117	50	140	439	291	640	94	39	28	26
16	23	26	102	56	148	427	244	690	96	36	22	23
17	23	29	73	72	134	390	218	812	94	34	29	22
18	21	30	66	110	130	341	200	754	89	33	40	20
19	19	29	62	175	141	321	191	503	231	31	31	18
20	19	28	59	235	237	300	195	373	434	29	25	18
21	19	30	56	1,020	305	277	187	297	404	27	22	18
22	19	32	54	1,360	907	256	176	247	347	27	20	17
23	20	34	54	1,440	1,220	232	171	213	227	27	25	17
24	20	33	56	1,310	891	211	161	181	178	28	22	17
25	21	35	66	1,030	653	188	149	156	147	28	21	17
26	21	40	92	768	447	189	140	142	141	27	21	17
27	21	39	1,000	1,190	343	180	134	133	159	25	20	16
28	21	71	880	1,300	292	175	130	122	161	23	18	17
29	23	157	700	964	-----	177	139	198	133	23	19	20
30	25	114	450	732	-----	225	148	375	112	25	18	21
31	30	-----	280	682	-----	371	-----	237	-----	24	17	-----
TOTAL	710	1,146	5,033	13,832	9,094	17,190	8,920	10,610	4,740	1,392	700	601
MEAN	22.9	38.2	162	446	325	555	297	342	158	44.9	22.6	20.0
MAX	30	157	1,000	1,440	1,220	1,530	879	812	434	100	40	36
MIN	19	24	42	50	120	175	130	110	89	23	17	16
CFSM	.11	.19	.79	2.17	1.58	2.69	1.44	1.66	.77	.22	.11	.10
IN.	.13	.21	.91	2.50	1.64	3.10	1.61	1.92	.86	.25	.13	.11

CAL YR 1973 TOTAL 71,732 MEAN 197 MAX 1,160 MIN 14 CFSM .96 IN 12.95
WTR YR 1974 TOTAL 73,968 MEAN 203 MAX 1,530 MIN 16 CFSM .99 IN 13.36

PEAK DISCHARGE (BASE, 1,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27 or				01-27	2330	9.83	1,450	03-05	2145	9.72	1,440
12-28 ----		unknown	about 1,200	02-23	0215	9.11	1,330	03-10	1345	10.39	1,560
01-24 0015		9.80	1,450								

STREAMS TRIBUTARY TO LAKE ERIE

04185000 Tiffin River at Stryker, Ohio

LOCATION.--Lat 41°30'17", long 84°25'49", in SW 1/4 sec. 5, T.6 N., R.4 E., Williams County, on right bank 0.5 mi (0.8 km) downstream from bridge on State Highway 191 at west edge of Stryker, 0.6 mi (1.0 km) upstream from Penn Central bridge, and 1.6 mi (2.6 km) downstream from Leatherwood Creek.

DRAINAGE AREA.--410 mi² (1,060 km²).

PERIOD OF RECORD.--September 1921 to September 1928 (published as "near Stryker"), October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 685.1 ft (208.82 m) above mean sea level. Prior to Sept. 30, 1928, nonrecording gage at site 3.5 mi (5.6 km) downstream at different datum. Oct. 13, 1940, to Jan. 17, 1941, nonrecording gage and Jan. 18, 1941, to Sept. 30, 1953, water-stage recorder, at site 0.5 mi (0.8 km) downstream at same datum.

AVERAGE DISCHARGE.--41 years, 309 ft³/s (8.751 m³/s), 10.23 in/yr (259.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,510 ft³/s (99.4 m³/s) Jan. 24, gage height, 14.36 ft (4.377 m); minimum daily, 11 ft³/s (0.31 m³/s) Sept. 26, 27.

Period of record: Maximum discharge, 6,640 ft³/s (188 m³/s) Apr. 25, 1950; maximum gage height, 16.16 ft (4.926 m) May 1, 1956; minimum discharge, 3.6 ft³/s (0.10 m³/s) Aug. 30, 31, 1953.

Flood in March 1913 reached a stage of 16.0 ft (4.88 m), from floodmarks, discharge, 7,600 ft³/s (215 m³/s). Flood in 1937 reached a stage of 15.0 ft (4.57 m), from information by local resident, discharge, 6,000 ft³/s (170 m³/s).

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1144: 1922-28. WSP 1387: 1925. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	33	321	1,150	1,630	732	621	205	377	144	34	29
2	47	42	222	830	1,400	597	706	195	282	125	34	28
3	42	50	167	538	1,130	576	768	181	218	111	34	28
4	37	49	142	390	890	688	1,630	173	186	99	34	28
5	34	45	141	319	654	1,510	2,020	162	163	90	34	29
6	34	40	160	274	538	2,380	1,830	153	145	89	34	28
7	35	39	173	251	477	2,530	1,440	146	134	88	33	27
8	33	39	151	214	411	2,220	1,160	164	223	79	32	25
9	30	38	130	187	400	2,070	966	277	301	72	32	23
10	29	36	118	182	366	2,120	832	471	277	69	32	22
11	28	35	106	185	324	2,230	690	595	230	64	32	21
12	28	34	97	180	292	2,140	573	778	194	60	33	21
13	28	32	106	168	283	1,860	534	1,020	165	58	34	22
14	27	30	150	158	287	1,560	553	1,300	148	55	34	24
15	27	29	227	162	263	1,260	577	1,480	151	52	35	26
16	26	31	253	167	228	1,060	521	1,380	163	49	35	25
17	25	35	189	181	224	880	426	1,340	155	46	38	22
18	24	37	147	200	222	764	364	1,480	142	44	40	20
19	23	37	129	219	223	664	328	1,630	140	43	43	18
20	22	38	128	321	396	577	305	1,470	262	41	43	17
21	20	38	108	966	548	521	295	1,120	456	40	37	16
22	20	40	107	1,560	1,110	480	283	804	520	38	34	15
23	20	42	117	2,510	1,620	444	267	556	534	38	32	14
24	19	45	123	3,460	2,110	403	248	412	434	39	31	13
25	19	47	134	3,070	2,010	360	224	326	299	40	33	12
26	19	52	447	2,410	1,650	324	206	264	222	39	33	11
27	20	57	846	2,320	1,300	319	192	224	200	38	32	11
28	21	74	1,020	2,470	966	307	182	200	203	36	32	16
29	22	167	1,170	2,560	-----	303	185	189	206	35	32	21
30	24	293	1,420	2,240	-----	350	197	284	174	33	31	13
31	26	-----	1,420	1,910	-----	514	-----	405	-----	34	30	-----
TOTAL	852	1,604	10,169	31,752	21,952	32,743	19,123	19,384	7,304	1,888	1,057	625
MEAN	27.5	53.5	328	1,024	784	1,056	637	625	243	60.9	34.1	20.8
MAX	47	293	1,420	3,460	2,110	2,530	2,020	1,630	534	144	43	29
MIN	19	29	97	158	222	303	182	146	134	33	30	11
CFSM	.07	.13	.80	2.50	1.91	2.58	1.55	1.52	.59	.15	.08	.05
IN.	.08	.15	.92	2.88	1.99	2.97	1.74	1.76	.66	.17	.10	.06

CAL YR 1973 TOTAL 135,355 MEAN 371 MAX 1,740 MIN 19 CFSM .90 IN 12.28
WTR YR 1974 TOTAL 148,453 MEAN 407 MAX 3,460 MIN 11 CFSM .99 IN 13.47

PEAK DISCHARGE (BASE, 1,850 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-24	1600	14.36	3,510	03-06	2300	13.32	2,560
01-29	0700	13.37	2,600	04-05	1600	12.66	2,060
02-24	2300	12.82	2,170				

04186500 Auglaize River near Fort Jennings, Ohio

LOCATION.--Lat 40°56'55", long 84°15'58", in SE 1/4 sec. 15, T.1 S., R.5 E., Putnam County, on left bank 200 ft (61 m) upstream from bridge on U.S. Highway 224, 3.5 mi (5.6 km) northeast of Fort Jennings, 6 mi (10 km) upstream from Ottawa River, and 7.3 mi (11.7 km) downstream from Jennings Creek.

DRAINAGE AREA.--332 mi² (860 km²).

PERIOD OF RECORD.--August 1921 to December 1935. October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 713.6 ft (217.51 m) above mean sea level. Prior to Oct. 6, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 284 ft³/s (8.043 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,250 ft³/s (177 m³/s) Jan. 20, gage height, 15.35 ft (4.679 m); minimum, 11 ft³/s (0.31 m³/s) Aug. 27.

Period of record: Maximum discharge, about 12,000 ft³/s (340 m³/s) Jan. 23, 1959; maximum gage height, 20.30 ft (6.187 m) Jan. 23, 1959, from floodmark (ice jam); minimum discharge, 4.5 ft³/s (0.13 m³/s) Oct. 7, 1956, mi (3,147 km) minimum gage height, 0.75 ft (0.229 m) Aug. 28, 1932.

REMARKS.--Records good. Beginning Jan. 4, 1971, water was diverted at a point 24.3 mi (39.1 km) upstream from station into Lake Bresler. Storage in Lake Bresler is available for low-flow augmentation and water supply of city of Lima, in Ottawa River basin. Net withdrawal totaled 1,206 mil gal (4.565 hm³), equivalent to a mean withdrawal of 5.1 ft³/s (0.14 m³/s). No releases have been made for low-flow augmentation. Some diversion from Grand Lake to Auglaize River basin through Miami and Erie Canal into Jennings Creek at a point 9.2 mi (14.8 km) upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: 1932. WSP 974: 1930(M). WSP 1307: 1922-24(M), 1926-27(M), 1929(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	53	288	375	452	464	615	73	58	33	15	41
2	27	68	213	258	339	566	442	55	53	31	15	37
3	34	60	161	250	271	426	400	53	49	28	15	40
4	32	51	92	220	223	376	1,530	49	47	27	15	44
5	43	42	74	200	173	888	3,510	73	46	30	18	38
6	39	40	74	180	160	1,130	3,010	71	46	27	19	35
7	37	35	122	170	170	613	1,120	61	44	24	17	30
8	40	31	101	160	170	404	638	66	76	23	18	29
9	65	32	82	150	160	422	542	72	124	24	19	26
10	51	31	75	140	150	920	795	88	111	26	17	22
11	35	30	64	130	140	735	638	66	65	26	14	20
12	31	31	60	120	140	540	440	211	50	26	16	19
13	29	31	62	110	150	502	339	312	44	26	23	21
14	30	30	78	100	255	373	273	208	42	26	20	24
15	30	29	81	100	472	313	234	164	43	26	18	33
16	30	37	72	130	349	1,150	217	130	41	27	23	32
17	30	43	65	568	257	1,310	174	310	35	23	27	28
18	29	44	60	1,280	214	643	153	466	33	21	31	27
19	27	44	57	2,960	331	416	138	234	32	20	26	23
20	27	39	55	5,880	1,210	322	122	150	33	20	31	19
21	27	37	58	5,490	1,090	276	114	117	33	20	32	19
22	27	34	56	3,190	1,380	276	113	99	34	20	25	17
23	27	34	55	2,020	1,920	282	94	94	46	20	19	16
24	27	36	53	2,290	923	270	92	105	43	22	18	14
25	26	103	248	1,350	438	223	83	114	70	20	15	13
26	29	456	2,100	675	319	199	74	92	55	20	13	13
27	29	376	3,760	1,150	273	241	73	74	43	19	11	13
28	27	262	3,560	1,510	263	287	80	65	40	19	14	13
29	32	605	1,760	1,660	-----	422	85	63	37	17	25	14
30	44	607	811	1,230	-----	1,600	75	61	33	16	24	14
31	43	-----	527	678	-----	1,440	-----	61	-----	16	31	-----
TOTAL	1,028	3,351	14,924	34,724	12,392	18,029	16,213	3,857	1,506	723	624	734
MEAN	33.2	112	481	1,120	443	582	540	124	50.2	23.3	20.1	24.5
MAX	65	607	3,760	5,880	1,920	1,600	3,510	466	124	33	32	44
MIN	24	29	53	100	140	199	73	49	32	16	11	13
CFSM	.10	.34	1.45	3.37	1.33	1.75	1.63	.37	.15	.07	.06	.07
IN.	.12	.38	1.67	3.89	1.39	2.02	1.82	.43	.17	.08	.07	.08

CAL YR 1973 TOTAL 144,247 MEAN 395 MAX 3,760 MIN 22 CFSM 1.19 IN 16.16
WTR YR 1974 TOTAL 108,105 MEAN 296 MAX 5,880 MIN 11 CFSM .89 IN 12.11

PEAK DISCHARGE (EASE, 2,700 FT³/S)

DATE	TIME	G. H.	DISCHARGE
12-27	1900	12.84	4,030
01-20	0800	15.35	6,250
04-05	1830	12.68	3,900

STREAMS TRIBUTARY TO LAKE ERIE

04187500 Ottawa River at Allentown, Ohio

LOCATION.--Lat 40°45'18", long 84°11'41", in NW 1/4 sec. 29, T.3 S., R.6 E., Allen County, on left bank at upstream side of bridge on State Highway 81 at Allentown, 0.3 mi (0.5 km) downstream from Kessler Run, and 1.5 mi (2.4 km) upstream from McBride Ditch.

DRAINAGE AREA.--160 mi² (414 km²).

PERIOD OF RECORD.--October 1923 to December 1935, August 1943 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 789.14 ft (240.530 m) above mean sea level. Prior to Oct. 1, 1925, nonrecording gage and Oct. 1, 1925, to Dec. 30, 1935, water-stage recorder, at site 35 ft (11 m) downstream at same datum.

AVERAGE DISCHARGE.--43 years, 126 ft³/s (3.568 m³/s), 10.69 in/yr (271.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,570 ft³/s (129 m³/s) Jan. 19, gage height, 9.19 ft (2.801 m); minimum discharge, 20 ft³/s (0.57 m³/s) Oct. 25, July 20, Sept. 22; minimum gage height, 2.52 ft (0.768 m) Oct. 25.

Period of record: Maximum discharge, 7,740 ft³/s (219 m³/s) Jan. 22, 1959, gage height, 10.88 ft (3.316 m), from rating curve extended above 4,800 ft³/s (136 m³/s); minimum, 1.4 ft³/s (0.040 m³/s) June 28, 29, 1933.

Flood of Mar. 15, 1939, reached a stage of 10.1 ft (3.08 m), discharge, 6,160 ft³/s (174 m³/s), and flood in May 1943 reached a stage of about 10 ft (3 m), discharge, about 6,000 ft³/s (170 m³/s).

REMARKS.--Records good. Diurnal fluctuation and some regulation caused by operation of water-supply and sewage-treatment plants of city of Lima upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1004: 1924. WSP 1144: 1944(M). WSP 1207: 1927. WSP 1387: 1924(M), 1927-28(M), 1929, 1930(M), 1935(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	83	47	320	180	473	147	58	36	38	28	47
2	28	46	39	90	132	378	140	53	38	30	29	34
3	26	41	38	80	110	244	170	51	37	29	32	77
4	33	37	47	70	84	166	2,950	52	33	27	31	49
5	29	37	46	64	74	645	2,330	52	33	28	26	40
6	27	36	41	56	66	533	962	49	31	28	28	35
7	25	38	39	50	70	232	540	38	30	26	28	30
8	136	39	36	45	62	185	308	60	42	26	27	28
9	43	37	43	43	58	378	274	58	44	28	28	28
10	39	34	44	41	56	1,180	385	53	28	27	28	30
11	36	31	35	40	58	608	232	53	27	28	33	28
12	34	32	33	40	62	378	180	124	37	26	64	37
13	38	34	45	42	103	250	140	105	31	27	40	48
14	39	34	41	46	256	159	110	74	35	27	95	34
15	33	44	40	60	136	200	99	83	32	41	44	28
16	33	43	48	127	108	1,120	79	66	29	31	35	30
17	32	39	38	585	97	741	68	83	28	27	50	31
18	31	40	36	914	91	287	62	95	28	26	33	29
19	31	37	35	3,900	336	166	57	119	29	26	31	31
20	28	36	34	3,230	872	127	56	82	31	25	32	35
21	27	37	34	1,490	548	113	60	57	28	26	30	31
22	28	35	35	980	1,050	124	66	51	37	25	29	24
23	28	33	38	1,290	890	136	64	62	41	32	29	26
24	29	42	43	920	343	129	60	72	31	28	29	28
25	26	147	465	450	147	99	51	49	31	28	28	29
26	25	110	1,550	322	113	93	46	50	28	29	27	29
27	28	64	1,560	825	99	116	44	46	27	29	30	29
28	33	99	1,100	555	136	113	48	46	26	27	64	37
29	46	129	950	705	-----	378	51	39	31	25	93	34
30	62	71	850	495	-----	399	66	38	27	26	54	26
31	44	-----	410	280	-----	250	-----	38	-----	28	43	-----
TOTAL	1,127	1,565	7,840	18,155	6,337	10,400	9,845	1,956	966	874	1,198	1,022
MEAN	36.4	52.2	253	586	226	335	328	63.1	32.2	28.2	38.6	34.1
MAX	136	147	1,560	3,900	1,050	1,180	2,950	124	44	41	95	77
MIN	25	31	33	40	56	93	44	38	26	25	26	24
CFSM	.23	.33	1.58	3.66	1.41	2.09	2.05	.39	.20	.18	.24	.21
IN.	.26	.36	1.82	4.22	1.47	2.42	2.29	.45	.22	.20	.28	.24

CAL YR 1973 TOTAL 75,274 MEAN 206 MAX 2,750 MIN 21 CFSM 1.29 IN 17.50
WTR YR 1974 TOTAL 61,285 MEAN 168 MAX 3,900 MIN 24 CFSM 1.05 IN 14.25

PEAK DISCHARGE (BASE, 1,600 FT³/S)

DATE	TIME	G. H.	DISCHARGE
12-27	0115	6.36	1,830
01-19	2300	9.19	4,570
04-05	0030	8.74	3,950

04189000 Blanchard River near Findlay, Ohio

LOCATION.--Lat 41°03'21", long 83°41'17", on east line of sec. 10, T.1 N., R.10 E., Hancock County, on left bank at upstream side of county road bridge, 2 mi (3 km) west of Findlay, 3 mi (5 km) downstream from Eagle Creek, and 3 mi (5 km) upstream from Aurland Run.

DRAINAGE AREA.--346 mi² (896 km²).

PERIOD OF RECORD.--October 1923 to December 1935, October 1940 to current year. Monthly discharge only for October 1923, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 754.55 ft (229.987 m) above mean sea level. Prior to July 24, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--46 years, 244 ft³/s (6.910 m³/s), 9.58 in/yr (243.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,410 ft³/s (210 m³/s) Jan. 20, gage height, 13.25 ft (4.039 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 25, 26, 30.

Period of record: Maximum discharge, 15,000 ft³/s (425 m³/s) Feb. 11, 1959, gage height, 16.76 ft (5.108 m); minimum, 0.4 ft³/s (0.011 m³/s) Aug. 26, 27, Sept. 3, 1934.

Flood in March 1913 reached a stage of 18.5 ft (5.64 m); discharge, 22,000 ft³/s (623 m³/s), from rating curve extended above 10,000 ft³/s (283 m³/s).

REMARKS.--Records good. Water is diverted upstream from station into Findlay Reservoir. Storage in Findlay Reservoir used for water supply of city of Findlay, and is available for low-flow augmentation. All water returns to stream upstream from station. No releases have been made for low-flow augmentation. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 974: 1942. WSP 1054: 1927-30, 1933(M), 1945. WSP 1387: 1926, 1928(M), 1930(M), 1952. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	81	197	307	352	863	319	92	74	72	18	51
2	33	67	114	214	256	859	238	89	60	51	18	37
3	30	57	82	194	183	572	253	92	56	39	22	77
4	42	45	76	158	140	454	2,620	58	51	30	24	43
5	75	42	82	139	120	1,160	4,060	65	70	30	19	34
6	81	36	164	131	140	912	2,410	67	48	26	19	32
7	53	34	144	114	130	737	924	51	45	24	18	29
8	38	29	85	103	110	782	558	85	46	23	18	25
9	32	29	58	100	96	1,180	448	143	46	25	20	25
10	28	27	76	97	90	2,590	621	104	40	25	19	24
11	26	25	70	90	100	1,900	509	100	45	25	18	24
12	24	26	66	83	110	948	382	199	48	23	19	27
13	25	26	81	76	122	646	301	183	39	21	85	26
14	22	27	101	68	185	406	244	138	36	21	58	22
15	22	42	135	62	229	340	202	148	56	21	25	20
16	21	33	111	137	214	1,850	155	114	58	23	34	20
17	22	29	76	759	170	1,660	128	199	45	23	292	19
18	22	28	75	1,060	136	751	112	976	43	22	42	19
19	22	27	46	3,860	310	403	102	544	49	22	26	19
20	22	27	56	7,210	1,290	286	89	244	48	20	24	30
21	20	37	60	5,970	1,210	247	100	140	43	19	24	21
22	21	30	56	3,530	2,060	229	110	120	49	17	23	17
23	25	26	51	2,940	2,070	250	120	116	51	20	22	17
24	23	32	47	2,230	992	235	110	102	49	25	21	15
25	23	145	229	1,280	418	193	94	100	46	21	20	15
26	24	317	1,930	618	286	185	63	89	40	20	20	14
27	23	304	3,110	936	214	220	76	77	37	19	22	15
28	22	212	2,980	1,030	265	232	76	74	36	18	145	18
29	63	338	2,060	1,440	-----	199	83	79	37	17	108	16
30	50	346	913	1,090	-----	262	92	160	43	18	83	15
31	46	-----	482	569	-----	430	-----	110	-----	18	61	-----
TOTAL	1,005	2,524	13,813	36,595	11,998	21,981	15,599	4,858	1,434	778	1,367	766
MEAN	32.4	84.1	446	1,180	429	709	520	157	47.8	25.1	44.1	25.5
MAX	81	346	3,110	7,210	2,070	2,590	4,060	976	74	72	292	77
MIN	20	25	46	62	90	185	63	51	36	17	18	14
CFSM	.09	.24	1.29	3.41	1.24	2.05	1.50	.45	.14	.07	.13	.07
IN.	.11	.27	1.49	3.93	1.29	2.36	1.68	.52	.15	.08	.15	.08

CAL YR 1973 TOTAL 143,922 MEAN 394 MAX 5,350 MIN 18 CFSM 1.14 IN 15.47
WTR YR 1974 TOTAL 112,718 MEAN 309 MAX 7,210 MIN 14 CFSM .89 IN 12.12

PEAK DISCHARGE (BASE, 2,400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	1700	8.97	3,300	03-10	1130	7.91	2,760
01-20	0830	13.25	7,410	04-05	0200	11.32	5,120
02-22	2130	7.53	2,560				

STREAMS TRIBUTARY TO LAKE ERIE

04191500 Auglaize River near Defiance, Ohio

LOCATION.--Lat 41°14'15", long 84°23'57", in NE 1/4 sec. 9, T.3 N., R.4 E., Defiance County, on right bank 125 ft (38 m) downstream from dam of Toledo Edison Co., 0.2 mi (0.3 km) upstream from Jackson ditch, and 3 mi (5 km) south of Defiance.

DRAINAGE AREA.--2,318 mi² (6,004 km²).

PERIOD OF RECORD.--May to August 1903 (gauge heights only), April 1915 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 659.70 ft (201.077 m) above mean sea level. May 20 to Aug. 8, 1903, nonrecording gage at site 1.8 mi (2.9 km) downstream at different datum. Apr. 13, 1915, to Dec. 6, 1933, nonrecording gage near right bank on upstream side of dam at datum 6.00 ft (1.829 m) higher, and auxiliary tailwater staff gage near right bank on downstream side of dam at present datum.

AVERAGE DISCHARGE.--59 years, 1,699 ft³/s (48.12 m³/s).

EXTREMES.--Current year: Maximum discharge, about 33,000 ft³/s (935 m³/s) Jan. 22; minimum, 18 ft³/s (0.51 m³/s) Oct. 28, 29.

Period of record: Maximum discharge, 52,500 ft³/s (1,490 m³/s) Feb. 16, 1950, Feb. 12, 1959, gauge height, 26.4 ft (8.05 m), from graph based on hourly powerplant tailwater-gage readings and gage readings, respectively; maximum gage height, 27.65 ft (8.428 m) Feb. 13, 1959, from floodmark (ice jam); minimum daily discharge, 0.5 ft³/s (0.014 m³/s) Oct. 13, 14, 1952, during repairs to powerplant dam.

Flood in March 1913 reached a stage of 38.8 ft (11.83 m), from reading on powerplant tailwater gage at present datum; discharge, 120,000 ft³/s (3,400 m³/s), from rating curve extended above 51,000 ft³/s (1,440 m³/s).

REMARKS.--Records good except those for periods of no gage height record, which are fair. Flow regulated by dam at former powerplant 125 ft (38 m) upstream from station; reservoir capacity, 9,800 acre-ft (12.1 hm³), operation of plant discontinued Jan. 10, 1963; occasional gate operation subsequently. Some diversion by Miami and Erie Canal from Grand Lake into Jennings Creek, tributary to Auglaize River 70 mi (113 km) upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 954: 1941. WSP 1912: Drainage area. WRD Ohio 1972: 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	23	2,680	6,000	6,000	3,000	825	453	404	151	45	262
2	106	25	1,840	4,200	4,500	3,700	2,190	476	425	160	51	217
3	99	133	1,180	3,000	3,400	3,000	3,220	446	369	155	57	228
4	129	250	841	2,100	2,600	2,700	10,200	418	314	151	67	200
5	118	247	764	1,600	2,000	6,000	13,700	376	275	137	42	217
6	121	220	655	1,300	1,500	9,600	16,400	348	255	133	47	200
7	136	180	607	1,100	1,200	11,000	14,200	327	255	122	53	182
8	137	159	592	900	1,100	9,600	10,000	411	294	115	55	151
9	206	134	573	760	1,000	8,600	8,000	612	453	109	61	125
10	349	124	502	640	1,000	11,000	6,200	1,070	760	95	63	125
11	290	130	385	600	920	12,000	4,800	1,140	674	89	67	115
12	212	123	343	560	900	8,800	3,500	2,100	476	89	63	125
13	162	125	368	540	900	6,400	2,600	3,820	362	82	75	137
14	129	97	445	520	1,200	3,580	2,000	2,980	301	82	118	115
15	106	141	520	500	2,700	1,870	1,600	2,890	281	61	122	125
16	100	134	491	546	2,300	4,830	1,200	3,120	294	65	148	104
17	95	169	442	934	1,900	9,780	900	2,980	327	75	200	112
18	89	193	435	3,310	1,500	8,640	720	7,050	301	77	217	87
19	96	185	437	8,790	2,610	4,270	588	7,600	250	57	275	95
20	66	180	379	25,000	4,490	3,160	540	5,110	211	55	262	77
21	73	190	324	11,000	8,560	2,020	520	3,170	233	53	182	82
22	621	200	304	30,000	11,600	572	500	1,700	268	55	137	77
23	676	210	303	18,000	14,200	369	490	1,130	390	53	112	87
24	22	250	300	15,000	11,000	1,540	480	920	556	57	89	87
25	22	1,100	408	12,000	7,000	2,850	476	890	564	59	79	84
26	21	1,750	5,530	9,000	4,200	1,230	468	840	446	57	84	82
27	21	2,070	18,000	7,200	3,200	281	432	665	320	63	75	67
28	21	2,640	24,000	10,000	2,600	133	397	556	244	59	70	75
29	21	3,660	22,000	12,000	-----	2,480	397	476	200	59	79	84
30	22	3,830	13,000	10,000	-----	3,050	432	439	178	59	137	72
31	23	-----	8,800	8,000	-----	3,820	-----	425	-----	49	268	-----
TOTAL	4,391	18,872	107,448	205,100	106,080	149,875	107,975	54,938	10,680	2,683	3,400	3,796
MEAN	142	629	3,466	6,616	3,789	4,835	3,599	1,772	356	86.5	110	127
MAX	676	3,830	24,000	30,000	14,200	12,000	16,400	7,600	760	160	275	262
MIN	21	23	300	500	900	133	397	327	178	49	42	67

CAL YR 1973 TOTAL 885,291 MEAN 2,425 MAX 24,000 MIN 21
WTR YR 1974 TOTAL 775,238 MEAN 2,124 MAX 30,000 MIN 21

PEAK DISCHARGE (BASE, 13,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-28	unknown	unknown	about 25,000	02-23	1130	14.43	14,800
01-22	unknown	unknown	about 33,000	04-07	0400	15.31	17,000

04192500 Maumee River near Defiance, Ohio

LOCATION.--Lat 41°17'31", long 84°16'52", in NW 1/4 sec. 22. T.4 N., R.5 E., Defiance County, on left bank 40 ft (12 m) upstream from Independence Dam, 4 mi (6 km) downstream from Auglaize River, and 4.5 mi (7.2 km) east of Defiance.

DRAINAGE AREA.--5,545 mi² (14,362 km²).

PERIOD OF RECORD.--October 1924 to December 1935, March 1939 to September 1974 (discontinued).

GAGE.--Water-stage recorder upstream from concrete dam. Datum of gage is 658.56 ft (200.729 m), above mean sea level. Prior to Nov. 13, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--46 years, 4,070 ft³/s (115.3 m³/s).

EXTREMES.--Current year: Maximum discharge, 61,200 ft³/s (1,733 m³/s) Jan. 22, gage height, 10.35 ft (3.155 m); minimum, 149 ft³/s (4.22 m³/s) July 31, gage height, 1.51 ft (0.460 m).

Period of record: Maximum discharge, 87,100 ft³/s (2,470 m³/s) Feb. 16, 1950, gage height, 13.70 ft (4.176 m); maximum gage height, 13.77 ft (4.197 m) Feb. 11, 1959 (ice jam); minimum discharge, 2 ft³/s (0.057 m³/s) Sept. 3, 1925; minimum gage height, 1.09 ft (0.332 m) Sept. 26, 1928.

REMARKS.--Records good. Flow affected by occasional regulation of Auglaize River at hydroelectric plant of Toledo Edison Company, 7 mi (11 km) upstream. Operation of plant discontinued Jan. 10, 1963. Low-flow slightly regulated by powerplant at Fort Wayne, Ind. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 974: 1926-27, 1930. WSP 1387: 1925-28, 1946. WRD Ohio, 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	394	7,260	12,300	19,400	8,550	8,050	1,770	2,020	921	174	411
2	289	303	4,880	9,210	15,100	9,030	8,350	1,700	1,630	847	249	367
3	378	425	3,370	6,630	11,300	9,150	8,760	1,610	1,610	812	249	372
4	394	491	2,620	5,080	8,040	10,900	21,400	1,560	1,570	672	223	351
5	409	508	2,550	3,810	4,860	20,300	28,400	1,500	1,440	634	236	501
6	409	474	2,260	3,140	3,530	28,000	31,600	1,390	1,320	577	333	508
7	474	425	1,930	2,670	2,720	28,000	26,900	1,330	1,290	539	318	484
8	409	409	1,740	2,220	2,880	23,900	19,900	1,440	1,500	524	289	428
9	363	378	1,530	1,770	2,820	21,300	15,200	3,050	1,870	482	275	368
10	526	508	1,310	1,510	2,720	23,700	12,700	5,330	2,420	457	262	393
11	562	394	1,110	1,560	2,450	25,100	10,500	4,860	2,180	433	289	397
12	580	318	914	1,800	2,340	22,000	9,490	8,180	1,770	411	378	418
13	458	348	961	1,560	2,490	17,800	8,030	12,300	1,640	404	289	480
14	348	333	1,210	1,430	2,690	14,100	6,890	10,600	1,370	390	333	564
15	303	425	1,340	1,370	3,100	10,400	6,530	11,300	1,280	337	303	596
16	303	394	1,340	1,490	3,180	11,700	5,880	13,900	1,390	333	409	412
17	262	425	1,170	1,790	2,930	16,400	3,710	12,700	1,320	348	526	476
18	262	526	1,030	3,890	2,720	16,000	2,620	16,300	1,230	333	491	446
19	275	474	856	10,300	3,440	11,600	2,150	17,000	1,100	289	655	417
20	249	458	725	24,300	8,050	8,650	2,350	12,600	1,070	249	562	403
21	249	474	653	50,800	16,200	6,720	2,250	9,540	1,210	249	458	389
22	526	425	791	58,700	23,500	4,860	2,080	7,130	1,890	289	394	332
23	1,190	409	926	53,200	30,300	3,530	2,040	6,430	2,830	289	363	289
24	236	442	870	46,500	27,600	4,600	1,950	6,090	3,030	249	289	270
25	210	655	1,260	39,600	19,800	5,770	1,860	5,320	2,480	275	249	264
26	198	1,620	9,350	31,000	14,200	4,170	1,670	3,850	2,070	262	249	249
27	198	3,410	25,500	30,600	9,580	2,840	1,500	2,850	1,570	249	275	236
28	223	5,980	34,400	30,800	7,800	2,070	1,490	2,380	1,230	249	211	242
29	236	9,240	30,400	31,000	-----	4,360	1,490	2,150	1,110	223	211	263
30	275	9,690	22,900	29,800	-----	6,770	1,720	1,780	1,030	210	237	224
31	318	-----	16,400	24,700	-----	9,060	-----	2,090	-----	174	398	-----
TOTAL	11,401	40,755	183,556	524,530	255,740	391,330	257,460	190,030	49,470	12,710	10,177	11,550
MEAN	368	1,359	5,921	16,920	9,134	12,620	8,582	6,130	1,649	410	328	385
MAX	1,190	9,690	34,400	58,700	30,300	28,000	31,600	17,000	3,030	921	655	596
MIN	198	303	653	1,370	2,340	2,070	1,490	1,330	1,030	174	174	224

CAL YR 1973 TOTAL 2,013,973 MEAN 5,518 MAX 34,400 MIN 198
WTR YR 1974 TOTAL 1,938,709 MEAN 5,312 MAX 58,700 MIN 174

PEAK DISCHARGE (BASE, 23,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-28	0600	7.52	39,200	02-23	1500	6.65	31,000	03-11	0300	6.05	25,700
01-22	0100	10.35	61,200	03-06	1600	6.42	28,900	04-06	1300	6.78	32,100

STREAMS TRIBUTARY TO LAKE ERIE

04193500 Maumee River at Waterville, Ohio

LOCATION.--Lat 41°30'00", long 83°42'46", Lucas County, on downstream side of second pier from left end of bridge on State Highway 64 at Waterville, 3 mi (5 km) downstream from Tontogany Creek, and 21.1 mi (33.9 km) upstream from mouth.

DRAINAGE AREA.--6,330 mi² (16,395 km²).

PERIOD OF RECORD.--November 1898 to December 1901, August 1921 to December 1935, March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft (181.572 m) above mean sea level. Nov. 19, 1898, to Dec. 31, 1901, Aug. 26, 1921 to July 31, 1930, nonrecording gage, Aug. 1, 1930 to Dec. 31, 1935, water-stage recorder, Mar. 14, 1939 to Mar. 12, 1940 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years (1921-35, 1939-74) 4,786 ft³/s (135.5 m³/s), 10.27 in/yr (260.8 mm/yr); includes flow in Miami and Erie Canal at Waterville 1922-29; canal was abandoned in 1929 and was filled in prior to March 1939.

EXTREMES.--Current year: Maximum discharge, 71,300 ft³/s (2,019 m³/s) Jan. 22, gage height, 12.93 ft (3.941 m); minimum, 94 ft³/s (2.66 m³/s) Nov. 2.

Period of record: Maximum discharge, 94,000 ft³/s (2,660 m³/s) Feb. 16, 1950, gage height, 14.52 ft (4.426 m); maximum gage height, 16.17 ft (4.929 m) Feb. 12, 1959 (ice jam); practically no flow at times prior to June 30, 1929, when entire river flow was being diverted by canal; minimum since canal was abandoned, 20 ft³/s (0.57 m³/s) Oct. 23, 24, 1964, gage height, 1.29 ft (0.393 m).

Flood in March 1913 reached a stage of 19.9 ft (6.07 m), from information by local resident, estimated discharge, 180,000 ft³/s (5,100 m³/s), from rating curve extended above 94,000 ft³/s (2,660 m³/s).

REMARKS.--Records good. Low flow slightly regulated by powerplants upstream from station. Small diversion upstream from gage into Portage River basin (see station 04195500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 894: 1930(M). WSP 1084: 1946. WSP 1387: 1900(M), 1922-23, 1933. WRD Ohio 1968: 1967. WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	410	741	8,850	14,700	22,400	8,820	9,530	2,210	2,650	1,220	196	432
2	395	236	6,170	11,100	18,200	9,300	7,970	2,160	2,410	1,140	187	478
3	355	318	4,450	7,760	13,600	10,200	9,040	2,340	1,900	1,120	326	560
4	546	455	3,220	6,300	10,300	11,000	21,300	1,900	1,900	1,020	376	526
5	562	610	3,130	5,100	6,200	25,100	32,900	2,090	1,760	809	314	462
6	410	674	2,670	4,200	4,500	32,700	34,100	1,850	1,670	758	187	617
7	470	395	2,180	3,500	3,500	33,300	31,400	1,650	1,530	742	363	693
8	546	530	2,050	3,000	3,700	30,700	23,600	1,670	1,810	693	462	647
9	455	470	1,910	2,400	3,800	26,300	18,200	2,930	2,020	678	404	574
10	440	380	1,750	2,200	3,500	29,300	14,400	5,580	2,630	603	363	509
11	610	515	1,290	2,000	3,300	29,700	12,100	6,120	2,710	509	363	560
12	690	455	1,170	2,100	3,100	25,200	10,200	8,690	2,410	588	478	574
13	658	395	1,190	2,100	3,000	20,700	9,130	15,100	1,990	574	574	632
14	562	380	1,510	1,900	3,400	16,200	8,130	13,600	1,830	588	493	574
15	410	440	1,660	1,700	3,800	12,700	6,330	12,400	1,700	462	478	775
16	343	578	2,100	1,800	4,000	10,700	6,930	15,900	1,650	376	478	588
17	280	410	2,000	2,080	3,700	16,500	5,090	15,000	1,550	418	880	588
18	280	500	1,710	3,130	3,600	17,000	3,410	16,600	1,500	509	792	509
19	217	626	1,490	7,720	3,470	14,500	2,740	19,900	1,430	363	775	543
20	268	485	1,000	21,900	7,130	9,850	2,740	16,100	1,670	268	897	432
21	227	610	860	58,600	16,200	7,840	2,930	11,800	1,850	280	775	447
22	227	594	920	69,600	28,100	6,480	2,630	8,860	2,060	291	647	418
23	878	485	1,200	65,500	36,700	4,270	2,550	7,400	3,080	363	574	351
24	896	546	1,200	55,700	32,200	4,850	2,340	6,900	3,780	390	478	291
25	330	658	1,290	46,000	23,400	4,920	2,340	6,120	3,410	338	404	326
26	227	1,000	7,040	36,100	16,700	5,830	2,190	4,980	2,850	363	390	268
27	170	2,860	29,000	36,000	11,700	4,050	1,990	3,810	2,240	404	390	205
28	208	5,360	40,000	35,900	8,130	2,630	1,990	3,140	1,830	338	314	196
29	305	9,800	36,800	36,000	-----	3,380	2,020	2,880	1,600	363	280	493
30	343	11,100	27,900	34,400	-----	6,900	2,040	3,440	1,410	326	280	280
31	368	-----	20,800	29,200	-----	8,600	-----	3,140	-----	257	351	-----
TOTAL	13,086	42,606	218,510	609,690	301,330	449,520	292,260	226,260	62,830	17,151	14,269	14,548
MEAN	422	1,420	7,049	19,670	10,760	14,500	9,742	7,299	2,094	553	460	485
MAX	896	11,100	40,000	69,600	36,700	33,300	34,100	19,900	3,780	1,220	897	775
MIN	170	236	860	1,700	3,000	2,630	1,990	1,650	1,410	257	187	196
CFSM	.07	.22	1.11	3.11	1.70	2.29	1.54	1.15	.33	.09	.07	.08
IN.	.08	.25	1.28	3.58	1.77	2.64	1.72	1.33	.37	.10	.08	.09

CAL YR 1973 TOTAL 2,255,686 MEAN 6,180 MAX 40,000 MIN 140 CFSM .98 IN 13.26
WTR YR 1974 TOTAL 2,262,060 MEAN 6,197 MAX 69,600 MIN 170 CFSM .98 IN 13.29

04195500 Portage River at Woodville, Ohio

LOCATION.--Lat 41°26'58", long 83°21'41", in sec. 28, T.6 N., R.13 E., Sandusky County, on left bank at upstream side of bridge on U.S. Highway 20 in Woodville, 600 ft (183 m) downstream from unnamed right bank tributary, and 10.3 mi (16.6 km) upstream from Sugar Creek.

DRAINAGE AREA.--428 mi² (1,109 km²).

PERIOD OF RECORD.--July 1928 to December 1935, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.75 ft (187.376 m) above mean sea level. Prior to Oct. 8, 1933, nonrecording gage, Oct. 9, 1933, to Dec. 31, 1935, water-stage recorder, Oct. 17 to Nov. 29, 1939, nonrecording gage, all at same site and datum.

AVERAGE DISCHARGE (Adjusted for diversion).-- 42 years, 307 ft³/s (8.694 m³/s), 9.74 in/yr (247.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,880 ft³/s (167 m³/s) Jan. 22, gage height, 10.27 ft (3.130 m); minimum, 4.1 ft³/s (0.12 m³/s) July 30.

Period of record: Maximum discharge, 11,500 ft³/s (326 m³/s) Feb. 15, 1950, gage height, 14.51 ft (4.423 m); minimum, 0.3 ft³/s (0.008 m³/s) Aug. 28, 1931.

Flood in March 1913 reached a stage of 17 ft (5 m), from information by local residents, discharge, 17,000 ft³/s (481 m³/s), from rating curve extended above 11,500 ft³/s (326 m³/s).

REMARKS.--Records good. Flow supplemented by water imported from Maumee River basin for municipal supply for city of Bowling Green 16 mi (26 km) upstream. The importation of this water began Sept. 1, 1951. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 894: 1929-30. WSP 1207: 1933. WSP 1387: 1931, 1933. WSP 1912: Drainage area. DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	59	183	326	600	580	268	105	342	38	5.8	45
2	27	59	111	170	416	795	243	99	183	31	7.3	33
3	24	53	85	150	290	960	230	93	121	28	9.1	30
4	42	40	75	130	265	985	3,310	96	95	24	11	30
5	57	35	76	110	171	3,860	4,710	88	96	20	9.1	35
6	51	27	82	100	203	3,090	1,870	79	265	16	15	35
7	41	23	68	92	162	1,800	990	76	178	14	11	32
8	29	19	56	85	170	2,820	725	85	105	11	13	25
9	23	19	49	80	170	3,010	640	134	88	10	28	20
10	19	19	46	78	150	4,540	568	181	71	11	11	16
11	18	19	42	76	130	4,830	492	151	60	10	11	14
12	18	19	40	74	120	1,870	381	552	57	9.1	9.1	14
13	20	18	44	72	120	1,060	326	940	52	8.1	20	16
14	21	18	72	70	213	620	260	430	47	8.1	33	16
15	16	20	118	80	363	472	228	270	45	7.3	51	15
16	16	33	93	108	296	1,040	181	284	50	6.5	44	10
17	16	57	80	381	233	1,300	143	255	71	5.8	81	8.1
18	16	43	65	905	210	680	123	356	57	5.2	101	8.1
19	16	36	52	2,260	419	484	116	745	77	5.8	93	8.1
20	20	30	44	4,010	1,380	374	107	314	233	5.8	49	9.1
21	19	30	54	5,390	1,340	311	98	195	127	6.5	32	8.1
22	19	28	50	5,100	2,480	323	98	151	82	6.5	24	10
23	18	30	46	2,910	3,010	311	110	134	181	6.5	19	16
24	19	30	44	2,190	1,250	255	105	123	171	6.5	16	11
25	20	40	91	1,060	524	183	89	116	98	7.3	16	9.1
26	23	210	2,230	690	388	205	80	93	72	8.1	11	8.1
27	27	218	3,420	1,490	314	238	79	77	56	7.3	27	8.1
28	30	186	2,970	1,570	314	240	81	68	46	6.5	27	11
29	39	419	1,540	2,050	-----	268	93	71	40	6.5	27	14
30	54	356	840	1,770	-----	377	104	444	44	5.2	76	13
31	76	-----	512	1,050	-----	388	-----	750	-----	5.2	62	-----
TOTAL	863	2,193	13,278	34,627	15,701	38,269	16,848	7,555	3,210	346.8	949.4	527.8
MEAN	27.8	73.1	428	1,117	561	1,234	562	244	107	11.2	30.6	17.6
MAX	76	419	3,420	5,390	3,010	4,830	4,710	940	342	38	101	45
MIN	16	18	40	70	120	183	79	68	40	5.2	5.8	8.1
(+)	5.64	4.74	3.89	4.79	4.97	4.74	5.11	5.69	4.95	6.24	5.34	6.14
MEAN #	22.2	68.4	424	1,112	556	1,229	557	238	102	4.96	25.3	11.5
CFSM #	.05	.16	.99	2.60	1.30	2.87	1.30	.56	.24	.01	.06	.03
IN #	.06	.18	1.14	3.00	1.35	3.31	1.45	.65	.27	.01	.07	.03

CAL YR 1973 TOTAL 154,057.0 MEAN 422 MAX 5,460 MIN 6.0 (+) 4.96 MEAN # 417 CFSM # .97 IN # 13.23
WTR YR 1974 TOTAL 134,368.0 MEAN 368 MAX 5,390 MIN 5.2 (+) 5.26 MEAN # 363 CFSM # .85 IN # 11.51

PEAK DISCHARGE (BASE, 3,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	1900	8.34	3,610	03-05	2330	8.65	3,950
01-22	0200	10.27	5,880	03-11	0530	10.16	5,750
02-22	2400	8.37	3,640	04-05	0630	9.69	5,190

(+) Diversion, in cubic feet per second, from Maumee River basin for municipal supply; furnished by city of Bowling Green.

(#) Adjusted for diversion.

STREAMS TRIBUTARY TO LAKE ERIE

04196000 Sandusky River near Bucyrus, Ohio

LOCATION.--Lat 40°48'13", long 83°00'21", in NE 1/4 sec. 10, T.3 S., R.16 E., Crawford County, on right bank at downstream side of bridge on township road, 1 mi (2 km) upstream from unnamed left bank tributary, 1.5 mi (2.4 km) west of Bucyrus, and 12 mi (19 km) downstream from Loss Creek.

DRAINAGE AREA.--88.8 mi² (230 km²).

PERIOD OF RECORD.--August 1925 to November 1935, July 1938 to December 1951, December 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 955.04 ft (291.096 m) above mean sea level. Prior to May 11, 1940, nonrecording gage, and May 12, 1940, to December 31, 1951, water-stage recorder, at same site and datum.

AVERAGE DISCHARGE.--33 years (1925-35, 1938-51, 1964-74), 83.7 ft³/s (2.370 m³/s), 12.80 in/yr (325.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,300 ft³/s (93.5 m³/s) Jan. 19, gage height, 9.02 ft (2.749 m); minimum, 1.2 ft³/s (0.034 m³/s) Aug. 25.

Period of record: Maximum discharge observed, 5,800 ft³/s (164 m³/s) Dec. 14, 1927, gage height, 9.15 ft (2.789 m); minimum, 0.4 ft³/s (0.011 m³/s) Sept. 29, 1941, July 16, 1942.

Flood of Mar. 23, 1913 reached a stage of 14.5 ft (4.42 m), from floodmarks. Flood of Jan. 22, 1959 reached a stage of 11.9 ft (3.63 m), from floodmarks, discharge, 13,500 ft³/s (382 m³/s), on basis of contracted-opening measurement of peak flow at site 2.8 mi (4.5 km) upstream with drainage area of 85.4 mi² (221 km²), adjusted to gage site by 0.8 power of drainage-area ratio.

REMARKS.--Records fair. Low flow slightly affected by operation of reservoirs 5.3 mi (8.5 km) to 6.0 mi (9.7 km) upstream from station, for municipal supply of Bucyrus. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: 1925-32. WSP 874: 1938. WSP 1307: 1926 (H), 1928 (H), 1931, 1932 (H), 1934-35 (H), 1939, 1940 (H), 1946 (H). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	76	106	64	83	342	121	66	38	5.5	4.7	82
2	25	78	71	52	68	164	579	49	23	6.8	3.9	74
3	23	36	58	42	52	121	278	36	18	7.7	14	259
4	19	22	55	34	38	110	924	31	13	10	48	338
5	21	15	103	29	30	230	397	29	12	7.7	22	105
6	25	14	109	24	35	161	220	27	10	4.7	7.2	54
7	14	14	58	21	45	189	158	26	15	4.1	7.0	34
8	10	13	43	20	46	207	116	34	17	4.7	27	24
9	9.8	12	39	20	30	784	108	51	15	6.6	116	15
10	6.0	11	36	19	23	1,340	165	55	15	28	52	10
11	9.5	8.2	29	18	25	331	110	46	13	13	25	21
12	8.8	11	25	19	27	227	85	308	13	6.2	14	279
13	17	11	36	20	43	153	68	272	12	4.9	16	215
14	14	11	153	22	168	103	59	93	12	3.5	109	93
15	19	17	99	34	87	100	90	58	16	5.3	56	50
16	13	11	56	112	61	524	62	42	6.6	5.1	24	30
17	5.7	13	34	486	49	243	45	43	7.7	5.1	91	16
18	6.0	10	31	393	40	131	38	56	6.2	4.9	102	16
19	6.0	7.5	29	2,550	75	105	33	47	6.8	4.9	22	9.5
20	5.7	4.7	47	1,440	214	90	28	32	11	4.7	20	11
21	5.2	12	144	892	139	80	25	25	11	4.3	18	9.5
22	5.7	43	85	455	286	76	32	27	15	4.9	13	12
23	4.9	29	63	748	276	69	49	131	15	5.5	9.8	11
24	5.7	25	45	468	112	67	40	112	9.3	5.1	4.6	5.2
25	6.8	226	192	196	65	58	29	61	6.4	5.1	3.6	3.4
26	9.1	435	822	146	40	62	23	36	12	4.7	4.9	5.2
27	8.2	129	684	367	46	85	19	27	15	3.7	16	8.4
28	10	304	256	223	118	74	17	17	15	3.2	127	13
29	25	792	146	319	-----	75	17	20	11	16	439	68
30	56	214	164	173	-----	280	36	126	9.8	18	795	71
31	57	-----	89	112	-----	220	-----	80	-----	12	165	-----
TOTAL	462.1	2,604.4	3,907	9,518	2,321	6,801	3,971	2,063	399.8	225.9	2,376.7	1,942.2
MEAN	14.9	86.8	126	307	82.9	219	132	66.5	13.3	7.29	76.7	64.7
MAX	57	792	822	2,550	286	1,340	924	308	38	28	795	338
MIN	4.9	4.7	25	18	23	58	17	17	6.2	3.2	3.6	3.4
CFSM	1.7	.98	1.42	3.46	.93	2.47	1.49	.75	.15	.08	.86	.73
IN.	.19	1.09	1.64	3.99	.97	2.85	1.66	.86	.17	.09	1.00	.81

CAL YR 1973 TOTAL 43,408.4 MEAN 119 MAX 2,440 MIN 3.7 CFSM 1.34 IN 18.18
WTR YR 1974 TOTAL 36,592.1 MEAN 100 MAX 2,550 MIN 3.2 CFSM 1.13 IN 15.33

PEAK DISCHARGE (BASE, 1,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE
01-19	1600	9.02	3,300
03-10	0900	7.04	1,650
04-04	1830	6.46	1,410

04196500 Sandusky River near Upper Sandusky, Ohio

LOCATION.--Lat 40°51'02", long 83°15'23", in sec. 21, T.2 S., R.14 E., Wyandot County, on left bank at downstream side of county road bridge, 0.7 mi (1.1 km) downstream from unnamed right bank tributary, 0.8 mi (1.3 km) upstream from Rock Run, and 2 mi (3 km) northeast of Upper Sandusky.

DRAINAGE AREA.--298 mi² (772 km²).

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Gage-height records collected at site 3 mi (5 km) upstream since 1912 (fragmentary) are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 792.25 ft (241.478 m) above mean sea level. Prior to Sept. 14, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years, 240 ft³/s (6.797 m³/s), 10.94 in/yr (277.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,270 ft³/s (206 m³/s) Jan. 20, gage height, 9.96 ft (3.036 m); minimum, 4.1 ft³/s (0.12 m³/s) Aug. 27.

Period of record: Maximum discharge, about 10,000 ft³/s (283 m³/s) Jan. 22, 1959; maximum gage height, 15.00 ft (4.572 m) in gage well, 15.55 ft (4.740 m) from outside floodmark, Jan. 22, 1959 (ice jam); minimum discharge, 0.50 ft³/s (0.014 m³/s) Oct. 2, 1963.

Flood in June 1937 reached a stage of 14.3 ft (4.36 m), from high-water marks in gage well.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 874: 1927-30, 1933. WSP 1387: 1922(M), 1923-29, 1944. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	145	410	289	388	662	399	145	214	28	15	167
2	48	158	265	209	307	648	1,150	130	120	23	11	96
3	42	149	204	180	220	429	1,290	113	85	20	11	96
4	58	94	181	160	190	374	1,870	98	62	16	12	311
5	57	66	189	150	170	421	1,620	94	50	16	33	250
6	55	50	253	140	160	589	739	88	40	18	39	118
7	66	40	199	130	170	520	537	90	35	20	18	66
8	53	39	147	120	150	710	396	109	32	16	12	40
9	34	36	128	110	140	989	347	130	42	14	8.8	32
10	26	34	122	110	130	2,700	436	130	40	12	98	24
11	23	31	107	110	120	2,270	392	191	36	13	62	18
12	21	29	98	100	120	824	295	643	34	53	36	21
13	20	27	105	95	140	576	247	320	30	28	20	289
14	24	29	165	90	200	381	225	177	30	18	18	186
15	34	36	320	100	360	307	247	136	31	15	94	100
16	30	42	201	140	260	720	225	134	32	12	77	64
17	33	51	120	512	222	1,030	172	169	34	9.9	43	38
18	28	40	110	1,000	181	516	147	149	32	8.3	88	25
19	23	39	110	3,910	233	357	134	116	28	7.8	109	18
20	16	35	100	6,540	681	298	122	110	24	7.8	43	18
21	14	33	95	4,650	696	256	111	100	22	7.3	26	12
22	16	32	90	2,210	834	236	126	90	27	6.9	17	12
23	16	53	86	1,670	1,040	220	138	107	35	6.9	14	11
24	16	79	82	1,780	545	206	167	196	38	6.9	11	12
25	16	169	190	891	333	184	130	156	33	6.5	9.3	12
26	15	778	1,100	571	250	181	109	118	32	6.5	6.9	9.3
27	14	533	1,600	1,020	270	217	96	90	36	6.5	5.7	7.3
28	18	414	1,130	1,140	270	222	87	79	46	6.1	39	7.8
29	51	1,260	696	956	-----	267	98	72	39	5.7	233	20
30	88	940	634	844	-----	528	122	68	33	5.7	710	66
31	132	-----	452	533	-----	648	-----	279	-----	7.3	508	-----
TOTAL	1,132	5,461	9,689	30,460	8,780	18,486	12,174	4,627	1,372	428.1	2,427.7	2,146.4
MEAN	36.5	182	313	983	314	596	406	149	45.7	13.8	78.3	71.5
MAX	132	1,260	1,600	6,540	1,040	2,700	1,870	643	214	53	710	311
MIN	14	27	82	90	120	181	87	68	22	5.7	5.7	7.3
CFSM	.12	.61	1.05	3.30	1.05	2.00	1.36	.50	.15	.05	.26	.24
IN.	.14	.68	1.21	3.80	1.10	2.31	1.52	.58	.17	.05	.30	.27

CAL YR 1973 TOTAL 126,290.0 MEAN 346 MAX 4,440 MIN 11 CFSM 1.16 IN 15.77
WTR YR 1974 TOTAL 97,183.2 MEAN 266 MAX 6,540 MIN 5.7 CFSM .89 IN 12.13

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE
01-20	1830	9.96	7,270
03-11	0230	6.89	3,150

STREAMS TRIBUTARY TO LAKE ERIE

04196800 Tymochtee Creek at Crawford, Ohio

LOCATION.--Lat 40°55'22", long 83°20'56", in SE 1/4 sec.27, T.1 S., R.13 E., Wyandot County, on right bank at downstream side of bridge on State Highway 199 (formerly U.S. Highway 23), 0.4 mi (0.6 km) northwest of Crawford, 1.5 mi (2.4 km) downstream from Lick Run, 2.7 mi (4.3 km) upstream from Little Tymochtee Creek, and 3 mi (5 km) southeast of Carey.

DRAINAGE AREA.--229 mi² (593 km²).

PERIOD OF RECORD.--Water years 1961-64 (annual maximum), June 1964 to current year. Occasional low-flow measurements, water years 1961-63.

GAGE.--Water-stage recorder. Datum of gage is 785.86 ft (239.530 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 181 ft³/s (5.126 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,390 ft³/s (124 m³/s) Jan. 20, gage height, 8.66 ft (2.640 m); minimum, 0.02 ft³/s (0.001 m³/s) Aug. 27.

Period of record: Maximum discharge, 6,040 ft³/s (171 m³/s) Apr. 22, 1964, gage height, 9.82 ft (2.993 m); maximum gage height, 11.21 ft (3.417 m) Mar. 6, 1963 (backwater from ice); no flow Aug. 10, Sept. 13-18, Oct. 23 to Nov. 4, 1964, Aug. 23-26, 1965.

Flood in January 1959 reached a stage of 12.9 ft (3.93 m), from information by local resident.

REMARKS.--Records good. Beginning Mar. 9, 1972 water was diverted at a point 29.4 mi (47.3 km) upstream from station into Killdeer Reservoir. Storage is available for low-flow augmentation. During the year, withdrawals totaled 532 mil gal (2.014 hm³) and releases totaled 488 mil gal (1.847 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ohio 1969: 1964 (P), 1966 (M), 1967 (P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	34	478	334	316	446	606	25	13	5.8	28	13
2	40	48	215	200	200	526	370	35	11	4.8	27	13
3	41	89	134	160	148	358	760	39	9.8	4.0	28	11
4	45	64	106	130	114	260	1,530	30	9.1	4.0	28	5.8
5	53	39	112	110	97	323	1,750	23	7.0	3.6	30	3.6
6	45	25	105	90	101	434	1,570	20	6.4	2.9	29	3.2
7	41	18	96	80	87	442	730	17	5.8	2.6	25	6.4
8	42	14	70	70	62	378	398	18	5.8	2.0	13	4.4
9	42	11	51	60	52	570	267	21	5.8	2.6	5.8	3.2
10	81	9.8	42	52	44	1,080	338	22	5.3	2.6	3.6	2.0
11	75	9.1	37	48	38	1,080	430	31	4.8	2.0	2.3	2.0
12	53	7.7	34	44	32	780	267	43	5.3	1.5	2.0	1.7
13	39	7.0	35	40	40	486	190	70	5.3	1.3	1.7	1.3
14	19	7.0	52	38	134	320	146	142	4.8	1.1	1.7	.70
15	9.8	7.7	78	36	446	209	160	92	5.3	1.1	1.1	.70
16	7.0	5.8	86	90	313	645	153	60	5.8	.70	1.1	1.3
17	5.8	5.3	70	446	190	700	106	112	4.8	.40	2.6	3.2
18	9.1	5.8	56	795	178	482	81	144	4.4	.25	2.3	2.3
19	9.8	7.7	45	2,580	195	254	66	101	5.8	.25	2.0	1.7
20	8.4	8.4	37	4,120	610	185	56	58	5.8	.40	2.6	1.5
21	7.0	11	40	3,590	735	153	48	39	4.8	.25	2.0	1.5
22	5.8	11	38	2,160	876	132	48	30	4.8	.15	1.3	1.3
23	4.8	9.1	36	1,760	906	116	49	33	5.8	.15	.90	.90
24	4.8	11	34	1,380	760	112	43	28	7.0	.15	.55	.40
25	3.2	56	86	1,170	358	96	32	24	6.4	.15	.25	.15
26	2.9	148	954	630	198	76	23	21	6.4	.15	.08	.08
27	3.2	378	1,530	655	158	87	18	18	5.8	.08	.03	.08
28	4.0	285	2,070	888	224	128	16	15	7.0	11	3.6	.15
29	8.4	414	1,730	996	-----	126	21	13	7.0	26	9.1	.25
30	11	655	954	800	-----	486	23	12	7.7	26	7.7	.08
31	11	-----	550	542	-----	894	-----	11	-----	26	4.0	-----
TOTAL	772.0	2,401.4	9,961	24,094	7,612	12,364	10,295	1,347	193.8	133.98	266.31	86.89
MEAN	24.9	80.0	321	777	272	399	343	43.5	6.46	4.32	8.59	2.90
MAX	81	655	2,070	4,120	906	1,080	1,750	144	13	26	30	13
MIN	2.9	5.3	34	36	32	76	16	11	4.4	.08	.03	.08

CAL YR 1973 TOTAL 90,198.60 MEAN 247 MAX 2,080 MIN 2.9
WTR YR 1974 TOTAL 69,527.38 MEAN 190 MAX 4,120 MIN .03

PEAK DISCHARGE (BASE, 1,800 FT³/S)

DATE	TIME	G. H.	DISCHARGE
12-28	1530	6.57	2,110
01-20	1815	8.66	4,390
04-05	2300	6.27	1,850

04197000 Sandusky River near Mexico, Ohio

LOCATION.--Lat 41°02'39", long 83°11'42", in sec. 13, T.1 N., R.14 E., Seneca County, on right bank at downstream side of county road bridge, 4.1 mi (6.6 km) upstream from Honey Creek, 4.2 mi (6.8 km) north of Mexico, 4.9 mi (7.9 km) south of Tiffin, and 8.3 mi (13.4 km) downstream from Mile Run.

DRAINAGE AREA.--774 mi² (2,005 km²).

PERIOD OF RECORD.--November 1898 to November 1900 (gage heights and discharge measurements only), March 1923 to December 1935, July 1938 to current year. Discharge records for November 1898 to November 1900, published in 22nd Annual Report, Part 4, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 733.1 ft (223.45 m) above mean sea level, adjustment of 1912. Prior to Aug. 15, 1929, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 572 ft³/s (16.20 m³/s), 10.04 in/yr (255.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,700 ft³/s (360 m³/s) Jan. 21, gage height, 18.10 ft (5.517 m); minimum, 25 ft³/s (0.71 m³/s) July 30.

Period of record: Maximum discharge, 18,900 ft³/s (535 m³/s) Jan. 23, 1959, gage height, 22.43 ft (6.837 m), from floodmark; minimum, 1.8 ft³/s (0.051 m³/s) Oct. 31, 1942, during repairs to small dam upstream from station.

Flood in June 1937 reached a stage of 22.5 ft (6.86 m), from information by local residents, discharge, 19,000 ft³/s (538 m³/s).

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 714: 1929-30. WSP 874: 1927(M). WSP 1387: 1925, 1928-29, 1930(M), 1931. WSP 1912: Drainage area. See also Period of Record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	213	1,530	1,100	1,240	550	1,420	201	422	87	48	413
2	121	285	837	717	870	820	1,390	225	290	78	53	208
3	121	255	522	600	660	1,100	2,320	246	190	71	68	160
4	128	253	416	520	538	820	4,820	234	151	63	69	151
5	215	182	434	480	396	750	5,730	199	128	56	69	385
6	208	132	446	450	343	1,700	4,760	182	112	52	75	256
7	140	105	452	410	413	1,670	3,000	170	99	51	97	147
8	124	86	354	370	467	2,330	1,540	162	92	51	83	111
9	112	78	275	330	425	1,700	1,080	166	89	51	71	89
10	96	74	238	310	380	6,300	1,150	186	87	48	56	74
11	113	69	217	290	350	4,980	1,180	199	87	46	89	62
12	110	64	191	270	320	3,970	974	237	83	46	100	56
13	93	60	195	250	301	1,970	730	532	78	52	80	56
14	85	57	317	240	382	1,270	589	830	78	65	65	285
15	69	59	425	230	642	886	554	516	78	56	52	186
16	56	63	482	250	834	1,160	567	357	81	47	95	117
17	53	71	330	800	627	2,500	482	314	84	41	119	87
18	50	77	293	2,440	512	1,400	382	699	84	38	83	69
19	52	87	275	6,530	473	962	329	609	81	38	104	56
20	53	69	250	8,810	650	780	293	410	77	36	128	46
21	49	69	230	12,100	1,100	650	266	296	75	32	81	43
22	46	69	220	11,700	1,800	620	254	234	71	30	60	40
23	43	67	210	7,690	2,500	580	285	217	74	30	51	35
24	42	77	200	5,750	1,500	540	301	217	81	30	45	34
25	43	195	190	4,260	600	500	296	301	81	30	42	33
26	43	849	3,000	2,460	485	460	242	244	81	30	40	32
27	41	1,270	4,650	2,370	396	520	212	197	87	29	40	32
28	42	1,000	4,900	3,000	428	600	192	164	95	26	58	31
29	52	1,540	4,220	3,400	-----	720	178	155	126	26	104	31
30	83	2,150	3,020	2,730	-----	1,100	182	166	109	38	319	29
31	145	-----	1,860	1,910	-----	1,700	-----	263	-----	48	790	-----
TOTAL	2,729	9,625	31,179	82,767	19,632	45,608	35,698	9,128	3,351	1,422	3,234	3,354
MEAN	88.0	321	1,006	2,670	701	1,471	1,190	294	112	45.9	104	112
MAX	215	2,150	4,900	12,100	2,500	6,300	5,730	830	422	87	790	413
MIN	41	57	190	230	301	460	178	155	71	26	40	29
CFSM	.11	.41	1.30	3.45	.91	1.90	1.54	.38	.14	.06	.13	.14
IN.	.13	.46	1.50	3.98	.94	2.19	1.72	.44	.16	.07	.16	.16

CAL YR 1973 TOTAL 313,369 MEAN 859 MAX 6,750 MIN 40 CFSM 1.11 IN 15.06
WTR YR 1974 TOTAL 247,727 MEAN 679 MAX 12,100 MIN 26 CFSM .88 IN 11.91

PEAK DISCHARGE (BASE, 4,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	2100	11.50	4,970	03-10	1430	unknown about	6,500
01-21	2230	18.10	12,700	04-05	0030	12.74	6,040

04198000 Sandusky River near Fremont, Ohio

LOCATION.--Lat 41°18'28", long 83°09'32", in sec. 17, T.4 N., R.15 E., Sandusky County, on left bank at downstream side of county road bridge, 2.3 mi (3.7 km) upstream from Ballville diversion dam, 2.5 mi (4.0 km) downstream from Wolf Creek, and 3.5 mi (5.6 km) southwest of Fremont.

DRAINAGE AREA.--1,251 mi² (3,240 km²).

PERIOD OF RECORD.--November 1898 to March 1901 (gage heights and discharge measurements only, published as "at Fremont"), October 1923 to December 1935, July 1938 to current year. Monthly discharge only for October 1923, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 626.3 ft (190.90 m) above mean sea level, adjustment of 1912. Nov. 18, 1898, to Mar. 10, 1901, nonrecording gage at site 4 mi (6 km) downstream at different datum. Nov. 8, 1923, to Sept. 5, 1930, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--48 years (1923-35, 1938-74), 946 ft³/s (26.79 m³/s), 10.27 in/yr (260.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,600 ft³/s (527 m³/s) Jan. 22, gage height, 8.67 ft (2.643 m); minimum, 24 ft³/s (0.68 m³/s) July 29-31.

Period of record: Maximum discharge, about 28,000 ft³/s (793 m³/s) Feb. 10, 1959; maximum gage height, 15.20 ft (4.633 m) Feb. 10, 1959, from floodmark (ice jam); minimum discharge, 4.4 ft³/s (0.12 m³/s) Feb. 29, 1964 (result of freezeup); minimum gage height, 0.78 ft (0.238 m) Oct. 20, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: 1931-32. WSP 874: 1938. WSP 1144: 1924-30. WSP 1387: 1925, 1928-29, 1931-35. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	212	2,380	1,470	2,220	2,410	2,710	329	1,080	203	40	738
2	118	328	1,390	1,100	1,540	3,340	1,940	349	849	151	48	362
3	131	380	819	900	1,160	3,140	2,760	389	508	116	51	255
4	147	344	603	800	928	2,240	8,560	403	369	100	68	192
5	233	304	566	720	762	3,180	11,200	362	286	96	72	226
6	307	219	617	640	611	2,960	7,350	336	237	76	68	403
7	304	160	598	580	1,040	2,820	4,950	317	203	68	76	255
8	227	128	534	540	700	4,410	2,760	323	181	65	100	165
9	174	110	412	500	640	6,470	1,880	389	181	65	88	124
10	144	100	338	480	680	11,400	1,980	449	155	61	72	100
11	123	93	298	460	620	9,910	1,920	433	142	58	61	88
12	133	88	263	440	560	7,080	1,680	631	142	51	92	76
13	125	84	264	420	490	3,940	1,260	914	128	51	104	65
14	115	80	392	410	682	2,410	996	1,330	120	51	96	92
15	100	80	607	400	888	1,700	836	1,040	146	65	84	286
16	85	88	744	390	1,130	3,770	811	715	237	58	61	186
17	74	84	620	2,000	860	4,790	738	554	203	51	160	124
18	70	88	520	5,000	700	3,460	601	941	160	45	160	96
19	66	92	440	11,000	786	2,140	508	1,310	192	38	128	76
20	67	92	400	16,000	2,820	1,470	449	914	310	38	128	68
21	68	92	370	17,400	3,850	1,180	410	621	197	36	133	61
22	69	95	350	17,400	4,950	1,020	389	465	181	34	92	54
23	69	89	330	13,100	5,810	914	457	396	208	34	68	48
24	66	89	320	9,380	3,920	823	465	369	203	34	54	43
25	62	135	320	6,580	2,410	726	457	375	160	34	48	40
26	61	704	4,150	4,190	1,380	661	403	418	137	34	43	38
27	58	1,530	7,510	3,850	1,040	661	349	342	133	32	43	38
28	60	1,480	7,490	4,410	1,010	726	323	298	142	28	76	45
29	70	1,760	5,750	5,210	-----	823	310	292	231	28	137	43
30	83	2,810	4,140	4,910	-----	1,120	310	1,280	249	24	175	43
31	109	-----	2,590	3,440	-----	2,580	-----	1,430	-----	26	592	-----
TOTAL	3,622	11,938	46,125	134,120	44,187	94,274	59,762	18,714	7,670	1,851	3,218	4,430
MEAN	117	398	1,488	4,326	1,578	3,041	1,992	604	256	59.7	104	148
MAX	307	2,810	7,510	17,400	5,810	11,400	11,200	1,430	1,080	203	592	738
MIN	58	80	263	390	490	661	310	292	120	24	40	38
CFSM	.09	.32	1.19	3.46	1.26	2.43	1.59	.48	.20	.05	.08	.12
IN.	.11	.35	1.37	3.99	1.31	2.80	1.78	.56	.23	.06	.10	.13

CAL YR 1973 TOTAL 496,889 MEAN 1,361 MAX 11,800 MIN 54 CFSM 1.09 IN 14.78
WTR YR 1974 TOTAL 429,911 MEAN 1,178 MAX 17,400 MIN 24 CFSM .94 IN 12.78

PEAK DISCHARGE (BASE, 7,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	2400	5.29	8,140	03-10	1630	6.90	12,800
01-22	0030	8.67	18,600	04-05	0230	7.02	13,200

04199000 Huron River at Milan, Ohio

LOCATION.--Lat 41°18'06", long 82°36'25", in SW 1/4 sec.4, T.5 N., R.22 W., Erie County, on right bank 500 ft (152 m) downstream from bridge on U.S. Highway 250, 0.2 mi (0.3 km) northwest of Milan and 2.0 mi (3.2 km) downstream from confluence of East and West Branches.

DRAINAGE AREA.--371 mi² (961 km²).

PERIOD OF RECORD.--March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 573.26 ft (174.730 m) above mean sea level. Prior to July 29, 1953, nonrecording gage at site of former highway bridge 45 ft (14 m) upstream at same datum.

AVERAGE DISCHARGE.--24 years, 293 ft³/s (8.298 m³/s), 10.73 in/yr (272.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,640 ft³/s (245 m³/s) Jan. 19, gage height, 18.73 ft (5.709 m); minimum, 16 ft³/s (0.45 m³/s) Sept. 27.

Period of record: Maximum discharge, 49,600 ft³/s (1,400 m³/s) July 5, 1969, gage height, 31.1 ft (9.48 m) (from floodmark), from rating curve extended above 18,000 ft³/s (510 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 2.2 ft³/s (0.062 m³/s) Sept. 10, 15, 19, 20, 21, 1955.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	105	288	300	425	1,340	551	172	395	365	26	56
2	41	142	205	220	340	1,180	1,110	177	221	155	24	36
3	56	114	164	190	260	938	926	161	154	101	29	78
4	83	82	157	170	200	652	5,440	152	116	79	31	80
5	81	73	166	150	160	1,200	2,340	133	94	78	28	101
6	130	61	207	140	140	827	1,110	128	98	62	32	50
7	82	53	161	130	130	652	751	130	91	54	25	37
8	70	42	122	120	120	1,150	589	130	91	49	22	32
9	58	38	108	120	120	3,520	573	161	80	45	22	29
10	35	38	104	110	120	5,260	838	188	75	48	22	27
11	31	33	99	110	130	2,340	540	159	69	41	22	25
12	26	32	98	110	140	831	423	338	65	38	22	24
13	23	31	116	110	200	554	365	649	62	40	25	23
14	23	30	243	120	383	420	305	333	63	38	29	30
15	24	31	288	140	472	380	335	231	88	38	34	30
16	27	34	170	500	355	1,900	273	182	159	36	31	25
17	34	38	150	2,190	265	1,060	245	168	125	34	92	22
18	32	39	130	2,850	243	545	229	172	92	31	188	22
19	28	34	120	7,230	320	439	196	320	345	28	84	22
20	20	33	160	5,170	1,280	390	182	197	567	29	51	22
21	19	38	295	3,270	953	348	163	152	223	29	35	22
22	19	41	420	1,630	1,520	315	207	130	192	27	28	22
23	26	72	293	1,740	1,160	280	223	120	395	32	24	22
24	26	62	211	1,410	540	263	213	116	217	32	24	22
25	26	116	735	655	373	233	182	105	135	29	23	22
26	25	615	3,400	494	270	231	166	96	136	31	22	20
27	20	378	2,700	1,110	300	293	154	88	186	29	23	18
28	24	245	1,300	964	423	295	143	84	157	27	47	19
29	42	976	695	1,640	-----	285	142	148	155	27	95	20
30	53	576	573	999	-----	919	154	1,040	223	27	117	20
31	93	-----	445	584	-----	1,100	-----	1,510	-----	27	94	-----
TOTAL	1,318	4,202	14,323	34,676	11,342	30,140	19,068	7,870	5,069	1,706	1,371	978
MEAN	42.5	140	462	1,119	405	972	636	254	169	55.0	44.2	32.6
MAX	130	976	3,400	7,230	1,520	5,260	5,440	1,510	567	365	188	101
MIN	19	30	98	110	120	231	142	84	62	27	22	18
CFSM	.11	.38	1.25	3.02	1.09	2.62	1.71	.68	.46	.15	.12	.09
IN.	.13	.42	1.44	3.48	1.14	3.02	1.91	.79	.51	.17	.14	.10

CAL YR 1973 TOTAL 136,144 MEAN 373 MAX 5,090 MIN 19 CFSM 1.01 IN 13.65
WTR YR 1974 TOTAL 132,063 MEAN 362 MAX 7,230 MIN 18 CFSM .98 IN 13.24

PEAK DISCHARGE (BASE, 4,700 FT³/S)

DATE	TIME	G. H.	DISCHARGE
01-19	1900	18.73	8,640
03-10	1500	16.53	6,030
04-04	1200	17.87	7,490

STREAMS TRIBUTARY TO LAKE ERIE

04199500 Vermilion River near Vermilion, Ohio

LOCATION.--Lat 41°22'55", long 82°19'01", in T.6 N., R.19 W., Lorain County, on right bank 40 ft (12 m) downstream from bridge on North Ridge Road, 3.5 mi (5.6 km) southeast of Vermilion and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--262 mi² (679 km²).

PERIOD OF RECORD.--March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 595.14 ft (181.399 m) above mean sea level. Prior to Aug. 3, 1953, nonrecording gage at site 40 ft (12 m) upstream at same datum.

AVERAGE DISCHARGE.--24 years, 237 ft³/s (6.712 m³/s), 12.29 in/yr (312.2 mm/yr).

EXTREMES.--Current record: Maximum discharge, 7,350 ft³/s (208 m³/s) Jan. 19, gage height, 7.50 ft (2.286 m); minimum, 3.4 ft³/s (0.096 m³/s) July 28, 29, Aug. 2.

Period of record: Maximum discharge, 40,800 ft³/s (1,160 m³/s) July 6, 1969, gage height, 17.14 ft (5.224 m), from rating curve extended above 9,800 ft³/s (278 m³/s) on basis of contracted-opening measurement of peak flow; no flow at times in many years.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1912: Drainage area. WRD Ohio 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	114	397	243	330	1,190	508	92	360	409	4.9	92
2	23	181	231	175	250	1,270	606	127	183	131	4.6	56
3	27	166	171	160	206	970	980	127	127	75	5.9	67
4	44	95	138	140	171	678	3,440	101	92	46	7.6	58
5	52	70	134	130	138	1,020	2,320	86	71	65	8.7	143
6	83	54	211	120	120	827	845	83	58	46	9.5	79
7	130	43	187	110	110	494	566	81	46	30	13	49
8	68	34	131	100	110	764	409	86	40	23	83	35
9	40	30	103	95	100	2,340	365	116	35	20	61	28
10	29	26	90	95	100	4,060	543	192	31	26	101	23
11	23	23	85	90	100	2,920	456	186	26	20	86	20
12	18	21	86	90	110	836	306	426	25	15	258	19
13	16	20	89	95	150	480	234	1,240	23	13	189	17
14	14	18	197	100	220	330	216	474	23	12	83	17
15	12	19	536	120	450	270	238	254	32	12	47	34
16	11	21	275	350	350	1,130	288	171	58	11	30	24
17	9.9	20	195	1,400	250	1,200	180	133	42	9.5	150	20
18	16	20	154	3,000	209	501	143	116	38	9.0	100	22
19	14	21	146	6,190	250	350	120	168	140	8.7	60	15
20	13	23	215	5,780	920	297	105	150	209	8.0	40	14
21	11	33	698	2,040	782	250	94	103	110	7.3	30	13
22	10	54	1,020	1,380	950	216	95	85	65	6.9	26	13
23	9.9	101	675	1,260	1,130	192	125	73	109	6.9	22	12
24	9.7	93	448	1,580	508	177	138	68	120	6.9	17	11
25	8.7	191	631	719	306	158	129	71	83	6.9	23	11
26	8.4	769	2,410	450	206	155	107	65	97	6.2	20	9.9
27	7.9	589	2,250	920	216	199	92	55	101	5.2	20	9.5
28	10	425	1,290	940	376	242	81	46	81	4.9	31	12
29	18	1,220	617	1,300	-----	209	73	254	125	5.9	28	70
30	26	1,010	466	881	-----	325	78	302	209	6.6	73	140
31	48	-----	355	480	-----	881	-----	1,220	-----	5.2	189	-----
TOTAL	824.5	5,504	14,631	30,533	9,118	24,931	13,880	6,751	2,759	1,058.1	1,821.2	1,133.4
MEAN	26.6	183	472	985	326	804	463	218	92.0	34.1	58.7	37.8
MAX	130	1,220	2,410	6,190	1,130	4,060	3,440	1,240	360	409	258	143
MIN	7.9	18	85	90	100	155	73	46	23	4.9	4.6	9.5
CFSM	1.10	.70	1.80	3.76	1.24	3.07	1.77	.83	.35	.13	.22	.14
IN.	.12	.78	2.08	4.34	1.29	3.54	1.97	.96	.39	.15	.26	.16

CAL YR 1973 TOTAL 110,119.3 MEAN 302 MAX 3,180 MIN 5.1 CFSM 1.15 IN 15.64
WTR YR 1974 TOTAL 112,944.2 MEAN 309 MAX 6,190 MIN 4.6 CFSM 1.18 IN 16.04

PEAK DISCHARGE (BASE, 3,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE
01-19	0800	7.50	7,350
03-10	2000	6.31	4,380
04-04	1400	6.27	4,280

04200500 Black River at Elyria, Ohio

LOCATION.--Lat 41°22'49", long 82°06'17", in T.6 N., R.17 W., Lorain County, on left bank in Cascade Park at Elyria, 0.8 mi (1.3 km) downstream from confluence of East and West Branches.

DRAINAGE AREA.--396 mi² (1,026 km²).

PERIOD OF RECORD.--October 1944 to current year. Records for May 1903 to July 1906 (published as "near Elyria") published in WSP 97, 129, and 205, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 620.83 ft (189.229 m) above mean sea level.

AVERAGE DISCHARGE.--30 years, 315 ft³/s (8.921 m³/s), 10.80 in/yr (274.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,410 ft³/s (210 m³/s) Jan. 20, gage height, 12.91 ft (3.935 m); minimum, 4.7 ft³/s (0.13 m³/s) July 29.

Period of record: Maximum discharge, 51,700 ft³/s (1,460 m³/s) July 6, 1969, gage height, 26.4 ft (8.05 m), from floodmark, from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-area measurement of peak flow; no flow for part of Oct. 10, 1956 (result of temporary storage at dam upstream).

REMARKS.--Records good. Some regulation at low flow for industrial use. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	140	540	354	435	1,420	924	112	265	1,840	9.8	43
2	36	140	298	283	320	1,870	996	169	162	552	7.9	35
3	31	135	202	230	230	1,440	1,570	193	105	218	14	72
4	39	96	160	190	180	1,170	3,400	134	75	112	23	96
5	57	63	193	170	146	1,410	2,980	110	58	76	12	74
6	40	46	250	154	132	988	1,070	105	47	55	9.3	48
7	29	35	255	130	120	678	720	98	40	41	7.9	42
8	34	29	182	120	120	758	549	108	31	32	12	32
9	29	29	138	108	110	2,780	510	160	28	27	12	26
10	24	23	119	98	110	5,020	944	268	28	25	8.4	22
11	22	19	105	100	110	3,990	832	278	24	20	6.0	18
12	18	20	92	100	117	1,200	540	1,410	22	16	7.9	18
13	19	19	108	100	152	608	378	2,510	20	12	204	17
14	14	19	453	107	438	414	298	1,040	21	14	1,210	13
15	14	29	808	121	604	330	258	441	57	22	295	10
16	13	25	498	465	444	1,510	313	250	47	12	100	12
17	12	25	255	1,840	300	1,770	255	173	55	10	720	14
18	17	19	188	1,950	230	812	182	138	46	10	608	25
19	22	19	160	5,640	320	510	148	115	134	9.8	184	20
20	21	20	308	6,910	892	429	119	100	245	8.4	98	22
21	14	41	1,020	2,890	984	351	101	82	193	6.9	56	21
22	13	56	1,040	1,660	1,200	298	125	74	96	7.9	38	32
23	12	49	625	1,450	1,290	263	160	64	148	9.3	33	22
24	11	60	402	1,790	779	248	165	64	270	9.8	34	17
25	11	277	762	988	432	225	154	63	128	9.8	29	16
26	12	591	2,610	594	270	218	130	61	123	8.4	17	16
27	8.8	628	2,870	812	268	333	105	54	107	6.9	24	15
28	28	520	2,020	1,180	504	471	87	51	113	6.0	33	173
29	33	1,280	928	1,410	-----	387	79	543	537	20	34	215
30	49	1,230	681	1,120	-----	594	96	940	832	36	38	130
31	88	-----	513	660	-----	1,060	-----	408	-----	17	34	-----
TOTAL	800.8	5,682	18,783	33,724	11,237	33,555	18,188	10,316	4,057	3,250.2	3,919.2	1,316
MEAN	25.8	189	606	1,088	401	1,082	606	333	135	105	126	43.9
MAX	88	1,280	2,870	6,910	1,290	5,020	3,400	2,510	832	1,840	1,210	215
MIN	8.8	19	92	98	110	218	79	51	20	6.0	6.0	10
CFSM	.07	.48	1.53	2.75	1.01	2.73	1.53	.84	.34	.27	.32	.11
IN.	.08	.53	1.76	3.17	1.06	3.15	1.71	.97	.38	.31	.37	.12

CAL YR 1973 TOTAL 142,361.2 MEAN 390 MAX 4,680 MIN 8.0 CFSM .98 IN 13.37
WTR YR 1974 TOTAL 144,828.2 MEAN 397 MAX 6,910 MIN 6.0 CFSM 1.00 IN 13.61

PEAK DISCHARGE (EASE, 3,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE
01-20	1100	12.91	7,410
03-10	1800	10.83	5,360
04-04	1600	9.99	4,600

STREAMS TRIBUTARY TO LAKE ERIE

04201500 Rocky River near Berea, Ohio

LOCATION.--Lat 41°24'24", long 81°53'14", in T.6 N., R.15 W., Cuyahoga County, on right bank at downstream side of Cedar Point Road Bridge in Rocky River Reservation just downstream from confluence of East and West Branches, and 3.0 mi (4.8 km) northwest of Berea.

DRAINAGE AREA.--267 mi² (692 km²).

PERIOD OF RECORD.--October 1923 to September 1935, September 1943 to current year. Monthly discharge only for October 1923, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 649.90 ft (198.089 m) above mean sea level (Cuyahoga County bench mark). Prior to Sept. 30, 1935, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 257 ft³/s (7.278 m³/s), 13.08 in/yr (332.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,220 ft³/s (204 m³/s) Jan. 19, gage height, 6.58 ft (2.006 m); minimum, 12 ft³/s (0.34 m³/s) Oct. 20, 22, 24, 25.

Period of record: Maximum discharge, 21,400 ft³/s (606 m³/s) Jan. 22, 1959, gage height, 14.10 ft (4.298 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of contracted-opening measurement of peak flow; maximum gage height, 18.6 ft (5.67 m) June 29, 1924 (backwater caused by tornado); minimum discharge, 0.2 ft³/s (0.006 m³/s) Sept. 2, 1932, Aug. 18, 19, 27, 28, 30, 31, 1933.
Flood in March 1913 reached a stage of 20.9 ft (6.37 m).

REMARKS.--Records good. Some regulation at low flow by small reservoirs on East Branch. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1437: 1924, 1925(M), 1926, 1927(M), 1928-29, 1930-35(M), 1945. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	816	330	250	280	1,390	506	316	266	1,640	21	58
2	122	432	207	212	229	1,470	1,510	227	189	508	18	41
3	161	199	161	180	195	1,050	929	164	129	220	36	134
4	81	128	147	150	161	975	2,790	151	101	138	50	119
5	99	89	252	130	128	1,130	1,100	114	80	122	41	76
6	131	74	270	120	110	656	749	154	65	91	36	47
7	65	63	164	110	100	595	613	257	57	69	27	33
8	43	48	122	100	95	1,030	492	236	49	50	36	27
9	30	50	108	90	95	2,020	537	447	54	41	69	24
10	35	54	97	85	95	3,450	814	396	39	84	43	41
11	31	56	85	85	100	1,080	595	278	37	89	45	36
12	28	58	80	85	110	575	394	2,790	51	58	43	33
13	30	72	119	90	150	382	295	1,800	40	43	67	38
14	45	72	712	100	350	279	239	568	40	38	450	36
15	58	81	444	110	396	273	314	313	97	72	154	31
16	41	94	234	542	247	1,690	266	216	302	52	67	24
17	33	105	164	1,190	207	927	199	162	225	38	290	20
18	22	84	125	959	161	483	165	149	141	31	238	89
19	21	74	116	6,200	299	420	148	127	193	28	91	56
20	17	67	697	2,360	759	397	127	102	379	25	48	81
21	18	134	1,660	1,400	502	307	100	85	189	21	38	97
22	16	256	607	1,000	1,050	295	162	81	98	20	30	125
23	16	164	385	1,160	883	293	314	93	131	28	27	79
24	16	147	266	1,070	420	292	236	122	184	27	33	47
25	15	767	659	536	271	264	179	112	97	27	25	35
26	17	1,140	1,690	385	224	288	140	72	288	24	21	28
27	21	408	1,840	884	200	542	120	55	608	20	47	25
28	89	1,050	792	674	482	392	90	46	224	18	89	116
29	164	1,770	502	1,050	-----	320	81	1,250	235	52	141	67
30	299	651	475	614	-----	777	163	1,410	447	41	216	52
31	767	-----	325	396	-----	898	-----	383	-----	27	89	-----
TOTAL	2,607	9,203	13,835	22,317	8,299	24,940	14,367	12,676	5,035	3,742	2,626	1,715
MEAN	84.1	307	446	720	296	805	479	409	168	121	84.7	57.2
MAX	767	1,770	1,840	6,200	1,050	3,450	2,790	2,790	608	1,640	450	134
MIN	15	48	80	85	95	264	81	46	37	18	18	20
CFSM	.32	1.15	1.67	2.70	1.11	3.02	1.79	1.53	.63	.45	.32	.21
IN.	.36	1.28	1.93	3.11	1.16	3.47	2.00	1.77	.70	.52	.37	.24

CAL YR 1973 TOTAL 118,981 MEAN 326 MAX 3,980 MIN 11 CFSM 1.22 IN 16.58
WTR YR 1974 TOTAL 121,362 MEAN 332 MAX 6,200 MIN 15 CFSM 1.24 IN 16.91

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE
01-19	1600	6.58	7,220
03-10	0700	5.01	4,400
05-12	1700	4.78	4,010

04202000 Cuyahoga River at Hiram Rapids, Ohio

LOCATION.--Lat 41°20'26", long 81°10'01", in T.5 N., R.7 W., Portage County, on left bank at downstream side of bridge on Winchell Road at Hiram Rapids, 0.6 mi (1.0 km) downstream from Black Brook.

DRAINAGE AREA.--151 mi² (391 km²).

PERIOD OF RECORD.--August 1927 to December 1935 (published as "near Hiram"), October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,087.46 ft (331.458 m) above mean sea level, unadjusted. Prior to Aug. 26, 1927, nonrecording gage and Aug. 26, 1927, to Dec. 31, 1935, water-stage recorder, at site 2.8 mi (4.5 km) downstream at different datum. Oct. 20, 1944, to Oct. 22, 1946, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--38 years, 198 ft³/s (5.607 m³/s), 17.81 in/yr (452.4 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,300 ft³/s (36.8 m³/s) Apr. 4, gage height, 4.74 ft (1.445 m); minimum, 31 ft³/s (0.88 m³/s) July 12, 13.

Period of record: Maximum discharge, 3,670 ft³/s (104 m³/s) Jan. 23, 1959, gage height, 8.11 ft (2.472 m), from rating curve extended above 2,600 ft³/s (73.6 m³/s); minimum, 5.1 ft³/s (0.14 m³/s) Sept. 2, 1933.

REMARKS.--Records good. Flow regulated by East Branch Reservoir, usable capacity, 4,140 acre-ft (5.10 hm³), 14.6 mi (23.5 km) upstream since 1939 and by LaRue Reservoir, usable capacity, 18,110 acre-ft (22.3 hm³), 9.8 mi (15.8 km) upstream since 1961. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1054: 1945. WSP 1437: 1931. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	206	467	338	305	353	565	158	126	114	71	70
2	139	235	433	309	267	419	922	165	122	126	60	65
3	149	259	373	246	226	522	1,090	173	115	134	64	67
4	152	266	323	213	192	565	1,270	170	102	136	78	76
5	156	253	279	202	164	628	1,240	158	86	130	84	76
6	153	230	253	163	147	705	1,120	163	75	107	80	66
7	155	206	233	147	135	718	954	165	63	76	66	56
8	151	186	207	149	134	656	787	160	61	56	61	50
9	139	173	186	125	136	751	663	183	54	44	53	45
10	122	163	171	124	138	1,110	565	231	63	43	56	43
11	111	157	165	127	118	1,170	480	255	72	40	71	41
12	101	154	157	129	116	1,020	415	470	58	34	70	43
13	92	154	152	110	122	811	386	739	44	37	63	46
14	105	155	164	110	147	637	374	1,010	40	49	56	47
15	99	153	171	121	153	465	410	976	40	80	50	46
16	89	158	169	125	145	430	362	775	76	69	44	45
17	80	160	157	151	140	440	318	590	110	60	69	43
18	80	160	150	177	128	490	280	425	126	54	75	72
19	77	156	139	411	125	480	248	314	134	54	64	105
20	89	148	151	572	149	415	208	241	140	51	52	122
21	74	144	209	744	169	362	180	190	149	48	44	126
22	62	148	226	764	216	314	178	156	154	46	40	126
23	66	147	245	739	292	290	190	140	154	48	37	120
24	88	145	251	687	459	273	205	134	142	50	35	114
25	89	165	242	600	533	252	211	132	122	49	37	101
26	91	194	274	506	494	241	205	130	104	49	40	84
27	85	211	359	432	398	248	188	117	93	47	38	69
28	88	262	460	382	333	248	168	99	89	45	40	66
29	123	341	503	352	-----	255	154	110	80	48	62	66
30	155	419	460	332	-----	318	147	122	85	71	80	67
31	180	-----	395	321	-----	420	-----	124	-----	80	78	-----
TOTAL	3,471	5,908	8,124	9,908	6,081	16,006	14,483	8,975	2,879	2,075	1,818	2,163
MEAN	112	197	262	320	217	516	483	290	96.0	66.9	58.6	72.1
MAX	180	419	503	764	533	1,170	1,270	1,010	154	136	84	126
MIN	62	144	139	110	116	241	147	99	40	34	35	41

CAL YR 1973 TOTAL 86,261 MEAN 236 MAX 1,250 MIN 19
WTR YR 1974 TOTAL 81,891 MEAN 224 MAX 1,270 MIN 34

STREAMS TRIBUTARY TO LAKE ERIE

04204000 Little Cuyahoga River at Mogadore, Ohio

LOCATION.--Lat 41°03'47", long 81°23'38", in T.1 N., R.10 W., Summit County, on left bank at upstream side of bridge on State Highway 532, 500 ft (152 m) downstream from Mogadore Reservoir, 0.8 mi (1.3 km) upstream from Wingfood Lake Outlet, and 0.8 mi (1.3 km) north of Mogadore.

DRAINAGE AREA.--17.3 mi² (44.8 km²), includes unnamed tributary 0.2 mi (0.3 km) downstream.

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,058.74 ft (322.704 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--28 years, 13.7 ft³/s (0.388 m³/s).

EXTREMES.--Current year: Maximum discharge, 158 ft³/s (4.47 m³/s) May 12, gage height, 4.34 ft (1.323 m); minimum, 0.37 ft³/s (0.010 m³/s) Nov. 21.

Period of record: Maximum discharge, 167 ft³/s (4.73 m³/s) Mar. 10, 1964, gage height, 3.75 ft (1.143 m); maximum gage height, 4.34 ft (1.323 m) May 12, 1974; minimum discharge, 0.10 ft³/s (0.003 m³/s) Oct. 29, 30, 31, 1967.

REMARKS.--Records fair. Flow regulated by Mogadore Reservoir, usable capacity, 6,540 acre-ft (8.06 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1912: Drainage area. WRD Ohio 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	20	14	19	20	21	35	36	34	72	12	49
2	9.4	12	11	18	19	19	68	24	30	54	11	41
3	9.1	9.8	11	17	17	19	50	27	25	43	12	47
4	3.3	8.3	11	17	16	22	52	24	23	36	15	39
5	9.1	7.2	13	16	15	27	40	22	21	32	13	33
6	6.8	6.1	12	15	15	22	38	23	19	28	15	28
7	6.1	5.2	10	15	20	22	32	23	18	25	16	25
8	7.9	4.9	10	14	16	39	30	22	17	23	25	23
9	8.7	4.9	10	15	15	89	29	40	17	22	40	22
10	9.1	4.5	9.8	16	14	101	26	31	16	21	28	21
11	10	4.5	8.3	16	15	79	24	30	14	20	24	20
12	11	3.9	7.9	15	14	66	24	134	14	18	26	21
13	11	4.2	10	15	16	51	22	85	13	16	18	22
14	14	3.6	13	15	16	42	37	72	12	17	21	21
15	6.1	4.5	12	17	13	40	38	59	12	35	13	19
16	4.5	6.8	11	20	13	72	29	51	15	24	9.2	18
17	3.3	4.2	10	21	12	49	26	44	13	21	26	17
18	2.6	3.3	9.1	19	12	43	24	41	12	20	20	23
19	2.6	3.3	8.7	81	14	42	22	36	13	21	19	20
20	2.4	2.4	20	78	14	38	21	30	13	20	19	20
21	2.4	2.4	20	42	13	37	21	26	11	18	17	22
22	2.8	3.1	16	36	20	36	22	26	12	15	16	20
23	2.8	1.9	15	48	16	35	22	32	16	15	15	18
24	2.6	2.6	15	41	15	35	29	28	13	15	15	17
25	2.6	15	18	34	15	33	17	26	16	17	13	16
26	2.4	17	23	30	14	33	16	24	27	18	13	15
27	2.4	15	27	33	14	32	9.4	22	23	19	13	14
28	7.8	25	20	29	16	31	15	21	22	18	28	17
29	14	24	20	30	-----	32	15	59	22	14	65	17
30	16	18	19	25	-----	42	27	43	44	13	52	14
31	20	-----	20	22	-----	38	-----	38	-----	13	42	-----
TOTAL	216.1	247.6	434.8	829	429	1,287	860.4	1,199	557	743	671.2	699
MEAN	6.97	8.25	14.0	26.7	15.3	41.5	28.7	38.7	18.6	24.0	21.7	23.3
MAX	20	25	27	81	20	101	68	134	44	72	65	49
MIN	2.4	1.9	7.9	14	12	19	9.4	21	11	13	9.2	14

CAL YR 1973 TOTAL 7,197.88 MEAN 19.7 MAX 83 MIN .16
WTR YR 1974 TOTAL 8,173.10 MEAN 22.4 MAX 134 MIN 1.9

04204500 Little Cuyahoga River at Massillon Road, Akron, Ohio

LOCATION.--Lat 41°03'37", long 81°27'48", in T.1 N., R.10 W., Summit County, on left bank 50 ft (15 m) downstream from bridge on Massillon Road in Akron and 250 ft (76 m) upstream from Springfield Lake Outlet.

DRAINAGE AREA.--31.6 mi² (81.8 km²).

PERIOD OF RECORD.--February 1946 to September 1974 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,005.20 ft (306.385 m) above mean sea level (city of Akron bench mark).

AVERAGE DISCHARGE.--28 years, 27.6 ft³/s (0.782 m³/s).

EXTREMES.--Current year: Maximum discharge, 412 ft³/s (11.7 m³/s) June 30, gage height, 2.48 ft (0.756 m); minimum, 4.0 ft³/s (0.11 m³/s) Oct. 26, gage height, 0.32 ft (0.098 m).
Period of record: Maximum discharge, 891 ft³/s (25.2 m³/s) Jan. 21, 1959, gage height, 3.99 ft (1.216 m); minimum, 1.6 ft³/s (0.045 m³/s) Oct. 3, 19, 1963; minimum gage height, 0.16 ft (0.049 m) Sept. 24, 1964, July 16, 1965.

REMARKS.--Records good. Flow regulated by Mogadore Reservoir 4.5 mi (7.2 km) upstream, usable capacity, 6,540 acre-ft (8.06 hm³), and Wingfoot Lake 7.2 mi (11.6 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	37	18	26	35	49	60	76	51	144	14	85
2	36	18	17	25	33	41	193	42	45	71	14	68
3	24	13	17	25	30	39	104	49	42	62	21	89
4	16	11	17	24	29	49	87	40	39	49	32	71
5	33	10	20	22	26	66	68	35	36	44	18	55
6	18	9.1	17	22	28	47	65	40	35	39	17	49
7	15	8.7	15	21	42	45	59	40	32	34	17	44
8	17	8.4	14	19	30	113	58	42	28	30	52	40
9	15	8.7	14	20	26	176	58	91	26	29	56	36
10	15	8.7	14	22	24	165	52	56	25	37	35	34
11	15	8.1	14	22	25	104	49	68	24	26	26	32
12	14	8.4	13	20	26	83	45	234	24	24	38	42
13	21	8.4	20	20	30	66	44	117	22	22	32	44
14	19	7.8	24	20	32	54	83	87	21	37	54	46
15	11	13	18	28	25	55	78	71	22	83	36	39
16	9.7	12	15	38	23	104	54	62	32	35	22	37
17	9.1	9.1	15	41	23	65	47	56	22	30	73	36
18	8.7	7.8	14	42	22	54	44	58	20	27	43	61
19	8.7	8.1	14	202	28	54	42	50	26	25	36	41
20	7.5	7.8	49	80	30	47	37	45	22	25	34	40
21	7.5	14	42	78	25	47	34	42	19	24	31	45
22	7.5	10	25	63	47	45	41	49	23	24	29	40
23	7.5	7.5	24	91	36	47	41	62	29	29	26	36
24	7.5	11	22	73	28	50	42	49	26	24	25	35
25	7.2	47	31	59	28	45	38	42	27	22	23	38
26	7.2	30	38	52	26	45	31	40	62	21	22	38
27	6.6	21	39	65	26	47	24	37	34	19	32	39
28	33	46	36	52	33	42	22	36	26	21	83	50
29	26	37	32	55	-----	44	25	125	26	17	135	45
30	43	22	30	36	-----	71	71	76	101	16	89	43
31	36	-----	28	41	-----	65	-----	58	-----	15	71	-----
TOTAL	527.7	468.6	706	1,404	816	2,024	1,696	1,975	967	1,105	1,236	1,398
MEAN	17.0	15.6	22.8	45.3	29.1	65.3	56.5	63.7	32.2	35.6	39.9	46.6
MAX	43	47	49	202	47	176	193	234	101	144	135	89
MIN	6.6	7.5	13	19	22	39	22	35	19	15	14	32

CAL YR 1973 TOTAL 13,040.3 MEAN 35.7 MAX 144 MIN 6.6
WTR YR 1974 TOTAL 14,323.3 MEAN 39.2 MAX 234 MIN 6.6

STREAMS TRIBUTARY TO LAKE ERIE

04205000 Springfield Lake Outlet at Akron, Ohio

LOCATION.--Lat 41°03'21", long 81°27'52", in T. 1 N., R.10 W., Summit County, on right bank 3.0 mi (4.8 km) downstream from Springfield Lake in Akron, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--9.72 mi² (25.2 km²).

PERIOD OF RECORD.--May 1946 to September 1974 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,015.34 ft (309.476 m) above mean sea level (city of Akron bench mark).

AVERAGE DISCHARGE.--28 years, 5.69 ft³/s (0.161 m³/s).

EXTREMES.--Current year: Maximum discharge, 170 ft³/s (4.81 m³/s) Mar. 9 and June 30; maximum gage height, 2.55 ft (0.777 m) Mar. 9; minimum daily discharge, 1.7 ft³/s (0.048 m³/s) Oct. 23-27.

Period of record: Maximum discharge, 519 ft³/s (14.7 m³/s) Jan. 21, 1959, gage height, 3.42 ft (1.042 m), from rating curve extended above 95 ft³/s (2.69 m³/s); maximum gage height, 3.57 ft (1.088 m), probably occurred Feb. 5, 1971 (backwater from ice); no flow at times in 1953-54, 1961-67, 1970.

REMARKS.--Records poor. Flow regulated by Springfield Lake. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	12	4.1	3.4	4.6	11	13	11	8.5	36	2.6	9.0
2	7.4	5.6	3.6	3.0	4.4	8.5	44	8.1	7.3	13	3.0	7.5
3	4.1	4.6	3.4	3.0	3.9	7.3	27	9.0	6.9	9.0	4.0	9.5
4	2.4	3.2	3.6	2.8	3.6	8.5	28	6.9	6.6	6.6	6.0	8.0
5	6.8	3.0	4.4	2.8	3.2	11	17	6.6	6.2	6.2	3.4	6.5
6	2.3	2.6	4.1	2.6	5.9	6.9	16	7.7	5.9	5.6	3.2	5.5
7	2.0	2.4	3.4	2.6	7.9	6.6	14	6.9	3.6	5.1	3.4	4.8
8	2.1	2.4	3.2	2.4	4.6	57	13	9.1	2.8	4.9	10	4.4
9	2.1	2.4	3.2	2.4	3.6	76	12	23	2.3	7.9	7.5	4.0
10	2.0	2.4	3.2	2.6	3.2	66	11	11	2.4	6.6	6.0	3.8
11	2.0	2.4	3.0	2.6	3.0	35	10	16	3.2	4.9	5.0	3.8
12	1.8	2.1	3.0	2.4	3.4	29	9.8	81	2.6	4.9	7.0	4.4
13	5.2	2.1	5.6	2.6	3.9	23	9.4	31	2.3	4.6	6.0	4.6
14	4.9	2.1	5.6	3.0	4.4	18	21	17	2.8	21	10	4.8
15	2.6	3.7	4.1	7.3	3.2	19	12	13	5.8	9.0	4.0	4.4
16	2.1	3.2	3.4	8.1	2.2	23	11	11	3.6	5.4	2.6	4.0
17	1.8	2.8	3.0	7.3	1.9	19	9.4	11	2.6	5.0	7.5	4.0
18	2.0	2.4	3.4	8.8	2.4	14	8.5	11	2.6	5.0	5.0	6.5
19	2.0	2.4	2.8	64	4.3	14	7.7	9.0	3.7	4.8	4.0	4.6
20	2.0	2.4	17	13	4.4	12	7.3	8.5	2.0	4.8	3.6	4.4
21	1.8	4.5	9.4	11	3.9	13	6.9	8.1	2.4	4.6	3.2	4.6
22	2.2	3.6	6.6	7.7	8.5	12	13	18	5.4	4.6	3.0	4.2
23	1.7	3.0	4.6	15	6.2	12	12	17	4.1	5.5	2.8	4.0
24	1.7	4.4	4.1	10	4.4	14	12	11	2.8	4.6	2.6	3.8
25	1.7	17	6.6	6.6	3.4	10	8.5	9.0	12	4.2	2.4	4.0
26	1.7	9.0	11	5.9	3.4	11	6.6	8.1	9.0	3.8	2.4	4.0
27	1.7	6.2	13	9.1	3.0	12	5.6	6.9	4.1	3.6	4.0	4.2
28	9.7	11	6.9	6.9	3.4	11	5.6	7.8	3.6	4.0	8.0	5.0
29	6.6	7.7	5.9	7.3	-----	11	11	45	6.2	3.4	14	4.8
30	14	5.1	5.4	5.6	-----	25	18	13	41	3.2	10	4.6
31	9.8	-----	4.6	5.1	-----	20	-----	11	-----	2.8	8.0	-----
TOTAL	115.5	137.7	165.2	236.9	114.2	615.8	400.3	462.7	174.3	214.6	164.2	151.7
MEAN	3.73	4.59	5.33	7.64	4.08	19.9	13.3	14.9	5.81	6.92	5.30	5.06
MAX	14	17	17	64	8.5	76	44	81	41	36	14	9.5
MIN	1.7	2.1	2.8	2.4	1.9	6.6	5.6	6.6	2.0	2.8	2.4	3.8

CAL YR 1973 TOTAL 2,713.7 MEAN 7.43 MAX 43 MIN 1.5
WTR YR 1974 TOTAL 2,953.1 MEAN 8.09 MAX 81 MIN 1.7

04205700 Little Cuyahoga River below Ohio Canal, at Akron, Ohio

LOCATION.--Lat 41°05'40", long 81°31'18", Summit County, on right bank 900 ft (274 m) downstream from the Ohio Canal and 1.9 miles (3.1 km) upstream from the mouth.

DRAINAGE AREA.--59.2 mi² (153 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 790.64 ft (240.987 m) above mean sea level. Levels by the city of Akron.

EXTREMES.--Period of record: Maximum discharge, 1,870 ft³/s (53.0 m³/s) Aug. 9, gage height, 5.28 ft (1.609 m); minimum, 15 ft³/s (0.425 m³/s) Nov. 12.

REMARKS.--Records good. Flow regulated by Mogadore Reservoir 9.7 mi (15.6 km) upstream, useable capacity, 6,540 acre-ft (8.06 km³), Wingfoot Lake 12.4 mi (20.0 km) upstream and Springfield Lake 8.8 mi (14.2 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	117	58	58	52	102	148	129	93	250	46	134
2	130	69	42	55	61	88	351	82	83	118	46	101
3	90	56	39	54	63	79	171	93	82	101	80	152
4	70	46	44	53	62	103	163	67	77	86	82	103
5	110	39	55	42	58	130	117	59	75	69	53	82
6	63	42	42	34	72	89	112	82	74	56	49	77
7	59	32	36	46	95	90	101	80	75	53	50	64
8	59	31	35	47	64	292	102	88	68	55	138	58
9	58	43	34	50	55	361	101	189	64	54	249	62
10	58	42	36	51	43	277	95	108	63	77	93	65
11	59	31	35	52	44	173	89	191	62	52	93	63
12	63	28	33	49	59	136	80	453	64	47	96	87
13	115	40	59	35	67	111	78	207	56	48	83	92
14	89	28	60	34	67	97	182	153	63	123	96	77
15	72	69	46	65	56	106	133	125	78	158	81	65
16	72	47	43	82	42	200	99	112	99	74	63	63
17	72	33	43	86	36	119	86	103	72	65	181	62
18	69	32	42	140	38	106	80	105	64	62	87	134
19	65	39	33	356	58	106	76	84	101	59	78	71
20	40	30	135	128	63	94	69	85	65	56	73	74
21	44	63	93	123	55	95	65	85	56	58	69	81
22	34	35	58	108	96	88	92	122	77	53	67	71
23	28	30	54	156	75	88	78	143	75	75	64	66
24	27	46	50	117	62	97	76	104	88	59	58	63
25	35	152	74	91	65	87	74	87	63	55	55	66
26	41	84	110	73	60	88	64	75	139	54	54	65
27	41	84	105	112	62	91	59	69	80	50	77	66
28	166	133	77	100	81	80	52	76	66	44	228	101
29	90	95	70	98	-----	86	60	332	72	46	325	76
30	141	66	64	82	-----	134	194	140	312	48	148	74
31	110	-----	62	69	-----	124	-----	105	-----	48	127	-----
TOTAL	2,280	1,682	1,767	2,646	1,711	3,917	3,247	3,933	2,506	2,253	3,089	2,415
MEAN	73.5	56.1	57.0	85.4	61.1	126	108	127	83.5	72.7	99.6	80.5
MAX	166	152	135	356	96	361	351	453	312	250	325	152
MIN	27	28	33	34	36	79	52	59	56	44	46	58

WTR YR 1974 TOTAL 31,446 MEAN 86.2 MAX 453 MIN 27

STREAMS TRIBUTARY TO LAKE ERIE

04206000 Cuyahoga River at Old Portage, Ohio

LOCATION.--Lat 41°08'08", long 81°32'50", Summit County, on right bank 230 ft (70 m) upstream from North Portage Path bridge at Old Portage, 1.2 mi (1.9 km) downstream from Little Cuyahoga River, and 4 mi (6 km) northwest of Akron City Hall.

DRAINAGE AREA.--404 mi² (1,046 km²).

PERIOD OF RECORD.--September 1921 to December 1935, March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 740.11 ft (225.586 m) above mean sea level, unadjusted. Prior to Dec. 21, 1923, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years, 409 ft³/s (11.58 m³/s).

EXTREMES.--Current year: Maximum discharge, 5,070 ft³/s (144 m³/s) Apr. 2, gage height, 10.62 ft (3.237 m); minimum, 79 ft³/s (2.24 m³/s) July 31, Aug. 1.

Period of record: Maximum discharge, 6,500 ft³/s (184 m³/s) Jan. 21, 1959, gage height, 11.54 ft (3.517 m), from rating curve extended above 3,900 ft³/s (110 m³/s) on basis of contracted-opening estimate of peak flow at site with drainage area of 488 mi² (1,264 km²) adjusted to gaging station by drainage-area relation; minimum, 14 ft³/s (0.40 m³/s) Aug. 27, 1944.

REMARKS.--Records good. Natural flow of stream affected by diversions, storage reservoirs and power plants. At Lake Rockwell, 17.7 mi (28.5 km) upstream from gage, an average of 73 ft³/s (2.07 m³/s) was diverted for municipal supply of city of Akron. Sewage from city enters river 2.9 mi (4.7 km) downstream from station. Some diversion from the Tuscarawas drainage into this basin at Portage Lakes (see REMARKS for station 03116000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1307: 1924(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	648	697	659	584	764	930	551	430	636	92	461
2	371	546	694	503	560	835	2,500	464	360	422	89	464
3	265	470	666	449	503	932	2,370	471	309	418	142	568
4	248	449	613	422	449	1,010	2,120	416	268	454	159	481
5	392	434	574	326	353	1,110	2,040	372	225	469	125	383
6	335	389	491	287	320	1,060	1,870	403	219	372	130	318
7	273	347	431	285	398	1,120	1,680	415	197	264	139	267
8	255	303	398	233	329	1,390	1,450	423	173	191	317	233
9	228	285	365	233	287	1,660	1,240	713	160	146	515	209
10	209	280	338	228	248	1,890	1,060	722	169	160	334	196
11	194	253	302	235	243	1,960	920	745	150	126	291	179
12	180	235	282	235	258	2,040	800	1,770	148	112	322	186
13	240	240	326	201	282	1,800	718	2,010	134	109	337	220
14	240	231	365	204	332	1,410	835	1,650	135	180	290	223
15	221	280	362	258	309	1,100	918	1,590	150	359	235	182
16	199	275	350	314	290	1,280	839	1,530	193	211	181	168
17	177	250	314	407	275	1,130	699	1,270	191	189	406	146
18	159	240	272	570	250	928	580	988	193	176	359	287
19	148	253	260	1,750	265	914	509	736	263	150	298	209
20	118	231	464	1,710	306	885	452	581	247	124	231	223
21	120	280	563	1,500	300	805	401	467	230	111	211	263
22	113	258	503	1,500	446	708	427	428	265	108	185	267
23	107	248	473	1,590	567	658	435	572	335	134	156	256
24	92	260	461	1,510	563	674	385	497	315	115	117	232
25	90	507	516	1,270	648	608	382	426	244	108	113	210
26	97	568	679	1,060	690	563	362	393	373	106	120	199
27	124	512	823	1,060	690	589	344	359	293	101	146	195
28	365	704	791	948	669	578	319	335	228	92	332	423
29	320	784	791	863	-----	554	327	1,040	233	92	624	382
30	488	725	811	757	-----	720	582	703	532	100	493	378
31	584	-----	757	659	-----	896	-----	496	-----	98	442	-----
TOTAL	7,127	11,485	15,732	22,226	11,414	32,571	28,494	23,536	7,362	6,433	7,931	8,408
MEAN	230	383	507	717	408	1,051	950	759	245	208	256	280
MAX	584	784	823	1,750	690	2,040	2,500	2,010	532	636	624	568
MIN	90	231	260	201	243	554	319	335	134	92	89	146

CAL YR 1973 TOTAL 182,111 MEAN 499 MAX 1,980 MIN 55
WTR YR 1974 TOTAL 182,719 MEAN 501 MAX 2,500 MIN 89

04206250 Cuyahoga River at Ira, Ohio

LOCATION.--Lat 41°10'53", long 81°35'00", on left bank at upstream side of highway bridge on Ira Road at the corner of Ira Road and Riverview Road, at Ira, Summit County, 1.8 mi (2.9 km) downstream from Yellow Creek, and 2.1 mi (3.4 km) upstream from Furnace Run.

DRAINAGE AREA.--478 mi² (1,238 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 712.13 ft (217.057 m) above mean sea level. Bench mark furnished by Summit County Engineers Office.

EXTREMES.--Period of record: Maximum discharge, 4,690 ft³/s (133 m³/s) Apr. 2, gage height, 12.13 ft (3.697 m); minimum daily discharge, 180 ft³/s (5.10 m³/s) Oct. 26, 27, Aug. 2.

REMARKS.--Records good. Natural flow of stream affected by diversions, storage reservoirs and power plants. Some diversion from the Tuscarawas drainage into this basin at Portage Lakes (see REMARKS for station 03116000). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	338	1,050	951	890	824	1,140	1,290	876	694	1,150	180	540
2	598	790	904	698	778	1,220	3,530	701	577	587	200	505
3	450	666	855	621	697	1,290	3,170	730	513	527	339	717
4	384	601	774	583	600	1,400	2,960	642	452	531	373	582
5	630	586	727	479	500	1,510	2,640	582	352	563	303	470
6	483	533	619	427	450	1,380	2,390	636	331	447	315	411
7	392	488	541	423	550	1,480	2,140	657	315	299	291	364
8	380	435	503	349	450	1,880	1,890	676	279	239	478	327
9	350	425	464	359	400	2,530	1,650	1,180	250	204	726	311
10	328	412	447	365	350	2,750	1,440	1,080	264	225	465	291
11	313	380	414	377	350	2,500	1,260	1,000	242	198	416	295
12	299	365	393	366	400	2,490	1,110	3,130	242	185	438	331
13	373	373	472	330	500	2,240	986	2,780	228	191	438	369
14	380	367	508	349	600	1,790	1,150	2,270	228	191	398	356
15	341	428	488	463	500	1,460	1,260	2,080	279	640	339	295
16	315	421	463	596	445	1,960	1,140	1,970	373	311	291	287
17	292	383	425	705	417	1,600	966	1,650	315	276	627	268
18	271	361	382	1,190	396	1,300	819	1,300	291	276	474	452
19	260	387	367	3,090	458	1,260	737	975	373	257	390	327
20	220	371	916	2,430	499	1,200	667	780	360	225	356	356
21	200	465	963	2,130	476	1,120	613	662	327	214	331	403
22	200	413	791	1,980	758	1,000	689	635	377	228	307	386
23	210	389	697	2,230	835	932	690	883	505	272	276	377
24	200	416	659	1,990	775	966	614	772	447	235	239	360
25	180	887	810	1,660	848	869	600	627	356	220	221	339
26	180	863	1,100	1,410	891	827	579	573	802	210	239	335
27	236	820	1,370	1,480	887	871	559	531	478	200	264	331
28	586	1,370	1,200	1,340	892	841	532	513	323	370	465	559
29	542	1,310	1,140	1,260	-----	819	537	2,050	311	300	893	500
30	803	1,090	1,110	1,090	-----	1,120	927	1,290	772	250	627	491
31	891	-----	1,030	938	-----	1,260	-----	834	-----	200	527	-----
TOTAL	11,625	17,845	22,483	32,598	16,526	45,005	39,535	35,065	11,656	10,221	12,226	11,935
MEAN	375	595	725	1,052	590	1,452	1,318	1,131	389	330	394	398
MAX	891	1,370	1,370	3,090	892	2,750	3,530	3,130	802	1,150	893	717
MIN	180	361	367	330	350	819	532	513	228	185	180	268

WTR YR 1974 TOTAL 266,720 MEAN 731 MAX 3,530 MIN 180

STREAMS TRIBUTARY TO LAKE ERIE

04207200 Tinkers Creek at Bedford, Ohio

LOCATION.--Lat 41°23'04", long 81°31'39", in T.6 N., R.11 W., Cuyahoga County, on left bank at downstream side of bridge on State Highway 14 in Bedford, 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--83.9 mi² (217 km²).

PERIOD OF RECORD.--November 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 876.18 ft (267.060 m) above mean sea level.

AVERAGE DISCHARGE.--11 years (1963-74), 116 ft³/s (3.285 m³/s), 18.78 in/yr (477.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,920 ft³/s (54.4 m³/s) Apr. 4, gage height, 6.43 ft (1.960 m); minimum, 14 ft³/s (0.40 m³/s) July 28.

Period of record: Maximum discharge, 7,220 ft³/s (204 m³/s) July 20, 1969, gage height, 10.10 ft (3.078 m), from rating curve extended above 3,400 ft³/s (96.3 m³/s) on the basis of contracted-opening measurement of peak flow; minimum, 5.2 ft³/s (0.15 m³/s) Aug. 19, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	517	285	109	104	352	209	105	77	105	18	61
2	149	299	147	70	88	560	774	85	51	70	17	57
3	114	241	107	60	75	419	1,080	72	43	45	21	98
4	100	126	98	55	65	590	1,200	63	37	37	75	80
5	101	87	104	50	55	428	634	56	33	38	28	61
6	101	67	83	48	50	257	428	142	30	29	22	40
7	71	54	71	46	48	254	254	157	29	25	18	33
8	54	47	61	44	48	460	203	142	40	24	191	27
9	52	45	55	44	46	718	200	292	31	22	310	28
10	36	46	53	46	46	690	206	271	42	34	171	29
11	31	45	50	53	48	602	179	226	30	55	74	28
12	27	45	44	51	56	320	140	1,240	26	33	200	33
13	33	51	65	45	132	155	109	924	24	23	240	32
14	49	49	107	50	154	107	102	627	26	29	264	33
15	43	63	91	76	107	122	126	243	282	65	222	33
16	31	68	68	197	76	490	145	114	317	71	107	26
17	28	63	51	243	60	365	97	86	120	40	536	26
18	25	51	44	490	53	233	77	71	62	25	254	91
19	24	47	46	1,260	142	163	67	59	212	23	257	48
20	22	46	490	1,120	152	135	59	50	102	21	94	83
21	20	94	344	865	130	116	51	42	70	17	57	89
22	20	89	303	441	320	112	105	41	71	17	45	85
23	21	79	197	419	285	118	102	60	70	28	38	56
24	21	89	112	332	179	120	88	79	61	21	47	42
25	21	423	275	275	116	114	67	56	46	20	29	35
26	21	288	419	157	88	132	57	41	233	19	27	30
27	20	500	554	219	109	140	51	35	209	17	33	29
28	101	741	396	236	194	126	45	33	109	16	68	54
29	139	725	275	264	-----	124	47	215	71	120	98	51
30	383	506	177	197	-----	261	83	177	105	31	88	43
31	517	-----	128	135	-----	278	-----	142	-----	21	72	-----
TOTAL	2,493	5,591	5,300	7,697	3,026	9,061	6,985	5,946	2,659	1,141	3,721	1,461
MEAN	80.4	186	171	248	108	292	233	192	88.6	36.8	120	48.7
MAX	517	741	554	1,260	320	718	1,200	1,240	317	120	536	98
MIN	20	45	44	44	46	107	45	33	24	16	17	26
CFSM	.96	2.22	2.04	2.96	1.29	3.48	2.78	2.29	1.06	.44	1.43	.58
IN.	1.11	2.48	2.35	3.41	1.34	4.02	3.10	2.64	1.18	.51	1.65	.65

CAL YR 1973 TOTAL 51,364 MEAN 141 MAX 900 MIN 13 CFSM 1.68 IN 22.77
WTR YR 1974 TOTAL 55,081 MEAN 151 MAX 1,260 MIN 16 CFSM 1.80 IN 24.42

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE
01-19	0430	6.32	1,800
04-04	0730	6.43	1,920
05-12	1230	6.29	1,770

04207500 Ohio Canal at Independence, Ohio

LOCATION.--Lat 41°23'25", long 81°37'30", in T.6 N., R.12 W., Cuyahoga County, on right bank at upstream side of dam, 0.3 mi (0.5 km) upstream from Rockside Road and 0.8 mi (1.3 km) northeast of Independence.

PERIOD OF RECORD.--September 1921 to May 1923, August 1927 to December 1935, October 1940 to current year.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 605.31 ft (184.498 m) above mean sea level. Prior to Dec. 9, 1946, nonrecording gage, or water-stage recorder at site 0.4 mi (0.6 km) downstream at various datums. Dec. 10, 1946, to Nov. 3, 1950, nonrecording gage at present site and datum.

EXTREMES.--Period of record: Maximum daily discharge, 277 ft³/s (7.84 m³/s) Jan. 22, 1959; no flow June 4, 1947, July 2-7, 1950, July 16 to Aug. 19, 1959.

REMARKS.--Records good. Water is diverted from Cuyahoga River into canal at headgates at Brecksville, 6 mi (10 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	64	55	73	69	69	62	72	58	42	41	44
2	62	58	54	71	68	73	71	68	57	33	32	44
3	64	56	54	70	66	68	65	68	56	31	37	47
4	61	55	54	69	64	66	68	67	55	29	37	46
5	62	54	54	68	63	68	70	66	55	31	35	44
6	62	55	52	68	63	60	71	68	52	30	37	43
7	62	54	51	67	65	65	75	69	59	29	40	42
8	60	53	51	66	63	62	79	66	59	28	40	41
9	61	54	51	68	62	76	77	74	59	27	33	41
10	60	54	57	68	61	79	76	69	57	27	40	41
11	60	54	71	69	61	64	73	67	57	38	38	41
12	59	54	71	69	61	61	71	89	56	39	32	42
13	59	55	72	68	65	59	69	77	51	38	43	42
14	61	55	73	56	68	58	68	86	51	37	48	44
15	58	55	70	63	63	57	71	73	56	40	43	42
16	52	57	69	71	60	75	79	69	57	37	41	41
17	47	55	72	61	60	60	79	68	51	36	53	42
18	59	55	68	75	59	56	78	66	47	36	42	46
19	67	56	64	66	63	56	77	64	50	35	40	44
20	53	55	58	47	67	54	76	62	52	35	39	46
21	53	56	55	78	63	54	75	60	48	34	37	48
22	53	56	50	66	69	54	76	59	47	33	37	47
23	54	54	48	81	63	52	73	59	48	35	40	45
24	54	55	47	77	59	52	70	62	47	35	40	45
25	54	64	55	72	59	52	68	59	46	34	38	44
26	55	57	58	69	59	52	68	59	52	33	38	44
27	55	58	72	71	59	54	68	59	48	33	39	45
28	58	68	68	71	62	52	68	59	41	32	43	48
29	60	66	74	77	-----	52	68	70	39	32	48	49
30	61	56	74	73	-----	60	72	68	38	40	48	49
31	66	-----	73	71	-----	58	-----	61	-----	42	44	-----
TOTAL	1,809	1,698	1,895	2,139	1,764	1,878	2,161	2,083	1,549	1,061	1,243	1,327
MEAN	58.4	56.6	61.1	69.0	63.0	60.6	72.0	67.2	51.6	34.2	40.1	44.2
MAX	67	68	74	81	69	79	79	89	59	42	53	49
MIN	47	53	47	47	59	52	62	59	38	27	32	41

CAL YR 1973 TOTAL 24,079 MEAN 66.0 MAX 100 MIN 47
WTR YR 1974 TOTAL 20,607 MEAN 56.5 MAX 89 MIN 27

STREAMS TRIBUTARY TO LAKE ERIE

04208000 Cuyahoga River at Independence, Ohio

LOCATION.--Lat 41°23'43", long 81°37'48", in T.6 N., R.12 W., Cuyahoga County, on left bank 240 ft (73 m) downstream from bridge on Old Rockside Road, 0.8 mi (1.3 km) northeast of Independence, and 3.0 mi (4.8 km) downstream from Tinkers Creek.

DRAINAGE AREA.--707 mi² (1,831 km²).

PERIOD OF RECORD.--September 1903 to December 1905 (fragmentary), January to July 1906 (gage heights and discharge measurements only), September 1921 to May 1923, September 1927 to December 1935, March 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 583.57 ft (177.872 m) above mean sea level. Sept. 21, 1903, to July 21, 1906, nonrecording gage at bridge 240 ft (73 m) upstream at present datum. Sept. 28, 1921, to May 30, 1923, nonrecording gage at bridge 240 ft (73 m) upstream at datum 2.42 ft (0.738 m) higher. Sept. 5, to Oct. 8, 1927, nonrecording gage, and Oct. 9, 1927, to Dec. 31, 1935, Mar. 5, 1940, to June 19, 1969, water-stage recorder, at site 100 ft (30 m) upstream at present datum.

AVERAGE DISCHARGE.--43 years (1921-22, 1927-35, 1940-74), 768 ft³/s (21.75 m³/s), not including flow in Ohio Canal.

EXTREMES.--Current year: Maximum discharge, 8,700 ft³/s (246 m³/s) Jan. 19, gage height, 15.00 ft (4.572 m); minimum, 175 ft³/s (4.96 m³/s) Oct. 25.

Period of record: Maximum discharge, 24,800 ft³/s (702 m³/s) Jan. 22, 1959, gage height, 22.41 ft (6.831 m), from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 14 ft³/s (0.40 m³/s) Nov. 30, 1930; minimum daily, 21 ft³/s (0.59 m³/s) Aug. 28, 1933; minimum combined daily discharge of river and canal, 55 ft³/s (1.56 m³/s) Aug. 28, 1933.

REMARKS.--Records good. Natural flow of stream affected by diversions, storage reservoirs and power plants. Some diversion from the Tuscarawas drainage into this basin at Portage Lakes (see REMARKS for station 03116000). Water diverted into Ohio Canal at Brecksville, 6 mi (10 km) upstream from station, bypasses station. These records do not include flow in canal except above about 15,000 ft³/s (425 m³/s), when channels merge; record of diversion published as Ohio Canal at Independence (see preceding page). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1307: 1922-23(M), 1928-30(M), 1933(M), 1940(M), 1947(M), 1950(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	398	2,040	1,200	1,170	991	2,120	1,610	1,330	955	2,080	207	721
2	800	1,300	1,100	924	895	2,620	5,130	950	721	920	207	685
3	808	1,090	1,000	830	805	2,070	4,950	930	627	726	258	1,150
4	514	836	981	757	721	2,570	6,250	830	555	703	391	875
5	789	753	1,010	625	564	2,450	4,020	708	483	717	282	667
6	660	669	850	561	487	1,880	3,500	890	424	649	246	541
7	532	592	750	527	676	2,090	2,980	1,190	395	519	249	460
8	443	530	650	455	595	2,470	2,470	1,020	383	424	532	395
9	446	498	580	439	492	3,690	2,220	1,970	371	367	986	359
10	368	494	520	453	403	5,310	2,060	1,670	359	514	965	347
11	343	480	482	481	387	3,520	1,790	1,300	351	379	501	351
12	324	433	444	464	399	3,060	1,460	6,360	307	294	775	363
13	313	448	558	410	618	2,610	1,270	5,370	288	279	935	379
14	561	449	798	431	955	2,100	1,200	3,520	294	252	986	487
15	403	450	650	541	645	1,680	1,620	3,000	765	740	672	371
16	378	618	550	1,020	519	3,430	1,450	3,000	1,190	492	483	314
17	335	507	500	1,480	478	2,360	1,240	2,080	676	379	1,710	304
18	295	450	449	1,760	411	1,770	1,020	1,570	465	321	895	676
19	271	449	425	7,640	600	1,600	895	1,200	750	300	755	438
20	252	456	1,620	4,570	890	1,480	800	940	785	276	528	501
21	217	598	2,130	3,690	690	1,350	730	800	510	249	399	613
22	219	689	1,340	2,740	1,450	1,240	850	721	465	228	347	618
23	230	548	1,090	3,130	1,340	1,190	1,120	1,010	750	294	307	496
24	217	558	902	2,800	1,050	1,150	865	991	568	282	335	433
25	198	1,720	1,150	2,200	955	1,120	770	770	537	255	234	387
26	199	1,640	2,090	1,700	955	1,080	717	667	1,480	252	231	351
27	202	1,580	2,640	1,990	980	1,230	672	595	1,540	243	249	335
28	460	2,800	1,900	1,750	1,210	1,120	631	555	703	228	519	595
29	1,040	2,000	1,560	1,980	-----	1,040	618	2,610	546	399	1,120	613
30	1,360	1,500	1,480	1,510	-----	1,750	965	2,320	613	279	991	586
31	2,050	-----	1,300	1,230	-----	1,820	-----	1,250	-----	228	726	-----
TOTAL	15,625	27,175	32,699	50,258	21,161	64,970	55,873	52,117	18,856	14,268	18,021	15,411
MEAN	504	906	1,055	1,621	756	2,096	1,862	1,681	629	460	581	514
MAX	2,050	2,800	2,640	7,640	1,450	5,310	6,250	6,360	1,540	2,080	1,710	1,150
MIN	198	433	425	410	387	1,040	618	555	288	228	207	304

CAL YR 1973 TOTAL 370,308 MEAN 1,015 MAX 6,500 MIN 151
WTR YR 1974 TOTAL 386,434 MEAN 1,059 MAX 7,640 MIN 198

04208502 Big Creek at Cleveland, Ohio

LOCATION.--Lat 41°27'01", long 81°43'18", Cuyahoga County, on right bank 8 ft (2 m) downstream from footbridge in Brookside Park, 0.2 mi (0.3 km) upstream from bridge on Fulton Road and 2.5 mi (4.0 km) upstream from the mouth.

DRAINAGE AREA.--35.3 mi² (91.4 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.7 ft (189.19 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum discharge, 1,700 ft³/s (48.1 m³/s) Apr. 4, gage height, 9.25 ft (2.819 m); minimum, 7.0 ft³/s (0.20 m³/s) Oct. 21, 22; minimum gage height, 2.36 ft (0.719 m) Oct. 8.

Period of record: Maximum discharge, 2,210 ft³/s (62.6 m³/s) July 20 (from high-water mark); minimum, 2.2 ft³/s (0.062 m³/s) Sept. 20.

REMARKS.--Records good. Flow slightly regulated by industry upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	151	32	30	29	90	46	38	34	41	10	17
2	144	51	27	26	26	127	145	25	19	17	11	9.5
3	22	37	30	24	24	61	107	30	23	14	72	114
4	18	25	46	24	24	186	476	20	16	43	36	19
5	100	24	66	22	22	147	97	27	16	29	12	13
6	12	21	32	22	22	60	95	81	15	14	9.5	11
7	12	20	26	20	20	58	67	74	15	11	7.4	9.5
8	9.5	19	24	20	20	121	84	60	13	11	71	8.8
9	10	24	23	20	20	190	105	140	15	24	19	11
10	11	23	26	20	22	137	79	40	13	57	12	81
11	10	19	21	20	27	55	54	88	15	15	11	19
12	10	20	22	22	39	39	36	487	14	15	38	24
13	24	20	76	23	88	32	31	69	12	11	83	12
14	17	19	78	32	67	35	45	37	19	15	40	10
15	10	55	35	76	31	68	31	29	166	37	15	7.8
16	9.0	30	30	120	28	164	29	23	41	12	17	9.5
17	9.0	22	26	87	26	45	29	22	25	11	194	16
18	10	19	20	176	24	32	31	22	15	12	21	112
19	8.5	22	20	278	100	42	30	15	180	11	15	15
20	7.5	20	251	113	72	27	24	17	37	11	14	74
21	7.0	80	72	154	42	35	20	16	20	8.2	11	52
22	8.0	40	37	69	120	27	146	62	15	10	11	49
23	8.5	31	28	126	61	28	45	43	34	29	24	15
24	10	58	26	59	33	46	30	43	13	11	41	12
25	11	232	126	37	30	34	23	15	12	10	10	11
26	13	60	156	37	32	46	23	11	116	9.5	8.8	9.5
27	10	46	117	105	43	46	22	11	23	8.8	23	15
28	145	188	49	105	86	37	21	12	76	7.8	59	103
29	58	100	52	110	-----	60	22	245	46	136	49	28
30	220	42	36	47	-----	93	84	29	69	20	17	16
31	198	-----	33	35	-----	48	-----	27	-----	11	23	-----
TOTAL	1,157.0	1,518	1,643	2,059	1,178	2,216	2,077	1,858	1,127	672.3	984.7	903.6
MEAN	37.3	50.6	53.0	66.4	42.1	71.5	69.2	59.9	37.6	21.7	31.8	30.1
MAX	220	232	251	278	120	190	476	487	180	136	194	114
MIN	7.0	19	20	20	20	27	20	11	12	7.8	7.4	7.8
CFSM	1.06	1.43	1.50	1.86	1.19	2.03	1.96	1.70	1.07	.61	.90	.85
IN.	1.22	1.60	1.73	2.17	1.24	2.34	2.19	1.96	1.19	.71	1.04	.95

CAL YR 1973 TOTAL 16,517.8 MEAN 45.3 MAX 494 MIN 2.3 CFSM 1.28 IN 17.41
WTR YR 1974 TOTAL 17,393.6 MEAN 47.7 MAX 487 MIN 7.0 CFSM 1.35 IN 18.33

PEAK DISCHARGE (BASE, 1,200 FT³/S).--Apr. 4 (0500) 1,700 FT³/S (9.25 ft).

STREAMS TRIBUTARY TO LAKE ERIE

04209000 Chagrin River at Willoughby, Ohio

LOCATION.--Lat 41°37'51", long 81°24'13", in T.9 N., R.10 W., Lake County, on left bank, 150 ft (46 m) downstream from city waterworks dam, 800 ft (244 m) downstream from East Branch, 1.0 mi (1.6 km) southeast of Willoughby, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--246 mi² (637 km²).

PERIOD OF RECORD.--July 1925 to November 1935, October 1939 to current year (July 1925 to September 1932 monthly run-off in inches, adjusted for diversion, published in WSP 1307; previously published run-off was unadjusted and should not be used).

GAGE.--Water-stage recorder. Datum of gage is 594.57 ft (181.225 m) (revised) above mean sea level. Prior to Dec. 20, 1939, nonrecording gage at site 150 ft (46 m) upstream at datum 7 ft (2 m) higher.

AVERAGE DISCHARGE.--45 years, 319 ft³/s (9.034 m³/s), 17.62 in/yr (447.5 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 5,690 ft³/s (161 m³/s) Apr. 4, gage height, 8.84 ft (2.694 m); minimum, 25 ft³/s (0.71 m³/s) June 6.

Period of record: Maximum discharge, 28,000 ft³/s (793 m³/s) Mar. 22, 1948, gage height, 17.95 ft (5.471 m) (from high-water mark in well), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 3.0 ft³/s (0.085 m³/s) July 25, 26, 1934.

Flood in March 1913 reached a stage of 10.3 ft (3.14 m), from floodmark, former site and datum, discharge, 24,500 ft³/s (694 m³/s).

REMARKS.--Records good. Water diverted 200 ft (61 m) upstream from station for municipal supply of city of Willoughby. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1084: 1929(M), 1931(M). WSP 1307: 1926-28(M), 1930(M), 1932-35(M), 1942(M). WSP 1912: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	1,490	459	230	320	1,210	668	536	430	740	78	130
2	235	630	327	185	270	1,210	2,120	345	202	252	63	117
3	374	500	267	170	230	1,030	1,210	261	147	157	63	194
4	187	310	214	160	206	1,610	3,250	239	127	127	117	214
5	653	207	264	160	190	1,800	1,380	206	137	120	114	120
6	344	172	225	150	180	896	1,060	320	105	111	76	88
7	191	146	215	150	170	626	902	360	91	94	61	78
8	151	132	193	140	160	1,570	866	290	86	86	140	76
9	138	122	157	140	150	3,070	680	752	100	83	290	71
10	122	123	148	140	140	2,230	668	638	94	78	140	73
11	113	120	136	140	140	998	680	465	105	78	111	76
12	97	114	130	140	140	638	460	3,900	86	68	150	76
13	77	120	151	140	280	410	385	2,040	76	59	206	81
14	100	125	419	150	548	310	345	860	78	61	239	78
15	100	129	297	180	385	285	476	512	270	88	124	71
16	82	160	214	380	280	1,350	425	375	854	94	83	63
17	74	182	165	700	230	854	275	261	370	66	410	86
18	67	155	150	626	198	512	235	226	186	57	300	530
19	67	144	170	3,180	350	494	214	190	425	55	130	190
20	65	135	1,030	1,460	836	375	194	164	584	55	91	150
21	67	167	1,520	1,540	656	305	179	154	248	53	78	320
22	67	268	605	962	1,950	295	425	275	235	48	71	365
23	70	187	388	992	1,120	365	680	425	202	71	66	190
24	63	170	239	938	596	360	395	360	161	71	168	127
25	63	920	467	494	415	360	295	222	120	61	105	100
26	63	1,010	1,480	375	330	400	222	164	310	55	68	86
27	65	553	1,680	584	285	524	202	143	330	50	76	81
28	89	1,550	863	542	482	410	186	130	154	48	182	154
29	301	2,150	516	944	-----	554	190	425	140	470	182	117
30	525	784	444	650	-----	932	248	375	488	440	182	105
31	1,460	-----	305	430	-----	1,000	-----	248	-----	120	120	-----
TOTAL	6,242	12,975	13,838	17,172	11,237	26,983	19,515	15,861	6,941	4,016	4,284	4,207
MEAN	201	433	446	554	401	870	651	512	231	130	138	140
MAX	1,460	2,150	1,680	3,180	1,950	3,070	3,250	3,900	854	740	410	530
MIN	63	114	130	140	140	285	179	130	76	48	61	63

CAL YR 1973 TOTAL 141,299 MEAN 387 MAX 4,180 MIN 46
WTR YR 1974 TOTAL 143,271 MEAN 393 MAX 3,900 MIN 48

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE
03-08	2130	8.19	4,910
04-04	0900	8.84	5,690
05-12	1230	8.71	5,520

04211500 Mill Creek near Jefferson, Ohio

LOCATION.--Lat 41°45'11", long 80°48'03", in T.11 N., R.3 W., Ashtabula County, on right bank at downstream side of bridge on State Highway 307, 1.9 mi (3.1 km) northwest of Jefferson, and 3.5 mi (5.6 km) downstream from Griggs Creek.

DRAINAGE AREA.--82.0 mi² (212 km²).

PERIOD OF RECORD.--March 1942 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 822.59 ft (250.725 m) above mean sea level (Ashtabula County bench mark). Prior to June 10, 1942, nonrecording gage at same site and datum. Since Nov. 27, 1962, supplementary water-stage recorder at crest of waterworks dam 0.2 mi (0.3 km) upstream.

AVERAGE DISCHARGE.--32 years, 107 ft³/s (3.030 m³/s), 17.73 in/yr (450.3 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,570 ft³/s (72.8 m³/s) May 12, gage height, 8.43 ft (2.57 m); minimum daily discharge, 0.10 ft³/s (0.003 m³/s) many days.

Period of record: Maximum discharge, 9,810 ft³/s (278 m³/s) Jan. 22, 1959, gage height, 12.50 ft (3.810 m), from rating curve extended above 3,700 ft³/s (105 m³/s) on basis on contracted-opening measurement of peak flow; no flow at times.

REMARKS.--Records good except those below 1 ft³/s (0.028 m³/s) which are poor. Water diverted 0.2 mi (0.3 km) upstream from station for part of municipal supply of city of Jefferson. Mean diversion for 1973 water year, 0.15 ft³/s (0.004 m³/s). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	640	160	63	78	583	310	43	6.0	1,110	.10	13
2	8.3	718	84	42	48	406	1,050	50	4.4	553	.10	10
3	7.8	265	55	36	34	377	676	43	3.2	556	.10	17
4	6.5	141	43	28	29	457	777	46	2.5	246	.10	50
5	86	78	41	24	21	875	382	32	2.1	83	.10	36
6	189	46	46	23	19	396	194	48	1.9	36	.10	18
7	80	30	37	18	18	186	227	87	1.4	18	.10	11
8	37	21	28	15	17	368	382	68	1.0	9.6	.10	6.2
9	20	17	23	14	17	1,210	233	157	.77	5.6	.10	4.2
10	11	15	23	14	15	910	267	291	.57	3.7	.10	3.2
11	8.0	15	24	14	14	321	432	153	.35	2.3	.10	3.7
12	5.3	17	23	14	16	144	223	1,380	.32	1.5	1.0	.14
13	4.5	48	32	15	21	80	120	1,480	.30	.90	4.7	.10
14	3.7	77	413	17	43	49	83	283	.30	.53	3.2	.10
15	3.2	53	318	23	70	36	250	93	2.0	.53	.22	.10
16	2.8	86	121	83	59	297	165	44	4.8	.27	.10	.10
17	3.2	144	65	343	39	384	81	26	6.2	.22	.10	.10
18	3.9	93	44	338	26	150	44	18	6.5	.19	1.8	.10
19	3.6	61	34	942	28	120	33	13	7.9	.19	2.6	.10
20	3.9	43	220	732	102	135	28	9.0	9.3	.10	3.5	.10
21	4.3	36	1,110	508	218	90	20	6.7	55	.10	1.9	.10
22	7.3	44	448	303	1,110	72	25	5.8	139	.10	4.4	.50
23	11	50	198	212	954	135	138	7.9	95	.10	5.6	5.0
24	14	50	104	265	233	133	114	7.2	40	.10	4.2	3.0
25	15	223	118	141	117	113	67	5.4	18	.10	2.2	2.5
26	15	550	809	84	87	121	37	4.2	10	.10	1.5	2.1
27	8.0	287	774	121	69	240	23	3.7	6.5	.10	7.0	1.9
28	9.0	693	387	155	126	295	17	3.8	4.4	.10	6.0	2.3
29	78	858	191	347	-----	466	17	7.7	13	.10	15	2.5
30	99	377	130	261	-----	700	20	10	124	.10	15	2.3
31	327	-----	83	133	-----	502	-----	7.4	-----	.10	15	-----
TOTAL	1,082.8	5,776	6,186	5,328	3,628	10,351	6,435	4,433.8	566.71	2,628.73	96.12	195.44
MEAN	34.9	193	200	172	130	334	215	143	18.9	84.8	3.10	6.51
MAX	327	858	1,110	942	1,110	1,210	1,050	1,480	139	1,110	15	50
MIN	2.8	15	23	14	14	36	17	3.7	.30	.10	.10	.10
CFSM	.43	2.35	2.44	2.10	1.59	4.07	2.62	1.74	.23	1.03	.04	.08
IN.	.49	2.62	2.81	2.42	1.65	4.70	2.92	2.01	.26	1.19	.04	.09

CAL YR 1973 TOTAL 44,098.12 MEAN 121 MAX 1,560 MIN .10 CFSM 1.48 IN 20.01
WTR YR 1974 TOTAL 46,707.60 MEAN 128 MAX 1,480 MIN .10 CFSM 1.56 IN 21.19

PEAK DISCHARGE (EASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE
02-22	2200	7.16	1,660
05-12	2400	8.43	2,570
07-01	1500	7.05	1,600

STREAMS TRIBUTARY TO LAKE ERIE
04212000 Grand River near Madison, Ohio

LOCATION.--Lat 41°44'26", long 81°02'48", Lake County, on downstream end of center pier of abandoned Highway bridge, 800 ft (244 m) upstream from State Highway 528, 0.8 mi (1.3 km) upstream from Griswold Creek and 2.1 mi (3.4 km) south of Madison.

DRAINAGE AREA.--581 mi² (1,505 km²).

PERIOD OF RECORD.--July 1922 to December 1935, February 1938 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 673.51 ft (205.286 m) (revised) above mean sea level. Prior to Jan. 20, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years, 663 ft³/s (18.78 m³/s), 15.50 in/yr (393.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,140 ft³/s (231 m³/s) May 13, gage height, 9.18 ft (2.798 m); minimum daily discharge, 16 ft³/s (0.45 m³/s) Sept. 17.

Period of record: Maximum discharge, 21,100 ft³/s (598 m³/s) Jan. 22, 1959, gage height, 14.73 ft (4.490 m), from rating curve extended above 12,200 ft³/s (346 m³/s) on basis of estimates of peak flow over dam at site about 8 mi (13 km) upstream with drainage area of 559 mi² (1,448 km²) adjusted to gage site by 0.8 power of the drainage-area ratio; no flow July 31, Aug. 1, 2, 1934, Oct. 13-27, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1437: 1923-24(M), 1925-30, 1932(M), 1933, 1934(M), 1935, 1938(M), 1946, 1948(M).
WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	2,020	1,890	996	988	2,100	2,960	253	131	1,820	57	149
2	100	3,000	1,120	592	675	2,620	4,360	331	131	2,280	69	188
3	94	2,140	675	380	476	2,720	5,340	415	122	1,800	57	173
4	95	1,240	448	320	350	3,120	5,570	449	105	844	48	147
5	169	745	383	270	300	4,750	4,750	401	91	465	43	161
6	401	428	359	230	270	3,800	3,310	401	69	250	39	159
7	365	311	341	200	240	2,490	2,560	425	43	173	36	145
8	251	260	311	180	220	2,180	2,320	401	36	134	39	117
9	170	223	280	170	210	4,920	1,670	510	32	107	47	92
10	112	195	263	170	200	5,960	1,260	1,010	31	101	47	77
11	81	182	251	170	190	4,710	1,840	1,230	31	72	56	67
12	61	177	245	180	190	3,270	1,740	3,940	31	68	84	52
13	51	173	251	190	200	2,540	1,260	7,620	28	61	98	36
14	45	201	775	190	300	1,740	991	5,040	27	64	83	29
15	52	225	1,240	200	650	908	1,070	3,650	28	69	71	23
16	96	221	812	250	550	1,230	1,490	2,910	37	60	52	19
17	102	263	500	600	450	2,530	1,310	1,930	65	52	46	16
18	96	341	412	800	300	1,920	1,010	837	91	67	61	22
19	55	335	300	3,220	400	1,540	683	394	98	76	78	40
20	46	314	500	4,410	1,000	1,390	497	266	96	72	89	30
21	42	285	3,520	4,140	2,140	948	380	181	121	63	88	180
22	40	273	3,630	3,910	3,990	696	345	132	169	59	72	220
23	36	288	2,620	3,590	5,510	717	524	132	163	58	67	150
24	47	305	1,100	3,270	3,120	844	620	124	113	57	63	160
25	98	495	900	3,120	1,890	836	528	159	76	55	60	170
26	95	1,760	2,730	1,740	1,200	844	429	159	57	53	44	120
27	93	1,730	4,360	1,430	850	1,140	355	145	46	43	36	90
28	119	1,750	3,540	1,800	800	1,510	272	127	57	48	34	70
29	221	3,870	2,560	1,740	-----	2,220	248	122	63	59	47	60
30	703	3,120	1,990	1,960	-----	3,540	230	127	260	58	83	46
31	1,320	-----	1,500	1,370	-----	3,490	-----	129	-----	51	107	-----
TOTAL	5,342	26,870	39,806	41,788	27,659	73,223	49,922	33,950	2,448	9,239	1,901	3,008
MEAN	172	896	1,284	1,348	988	2,362	1,664	1,095	81.6	298	61.3	100
MAX	1,320	3,870	4,360	4,410	5,510	5,960	5,570	7,620	260	2,280	107	220
MIN	36	173	245	170	190	696	230	122	27	43	34	16
CFSM	.30	1.54	2.21	2.32	1.70	4.07	2.86	1.88	.14	.51	.11	.17
IN.	.34	1.72	2.55	2.68	1.77	4.69	3.20	2.17	.16	.59	.12	.19

CAL YR 1973 TOTAL 302,295.3 MEAN 828 MAX 5,430 MIN 8.9 CFSM 1.43 IN 19.36
WTR YR 1974 TOTAL 315,156.0 MEAN 863 MAX 7,620 MIN 16 CFSM 1.49 IN 20.18

PEAK DISCHARGE (BASE, 5,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-23	0400	7.86	5,980	04-04	0800	8.46	6,730
03-10	0630	7.95	6,120	05-13	1100	9.18	8,140

04212500 Ashtabula River near Ashtabula, Ohio

LOCATION.--Lat 41°51'20", long 80°45'44", Ashtabula County, on left bank at downstream side of State Road bridge, 1.1 mi (1.8 km) upstream from Hubbard Run, 1.3 mi (2.1 km) southeast of Ashtabula, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--121 mi² (313 km²).

PERIOD OF RECORD.--July 1924 to December 1935, March 1939 to November 1947, March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 612.50 ft (186.690 m) above mean sea level, unadjusted. Prior to Aug. 27, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 147 ft³/s (4.163 m³/s), 16.50 in/yr (419.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,220 ft³/s (120 m³/s) May 12, gage height, 5.52 ft (1.682 m); minimum, 1.1 ft³/s (0.031 m³/s) July 29, Aug. 28.

Period of record: Maximum discharge, 11,600 ft³/s (329 m³/s) Jan. 22, 1959, gage height, 11.03 ft (3.362 m), from rating curve extended above 4,600 ft³/s (130 m³/s); no flow at times during most years.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 954: 1929(M). WSP 974: 1942. WSP 1437: 1926, 1932, 1934. WSP 1912: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	685	172	90	114	845	374	59	36	1,940	15	6.6
2	21	703	107	75	80	502	1,390	81	28	983	9.6	6.6
3	13	225	79	60	60	463	808	94	23	1,240	6.6	13
4	10	133	68	50	46	796	1,380	114	20	335	6.0	26
5	23	86	66	44	40	1,320	640	84	17	107	7.2	26
6	137	59	70	38	36	565	293	97	15	56	4.6	18
7	63	45	61	32	34	235	368	160	12	37	4.2	11
8	36	38	52	28	32	478	721	127	8.4	26	4.6	7.2
9	26	33	45	26	30	1,530	361	212	7.2	19	5.0	5.0
10	17	29	47	26	28	1,100	275	394	6.0	79	4.6	3.8
11	13	30	70	28	28	381	586	216	5.5	51	3.8	3.1
12	9.6	33	55	28	32	180	305	1,940	5.0	25	14	2.5
13	7.8	39	80	30	40	114	189	2,100	4.6	17	19	2.0
14	9.0	72	586	34	60	84	156	470	4.6	13	11	1.8
15	7.8	59	381	60	100	68	342	198	7.2	10	6.6	1.6
16	10	230	110	100	70	399	230	110	13	7.8	4.6	1.3
17	13	180	80	150	46	470	140	81	19	6.6	5.5	1.2
18	15	130	60	300	46	180	94	66	25	5.5	6.0	1.8
19	14	100	80	1,000	55	140	84	52	21	5.0	7.8	1.5
20	13	80	244	870	100	198	81	52	18	3.8	7.2	2.2
21	13	65	1,590	694	250	130	68	42	16	3.1	4.2	4.2
22	13	68	568	400	1,340	104	63	37	322	2.5	3.8	5.5
23	14	81	235	270	1,090	160	164	42	120	2.2	3.4	16
24	13	66	124	342	275	164	172	45	52	2.2	3.1	14
25	13	210	120	180	160	144	124	41	33	1.8	2.8	7.8
26	14	667	1,010	120	120	148	84	44	23	1.8	1.8	5.0
27	13	265	1,030	140	102	230	61	33	16	1.5	1.3	3.8
28	17	976	510	185	140	335	52	25	13	1.3	1.3	4.2
29	36	1,080	250	446	-----	621	44	28	17	40	3.8	3.4
30	220	407	176	335	-----	1,040	49	33	108	44	7.2	4.6
31	305	-----	130	180	-----	640	-----	44	-----	26	6.6	-----
TOTAL	1,156.2	6,874	8,256	6,361	4,554	13,764	9,698	7,121	1,015.5	5,093.1	192.2	210.7
MEAN	37.3	229	266	205	163	444	323	230	33.9	164	6.20	7.02
MAX	305	1,080	1,590	1,000	1,340	1,530	1,390	2,100	322	1,940	19	26
MIN	7.8	29	45	26	28	68	44	25	4.6	1.3	1.3	1.2
CFSM	.31	1.89	2.20	1.69	1.35	3.67	2.67	1.90	.28	1.36	.05	.06
IN.	.36	2.11	2.54	1.96	1.40	4.23	2.98	2.19	.31	1.57	.06	.06

CAL YR 1973 TOTAL 60,980.20 MEAN 167 MAX 2,010 MIN .59 CFSM 1.38 IN 18.75
WTR YR 1974 TOTAL 64,295.70 MEAN 176 MAX 2,100 MIN 1.2 CFSM 1.45 IN 19.77

PEAK DISCHARGE (BASE, 2,600 FT³/S)

DATE	TIME	G. H.	DISCHARGE
05-12	2330	5.52	4,220
07-01	1100	4.32	2,800

STREAMS TRIBUTARY TO LAKE ERIE

04213000 Conneaut Creek at Conneaut, Ohio

LOCATION.--Lat 41°55'37", long 80°36'15", Ashtabula County, on right bank at downstream side of Keefus Road bridge at Conneaut, and 6.4 mi (10.3 km) upstream from mouth.

DRAINAGE AREA.--175 mi² (453 km²).

PERIOD OF RECORD.--July 1922 to December 1935, March 1950 to September 1961 (published as "at Amboy"), October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.30 ft (186.019 m) above mean sea level, unadjusted. Prior to Aug. 17, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--37 years, 255 ft³/s (7.222 m³/s), 19.79 in/yr (502.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,920 ft³/s (168 m³/s) May 13, gage height, 7.86 ft (2.396 m); minimum daily discharge, 7.0 ft³/s (0.20 m³/s) Aug. 26, 27, Sept. 15, 20.
Period of record: Maximum discharge, 17,000 ft³/s (481 m³/s) Jan. 22, 1959, gage height, 11.70 ft (3.566 m); maximum gage height, 12.94 ft (3.944 m) Mar. 4, 1934 (backwater from ice); minimum discharge, 0.2 ft³/s (0.006 m³/s) July 31, Aug. 1, 1933, Aug. 1, 2, 1934.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 714: 1926. WSP 784: 1933. WSP 1437: 1923-25(M), 1926-30, 1931-32(M), 1933, 1935(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	509	352	201	234	863	674	132	81	2,230	26	17
2	44	1,140	218	140	130	994	1,090	168	74	4,020	17	13
3	29	504	162	110	95	753	2,050	189	59	992	12	25
4	39	262	139	90	75	1,130	1,480	198	48	628	13	21
5	73	162	130	75	65	2,000	1,500	183	41	205	20	58
6	314	114	136	65	60	1,530	557	191	36	120	21	41
7	131	93	128	55	55	481	603	325	32	86	21	24
8	74	77	107	48	55	798	1,030	271	28	66	20	18
9	52	66	96	46	50	2,200	790	277	28	52	16	13
10	40	62	108	46	50	2,160	468	749	27	63	22	10
11	32	61	147	50	50	1,050	746	446	27	40	20	8.7
12	27	62	100	50	55	395	680	1,670	23	35	28	8.1
13	24	76	130	50	70	266	402	4,620	22	31	21	7.7
14	23	175	589	60	100	194	307	1,730	22	26	13	7.4
15	20	157	945	90	180	160	631	362	28	24	11	7.0
16	27	172	326	180	130	377	575	221	41	21	9.8	13
17	25	409	191	250	90	889	320	171	50	19	15	11
18	23	388	110	500	80	384	226	145	56	17	14	9.3
19	21	236	100	1,300	90	257	202	122	42	17	26	7.9
20	21	197	316	1,980	150	320	214	102	36	16	21	7.0
21	22	155	1,800	1,240	300	292	179	88	38	16	13	13
22	22	132	1,880	987	1,200	221	166	83	176	16	8.9	22
23	20	147	414	522	2,310	247	267	80	238	16	8.1	45
24	20	133	254	684	827	324	374	89	98	16	7.5	41
25	19	217	213	420	330	287	277	94	58	15	7.5	23
26	19	905	1,020	257	200	257	204	84	43	15	7.0	16
27	19	552	1,980	240	180	292	162	70	34	15	7.0	12
28	23	971	1,230	360	230	409	137	60	34	14	8.1	14
29	40	1,660	546	580	-----	508	125	69	38	54	15	11
30	160	1,060	337	664	-----	1,500	126	80	401	33	29	25
31	277	-----	266	336	-----	1,200	-----	104	-----	39	17	-----
TOTAL	1,762	10,854	14,470	11,676	7,441	22,738	16,562	13,173	1,959	8,957	494.9	549.1
MEAN	56.8	362	467	377	266	733	552	425	65.3	289	16.0	18.3
MAX	314	1,660	1,980	1,980	2,310	2,200	2,050	4,620	401	4,020	29	58
MIN	19	61	96	46	50	160	125	60	22	14	7.0	7.0
CFSM	.32	2.07	2.67	2.15	1.52	4.19	3.15	2.43	.37	1.65	.09	.10
IN.	.37	2.31	3.08	2.48	1.58	4.83	3.52	2.80	.42	1.90	.11	.12

CAL YR 1973 TOTAL 99,131.0 MEAN 272 MAX 2,140 MIN 10 CFSM 1.55 IN 21.07
WTR YR 1974 TOTAL 110,636.0 MEAN 303 MAX 4,620 MIN 7.0 CFSM 1.73 IN 23.52

PEAK DISCHARGE (BASE, 2,900 FT³/S)

DATE	TIME	G. H.	DISCHARGE
03-09	2400	6.15	2,930
05-13	1800	7.86	5,920
07-02	0600	7.66	5,520

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Beaver River basin						
*03092099	Hinkley Creek at Charlestown, Ohio	Lat 41°09'16", long 81°08'51", Portage County, at bridge on Rock Spring Road, 0.6 mile south of Charlestown, 2.2 miles upstream from mouth.	7.85	1969-74	8-29-74 9-11-74	53.9 .89
Little Beaver Creek basin						
03109100	Middle Fork Little Beaver Creek near Rogers, Ohio	Lat 40°43'22", long 80°38'03", Columbiana County, at bridge on State Highway 7, 0.4 mile upstream from West Fork Little Beaver Creek, 5 miles south of Rogers	149	1972-74	9-26-74	53.0
03109200	West Fork Little Beaver Creek at West Point, Ohio	Lat 40°42'38", long 80°41'49", Columbiana County, at bridge on U.S. Highway 30, 0.3 mile downstream from Patterson Creek, at West Point.	99.9	1959, 1972-74	8-27-74	8.36
03109400	North Fork Little Beaver Creek near Negley, Ohio	Lat 40°46'30", long 80°32'36", Columbiana County, at county road bridge at Achor, 0.5 mile downstream from Bull Creek, 1.1 miles south of Negley.	166	1959, 1972-74	9-26-74	76.2
Yellow Creek basin						
03110600	North Fork Yellow Creek at Hammondsville, Ohio	Lat 40°33'27", long 80°42'20", Jefferson County, at bridge on State Highway 213, at north edge of Hammondsville.	59.4	1959, 1962-74	8-27-74	2.34
Little Muskingum River basin						
03115300	Little Muskingum River near Rinard Mills, Ohio	Lat 39°36'25", long 81°07'21", Monroe County, at bridge on County Road 68, 1.5 miles upstream from Straight Fork, 2.3 miles northeast of Rinard Mills.	130	1972-74	8- 5-74	31.9
Duck Creek basin						
03115650	East Fork Duck Creek at Lower Salem, Ohio	Lat 39°34'26", long 81°23'25", Washington County, at bridge on Township Road 319, 0.9 mile northeast of Lower Salem, 1.0 mile upstream from Pawpaw Creek.	111	1959, 1972-74	8- 6-74	29.2
03115700	West Fork Duck Creek at Dexter City, Ohio	Lat 39°39'45", long 81°28'25", Noble County, at bridge on State Highway 821 at Dexter City, 0.7 mile upstream from Buffalo Run.	75.4	1965-69, 1972-74	8- 6-74	23.7
Muskingum River basin						
03115890	Tuscarawas River at Uniontown, Ohio	Lat 40°59'18", long 81°24'04", Stark County, at culvert on Pontius Street, 0.9 mile north of Uniontown.	8.26	1974	9-19-74	5.53
03115900	Tuscarawas River near East Liberty, Ohio	Lat 41°00'25", long 81°29'31", Summit County, at bridge on Arlington Road, 2.3 miles north of East Liberty.	33.1	1960-67, 1969-74	9-19-74	25.8
03115920	Tuscarawas River at Barberton, Ohio	Lat 41°01'40", long 81°35'15", Summit County, at bridge on East State Street in Barberton.	72.5	1947, 1951, 1974	9-18-74	32.1
03115990	Wolf Creek near Barberton, Ohio	Lat 41°02'56", long 81°36'00", Summit County, at bridge on Summit Road, 200 feet downstream from mouth of Pigeon Creek, 2.5 miles north of Barberton.	53.9	1950, 1960-61, 1974	9-18-74	12.6
03116080	Chippewa Creek at Sterling, Ohio	Lat 40°57'24", long 81°50'31", Wayne County, at bridge on County Road 60, 0.8 mile south of Sterling.	64.4	1974	9-18-74	10.2
03116410	Nimisila Creek near Canal Fulton, Ohio	Lat 40°54'57", long 81°33'43", Summit County, at bridge on State Highway 93, 2.5 miles northeast of Canal Fulton, Stark County.	23.1	1960-61, 1974	9-20-74	8.26

See footnotes at end of table, p. 213.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi).	Period of record	Measurements	
					Date	Discharge (cfs)
Muskingum River basin--Continued						
03117150	Sandy Creek at Minerva, Ohio	Lat 40°43'53", long 81°05'57", Stark County, at bridge on U.S. Highway 30 in Minerva.	61.9	1974	9-10-74	21.9
03117160	Still Fork near Minerva, Ohio	Lat 40°39'49", long 81°02'24", Carroll County, at bridge on State Highway 9, 1.4 miles downstream from Pipes Fork, 5.5 miles southeast of Minerva, Stark County.	36.2	1974	9-10-74	6.51
03118100	East Branch Nimishillen Creek near Canton, Ohio	Lat 40°49'24", long 81°17'55", Stark County, at bridge on Broadway Avenue, 1 mile east of Canton city limits, 3.5 miles upstream from Middle Branch Nimishillen Creek.	33.4	1974	9-11-74	11.8
03118300	West Branch Nimishillen Creek at Canton, Ohio	Lat 40°47'48", long 81°23'26", Stark County, at bridge on Sixth Street, 1.3 miles upstream from mouth at Canton.	43.9	1974	9- 9-74	24.4
03119580	Tuscarawas River at Zoar, Ohio	Lat 40°36'28", long 81°25'36", Tuscarawas County, at bridge on County Road 82, 0.5 mile southwest of Zoar, 3 miles upstream from Conotton Creek.	1,102	1974	9-11-74	568
*03119700	Conotton Creek at Jewett, Ohio	Lat 40°21'59", long 81°00'13", Harrison County, at bridge on State Highway 9, in Jewett.	14.3	1965-74	8- 9-74	5.31
03119900	Conotton Creek at Leesville, Ohio	Lat 40°26'44", long 81°11'49", Carroll County, at bridge on State Highway 164, 0.9 mile southeast of Leesville, 2.5 miles upstream from McGuire Creek.	87.1	1959, 1972-74	8-27-74	11.8
03121600	Conotton Creek at New Cumberland, Ohio	Lat 40°32'30", long 81°18'27", Tuscarawas County, at bridge on State Highway 212, 0.4 mile southwest of New Cumberland, 3.0 miles downstream from Indian Fork.	250	1935, 1965, 1974	9-11-74	382
03124520	Sugar Creek at Dover, Ohio	Lat 40°31'40", long 81°29'43", Tuscarawas County, at bridge on State Highway 39, 0.2 mile west of Dover city limits, 1.8 miles upstream from mouth.	348	1940, 1974	8-13-74	131
03127100	Crooked Creek near Stillwater, Ohio	Lat 40°18'29", long 81°19'26", Tuscarawas County, at bridge on State Highway 258, 0.7 mile upstream from mouth, 1.2 miles southwest of Stillwater.	47.5	1974	9-26-74	10.7
03128600	Little Stillwater Creek near Dennison, Ohio	Lat 40°24'19", long 81°17'18", Tuscarawas County, at county road bridge, 1.3 miles upstream from Irish Run, 2.5 miles east of Dennison.	96.4	1974	8-13-74	31.8
03128700	Tuscarawas River at Tuscarawas, Ohio	Lat 40°23'37", long 81°23'26", Tuscarawas County, at bridge on County Road 62, 0.4 mile east of Tuscarawas, 2.6 miles downstream from Stillwater Creek.	2,367	1974	8-13-74 8-26-74 9-24-74	1140 677 1550
03129100	White Eyes Creek near Fresno, Ohio	Lat 40°18'17", long 81°45'01", Coshocton County, at bridge on private road adjacent to State Highway 93, 2 miles south of Fresno.	52.1	1972-74	9-27-74	20.3
03129150	Tuscarawas River at Coshocton, Ohio	Lat 40°16'44", long 81°52'15", Coshocton County, at bridge on Bridge Street at Coshocton city limits, 0.3 mile upstream from junction with Walhonding River.	2,596	1974	8-12-74 9-26-74	1620 1580
03134300	Muddy Fork near Rowsburg, Ohio	Lat 40°50'10", long 82°08'16", Ashland County, at bridge on Township Road 1550, 1.8 miles southeast of Rowsburg.	66.2	1972-74	9-17-74	6.01
03138800	Killbuck Creek at Wooster, Ohio	Lat 40°48'03", long 81°58'30", Wayne County, at bridge on Old Mansfield Road, 2 miles northwest of Wooster.	128	1959, 1962-67, 1970-74	9-17-74	10.09
03140700	Buffalo Fork (head of Wills Creek) at Pleasant City, Ohio	Lat 39°54'15", long 81°33'14", Guernsey County, at bridge on State Highway 821, at Pleasant City, 0.2 mile upstream from Buffalo Creek.	71.1	1959, 1962-67, 1969-74	8- 7-74	39.0
03140800	Buffalo Creek at Pleasant City, Ohio	Lat 39°54'10", long 81°33'03", Guernsey County, at bridge on State Highway 146, at Pleasant City, just upstream from mouth.	49.9	1959, 1962-67, 1969-74	8- 7-74	12.1
03146250	North Fork Licking River above Newark, Ohio	Lat 40°06'19", long 82°25'02", Licking County, at American Aggregates plant, 1.3 miles downstream from Dry Creek, 1.5 miles upstream from Newark Water Supply plant.	224	1944, 1964, 1972-74	8-16-74	31.7
03148450	Jonathan Creek at East Fultonham, Ohio	Lat 39°51'20", long 82°07'35", Muskingum County, at bridge on old U.S. Highway 22, at East Fultonham, 1 mile upstream from Buckeye Fork.	125	1972-74	8-15-74	13.0
03149500	Salt Creek near Chandlersville, Ohio	Lat 39°54'31", long 81°51'38", Muskingum County, at bridge on State Highway 146, 1 mile upstream from Buffalo Fork, 2 miles northwest of Chandlersville.	75.7	1935-47, 1959, 1962-74	8- 7-74 8-15-74	10.6 6.96

See footnotes at end of table, p. 219.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Muskingum River basin--Continued						
03150480	West Branch Wolf Creek near Waterford, Ohio	Lat 39°31'43", long 81°39'22", Washington County, adjacent to State Highway 76, 400 ft upstream from South Branch, 1.2 miles southwest of Waterford.	144	1959, 1972-74	9-24-74	43.4
03150490	South Branch Wolf Creek near Waterford, Ohio	Lat 39°31'28", long 81°39'31", Washington County, at bridge on State Highway 76, 0.8 mile up- stream from mouth, 1.5 miles southwest of Waterford.	79.3	1972-74	8- 6-74	3.97
Little Hocking River basin						
03155800	Little Hocking River near Little Hocking, Ohio	Lat 39°17'38", long 81°41'17", Washington County, at bridge on county road, 2.2 miles north of Little Hocking, 3.2 miles upstream from mouth.	47.9	1959-60, 1962-74	8- 6-74	1.04
Leading Creek basin						
03160050	Leading Creek near Middleport, Ohio	Lat 39°00'31", long 82°05'07", Meigs County, at first private bridge 1.5 miles upstream from State Highway 7 bridge, 1.8 miles northwest of Middleport.	117	1956, 1962-74	9-12-74	13.2
Raccoon Creek basin						
03201990	Little Raccoon Creek near Vinton, Ohio	Lat 38°57'12", long 82°21'57", Gallia County, at bridge on State Highway 325, 1.2 miles up- stream from mouth, 2 miles southwest of Vinton.	154	1951-53, 1959, 1965, 1972-74	9-12-74	59.1
Indian Guyan Creek basin						
03205210	Indian Guyan Creek near Bradrick, Ohio	Lat 38°28'41", long 82°23'54", Lawrence County, at bridge on Township Road C-69, 200 ft up- stream from relocated Fourmile Creek, 2.5 miles north of Bradrick.	67.5	1972-74	9-13-74	28.9
Pine Creek basin						
03216640	Pine Creek near Wheelersburg, Ohio	Lat 38°39'12", long 82°48'09", Scioto County, at bridge on Junior Furnace-Powellville Road, 1.7 miles upstream from Poplar Fork, 6 miles southeast of Wheelersburg.	152	1972-74	9-13-74	33.7
Scioto River basin						
03228200	Big Walnut Creek above Sunbury, Ohio	Lat 40°15'04", long 82°50'46", Delaware County, at bridge on U.S. Highway 36, 0.5 mile down- stream from Perfect Creek, at Sunbury.	77.8	1972-74	8-16-74	0.04
03234080	North Fork Paint Creek near Frankfort, Ohio	Lat 39°26'11", long 83°13'22", Ross County, at bridge on State Highway 138 at Austin, 3.5 miles northwest of Frankfort.	151	1972-74	6-12-74 9-25-74	39.0 28.6
03235000	Salt Creek at Tarlton, Ohio	Lat 39°17'26", long 82°46'51", Pickaway County, at bridge on State Highway 159 in Tarlton.	11.5	1946-61, 1962-67, 1969-74	6- 5-74 7-30-74	5.29 .32
03235100	Salt Creek at Laurelville, Ohio	Lat 39°27'46", long 82°44'08", Hocking County, at bridge on Township Road 174, 200 ft up- stream from Brimstone Creek, 0.5 mile south of Laurelville.	106	1972-74	7-30-74 9-18-74	15.4 53.6
03237130	Scioto Brush Creek at Otway, Ohio	Lat 38°51'43", long 83°11'24", Scioto County, at bridge on State Highway 348, 600 ft up- stream from South Fork, at Otway.	94.4	1956, 1972-74	6- 6-74 7-31-74	56.5 2.66
03237150	South Fork Scioto Brush Creek at Wamsley, Ohio	Lat 38°49'54", long 83°16'42", Adams County, at bridge on State Highway 348, at Wamsley.	56.1	1972-74	6- 6-74 7-31-74 9-25-74	43.8 2.39 12.9
Ohio Brush Creek basin						
03237295	Ohio Brush Creek near Peebles, Ohio	Lat 38°58'06", long 83°25'34", Adams County, at bridge on State Highway 32, 1.6 miles up- stream from Little East Fork, 1.7 miles northwest of Peebles.	154	1959-60, 1972-74	6- 6-74 7-31-74 9-24-74	85.2 19.0 88.0
03237400	West Fork Ohio Brush Creek at Lawshe, Ohio	Lat 38°56'22", long 83°28'28", Adams County, at bridge on Township Road C-13 at Lawshe, 0.4 mile upstream from mouth.	134	1959-60, 1972-74	6- 6-74 7-31-74	45.2 1.00

See footnotes at end of table, p. 219.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Great Miami River basin						
03260620	Muchinippi Creek near Russells Point, Ohio	Lat 40°26'21", long 83°56'28", Logan County, at bridge on State Highway 274, 2.3 miles upstream from mouth, 3.5 miles southwest of Russells Point.	86.2	1959, 1972-74	5-16-74 7- 8-74 8-27-74 9-10-74	26.9 2.62 2.80 8.83
03262650	Spring Creek near Troy, Ohio <u>b/</u>	Lat 40°05'18", long 84°10'27", Miami County, adjacent to DeWeese Road, 600 ft south of Rusk Road, 2.5 miles upstream from mouth, 3 miles north-northeast of Troy.	21.0	1968-74	10-15-73 11-28-73 2-28-74 4-19-74 5-15-74 5-30-74 7-12-74 8-28-74 9- 9-74	7.82 142 32.6 14.1 5.27 22.8 3.46 1.10 1.45
03262900	Honey Creek near New Carlisle, Ohio <u>b/</u>	Lat 39°58'11", long 84°06'33", Miami County, at bridge on Rudy Road, 0.5 mile downstream from Indian Creek, 5 miles northwest of New Carlisle.	72.8	1969-74	5-15-74 7-12-74 9- 9-74 9-27-74	45.8 23.2 20.9 12.7
03267400	Cedar Run near Tremont City, Ohio	Lat 40°01'49", long 83°48'59", Champaign County, at bridge on private road, 900 ft north of County Line Road, 0.3 mile upstream from mouth, 1.6 miles northeast of Tremont City.	2.08	1972-74	5-16-74 5-28-74 7-25-74 9-17-74	9.78 10.2 5.57 7.84
03267600	Chapman Creek at Tremont City, Ohio	Lat 40°00'38", long 83°50'08", Clark County, at bridge on Upper Valley Pike, at Tremont City, 0.8 mile upstream from mouth.	24.0	1944, 1948, 1968-69#, 1971-74	5-16-74 5-28-74 7-25-74 9-17-74	9.49 14.8 3.56 4.45
03272700	Sevenmile Creek at Camden, Ohio <u>b/</u>	Lat 39°37'45", long 84°38'40", Preble County, at bridge on State Highway 725, at Camden, 0.3 mile downstream from Beasley Run.	69.0	1970-74	10-11-73 1-16-74 3-11-74 4-19-74 5-14-74 6-10-74 7-17-74	6.78 232 58.3 32.1 29.4 19.3 14.8
Wabash River basin						
03322480	Wabash River above Beaver Creek at Wabash, Ohio	Lat 40°32'44", long 84°44'29", Mercer County, at bridge on State Highway 29, 0.2 mile upstream from Crab Branch, 0.5 mile east of Wabash.	119	1959, 1972-74	10-10-73 5-16-74 7-26-74 9-10-74	3.35 29.7 3.02 6.33
Streams tributary to Lake Erie						
04177100	East Branch St. Joseph River near Pioneer, Ohio	Lat 41°39'56", long 84°32'31", Williams County, at bridge on U.S. Highway 20, 1.2 miles southeast of Pioneer.	158	1955-56, 1962-67, 1969-74	8-28-74	15.2
04177230	West Branch St. Joseph River near Pioneer, Ohio	Lat 41°39'14", long 84°34'20", Williams County, at bridge on U.S. Highway 20, 0.7 mile upstream from mouth 2 miles southwest of Pioneer.	113	1955-56, 1972-74	8-28-74	13.3
04177820	Fish Creek near Edgerton, Ohio	Lat 41°27'59", long 84°46'37", Williams County, at bridge on County Road C-60, 2 miles northwest of Edgerton, 2.7 miles upstream from mouth.	107	1972-74	7- 9-74 8-29-74	14.5 4.80
04185900	Auglaize River near Buckland, Ohio	Lat 40°39'11", long 84°15'35", Auglaize County, at bridge on National Road, 2 miles north of Buckland.	158	1955, 1961-67, 1969-74	8-26-74	5.40
04188300	Blanchard River at Mt. Blanchard, Ohio	Lat 40°53'28", long 83°33'50", Hancock County, at bridge on State Highway 103, 0.6 mile southwest of Mt. Blanchard, and 0.4 mile west of intersection with State Highway 37. <u>g/</u>	109	1970-74	6-19-74 8-20-74	4.03 1.17
04189180	Riley Creek near Ottawa, Ohio	Lat 41°00'00", long 84°00'00", Putnam County, at bridge on County Road K-6, 1.2 miles upstream from mouth, 3 miles southeast of Ottawa.	84.9	1955-56, 1972-74	8-20-74	2.02
04190400	Little Auglaize River near Melrose, Ohio	Lat 41°03'33", long 84°24'01", Paulding County, at bridge 0.4 mile upstream from Middle Creek, 2.2 miles southeast of Melrose.	186	1955-56, 1962-67, 1970-74	7- 3-74 8-28-74	2.42 4.28
04191100	Flatrock Creek near Payne, Ohio	Lat 41°05'57", long 84°40'06", Paulding County, at bridge on Township Road 71, 2 miles downstream from Wildcat Creek, 3.5 miles northeast of Payne.	147	1972-74	8-26-74	.20
04192600	South Turkeyfoot Creek near Malinta, Ohio	Lat 41°22'15", long 84°01'22", Henry County, at bridge on U.S. Highway 6, 1.8 miles upstream from Little Turkeyfoot Creek, 3.5 miles north of Malinta.	121	1955-56, 1972-74	8-29-74	0

See footnotes at end of table, p. 219.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Streams tributary to Lake Erie--Continued				
04192800	Beaver Creek near Grand Rapids, Ohio	Lat 41°23'37", long 83°50'42", Wood County, at bridge on Wintergreen Road, 1.8 miles southeast of Grand Rapids.	185	1955-56, 1962-74	8-21-74	3.14
04194400	South Branch Portage River near Six Points, Ohio	Lat 41°18'41", long 83°30'36", Wood County, at bridge on Greensburg Pike, 3 miles northeast of Six Points.	99.5	1959-74	6-18-74 8-21-74	15.4 9.44
04198010	Green Creek near Fremont, Ohio	Lat 41°23'36", long 83°01'35", Sandusky County, at bridge on U.S. Highway 6, 5 miles northeast of Fremont.	81.5	1959-74	8-21-74	14.0
04198020	West Branch Huron River near Monroeville, Ohio	Lat 41°16'46", long 82°40'32", Huron County, at bridge on Lamoreaux Road, 2.5 miles northeast of Monroeville, 2.5 miles upstream from mouth.	220	1960-74	8-21-74	18.6
04200050	West Branch Black River near Oberlin, Ohio	Lat 41°15'54", long 82°10'47", Lorain County, at bridge at corner of Kipton Nickel Plate Road and West Road, 2.5 miles southeast of Oberlin.	81.9	1960-74	8-21-74	8.43
04201400	West Branch Rocky River at West View, Ohio	Lat 41°21'03", long 81°54'12", on Cuyahoga-Lorain County line, at bridge on State Highway 252 at West View.	147	1951, 1960-74	8-23-74	12.8
04208900	Aurora Branch near Chagrin Falls, Ohio	Lat 41°24'40", long 81°24'44", Cuyahoga County, at bridge on Solcn Road, 1.0 miles upstream from mouth, 1.6 miles southwest of Chagrin Falls.	57.4	1953, 1972-74	8-21-74	26.0

* Also a crest-stage station.

* Operated as a continuous-record gaging station.

a Water quality records for the current year are published in part 2 of this report.

b Miami Conservancy District station, data furnished.

c Prior to 1970 water year, at site 1.2 miles downstream at bridge on Brooklyn Street (drainage area, 112 sq mi).

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

The following table contains annual maximum discharge for crest-stage stations. A crest-stage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (cfs)
Beaver River basin							
03089500	Mill Creek near Berlin Center, Ohio	Lat 41°00'01", long 80°58'07", Mahoning County, at bridge on county road, 1 mile upstream from flow line of Berlin Reservoir, 1.2 miles upstream from Turkeybroth Creek, 2 miles south- west of Berlin Center.	19.1	1942-71*, 5-13-74 1972-74	5.87	1,070	
*03092099	Hinkley Creek at Charlestown, Ohio	Lat 41°09'16", long 81°08'51", Portage County, at bridge on Rock Spring Road, 0.6 mile south of Charlestown, 2.2 miles upstream from mouth.	7.85	1970-74	1-19-74 12.44	630	
03094900	Walnut Creek at Cortland, Ohio	Lat 41°19'49", long 80°43'28", Trumbull County, at Main Street Bridge in Cortland, 1.8 miles upstream from mouth.	8.45	1947-74	5-13-74 3.96	650	
03098500	Mill Creek at Youngstown, Ohio	Lat 41°04'19", long 80°41'26", Mahoning County, 600 ft upstream from suspension bridge in Mill Creek Park at Youngstown, 1 mile down- stream from Newport Dam, 2.5 miles upstream from mouth.	66.3	1944-71*, 5-12-74 1972-74	4.84	1,770	
03098700	Crab Creek at Youngstown, Ohio	Lat 41°07'20", long 80°38'08", Mahoning County, at bridge on Hubbard Road at Youngstown, 2 miles upstream from mouth.	14.0	1959-74	1-19-74 7.02	830	
03102900	Clear Creek at Dilworth, Ohio	Lat 41°26'45", long 80°39'56", Trumbull County, at bridge on State Highway 170 at Dilworth, 1.1 miles south of Gustavus, 3 miles upstream from mouth.	1.13	1947-74	8-29-74 10.64	160	
Little Beaver Creek basin							
03109000	Lisbon Creek at Lisbon, Ohio	Lat 40°46'55", long 80°45'53", Columbiana County, at city water works of Lisbon, 800 feet upstream from bridge on State Highway 164.	6.19	1946-62*, 4- 2-74 1963-74	3.35	262	
Duck Creek basin							
03115600	Barnes Run near Summerfield, Ohio	Lat 39°46'20", long 81°22'26", Noble County, at bridge on county road adjacent to State Highway 78, 2.5 miles southwest of Summerfield.	3.46	1947-74	8- 3-74 10.64	490	
Muskingum River basin							
03119600	Jefferson Creek near Jewett, Ohio	Lat 40°22'57", long 80°58'36", Harrison County, at culvert adjacent to State Highway 9, 1.4 miles northeast of Jewett.	2.54	1947-74	-- <9.56	<37	
*03119700	Conotton Creek at Jewett, Ohio	Lat 40°21'59", long 81°00'13", Harrison County, at bridge on State Highway 9 in Jewett.	14.3	1947-74	12-21-73 10.11	230	
03123400	Dundee Creek at Dundee, Ohio	Lat 40°35'35", long 81°36'13", Tuscarawas County, at culvert on State Highway 93, 0.4 mile upstream from mouth, 0.5 mile northeast of Dundee.	.71	1966-74	4- 4-74 24.84	212	
03129300	Whetstone Creek tributary near Olivesburg, Ohio	Lat 40°53'15", long 82°24'25", Ashland County, at culvert on State Highway 96, 1.1 miles east of Olivesburg.	.236	1950-74	3-10-74 5.87	53	
03138900	Jennings Ditch tributary near Wooster, Ohio	Lat 40°44'45", long 81°55'48", Wayne County, at culvert on State Highway 83, 0.8 mile upstream from mouth, 4 miles south of Wooster.	.90	1946, 1966-74	5- 1-74 19.43	124	
03144800	Etna Creek at Etna, Ohio	Lat 39°58'08", long 82°40'55", Licking County, at culvert on State Highway 310, 0.7 mile north of Etna.	1.10	1966-74	11-27-73 12.43	158	
03145600	Otter Fork near Centerburg, Ohio	Lat 40°17'35", long 82°43'09", Knox County, at culvert on State Highway 3, 1.2 miles west of Centerburg.	3.17	1947-74	4- 4-74 12.38	128	
03147900	Timber Run near Zanesville, Ohio	Lat 39°57'00", long 82°03'07", Muskingum County, at bridge on private road adjacent to old U.S. Highway 40, 0.5 mile west of junction of Interstate 70 with old U.S. Highway 40, 2 miles west of Zanesville.	10.1	1947-74	8-29-74 13.14	1,150	

See footnotes at end of table, p. 224.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Dis-charge (cfs)
Muskingum River basin--Continued							
03148300	Morahala Creek at Roseville, Ohio	Lat 39°48'38", long 82°04'13", Muskingum County, at pumping station about 2,500 feet downstream from First Street bridge in Roseville.	80.6	1964-74	6-21-74	9.87	1,370
03150100	Bell Creek at McConnelsville, Ohio	Lat 39°38'50", long 81°50'36", Morgan County, at culvert on State Highway 60, 0.1 mile upstream from mouth, 0.5 mile east of McConnelsville.	1.07	1947-48, 1950-74	6-21-74	7.35	1,360
03150600	Tupper Creek at DeVola, Ohio	Lat 39°28'24", long 81°27'58", Washington County, at culvert on State Highway 60 at DeVola.	.99	1966-74	6-21-74	11.06	204
Hocking River basin							
03158100	Hayden Run at Haydenville Ohio	Lat 39°28'57", long 82°19'06", Hocking County, at culvert on U.S. Highway 33, 0.5 mile east of Haydenville.	1.04	1966-74	8-30-74	21.54	73
Scioto River basin							
03218000	Little Scioto River above Marion, Ohio	Lat 40°37'43", long 83°10'11", Marion County, at bridge on Chesapeake and Ohio Railway, 1 mile downstream from Rock Fork, 3.5 miles northwest of Marion.	72.4	1939-71*, 1972-74	1-19-74	6.20	1,330
03219600	Eagon Run near Warrensburg, Ohio	Lat 40°19'42", long 83°09'11", Delaware County, at Herbert Eagon farm, 0.9 mile upstream from mouth, 1.7 miles northeast of Warrensburg, 5 miles northwest of Delaware.	.123	1950-62*, 1963-74	4- 1-74	4.36	7.6
03221900	Dry Run at Columbus, Ohio	Lat 39°57'22", long 83°06'19", Franklin County, at culvert in Westinghouse employees parking lot at entrance to plant, 1,000 ft north of U.S. Highway 40, near west edge of Columbus,	1.72	1965-74	6-21-74	20.73	431
03226200	Delaware Run near Delaware, Ohio	Lat 40°18'28", long 83°06'35", Delaware County, at culvert on county highway, 400 feet south of State Highway 37, 1 mile west of Delaware Corporation line.	5.84	1947-74	1-19-74	10.64	155
03226850	Linworth Run near Linworth, Ohio	Lat 40°06'24", long 83°02'35", Franklin County, at culvert on Linworth Road, 0.4 mile upstream from mouth, 1.2 miles north of Linworth.	.40	1966-74	4- 3-74	22.01	160
03226890	Turkey Run at Upper Arlington, Ohio	Lat 40°02'10", long 83°04'06", Franklin County, at culvert on Lytham Road at Upper Arlington.	.90	1972-74	4- 3-74	16.93	260
03226900	Fishinger Road Creek at Upper Arlington, Ohio	Lat 40°01'27", long 83°02'38", Franklin County, at culvert on Kenny Road at Upper Arlington.	.45	1964-74	9-20-74	18.68	235
03228000	Scioto Big Run at Briggsdale, Ohio	Lat 39°54'56", long 83°03'55", Franklin County, at bridge on U.S. Highway 62 at Briggsdale, 2.8 miles northeast of Grove City, 4 miles upstream from mouth.	11.0	1947-58*, 1959-74	3-29-74	7.87	1,380
03230400	Big Darby Creek at Darbydale, Ohio	Lat 39°50'58", long 83°11'20", Franklin County, at McKinley Bridge at Darbydale.	449	1964-74	4- 4-74	12.35	5,900
*03230600	Hominy Creek at Circleville, Ohio	Lat 39°35'26", long 82°55'25", Pickaway County, at bridge adjacent to State Highway 56, 0.4 mile southeast of railroad crossing at east edge of Circleville.	5.66	1947-74	4- 2-74	4.85	375
03231600	East Fork Paint Creek near Sedalia, Ohio	Lat 39°42'36", long 83°27'48", Madison County, at culvert on State Highway 38, 1.8 miles southeast of Sedalia.	3.82	1947-74	3-30-74	11.45	125
03234100	Indian Creek at Massieville, Ohio	Lat 39°15'42", long 82°58'08", Ross County, at bridge adjacent to U.S. Highway 23, 0.2 mile south of Massieville.	9.60	1947-74	6-23-74	15.20	2,700
03235000	Salt Creek at Tarlton, Ohio	Lat 39°33'20", long 82°46'51", Pickaway County, at bridge on State Highway 159 at Tarlton.	11.5	1947-61*, 1962-74	4- 2-74	59.71	620
03235200	Little Blackjack Branch near South Bloomingville, Ohio	Lat 39°27'23", long 82°30'25", Hocking County, at culvert on State Highway 664, 5.5 miles northeast of South Bloomingville.	.89	1966-74	6-22-74	22.92	320

See footnotes at end of table, p. 224.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Scioto River basin--Continued							
03235400	West Branch Tar Hollow Creek at Tar Hollow State Park, Ohio	Lat 39°23'35", long 82°45'12", Ross County, in Tar Hollow State Park, 300 feet upstream from Tar Hollow Creek, 5 miles south of Adelphi.	0.305	1950-74	6-22-74	5.71	52
03235995	Salt Creek above damsite near Londonderry, Ohio	Lat 39°17'26", long 82°44'45", Vinton County, at bridge on State Highway 671, 0.5 mile east of Ross County line, 2.8 miles north-east of Londonderry.	268	1963-74	6-23-74	18.68	16,500
03236100	South Branch Little Salt Creek at Jackson, Ohio	Lat 39°02'38", long 82°38'35", Jackson County, at culvert adjacent to State Highway 139, 800 feet south of Jackson High School, 1 mile upstream from mouth.	3.76	1947-74	6-22-74	15.29	770
03237210	Rose Run near Portsmouth, Ohio	Lat 38°48'07", long 82°59'03", Scioto County, at culvert on U.S. Highway 23, 2.9 miles north of Portsmouth city limits.	1.04	1966-74	8-29-74	15.54	99
Ohio Brush Creek basin							
03237300	West Branch Turkey Run near Winchester, Ohio	Lat 38°56'56", long 83°40'19", Adams County, at culvert on State Highway 32, 1.3 miles west of Winchester.	.89	1956-74	5-23-74	12.24	184
Whiteoak Creek basin							
03238400	Harwood Creek near Fayetteville, Ohio	Lat 39°07'51", long 83°51'00", Brown County, at culvert on State Highway 131, 0.2 mile west of junction of State Highways 131 and 134, 6 miles southeast of Fayetteville.	.88	1966-74	11-25-73	21.38	305
03238600	Higgins Run near Higginsport, Ohio	Lat 38°49'10", long 83°57'28", Brown County, at culvert on State Highway 221, 150 feet upstream from mouth, 2 miles north of Higginsport.	.55	1966-74	6-22-74	23.63	780
Ray Run basin							
03238700	Ray Run near Moscow, Ohio	Lat 38°51'15", long 84°12'00", Clermont County, at culvert on State Highway 743, 1.5 miles east of Moscow.	.86	1966-74	6-22-74	26.04	780
Little Miami River basin							
03239000	Little Miami River near Selma, Ohio	Lat 39°48'36", long 83°44'21", Clark County, at bridge on Selma Pike, 2.3 miles north-west of Selma, 3.1 miles upstream from North Fork.	48.9	1952-58#, 1959-74	4- 4-74	6.73	1,100
03239500	North Fork Little Miami River near Pitchin, Ohio	Lat 39°49'40", long 83°46'38", Clark County, at bridge on county road, 1.1 miles upstream from Goose Creek, 1.3 miles southwest of Pitchin.	28.9	1952-58#, 1959-74	4- 4-74	4.48	290
03241600	Shawnee Creek at Xenia, Ohio	Lat 39°40'32", long 83°55'32", Greene County, at bridge on U.S. Highway 68, 0.7 mile southeast of intersection with U.S. Highway 42 in Xenia.	4.21	1948-74	6-22-74	12.90	315
03242100	Wayne Creek at Waynesville, Ohio	Lat 39°31'08", long 84°04'47", Warren County, at culvert on State Highway 73, 0.8 mile southeast of intersection of State Highway 73 and U.S. Highway 42 at Waynesville.	1.01	1966-74	6-21-74	28.56	880
03247100	Patterson Run near Owensville, Ohio	Lat 39°07'38", long 84°06'44", Clermont County, at bridge on private road, 200 feet north of U.S. Highway 50, 0.5 mile upstream from Brushy Fork, 1.2 miles east of Owensville.	3.34	1947-74	10- 1-73	4.23	622
Great Miami River basin							
03262750	Millers Ditch at Tipp City, Ohio	Lat 39°57'59", long 84°10'22", Miami County, at culvert on 4th Street in Tipp City.	0.83	1966-74	1-10-74	11.06	42
03263100	Poplar Creek near Vandalia, Ohio	Lat 39°52'10", long 84°11'21", Montgomery County, at culvert on Interstate Highway 75, 1.2 miles upstream from mouth, 1.5 miles southeast of Vandalia.	3.11	1947-74	5-17-74	4.22	439
03263700	Bridge Creek near Greenville, Ohio	Lat 40°04'13", long 84°37'45", Darke County, at culvert on State Highway 49, 2.2 miles south of Greenville.	4.83	1947-74	4- 4-74	11.95	135
03265100	Hog Run tributary at Laura, Ohio	Lat 40°00'30", long 84°25'26", Miami County, at culvert on State Highway 571, 0.3 mile upstream from mouth, 1 mile northwest of Laura.	.463	1950-74	3- 7-74	5.15	14
03268300	Beaver Creek at Brighton, Ohio	Lat 39°55'46", long 83°34'04", Clark County, at culvert on U.S. Highway 40, 0.2 mile west of Brighton.	3.33	1959-74	4- 2-74	10.88	330

See footnotes at end of table, p. 224.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Dis-charge (cfs)
Great Miami River basin--Continued							
03272800	Sevensmile Creek at Collinsville, Ohio	Lat 39°31'23", long 84°36'39", Butler County, at bridge, 0.3 mile north of Collinsville and 5.5 miles upstream from mouth.	120	1960-72 ^a , 1973-74	6-23-74	6.60	5,000
03272900	Collins Creek at Collinsville, Ohio	Lat 39°31'05", long 84°36'53", Butler County, at culvert on U.S. Highway 127, 0.3 mile upstream from mouth, 0.4 mile northwest of Collinsville.	.94	1966-74	6-23-74	19.32	123
03274100	Blake Run near Reily, Ohio	Lat 39°27'59", long 84°45'22", Butler County, 600 feet upstream from culvert on Stevenson Road, 2.2 miles north of Reily, 3 miles upstream from mouth.	.29	1939-40, 1942-43, 1947-74	11-25-73	2.63	20
Streams tributary to Lake Erie							
04176900	Hill Ditch near Richards, Ohio	Lat 41°39'56", long 83°40'05", Lucas County, at culvert on U.S. Highway 20, 1.4 miles west of Richards, 3.4 miles north of intersection of U.S. Highway 20 and State Highway 2.	3.35	1947-74	3- 4-74	11.99	117
04177400	Eagle Creek tributary near Montpelier, Ohio	Lat 41°35'10", long 84°40'50", Williams County, at culvert on State Highway 107, 3.5 miles west of Montpelier.	1.84	1950-74	3- 5-74	9.39	22
04186800	King Run near Harrod, Ohio	Lat 40°43'56", long 83°53'47", Allen County, at culvert on U.S. Highway 30 South, 0.9 mile west of Allen-Hardin County line, 2.2 miles northeast of Harrod.	.53	1966-74	4- 4-74 ^a /23.46	b/55	
04189100	Tiderishi Creek near Jenera, Ohio	Lat 40°55'53", long 83°43'39", Hancock County, at culvert on State Highway 698, 2.2 miles north of Jenera.	4.65	1947-74	1-18-74	13.75	270
04190500	Roller Creek at Ohio City, Ohio	Lat 40°46'16", long 84°38'15", Van Wert County, at bridge on county road, 0.8 mile west of Ohio City.	5.14	1947-48 ^a , 1949-74	11-28-73	7.40	195
04192900	Reitz Run at Waterville, Ohio	Lat 41°29'50", long 83°42'35", Wood County, at culvert on State Highways 64 and 65, 0.1 mile upstream from mouth, 0.5 mile southeast of Waterville.	1.06	1966-74	12-25-73	17.86	18
04196700	St. James Run near Upper Sandusky, Ohio	Lat 40°46'53", long 83°18'05", Wyandot County, 500 ft upstream from bridge on State Highway 67, 3.5 miles south-west of Upper Sandusky.	5.29	1947-74	1-19-74	12.76	320
04197100	Honey Creek at Melmore, Ohio	Lat 41°01'20", long 83°06'35", Seneca County, at bridge on State Highways 67 and 100 at Melmore, 1.5 miles upstream from Buckeye Creek.	149	1961-74	2-20-74	9.25	3,280
04197300	Wolf Creek at Bettsville, Ohio	Lat 41°14'58", long 83°14'08", Seneca County, at bridge on State Highway 590 at Bettsville, 3.5 miles upstream from East Branch Wolf Creek.	66.2	1961-74	4- 4-74	6.38	1,550
04197400	East Branch Wolf Creek at Fort Seneca, Ohio	Lat 41°12'40", long 83°10'50", Seneca County, at bridge on County Road 30, 0.8 mile west of Fort Seneca, 2.2 miles downstream from Snuff Creek.	70.1	1961-74	4- 4-74	11.37	1,750
04197500	Havens Creek at Havens, Ohio	Lat 41°17'36", long 83°11'50", Sandusky County, at bridge on County Road 12, 0.8 mile southwest of Havens, 1.8 miles upstream from mouth.	4.28	1947-49 ^a , 1950-74	4- 4-74	4.60	51
04198100	Norwalk Creek near Norwalk, Ohio	Lat 41°13'58", long 82°32'28", Huron County, at bridge on county road, 300 feet south of junction of State Highways 601 and 18, 4 miles southeast of Norwalk, 6 miles upstream from mouth.	4.92	1947-74	1-19-74	12.04	83
04199800	Neff Run near Litchfield, Ohio	Lat 41°12'33", long 82°01'26", Lorain County, at culvert on State Highway 76, 0.7 mile north of county line, 2.8 miles north of Litchfield.	.76	1966-74	1-18-74	19.10	73
04200100	Plum Creek at Oberlin, Ohio	Lat 41°17'15", long 82°13'12", Lorain County, at bridge on Professor Street in Oberlin.	4.83	1947-74	4- 4-74	12.52	270

See footnotes on end of table, p. 224.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (cfs)
Streams tributary to Lake Erie--Continued							
04210090	Montville Ditch at Montville, Ohio	Lat 41°36'04", long 81°03'03", Geauga County, at culvert on State Highway 528, 0.4 mile south of Montville.	.29	1969-74	4- 4-74	11.04	50
04210100	Hoskins Creek at Hartsgrove, Ohio	Lat 41°36'00", long 80°57'12", Ashtabula County, at culvert on State Highway 534, 0.4 mile south of Hartsgrove, 4,000 feet downstream from former site.	5.42	1947-74	5-13-74	7.89	220
04212600	Hubbard Run tributary at Ashtabula, Ohio	Lat 41°50'38", long 80°46'42", Ashtabula County, at culvert on Seven Hills Road, 0.5 mile upstream from mouth, 1.6 miles south of center of Ashtabula.	.88	1966-74	4- 4-74	17.42	150

* Also a low-flow partial-record station.

* Operated as a continuous-record station.

< Less than.

a Backwater from debris in culbert.

b Estimated.

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†).

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date Discharge (cfs)
Part 3					
Muskingum River basin					
Tuscarawas River	Muskingum River	Lat 40°50'25", long 81°31'26", Stark County, at bridge on county road, 0.8 mile south-east of Crystal Springs, Ohio, 0.9 mile downstream from Mudbrook Creek.	436	1922-29*, 1960-61	8-27-74 *119 9-25-74 *132 9-27-74 *121
Tuscarawas River	Muskingum River	Lat 40°43'36", long 81°31'47", Stark County, at Navarre water treatment plant, just upstream from Wolf Creek, 800 ft upstream from bridge on Elton Road at Navarre, Ohio, 1.2 miles downstream from Pigeon Run, 3.5 miles downstream from gaging station at Massillon.	534	-	9-25-74 *a199
Tuscarawas River	Muskingum River	Lat 40°38'33", long 81°26'56", Tuscarawas County, at bridge on State Highway 212, 0.5 mile southeast of center of Bolivar, Ohio, 1.4 miles downstream from Sandy Creek.	1,090	1954	8-14-74 1,570 8-26-74 *438 9-25-74 *539
Georges Run tributary	Georges Run	Lat 39°58'34", long 81°47'31", Muskingum County, at bridge on county road at Sundale, 0.6 mile upstream from mouth.	0.74	-	6-21-74 †520
Scioto River basin					
Scioto River	Ohio River	Lat 39°49'03", long 83°00'55", Franklin County, at Columbus Southerly Sewage Disposal plant, 1.3 miles southwest of Shadeville, Ohio, 1.4 miles upstream from Big Walnut Creek.	1,697	-	9-20-74 *476
Laurel Run	Salt Creek	Lat 39°28'25", long 82°44'29", Hocking County, at bridge on State Highway 180 at Laurelville, Ohio	54.4	1956, 1968	6- 5-74 *39.1
Scioto River	Ohio River	Lat 39°04'15", long 83°01'00", Pike County, at bridge on U.S. Highway 23 in Piketon, Ohio.	5,836	1949, 1953-54, 1962-69, 1971, 1973	4- 5-74 29,900
Little Miami River basin					
Turtle Creek	Little Miami River	Lat 39°25'52", long 84°12'15", Warren County, at bridge on East Street in Lebanon, Ohio.	12.5	-	6-22-74 †6,640
North Branch Turtle Creek	Turtle Creek	Lat 39°26'08", long 84°12'35", Warren County, upstream from bridge on West Silver Street, 0.3 mile upstream from mouth in Lebanon, Ohio.	6.56	-	6-22-74 †3,360
Dry Run	Turtle Creek	Lat 39°22'42", long 84°13'06", Warren County, 500 feet north of northern city limits of South Lebanon, 0.9 mile upstream from mouth.	6.67	-	6-22-74 †5,310
Little Miami River	Ohio River	Lat 39°12'38", long 84°17'33", Hamilton County, at bridge on State Highway 126, 0.4 mile south-east of Miamiville, Ohio, 1.0 mile north of Camp Dennison, 4.2 miles upstream from gaging station at Milford, 5.6 miles upstream from East Fork Little Miami River.	1,189	-	9-19-74 *613
Mill Creek basin					
West Fork Mill Creek	Mill Creek	Lat 39°13'35", long 84°27'20", Hamilton County, at bridge on Lock Street in Lockland, Ohio, 1.2 miles upstream from mouth.	35.6	1938-57*, 1968, 1972-73	10-16-73 4.22 7-12-74 2.38
Great Miami River basin					
Great Miami River	Ohio River	Lat 40°09'03", long 84°13'44", Miami County, at Ash Street (U.S. Highway 36) Bridge in Piqua, Ohio. <u>b/</u>	866	1914, 1915-17*, 1948, 1962-72	10-22-73 *138 1-29-74 3,580
Spring Creek	Great Miami River	Lat 40°05'18", long 84°10'27", Miami County, adjacent to DeWeese Road, 600 feet south of Rusk Road, 2.5 miles upstream from mouth, 3 miles north-northeast of Troy, Ohio. <u>b/</u>	21.0	1968-73	1-18-74 162
Wolf Creek	Great Miami River	Lat 39°46'00", long 84°14'12", Montgomery County, at bridge on West Riverview Avenue in Dayton, Ohio, 1.8 miles upstream from mouth. <u>b/</u>	68.7	1913, 1939-50*, 1953-73	11-20-73 *13.7 1-17-74 365 3-13-74 *41.7
Bear Creek	Great Miami River	Lat 39°40'23", long 84°18'38", Montgomery County, at bridge on Farmersville-West Carrollton Road, 0.2 mile south of Ellerton, Ohio, 1.2 miles upstream from mouth. <u>b/</u>	37.8	1959, 1962-73	11-20-73 *7.24 1-24-74 103
Great Miami River	Ohio River	Lat 39°36'39", long 84°17'28", Montgomery County, at Chautauqua Road bridge, 2 miles south of Miamisburg, Ohio, 2.5 miles downstream from gaging station at Miamisburg.	2,715	1924	9-17-74 *1,080

See footnotes at end of table, p. 227.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Great Miami River basin--Continued						
Clear Creek	Great Miami River	Lat 39°33'06", long 84°18'18", Warren County, at bridge on Shaker Road at south edge of Franklin, Ohio, 1.6 miles upstream from mouth. <u>b/</u>	51.5	1959, 1961-73	10-11-73	*8.78
					10-25-73	*4.71
					1-14-74	41.5
					4-25-74	*31.2
					6- 6-74	*11.6
					6-22-74	*12,000
					7-16-74	*8.03
					8-26-74	*3.83
	9-12-74	626				
Dicks Creek	Great Miami River	Lat 39°28'25", long 84°23'51", Butler County, at bridge on Yankee Road, 1.3 miles southeast of Excello, Ohio, 2.5 miles upstream from mouth. <u>b/</u>	44.7	1959, 1961-72	1-24-74	130
					3-8-74	*36.9
Great Miami River	Ohio River	Lat 39°31'10", long 84°24'30", Butler County, at Central Avenue Bridge in Middletown, Ohio. <u>b/</u>	3,134	1957-59, 1961, 1964, 1967-71	6- 7-74	1,400
Great Miami River	Ohio River	Lat 39°15'47", long 84°40'04", Hamilton County, at bridge on Little Rock Road at New Baltimore, Ohio. <u>b/</u>	3,814	1961-72	9-18-74	*1,760

See footnotes at end of table, p. 227

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Part 4

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
Part 4 Streams tributary to lake Erie						
Ottawa River	Lake Erie	Lat 41°39'51", long 83°36'03", Lucas County, in Ottawa Park, 0.2 mile northwest of St. Francis Desale High School, 1.2 mile downstream from old gage site, at Toledo, Ohio.	151	-	9-23-74	*3.27
Maumee River	Lake Erie	Lat 41°16'43", long 84°23'07", Defiance County, at waterworks on right bank at Defiance, Ohio, about 300 ft upstream from Tiffin River, 1.8 miles upstream from Auglaize River.	2,316	-	8-28-74	*149
Tiffin River	Maumee River	Lat 41°25'38", long 84°23'22", Defiance County, at bridge on State Highway 191, 1,300 ft downstream from Brush Creek, 0.4 mile east of center of Evansport, Ohio, 6.5 miles downstream from Beaver Creek.	541	-	8-29-74	*26.5
Miami and Erie Canal	Jennings Creek	Lat 40°51'35", long 84°20'25", on Van Wert-Putnam County Line, at bridge on Pohlman Road, 0.9 mile north of Delphos, Ohio	-	1928-33*, 11-29-73 1934-35, 3-12-74 1945-73 5- 7-74 7- 3-74 8-26-74	9.33 9.48 1.99 4.33 1.23	
Auglaize River	Maumee River	Lat 41°01'08", long 84°17'20", Putnam County, at old bridge abutment, 0.2 mile upstream from bridge on State Highway 114, 0.8 mile east of Cloverdale, Ohio, 2.5 miles upstream from Blanchard River, 4.3 miles downstream from Ottawa River.	713	-	8-27-74	*35.0
Swan Creek	Maumee River	Lat 41°37'08", long 83°37'48", Lucas County, 1,200 ft upstream from bridge on Byrne Road, 2.5 miles upstream from old gage, at Toledo, Ohio.	197	-	9-22-74	*3.07
Swan Creek	Maumee River	Lat 41°37'56", long 83°35'15", Lucas County, at footbridge in Highland Park, 0.8 mile downstream from old gaging station, 4.3 miles upstream from mouth, at Toledo, Ohio.	200	-	9-22-74	*3.95
Middle Branch Portage River	Portage River	Lat 41°20'19", long 83°33'10", Wood County, at bridge on Bloomdale Road, 3.4 miles upstream from South Branch Portage River, 5 miles downstream from Rocky Ford, 6 miles east northeast of Portage, Ohio.	217	-	8-21-74	*3.89
Sandusky River	Lake Erie	Lat 41°01'49", long 83°12'56", Seneca County, at St. Johns Bridge on Seneca County Highway 6, 100 ft downstream from dam, 2.5 miles upstream from gaging station, 4.5 miles northwest of Mexico, Ohio, 6.5 miles upstream from Honey Creek.	771	-	7-25-74	*18.1
West Branch Huron River	Huron River	Lat 41°05'28", long 82°39'04", Huron County, at bridge on Maple Ridge Road, 2.0 miles downstream from Walnut Creek, 4.5 miles northeast of Willard, Ohio.	86.0	-	8-21-74	*12.0
East Branch Black River	Black River	Lat 41°15'51", long 82°03'39", Lorain County, at bridge on Crook Street at south edge of Grafton, Ohio, 14 miles upstream from West Branch Black River.	170	-	8-20-74	*29.5
West Branch Black River	Black River	Lat 41°20'10", long 82°07'15", Lorain County, on right abutment of private dam, 200 ft upstream from bridge on U.S. Highway 20, 1.8 miles south from center of Elyria, Ohio, 4 miles upstream from confluence with East Branch Black River.	170	-	8-20-74	*28.5
Black River	Lake Erie	Lat 41°24'42", long 82°05'45", Lorain County, at Ford Road Bridge on north edge of Elyria, Ohio, 0.7 mile downstream from sewage disposal plant, 5.2 miles downstream from gaging station at Elyria.	412	-	8-20-74	*154
Grand River	Lake Erie	Lat 41°43'08", long 81°13'41", Lake County, at bridge on State Highway 84, (Walnut Avenue) in Painesville, Ohio, 0.9 mile downstream from Big Creek.	685	1964	8-13-74	*119

* Base flow.

† Peak flow.

* Operated as a continuous-record gaging station.

a Water-quality records for the current year are published in Part 2 of this report.

b Data furnished by the Miami Conservancy District.

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