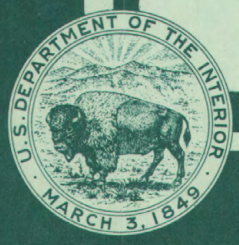
1972

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 1972

OCTOBER 1971

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER 1971

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

DECEMBER 1971

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JANUARY 1972

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY 1972

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29				

MARCH 1972

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL 1972

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY 1972

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE 1972

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY 1972

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST 1972

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER 1972

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

1972

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 Highways
Ohio Department of Natural Resources, Division of Water
Miami Conservancy District
City of Columbus, Department of Public Service
Corps of Engineers, U. S. Army

Water resources records, 1972, 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
U.S. Geological Survey
975 W. Third Avenue
Columbus, Ohio 43212

1973

CONTENTS

ILLUSTRATIONS

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

WATER RESOURCES DATA FOR OHIO, 1972

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1972 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 and their locations shown in figure 1. Records for a few pertinent gaging stations in bordering States also are included. 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. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Ohio.

Through September 30, 1960, the records of discharge and stage of streams and canals and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States."

Beginning with the 1961 water year, surface-water records have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The discharge and reservoir storage records for 1961-65 were also published in a Geological Survey water-supply paper series entitled "Surface Water Supply of the United States 1961-65."

COOPERATION

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

Ohio Department of Natural Resources, William B. Nye, director, and Roy Winkle, chief, Division of Water.

Ohio Department of Highways, J. Phillip Richley, director.

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

City of Columbus, Department of Public Service, W. J. Cremean, director, succeeded by Richard D. Jackson.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 127 gaging stations published in this report, and by the Environmental Protection Agency, in collecting records for one gaging station 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.

DEFINITION OF TERMS

Definition of terms related to streamflow and other hydrologic data, as used in this report, are defined as follows:

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 325,851 gallons.

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, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume 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) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

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

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.) 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 amount of water flowing in a channel, expressed as volume per unit of time.

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 man-made 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 NUMBERS

Records 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 indention, each indention 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 continuous-record 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 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, includes the part number "03" and a 6-digit station number. In this report, complete number 03156400 appears just to the left of the station name. In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could 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 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 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 a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. 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 on the measurement of stream discharge. (See also SELECTED REFERENCES.)

For a stream-gaging station rating tables giving the discharge for any stage are prepared from stage-discharge relation curves de-

fined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, 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 application of the daily mean gage heights to the rating table gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. 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 determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changes 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 determining discharge. Information required for determining 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 determining 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. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements.

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 basic data. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on 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 1972 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, and general remarks. 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 reference to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" and all supplementary adjustments 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 the minimum contents), and the minimum gage height (or elevation) if it is significant are given under "EXTREMES." The minimum daily dsicharge 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 infromation 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 are 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 tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with non-recording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The monthly summary for stream-gaging stations is given below the daily table. The line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" given 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 of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion.

For reservoir stations the monthly summary gives the elevation and contents at the end of the month and the change in contents during the month.

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.

For reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

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 00300 and 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE" certain periods are indicated 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 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. Footnotes to reservoir tables may be used to explain the use of new capacity tables or for other special conditions.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is un-

stable, 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 is within 5 percent; "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, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. 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 (consumptive use, evaporation, seepage, etc.) 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 station in Ohio for the period October 1960 to September 1965 are in Water-Supply Papers 1907, 1908, and 1912.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Papers 1305(3A) and 1307(4), records for October 1950 to September 1960 have been compiled and published in Water-Supply Papers 1725(3A) and 1727(4). 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.

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

Data collected at partial-record stations and at 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 measurement 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. Occasionally, a series of discharge measurements are made within a short time period to determine the low-flow characteristics of an area. Such measurements are given in special tables following the tables of partial-record stations and miscellaneous sites.

More detailed information 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. Many gaging-station records in Ohio through 1967 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year. Ten of the longer records have been analyzed to give the lowest daily discharge not exceeded during selected numbers of consecutive days (deficiency tables). Discharge records for 50 stations have also been analyzed to provide the data for plotting flow-volume curves.

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.

HYDROLOGIC CONDITIONS

Streamflow for the water year was near or slightly above average. Discharges were generally below normal during the first half of the year and above normal during the second half. Runoff was deficient in November in the Little Beaver Creek basin and in

February in the Great Miami River basin.

Streamflow was excessive in the Little Beaver Creek basin in March. During April a series of heavy thunderstorms caused moderate rises on many streams, and runoff for the month was excessive at all index stations. Locally intense thunderstorms caused flooding on small streams during April, June, and September. Streamflow was excessive at one or more of the index stations each of the last seven months of the year.

Figure 2, on page 12, for which three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges during the 1972 water year with the monthly and yearly median discharges for the period 1931-60.

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 24 sites during the water year 1972 by the following agencies: Records at 23 sites were collected by the National Weather Service; and by the Corps of Engineers, U.S. Army, at 1 site. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Washington, D. C., 20242, maintains an index of these sites. Information on records at specific sites can be obtained from that office upon request.

SELECTED REFERENCES

Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.

Corbett, D. M., and others, 1943, Stream-gaging procedure, 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.

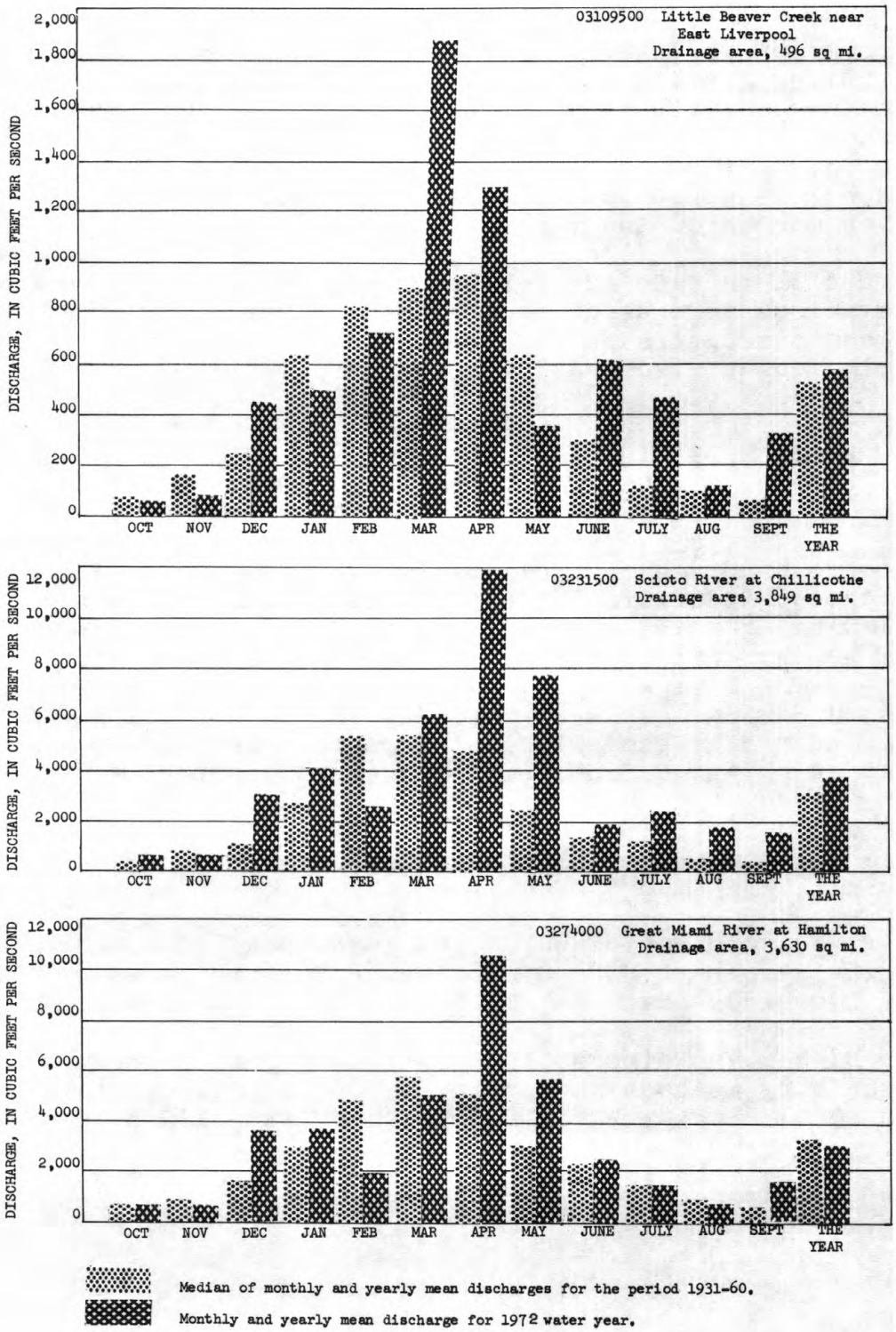


FIGURE 2.--RUNOFF DURING 1972 WATER YEAR COMPARED WITH MEDIAN RUNOFF FOR THE PERIOD 1931-60 FOR THREE REPRESENTATIVE GAGING STATIONS.

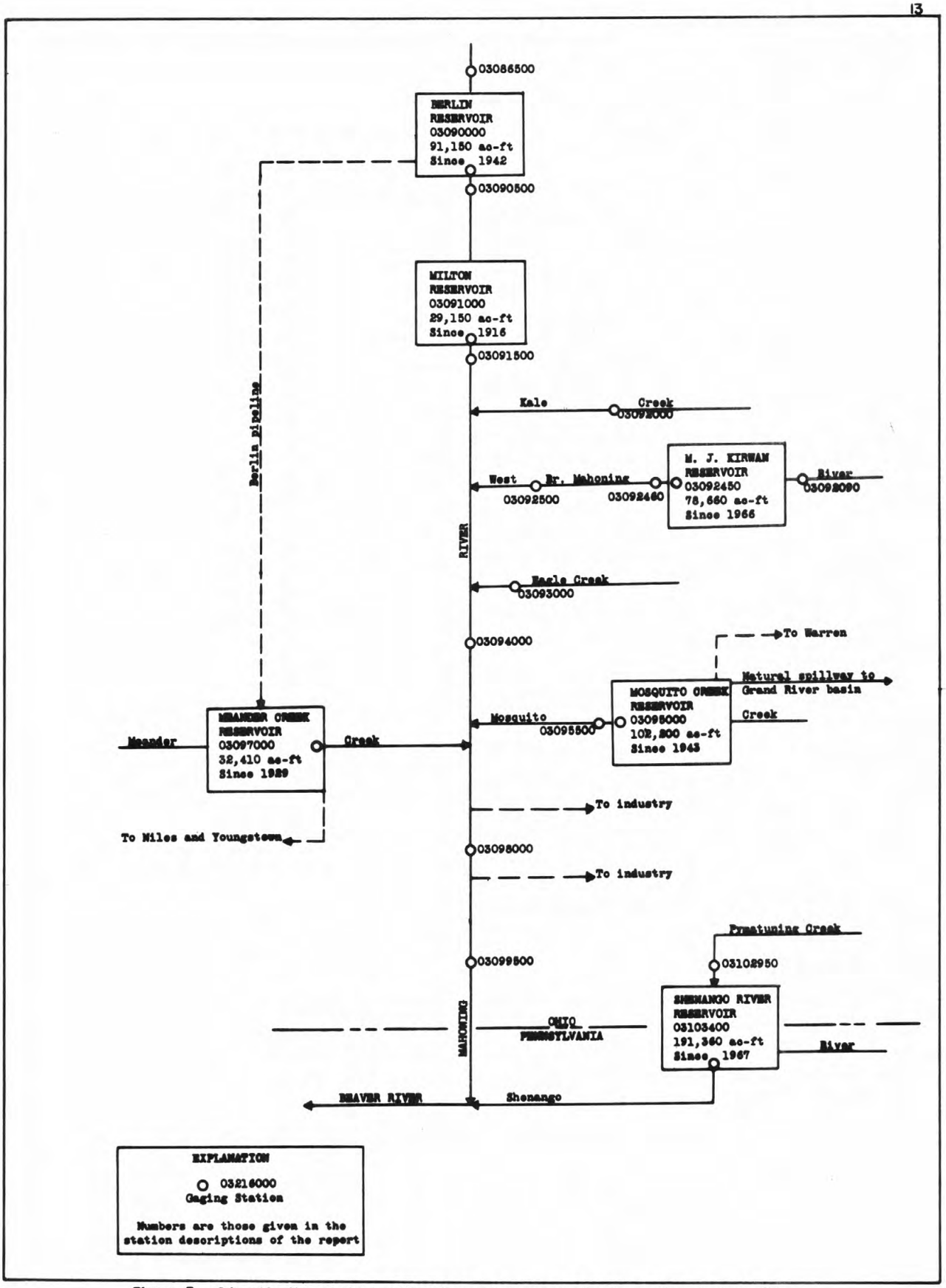


Figure 3.--Schematic diagram showing diversions and storage in the Beaver River basin in Ohio.

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 upstream from Webb Avenue Bridge in Alliance, 0.2 mile upstream from waterworks dam, and 4 miles upstream from Beech Creek.

DRAINAGE AREA.--89.2 sq mi.

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

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

AVERAGE DISCHARGE.--31 years, 79.6 cfs (12.12 inches per year) unadjusted for diversion 1941-55.

EXTREMES.--Current year: Maximum discharge, 1,240 cfs Apr. 17 (gage height, 3.71 ft); minimum, 6.1 cfs Nov. 2, 3; minimum gage height, 1.51 ft several days in August and September.
Period of record: Maximum discharge, 9,740 cfs Jan. 21, 1959 (gage height, 9.11 ft), from rating curve extended above 3,300 cfs on basis of computation of peak flow over dam; no flow at times.

REMARKS.--Records good. Flow slightly regulated by Westville Reservoir 9.3 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	9.7	26	220	20	407	69	57	26	24	9.3	7.9
2	20	9.7	16	130	22	690	69	86	31	20	9.3	7.9
3	20	7.2	11	153	34	656	69	253	24	166	9.3	53
4	20	8.4	11	107	39	314	66	145	20	196	9.3	29
5	20	8.4	9.7	122	42	179	66	93	16	111	7.9	14
6	20	9.7	57	92	37	110	63	69	14	157	7.9	11
7	24	9.7	201	64	34	137	145	57	12	73	9.3	11
8	22	11	210	54	30	482	134	53	12	50	9.3	11
9	26	11	92	51	28	309	100	141	14	47	9.3	9.3
10	24	11	71	92	26	145	93	166	16	50	7.9	11
11	22	11	61	107	24	118	79	93	14	53	6.7	11
12	22	11	34	82	26	179	63	66	11	34	6.7	20
13	24	11	26	71	39	724	196	50	16	44	7.9	57
14	24	11	34	114	75	934	205	53	20	157	7.9	464
15	22	11	175	61	118	703	335	53	34	122	6.7	696
16	22	11	162	40	175	458	560	47	122	273	6.7	179
17	20	11	82	30	134	597	1,040	47	69	215	24	69
18	18	11	54	28	122	390	452	44	34	79	18	330
19	18	18	39	39	96	205	183	29	22	47	16	379
20	18	16	42	37	61	141	357	29	20	166	12	107
21	18	20	48	39	71	122	523	24	18	53	9.3	60
22	18	22	39	39	134	215	268	22	22	31	7.9	41
23	16	18	31	92	103	298	224	22	111	24	7.9	34
24	18	16	31	153	85	170	145	20	162	20	9.3	31
25	20	18	31	118	75	130	104	20	149	16	7.9	29
26	18	18	31	57	114	104	79	18	111	14	36	31
27	9.7	20	37	45	96	93	63	16	63	14	22	31
28	9.7	26	57	30	137	83	57	14	39	12	12	31
29	9.7	37	68	26	273	76	50	12	29	11	9.3	29
30	9.7	48	210	24	------	79	47	22	29	9.3	9.3	83
31	9.7	------	505	22	------	73	------	16	------	9.3	9.3	------
TOTAL	584.5	460.8	2,501.7	2,339	2,270	9,321	5,904	1,837	1,280	2,297.6	341.6	2,877.1
MEAN	18.9	15.4	80.7	75.5	78.3	301	197	59.3	42.7	74.1	11.0	95.9
MAX	26	48	505	220	273	934	1,040	253	162	273	36	696
MIN	9.7	7.2	9.7	22	20	73	47	12	11	9.3	6.7	7.9
CFSM	.21	.17	.90	.85	.88	3.37	2.21	.66	.48	.83	.12	1.08
IN.	.24	.19	1.04	.98	.95	3.89	2.46	.77	.53	.96	.14	1.20

CAL YR 1971 TOTAL 24,781.8 MEAN 67.9 MAX 1,900 MIN 4.3 CFSM .76 IN 10.34
WTR YR 1972 TOTAL 32,014.3 MEAN 87.5 MAX 1,040 MIN 6.7 CFSM .98 IN 13.35

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	2200	3.56	1,110	4-17	0700	3.71	1,240

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 downstream from Berlin Dam and 3.2 miles northwest of Berlin Center.

DRAINAGE AREA.--248 sq mi.

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 above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1942, at site 1.8 miles upstream at datum 966.15 ft above mean sea level, adjustment of 1912 (levels by Mahoning Valley Sanitary District). Oct. 1, 1942, to May 11, 1949, at site 200 ft downstream from present site at datum 8.00 ft lower than present datum.

AVERAGE DISCHARGE.--42 years, 218 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,220 cfs Apr. 21 (gage height, 4.62 ft); minimum daily, 1.3 cfs July 27.
Period of record: Maximum discharge, 8,630 cfs Jan. 25, 1937 (gage height, 10.97 ft, 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.--Eleven 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	23	22	24	26	224	215	26	220	113	444	207
2	38	23	22	24	25	376	215	27	211	113	444	220
3	23	23	22	24	25	710	215	30	199	113	444	220
4	23	23	22	24	25	1,040	175	113	199	113	448	220
5	23	23	22	24	26	1,030	143	215	203	113	448	220
6	23	23	23	24	26	1,000	143	215	187	228	346	220
7	24	23	24	24	26	702	143	215	195	310	251	215
8	23	23	23	24	26	406	143	215	195	310	251	215
9	23	23	23	24	26	412	143	220	195	182	251	215
10	24	23	22	25	26	478	143	215	195	5.7	251	215
11	24	23	22	25	26	532	143	295	165	14	256	215
12	24	23	23	25	26	532	143	376	52	220	256	260
13	24	23	23	25	26	558	147	346	147	430	256	310
14	24	23	23	25	26	590	147	316	143	448	256	310
15	24	23	24	25	26	614	155	270	147	364	256	316
16	24	23	23	25	26	622	151	224	147	334	256	328
17	24	23	23	25	26	638	285	224	147	624	256	346
18	24	23	23	25	26	638	1,060	224	151	910	256	346
19	24	23	23	25	26	934	1,940	147	120	1,060	215	454
20	24	23	23	25	26	1,220	1,010	69	93	1,040	143	646
21	24	22	23	25	26	1,050	1,290	100	109	1,040	195	726
22	24	22	23	25	27	902	1,910	175	117	1,020	300	662
23	24	23	23	25	26	902	1,700	220	117	1,000	251	590
24	24	23	23	25	26	894	1,820	220	117	934	199	590
25	24	23	23	25	38	742	1,770	220	117	554	199	590
26	24	22	23	26	87	598	1,450	220	117	3.7	199	582
27	23	22	23	26	171	442	1,160	220	113	1.3	199	582
28	23	22	23	25	207	300	646	220	113	189	199	582
29	23	22	23	26	211	300	54	220	113	444	199	582
30	23	22	28	26	------	295	27	220	113	444	199	582
31	23	------	24	26	------	251	------	224	------	444	199	------
TOTAL	799	683	714	771	1,336	19,932	18,686	6,241	4,457	13,118.7	8,322	11,766
MEAN	25.8	22.8	23.0	24.9	46.1	643	623	201	149	423	268	392
MAX	76	23	28	26	211	1,220	1,940	376	220	1,060	448	726
MIN	23	22	22	24	25	224	27	26	52	1.3	143	207
(+)	22.3	22.9	20.7	5.14	0	0	0	0	0	0	0	0

CAL YR 1971 TOTAL 69,321.50 MEAN 187 MAX 3,150 MIN 0 (+) 11.2
WTR YR 1972 TOTAL 86,825.70 MEAN 237 MAX 1,940 MIN 1.3 (+) 5.95

+ Mean diversion in cubic feet per second; furnished by 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 mile downstream from Milton Dam, 0.5 mile southwest of Pricetown, and 3 miles upstream from Kale Creek.

DRAINAGE AREA.--273 sq mi.

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

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

AVERAGE DISCHARGE.--43 years, 240 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,380 cfs Apr. 22 (gage height, 7.42 ft); minimum, 52 cfs Dec. 2. Period of record: Maximum discharge, 6,770 cfs Jan. 25, 1937 (gage height, 15.01 ft), from rating curve extended above 4,200 cfs on basis of velocity-area studies; minimum, 0.4 cfs 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.--Twenty-two 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	100	60	54	59	62	284	261	199	138	421	197
2	62	100	56	54	59	64	284	62	182	138	421	197
3	62	100	53	53	60	63	284	63	174	139	421	197
4	62	100	53	54	59	63	189	217	172	138	420	197
5	62	100	53	54	59	63	136	367	172	142	371	197
6	62	102	54	54	59	64	136	370	169	140	319	197
7	62	102	55	54	59	372	136	370	167	140	315	197
8	62	100	53	54	58	613	136	272	167	181	301	197
9	62	100	53	54	58	610	136	197	167	226	301	197
10	62	100	53	54	58	746	136	199	165	239	264	194
11	62	100	53	54	58	892	136	202	165	237	215	194
12	62	100	53	53	58	884	136	275	165	294	212	220
13	104	100	53	53	58	791	142	331	163	333	212	293
14	127	100	53	53	59	603	167	331	149	334	212	298
15	125	100	54	55	59	602	199	334	149	334	212	301
16	125	102	53	62	59	716	192	334	149	487	212	316
17	125	100	53	62	59	890	403	346	149	743	212	319
18	125	100	53	63	59	951	928	355	151	1,090	212	385
19	125	100	54	62	58	1,150	1,190	194	151	1,200	212	497
20	125	100	53	62	58	1,140	1,190	86	151	1,200	212	525
21	127	102	53	62	58	1,150	1,090	153	150	1,210	212	644
22	127	100	53	62	58	1,150	2,150	217	151	1,210	212	728
23	127	93	53	62	58	1,140	1,860	209	151	1,200	212	728
24	127	86	53	62	58	1,140	1,870	204	149	1,090	212	728
25	127	86	53	62	58	801	1,830	207	135	738	212	724
26	125	86	53	61	58	586	1,690	204	135	460	212	724
27	109	86	53	60	58	398	1,290	212	135	322	212	720
28	100	86	53	59	59	281	1,180	215	136	319	212	716
29	100	86	53	59	60	283	974	212	137	378	207	716
30	100	69	58	59	------	284	684	209	138	421	197	712
31	100	------	54	59	------	284	------	204	------	421	197	------
TOTAL	2,994	2,886	1,664	1,785	1,698	18,836	21,158	7,412	4,693	15,642	7,974	12,455
MEAN	96.6	96.2	53.7	57.6	58.6	608	705	239	156	505	257	415
MAX	127	102	60	63	60	1,150	2,150	370	199	1,210	421	728
MIN	62	69	53	53	58	62	136	62	135	138	197	194

CAL YR 1971 TOTAL 74,167 MEAN 203 MAX 2,650 MIN 24
WTR YR 1972 TOTAL 99,197 MEAN 271 MAX 2,150 MIN 53

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 mile north of Mahoning-Trumbull County line, 1.5 miles northwest of Pricetown, 2.2 miles upstream from mouth, and 3.5 miles south of Newton Falls.

DRAINAGE AREA.--21.9 sq mi.

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 above mean sea level, adjustment of 1912. Prior to June 27, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 20.8 cfs (12.90 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,780 cfs Apr. 15 (gage height, 6.50 ft); minimum, 0.13 cfs Sept. 10, 11, 12.
Period of record: Maximum discharge, 3,890 cfs Jan. 21, 1959 (gage height, 8.52 ft); 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.2	12	40	.88	220	3.9	3.9	4.9	5.2	.66	.21
2	1.6	1.1	6.2	23	.96	361	3.9	6.2	4.4	3.2	.59	.19
3	2.0	1.0	3.5	26	1.3	136	4.7	35	3.9	33	.59	.19
4	2.5	.88	2.3	23	2.8	66	5.2	29	3.3	125	.53	.17
5	2.3	.81	1.8	35	3.3	34	5.7	14	2.3	63	.47	.15
6	2.3	.70	23	22	2.8	18	4.9	8.8	1.9	191	.41	.17
7	3.0	.70	177	9.5	2.5	40	12	6.2	1.5	34	.44	.15
8	3.2	.66	188	5.2	2.0	263	18	6.6	1.2	12	.53	.17
9	3.7	.62	38	4.9	1.8	54	9.9	90	1.2	7.5	.53	.15
10	5.7	.59	17	21	1.6	26	8.1	82	1.2	17	.47	.15
11	6.6	.53	12	35	1.5	23	6.2	24	1.1	47	.44	.13
12	5.2	.50	8.5	18	1.5	30	3.7	12	1.1	11	.41	.17
13	4.2	.47	4.7	10	2.2	300	277	7.8	1.6	7.9	.41	.51
14	3.9	.47	7.6	7.8	6.6	385	108	7.5	2.0	78	.41	3.3
15	3.9	.41	190	4.9	38	129	992	11	2.6	21	.38	4.4
16	3.7	.38	110	2.5	70	95	278	9.9	5.7	625	.35	1.8
17	3.3	.41	24	1.3	44	202	190	8.8	9.9	336	.38	.75
18	3.0	.38	12	1.0	27	54	48	7.5	4.2	29	.47	2.9
19	2.6	.44	7.2	1.8	19	25	22	6.2	2.6	8.8	.47	2.0
20	2.3	.47	7.5	2.5	13	14	292	4.7	2.0	4.4	.41	1.0
21	2.2	.53	22	3.3	11	9.5	132	3.7	1.9	2.6	.38	.59
22	2.2	.53	15	3.9	30	54	158	3.0	2.6	1.9	.35	.41
23	2.2	.81	6.6	13	33	75	98	2.3	16	1.5	.41	.35
24	2.0	.88	4.4	27	14	27	30	1.8	60	1.2	.44	.41
25	2.3	.88	3.9	21	9.2	18	16	1.5	40	1.0	.30	.47
26	2.3	.81	3.7	12	17	11	9.9	1.2	32	.96	.33	1.1
27	2.2	.88	6.0	3.7	19	9.5	6.9	1.0	13	.88	.41	4.3
28	1.8	1.3	14	2.0	32	5.7	4.7	1.0	5.7	.88	.38	3.2
29	1.6	1.3	17	1.4	141	4.4	3.9	1.0	3.7	.81	.33	1.1
30	1.4	8.1	326	1.1	------	4.9	3.5	1.2	6.6	.70	.25	3.4
31	1.4	------	303	.96	------	5.4	------	3.3	------	.66	.23	------
TOTAL	99.2	28.74	1,573.9	383.76	548.94	2,699.4	2,756.1	402.1	240.1	1,672.09	13.16	33.99
MEAN	2.88	.96	50.8	12.4	18.9	87.1	91.9	13.0	8.00	53.9	.42	1.13
MAX	6.6	8.1	326	40	141	385	992	90	60	625	.66	4.4
MIN	1.4	.38	1.8	.96	.88	4.4	3.5	1.0	1.1	.66	.23	.13
CFSM	.13	.04	2.32	.57	.86	3.98	4.20	.59	.37	2.46	.02	.05
IN.	.15	.05	2.67	.65	.93	4.59	4.68	.68	.41	2.84	.02	.06

CAL YR 1971 TOTAL 7,261.31 MEAN 19.9 MAX 592 MIN .30 CFSM .91 IN 12.33
WTR YR 1972 TOTAL 10,441.48 MEAN 28.5 MAX 992 MIN .13 CFSM 1.30 IN 17.74

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	2330	5.28	902	4-15	1130	6.50	1,780
3-13	2100	4.83	672	4-20	1900	4.54	584
4-13	1900	4.49	542	7-16	2000	6.16	1,510

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 miles east of Ravenna.

DRAINAGE AREA.--21.8 sq mi.

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

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

AVERAGE DISCHARGE.--7 years, 24.2 cfs (15.08 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,090 cfs Apr. 15 (gage height, 8.81 ft); minimum, 0.45 cfs Sept. 11.
Period of record: Maximum discharge, 2,090 cfs Apr. 15, 1972 (gage height, 8.81 ft): minimum, 0.45 cfs Sept. 11, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	2.7	57	45	5.6	250	17	31	10	12	1.5	.99
2	9.9	3.6	29	34	6.2	346	21	47	17	6.2	1.4	.99
3	6.9	3.8	20	31	11	100	20	58	11	37	1.5	1.1
4	5.6	4.0	16	31	16	48	20	32	6.2	23	1.6	.99
5	4.6	3.6	15	35	14	30	18	24	4.3	30	1.3	.99
6	3.8	3.6	250	22	10	22	15	18	3.4	38	1.3	.99
7	7.2	5.0	422	17	8.4	47	23	15	3.0	18	1.5	.86
8	9.5	5.0	208	14	7.7	175	19	22	2.3	12	1.9	.99
9	16	4.6	61	18	7.2	42	17	176	2.7	9.5	2.3	.99
10	59	5.0	41	54	6.7	27	17	69	3.4	12	2.3	.86
11	23	5.0	38	49	6.5	25	15	32	3.8	8.7	1.9	.73
12	13	5.0	26	29	7.0	37	12	22	2.3	5.9	1.6	1.4
13	9.1	4.3	20	23	15	236	48	17	5.9	3.6	1.5	4.6
14	6.9	3.8	53	20	25	268	32	24	6.6	3.2	1.2	20
15	5.6	4.6	283	14	37	105	1,020	28	5.9	4.3	1.4	12
16	4.3	4.6	106	8.0	42	119	263	56	17	22	1.3	4.3
17	3.8	4.6	40	6.9	32	136	139	35	7.2	17	4.3	2.3
18	3.4	4.0	26	7.6	25	54	55	26	3.6	8.0	2.7	29
19	3.2	5.6	22	16	22	32	40	19	2.7	4.6	3.2	23
20	3.0	7.2	32	17	18	24	172	14	2.5	3.4	2.5	7.6
21	3.0	11	53	19	16	22	73	12	3.0	2.3	2.3	5.0
22	3.2	17	31	18	33	123	156	9.5	4.3	1.9	1.5	3.0
23	3.4	17	19	32	28	78	70	7.6	29	1.6	1.8	2.7
24	4.0	16	18	28	18	40	41	5.9	32	2.1	1.9	3.0
25	5.0	17	17	23	16	36	32	4.3	39	1.8	1.5	3.2
26	5.3	19	20	15	18	29	26	3.2	28	1.8	1.8	29
27	4.6	25	26	8.7	17	23	21	2.7	15	2.7	1.5	39
28	4.0	48	37	7.6	23	19	18	2.3	8.7	2.3	1.6	17
29	3.6	66	26	6.9	128	17	16	2.3	11	1.6	1.4	11
30	3.4	167	346	6.2	------	22	14	5.9	26	1.6	1.3	199
31	3.2	------	155	5.6	------	18	------	16	------	1.4	1.1	------
TOTAL	257.5	492.6	2,513	661.5	619.3	2,550	2,450	836.7	316.8	299.5	55.9	426.58
MEAN	8.31	16.4	81.1	21.3	21.4	82.3	81.7	27.0	10.6	9.66	1.80	14.2
MAX	59	167	422	54	128	346	1,020	176	39	38	4.3	199
MIN	3.0	2.7	15	5.6	5.6	17	12	2.3	2.3	1.4	1.1	.73
CFSM	.38	.75	3.72	.98	.98	3.78	3.75	1.24	.49	.44	.08	.65
IN.	.44	.84	4.29	1.13	1.06	4.35	4.18	1.43	.54	.51	.10	.73

CAL YR 1971 TOTAL 9,848.30 MEAN 27.0 MAX 422 MIN .86 CFSM 1.24 IN 16.81
WTR YR 1972 TOTAL 11,479.38 MEAN 31.4 MAX 1,020 MIN .73 CFSM 1.44 IN 19.59

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2330	5.54	505	3-2	0200	5.57	512
12-7	1700	5.60	520	4-15	1000	8.81	2,090
12-30	1430	6.04	642				

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 upstream from bridge on Wayland Road, 0.4 mile downstream from Michael J. Kirwan Dam, and 0.2 mile south of Wayland.

DRAINAGE AREA.--81.7 sq mi.

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 above mean sea level, levels by Corps of Engineers. Prior to October 1971 at datum 0.89 ft higher.

EXTREMES.--Current year: Maximum discharge, 994 cfs Apr. 20 (gage height, 10.30 ft); minimum, 1.5 cfs July 13. Period of record: Maximum discharge, 1,380 cfs Feb. 25, 1971 (gage height, 11.82 ft present datum); minimum, 1.3 cfs 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.--Fifteen discharge measurements furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	21	19	22	72	23	22	184	63	87	16	94
2	129	22	19	22	72	25	22	144	62	87	15	94
3	131	22	19	22	72	21	22	146	62	87	15	94
4	131	22	18	22	72	20	22	111	62	61	15	93
5	133	21	18	22	72	20	22	64	62	52	15	93
6	134	21	28	21	53	19	22	45	68	41	15	92
7	134	21	38	20	35	22	23	45	79	30	22	92
8	125	21	23	20	37	23	22	46	79	30	36	92
9	119	21	102	20	48	20	22	97	79	30	37	92
10	94	20	190	20	70	20	22	146	79	30	43	92
11	45	20	289	18	70	20	22	144	79	30	72	92
12	21	20	380	18	70	20	22	144	90	30	95	93
13	21	19	378	18	72	33	27	144	102	17	95	75
14	21	19	386	18	50	25	88	143	102	16	96	58
15	21	19	407	18	22	20	255	143	102	16	96	56
16	21	19	444	21	20	56	167	98	91	21	96	47
17	21	19	502	20	20	81	292	45	83	17	96	38
18	20	19	498	18	20	107	733	45	83	16	96	39
19	21	20	493	17	19	171	967	45	91	16	96	25
20	21	20	439	17	19	193	630	44	95	16	96	16
21	22	20	324	17	19	193	460	52	88	16	96	16
22	21	20	211	16	20	201	651	62	78	16	96	16
23	22	20	103	17	19	285	690	62	59	16	96	16
24	22	20	72	17	19	395	960	62	31	16	96	17
25	23	20	50	21	19	402	947	62	31	16	96	17
26	22	20	23	25	19	297	859	72	31	16	96	18
27	20	21	23	18	19	188	635	82	30	16	95	17
28	20	20	23	17	21	167	373	82	54	16	95	17
29	21	21	22	17	21	110	237	82	89	16	95	17
30	20	22	51	47	------	50	227	82	89	16	95	22
31	21	------	24	74	------	22	------	72	------	16	95	------
TOTAL	1,726	610	5,616	680	1,161	3,249	9,463	2,795	2,193	906	2,214	1,640
MEAN	55.7	20.3	181	21.9	40.0	105	315	90.2	73.1	29.2	71.4	54.7
MAX	134	22	502	74	72	402	967	194	102	87	96	94
MIN	20	19	18	16	19	19	22	44	30	16	15	16

CAL YR 1971 TOTAL 34,289 MEAN 93.9 MAX 1,120 MIN 14
WTR YR 1972 TOTAL 32,253 MEAN 88.1 MAX 967 MIN 15

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., Trumbull County, on right bank 250 ft downstream from bridge on Newton Falls Road, 2.5 miles southwest of Newton Falls, 6 miles upstream from mouth, and 5 miles downstream from Michael J. Kirwan Dam.

DRAINAGE AREA.--96.3 sq mi.

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

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

AVERAGE DISCHARGE.--46 years, 94.4 cfs.

EXTREMES.--Current year: Maximum discharge, 1,480 cfs Apr. 15 (gage height, 8.02 ft); minimum, 6.7 cfs Jan. 25, 26.
Period of record: Maximum discharge, 8,340 cfs Jan. 22, 1959 (gage height, 13.60 ft); minimum, 2.1 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	21	39	55	83	109	29	191	66	93	20	96
2	140	21	29	46	80	165	30	151	67	88	20	96
3	140	23	25	48	81	80	30	166	65	147	20	96
4	140	22	23	45	84	49	31	141	63	110	20	96
5	140	21	23	51	90	37	30	85	62	88	20	96
6	140	21	75	38	76	32	29	52	63	118	20	95
7	142	21	230	31	48	50	37	49	79	49	21	95
8	138	21	184	29	50	138	34	51	79	37	42	95
9	129	22	95	30	61	47	31	145	79	35	42	95
10	125	21	190	46	104	36	31	179	80	35	43	95
11	74	21	236	43	97	33	29	153	79	34	68	95
12	28	21	356	34	96	41	28	146	83	33	96	95
13	25	21	353	30	96	182	99	143	104	27	97	90
14	24	21	366	29	83	195	97	144	102	17	96	66
15	24	28	528	33	49	95	883	146	103	19	96	63
16	24	24	462	34	44	114	339	122	101	91	96	55
17	24	22	488	23	38	172	308	51	84	60	97	39
18	24	22	474	22	36	132	598	49	82	30	96	40
19	24	22	467	25	33	173	905	46	86	23	97	35
20	24	23	443	25	31	191	934	44	96	22	96	19
21	24	24	348	28	27	190	395	47	90	21	96	19
22	24	28	236	27	26	225	735	62	79	20	96	19
23	24	25	134	33	26	264	588	62	87	20	96	19
24	24	25	89	34	28	373	899	62	44	20	96	21
25	24	25	77	30	27	373	903	60	43	20	96	20
26	24	25	31	22	34	320	864	65	39	20	97	23
27	23	28	34	22	33	191	644	80	34	21	96	28
28	21	35	41	19	38	180	404	80	42	21	96	22
29	21	35	38	35	84	138	219	80	87	20	96	20
30	21	55	292	25	------	81	206	83	103	20	96	40
31	21	------	154	90	------	31	------	82	------	20	96	------
TOTAL	1,922	744	6,560	1,082	1,683	4,437	10,389	3,017	2,271	1,379	2,260	1,783
MEAN	62.0	24.8	212	34.9	58.0	143	346	97.3	75.7	44.5	72.9	59.4
MAX	142	55	528	90	104	373	934	191	104	147	97	96
MIN	21	21	23	19	26	31	28	44	34	17	20	19

CAL YR 1971 TOTAL 39,291 MEAN 108 MAX 1,310 MIN 21
WTR YR 1972 TOTAL 37,527 MEAN 103 MAX 934 MIN 17

03093000 Eagle Creek at Phalanx Station, Ohio

LOCATION.--Lat 41°15'40", long 80°57'16", Trumbull County, on right bank 75 ft downstream from county road bridge, 1 mile north of Phalanx Station, 2 miles downstream from Tinkers Creek, and 4 miles upstream from mouth.

DRAINAGE AREA.--97.6 sq mi.

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 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.--43 years, 103 cfs (14.34 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,650 cfs Apr. 15 (gage height, 12.38 ft); minimum, 7.6 cfs Sept. 8.
Period of record: Maximum discharge, 6,700 cfs Jan. 22, 1959 (gage height, 13.12 ft); minimum, 0.6 cfs Aug. 4, 1939; minimum daily, 0.9 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	26	339	430	30	496	86	52	71	50	14	9.5
2	37	23	177	225	31	1,200	97	94	48	36	14	12
3	29	24	105	193	38	953	101	162	41	49	14	10
4	24	21	78	167	72	443	98	180	34	99	15	10
5	18	21	65	167	77	246	105	103	27	64	14	11
6	15	23	148	139	64	170	88	67	22	153	13	11
7	26	28	889	109	48	167	91	48	21	102	14	10
8	55	29	1,460	82	44	467	101	48	20	54	15	8.5
9	44	28	575	78	40	444	87	223	18	39	16	8.5
10	150	28	275	142	38	208	83	426	20	36	16	10
11	170	31	201	202	36	147	79	216	21	36	17	11
12	78	30	171	167	37	162	71	109	17	30	14	9.0
13	50	28	131	122	44	301	101	70	25	46	14	12
14	38	27	120	105	95	844	154	72	44	35	13	33
15	33	31	467	83	154	722	1,210	90	34	32	12	48
16	31	35	844	60	206	403	1,910	127	123	50	10	22
17	29	32	364	44	224	554	738	130	94	93	10	17
18	25	28	198	38	171	392	407	109	44	51	10	274
19	21	29	146	59	142	236	234	85	29	35	16	644
20	20	36	136	76	106	170	255	68	24	32	15	156
21	19	45	195	75	95	141	444	56	22	25	14	57
22	21	66	197	72	135	206	350	49	24	24	9.5	35
23	22	74	127	104	150	433	502	40	66	24	13	31
24	28	51	100	130	131	269	281	35	150	28	13	31
25	31	47	95	117	98	202	164	30	139	19	12	34
26	32	52	88	73	96	171	120	26	117	18	10	43
27	31	76	109	61	88	142	90	25	75	18	13	199
28	28	124	132	42	97	118	68	22	46	19	13	197
29	25	155	160	36	198	99	55	22	34	19	9.5	100
30	28	225	316	34	------	113	52	21	48	18	8.5	182
31	26	------	1,340	32	------	102	------	91	------	20	8.5	------
TOTAL	1,241	1,473	9,748	3,464	2,785	10,721	8,222	2,896	1,498	1,354	400.0	2,235.5
MEAN	40.0	49.1	314	112	96.0	346	274	93.4	49.9	43.7	12.9	74.5
MAX	170	225	1,460	430	224	1,200	1,910	426	150	153	17	644
MIN	15	21	65	32	30	99	52	21	17	18	8.5	8.5
CFSM	.41	.50	3.22	1.15	.98	3.55	2.81	.96	.51	.45	.13	.76
IN.	.47	.56	3.72	1.32	1.06	4.09	3.13	1.10	.57	.52	.15	.85

CAL YR 1971 TOTAL 42,748.5 MEAN 117 MAX 1,710 MIN 5.9 CFSM 1.20 IN 16.29
WTR YR 1972 TOTAL 46,037.5 MEAN 126 MAX 1,910 MIN 8.5 CFSM 1.29 IN 17.55

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	1130	11.34	1,770	3-2	1800	10.46	1,750
12-31	0900	11.15	1,860	4-15	2300	12.38	3,650

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 downstream from Duck Creek and 1.2 miles downstream from Eagle Creek.

DRAINAGE AREA.--575 sq mi.

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 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 downstream at same datum.

AVERAGE DISCHARGE.--32 years, 531 cfs.

EXTREMES.--Current year: Maximum discharge, 7,140 cfs Apr. 16 (gage height, 13.82 ft); minimum, 140 cfs Oct. 13, Jan. 29, Feb. 9.
Period of record: Maximum discharge, 20,300 cfs Jan. 22, 1959 (gage height, 19.37 ft); minimum, 55 cfs July 7, 1952.
Flood of Mar. 26, 1913 reached a stage of about 24 ft. Flood of Jan. 25 or 26, 1937, reached a stage of 17.8 ft.

REMARKS.--Records good. Flow regulated by Berlin Lake (25 miles upstream), beginning in 1942, by Milton Reservoir (17 miles upstream), and by Michael J. Kirwan Reservoir (20 miles 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.--Seven discharge measurements furnished by Corps of Engineers.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	269	175	414	1,240	204	1,040	459	866	359	324	454	307
2	244	178	321	589	205	1,940	456	435	334	298	450	310
3	229	191	223	474	222	1,890	462	553	312	390	450	313
4	220	178	187	426	249	981	447	621	302	567	451	309
5	211	172	163	434	244	589	332	690	288	463	443	307
6	211	175	259	360	248	398	307	606	279	756	363	307
7	220	181	1,070	283	190	509	329	560	280	522	356	307
8	241	181	2,360	241	160	1,700	362	531	282	342	353	307
9	238	181	1,390	229	140	1,570	332	701	282	339	358	306
10	293	181	724	307	150	1,080	317	1,150	286	354	353	304
11	321	181	544	406	160	1,140	304	808	282	381	302	307
12	217	184	589	363	190	1,180	288	600	280	364	319	311
13	148	190	553	290	248	1,700	442	623	312	469	331	399
14	187	184	567	253	312	3,080	846	629	319	473	330	433
15	184	178	1,180	193	406	2,650	3,110	724	309	462	329	436
16	181	181	1,820	169	536	1,700	5,810	756	380	624	325	422
17	178	172	1,240	148	536	2,230	2,570	701	374	1,650	328	405
18	175	148	835	145	448	1,930	2,050	627	314	1,240	331	499
19	172	148	702	172	369	1,680	2,280	511	291	1,330	336	1,100
20	169	148	675	205	301	1,600	2,660	279	293	1,310	332	860
21	172	166	684	220	278	1,550	2,680	248	293	1,280	333	702
22	175	187	621	221	354	1,710	3,000	332	297	1,260	327	770
23	181	202	434	269	387	2,120	3,610	340	397	1,250	332	777
24	190	190	314	328	332	1,990	3,130	330	485	1,240	330	790
25	196	181	283	310	281	1,720	2,970	322	438	940	327	781
26	196	178	244	230	295	1,230	2,850	303	408	640	330	809
27	199	187	241	199	281	996	2,450	306	326	396	328	895
28	181	226	286	177	310	689	1,910	311	269	372	328	937
29	172	259	314	154	532	617	1,520	307	277	377	324	852
30	175	318	970	154	------	565	1,170	319	311	453	311	913
31	178	------	2,530	167	------	501	------	356	------	459	307	------
TOTAL	6,323	5,591	22,737	9,356	8,568	44,275	49,453	16,445	9,659	21,325	10,871	16,475
MEAN	204	186	733	302	295	1,428	1,648	530	322	688	351	549
MAX	321	318	2,530	1,240	536	3,080	5,810	1,150	485	1,650	454	1,100
MIN	148	148	163	145	140	398	288	248	269	298	302	304

CAL YR 1971 TOTAL 177,665 MEAN 487 MAX 3,300 MIN 148
WTR YR 1972 TOTAL 221,078 MEAN 604 MAX 5,810 MIN 140

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 downstream from Mosquito Creek Dam, 0.8 mile upstream from Confusion Run, and 2.5 miles southwest of Cortland.

DRAINAGE AREA.--97.5 sq mi.

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 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 downstream at datum 6.63 ft lower.

AVERAGE DISCHARGE.--32 years, 85.4 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 618 cfs Mar. 25 (gage height, 3.72 ft); minimum, 0.63 cfs June 21 (gage height, 0.81 ft).
Period of record: Maximum discharge, 1,890 cfs Jan. 19, 1929 (gage height, 11.5 ft, 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.--Six discharge measurements furnished by Corps of Engineers.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	25	13	14	14	13	22	50	22	185	65	47
2	32	25	13	14	14	15	22	22	22	185	41	47
3	32	25	13	15	15	16	22	22	22	185	41	47
4	32	25	13	15	15	16	22	22	22	185	41	47
5	32	26	13	15	15	16	22	22	22	185	41	47
6	33	25	13	15	15	16	22	22	22	185	41	47
7	33	26	13	15	15	16	22	22	21	185	41	47
8	33	26	13	15	15	19	22	22	19	185	41	47
9	33	26	13	15	16	21	22	22	19	185	41	47
10	32	26	13	15	16	21	22	22	19	185	41	47
11	32	26	13	15	15	21	22	22	19	168	41	47
12	32	25	13	15	15	21	22	21	17	122	41	47
13	32	25	13	15	14	18	22	21	14	97	41	47
14	32	25	14	15	14	21	22	21	14	97	41	47
15	32	25	14	15	14	21	22	21	14	97	41	47
16	32	26	14	15	15	112	22	56	14	97	64	47
17	31	26	14	15	15	188	138	90	14	97	88	47
18	27	26	14	15	15	188	274	90	14	97	68	47
19	25	26	14	15	15	188	274	90	14	57	47	47
20	25	26	14	15	14	318	274	90	14	19	47	47
21	25	26	14	15	14	396	271	90	14	19	47	47
22	26	26	14	15	14	396	271	90	16	19	47	47
23	26	20	14	15	14	501	271	90	16	19	47	47
24	26	13	14	15	14	610	271	90	16	19	47	47
25	26	13	14	15	14	610	271	90	17	19	47	47
26	25	13	14	15	14	501	268	73	16	53	47	47
27	25	13	14	15	14	282	173	56	51	90	47	47
28	25	13	14	15	14	138	92	56	135	90	47	47
29	25	13	14	15	14	56	92	57	185	90	47	47
30	25	13	14	14	------	22	92	40	185	88	47	47
31	25	------	14	14	------	22	------	22	------	88	47	------
TOTAL	903	674	421	461	422	4,799	3,384	1,524	1,009	3,392	1,470	1,410
MEAN	29.1	22.5	13.6	14.9	14.6	155	113	49.2	33.6	109	47.4	47.0
MAX	33	26	14	15	16	610	274	90	185	185	88	47
MIN	25	13	13	14	14	13	22	21	14	19	41	47
(+)	23.3	22.4	21.4	22.5	22.8	21.5	22.3	23.7	23.5	23.5	24.4	23.4

CAL YR 1971 TOTAL 22,934.9 MEAN 62.8 MAX 915 MIN 5.7 (+) 23.8
WTR YR 1972 TOTAL 19,869.0 MEAN 54.3 MAX 610 MIN 13 (+) 22.9

+ 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 upstream from Bridge Street Bridge in Youngstown, and 0.8 mile upstream from Mill Creek.

DRAINAGE AREA.--898 sq mi.

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 above mean sea level, adjustment of 1912 (levels by Mahoning Valley Sanitary District). Prior to Nov. 16, 1926, nonrecording gage at site 400 ft downstream at same datum.

AVERAGE DISCHARGE.--51 years, 821 cfs.

EXTREMES.--Current year: Maximum discharge, 9,950 cfs Apr. 16 (gage height, 13.48 ft); minimum, 201 cfs Nov. 1, 6, 9.
Period of record: Maximum discharge, 17,600 cfs Jan. 25, 1937 (gage height, 14.92 ft); from rating curve extended above 9,500 cfs on basis of velocity-area studies; maximum gage height, 18.62 ft Jan. 22, 1959 (backwater from Mill Creek); minimum discharge, 28 cfs Aug. 14, 1930; minimum daily, 30 cfs Aug. 16, 1930.
Flood of Mar. 26, 1913 reached a stage of 26.5 ft (discharge, 42,500 cfs, 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 miles upstream), beginning in 1942, by Milton Reservoir (40 miles upstream), by Michael J. Kirwan Reservoir (43 miles upstream) on West Branch, beginning in 1966, by Mosquito Creek Lake (22 miles upstream), beginning in 1943, by Meander Creek Reservoir (11 miles upstream), beginning in 1929, (see pp. 27, 28), and by reservoir on Squaw Creek (5 miles upstream). Water-quality records for the current year are published in Part 2 of this report.

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

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	206	649	2,900	267	1,880	587	1,310	474	500	587	414
2	354	228	597	1,190	289	3,380	580	1,020	438	470	580	552
3	318	228	402	901	366	3,530	587	1,620	438	650	566	601
4	312	218	306	850	408	2,060	622	1,240	432	750	559	432
5	300	206	262	775	372	1,120	517	1,070	372	900	552	408
6	294	212	682	714	348	720	444	944	360	950	492	408
7	354	234	2,080	668	289	852	531	776	348	950	462	402
8	318	228	3,460	438	228	2,570	531	741	354	811	474	402
9	372	228	2,860	408	206	2,720	486	881	366	818	456	396
10	462	240	1,280	493	218	1,690	456	1,480	360	699	456	384
11	462	228	831	649	234	1,480	444	1,260	336	650	420	390
12	384	228	747	649	272	1,560	408	839	336	678	396	414
13	267	234	747	545	384	2,740	832	776	480	832	414	643
14	245	228	852	474	526	4,620	1,250	804	420	818	420	825
15	262	245	1,830	372	694	4,590	6,780	881	456	741	450	643
16	256	240	2,680	272	915	3,400	9,320	1,060	545	1,630	420	559
17	245	234	2,090	267	894	3,750	6,920	1,130	498	2,110	450	545
18	245	228	1,250	267	701	3,520	3,630	1,020	420	1,860	480	902
19	240	272	971	300	610	2,800	2,880	832	366	1,600	456	1,100
20	228	256	936	342	630	2,620	4,100	559	360	1,500	432	1,240
21	228	306	992	360	675	2,960	4,410	426	366	1,400	426	874
22	223	318	915	372	538	2,780	4,180	450	390	1,380	432	902
23	234	318	701	486	552	3,300	4,870	498	811	1,400	444	937
24	245	312	519	584	500	3,170	4,200	486	860	1,430	444	1,000
25	245	289	426	578	438	2,930	3,750	468	784	1,170	438	965
26	245	284	408	420	444	2,380	3,480	438	637	832	468	1,090
27	245	324	384	336	420	1,920	3,140	420	524	671	438	1,210
28	234	372	480	289	493	1,360	2,530	402	444	524	444	1,210
29	218	462	512	240	915	1,020	2,020	402	498	510	432	1,100
30	212	616	1,830	228	------	846	1,560	432	500	566	420	1,290
31	206	------	3,560	218	------	692	------	450	------	615	414	------
TOTAL	8,943	8,222	36,239	17,585	13,826	74,960	76,045	25,115	13,973	30,415	14,322	22,238
MEAN	285	274	1,169	567	477	2,418	2,535	810	466	981	462	741
MAX	462	616	3,560	2,900	915	4,620	9,320	1,620	860	2,110	587	1,290
MIN	206	206	262	218	206	692	408	402	336	470	396	384

CAL YR 1971 TOTAL 282,238 MEAN 773 MAX 5,790 MIN 206
WTR YR 1972 TOTAL 341,783 MEAN 934 MAX 9,320 MIN 206

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 upstream from First Street Bridge at Lowellville, 1 mile upstream from Ohio-Pennsylvania State line, and 3 miles downstream from Yellow Creek.

DRAINAGE AREA.--1,073 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Oct. 26, 1944, nonrecording gage at site 300 ft downstream at same datum.

AVERAGE DISCHARGE.--30 years, 1,011 cfs.

EXTREMES.--Current year: Maximum discharge, 13,500 cfs Apr. 15 (gage height, 10.98 ft); minimum, 260 cfs Nov. 6.
Period of record: Maximum discharge, 21,000 cfs Jan. 21, 1959 (gage height, 14.43 ft); minimum, 125 cfs June 29, 1952.
Flood in March 1913 reached a stage of 17.8 ft.

REMARKS.--Records good. Flow regulated by 5 flood control reservoirs at points 21 to 58 miles upstream (see pp. 27, 28 and REMARKS for station 03098000), and by reservoirs on Squaw Creek (15 miles upstream), on Dry Run (9 miles upstream), and on Yellow Creek (5 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	426	265	692	3,090	340	2,270	778	1,520	655	746	655	460
2	402	285	650	1,470	365	4,030	746	1,350	613	698	641	532
3	380	290	468	1,040	442	4,110	738	2,320	627	980	613	746
4	365	275	396	868	478	4,280	778	1,560	599	1,080	613	514
5	360	265	350	895	414	1,530	669	1,300	484	1,330	585	478
6	350	265	1,030	770	424	980	599	1,140	478	1,480	544	478
7	414	280	2,240	599	392	1,090	802	940	460	1,430	520	478
8	380	275	3,420	496	370	3,200	738	886	460	1,000	544	478
9	426	280	2,960	454	355	3,180	676	1,040	490	810	514	472
10	552	280	1,400	532	340	2,120	620	1,610	514	960	514	454
11	504	280	895	690	370	1,680	599	1,500	472	842	490	460
12	456	280	732	698	392	1,740	550	1,010	472	886	478	520
13	365	280	732	641	652	3,180	1,260	886	662	1,350	502	834
14	315	275	886	585	778	5,610	1,580	913	606	1,180	484	1,140
15	320	310	1,920	460	960	5,470	9,370	970	634	1,000	514	802
16	320	295	2,560	375	1,130	3,990	10,600	1,150	834	2,370	478	655
17	310	285	2,150	375	1,060	4,300	8,390	1,260	714	2,640	514	620
18	305	285	1,310	375	913	3,980	4,400	1,170	648	2,060	544	1,500
19	310	330	990	375	762	3,130	3,280	990	538	1,720	520	1,200
20	295	330	922	380	606	3,060	4,900	746	496	1,610	484	1,410
21	290	365	990	392	571	3,010	5,060	557	544	1,500	484	980
22	290	370	913	408	746	3,080	4,740	550	571	1,470	484	940
23	290	370	730	585	746	3,620	5,250	613	1,420	1,440	502	970
24	295	360	544	690	706	3,450	4,660	592	1,380	1,530	490	1,040
25	305	340	454	683	613	3,140	4,040	578	1,600	1,290	484	1,000
26	305	340	436	502	641	2,600	3,760	550	1,340	931	544	1,140
27	300	380	430	392	606	2,160	3,480	520	886	738	502	1,270
28	300	450	526	375	683	1,610	2,840	496	690	599	496	1,260
29	285	538	550	350	1,180	1,250	2,270	496	762	585	484	1,170
30	275	728	2,460	330	------	1,020	1,810	578	762	613	472	1,480
31	265	------	3,720	325	------	859	------	606	------	655	460	------
TOTAL	10,755	9,951	38,456	20,200	18,035	88,729	89,983	30,397	21,411	37,523	16,153	25,481
MEAN	347	332	1,241	652	622	2,862	2,999	981	714	1,210	521	849
MAX	552	728	3,720	3,090	1,180	5,610	10,600	2,320	1,600	2,640	655	1,500
MIN	265	265	350	325	340	859	550	496	460	585	460	454

CAL YR 1971 TOTAL 323,239 MEAN 886 MAX 6,820 MIN 265
WTR YR 1972 TOTAL 407,074 MEAN 1,112 MAX 10,600 MIN 265

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 mile downstream from Sugar Creek and 1.2 miles upstream from Stratton Creek.

DRAINAGE AREA.--96.7 sq mi.

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

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

AVERAGE DISCHARGE.--7 years, 107 cfs (15.03 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,660 cfs Mar. 3 (gage height, 11.54 ft); minimum, 0.10 cfs Aug. 8. Period of record: Maximum discharge, 1,660 cfs Mar. 3, 1972; maximum gage height, 11.61 ft Dec. 29, 1968; minimum discharge, 0.10 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	28	141	501	39	252	93	43	39	257	.58	3.1
2	3.8	29	153	433	36	1,230	86	46	46	192	.38	4.2
3	4.2	33	152	334	39	1,490	80	149	124	234	.30	4.9
4	5.1	35	126	248	53	1,120	79	195	136	225	.27	4.3
5	5.2	38	92	198	70	681	82	175	93	181	.21	4.9
6	5.9	40	114	156	70	470	79	133	71	314	.18	5.1
7	6.6	41	332	109	65	319	78	93	57	287	.15	5.1
8	6.9	42	800	93	55	525	76	72	44	235	.13	5.2
9	8.8	44	800	73	46	516	70	83	37	200	.18	5.6
10	12	43	605	88	42	445	64	128	35	166	.27	6.0
11	17	43	448	124	42	350	60	148	31	123	.30	6.5
12	23	43	317	138	46	277	54	154	30	88	.28	7.0
13	23	44	232	135	58	317	54	119	58	69	.22	7.6
14	18	43	179	121	84	605	57	92	85	70	.18	8.8
15	13	42	293	115	120	637	160	175	93	54	.15	11
16	10	41	458	83	176	561	378	180	197	60	.36	12
17	9.6	42	448	57	217	609	558	149	216	77	1.1	12
18	11	41	400	47	219	537	504	122	196	55	1.4	11
19	12	42	305	56	202	440	403	97	196	43	1.8	9.0
20	12	42	228	72	171	319	305	78	172	42	2.2	7.8
21	13	43	194	89	143	238	280	65	131	42	2.2	6.9
22	14	45	168	100	137	257	259	52	98	37	1.9	6.4
23	14	48	135	121	133	408	317	42	127	31	1.9	5.6
24	15	53	116	141	122	366	271	35	212	24	2.2	5.1
25	16	52	99	145	114	324	221	29	364	15	2.4	4.8
26	18	51	91	127	109	265	167	22	567	7.3	2.7	7.1
27	19	50	101	110	101	213	118	17	681	4.0	2.7	10
28	19	55	136	85	94	172	86	14	584	2.8	2.6	15
29	23	69	170	70	108	140	66	12	453	2.0	2.3	22
30	25	107	254	55	------	120	52	14	338	1.4	2.2	28
31	27	------	595	46	------	107	------	32	------	.92	2.5	------
TOTAL	413.3	1,369	8,682	4,270	2,911	14,310	5,157	2,765	5,511	3,139.42	36.24	252.0
MEAN	13.3	45.6	280	138	100	462	172	89.2	184	101	1.17	8.40
MAX	27	107	800	501	219	1,490	558	195	681	314	2.7	28
MIN	3.2	28	91	46	36	107	52	12	30	.92	.13	3.1
CFSM	.14	.47	2.90	1.43	1.03	4.78	1.78	.92	1.90	1.04	.01	.09
IN.	.16	.53	3.34	1.64	1.12	5.50	1.98	1.06	2.12	1.21	.01	.10

CAL YR 1971 TOTAL 35,185.13 MEAN 96.4 MAX 1,280 MIN .15 CFSM 1.00 IN 13.54
WTR YR 1972 TOTAL 48,815.96 MEAN 133 MAX 1,490 MIN .13 CFSM 1.38 IN 18.78

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	1900	10.55	858	6-27	0700	10.46	739
3-3	0500	11.54	1,660				

Reservoirs in Beaver River basin

03090000 BERLIN LAKE (formerly published as Berlin Reservoir).--Lat 41°02'46", long 81°00'10", in T.1 N., R.6 W., Portage County at dam on Mahoning River, 3.2 miles northwest of Berlin Center. Drainage area, 248 sq mi. Period of record, December 1942 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, 74,260 acre-ft Apr. 18 (elevation, 1,028.63 ft); minimum, 13,640 acre-ft Nov. 26, 27 (elevation, 1,001.75 ft). Extremes for period of record: Maximum contents, 91,150 acre-ft July 9, 1943 (elevation, 1,232.0 ft); minimum, 1,540 acre-ft Jan. 10, 1944 (elevation, 978.82 ft).

Lake is formed by earthfill dam with concrete spillway; storage began in December 1942. Usable capacity 91,150 acre-ft between elevations 956.5 ft (invert of lowest outlet) and 1,032.0 ft (top of taintor gates on controlled section) of which 1,800 acre-ft is in the conservation pool (elevation, 980.0 ft). 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-height graph 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 mile southwest of Pricetown. Drainage area, 273 sq mi. 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, 30,520 acre-ft Apr. 20 (elevation, 951.67 ft); minimum, 14,830 acre-ft Feb. 25 (elevation, 942.14 ft). Extremes for period of record: Maximum contents, 35,020 acre-ft June 29, 1924 (elevation, 953.8 ft) of which 5,870 acre-ft was in uncontrolled storage; minimum, 1,220 acre-ft Jan. 23, 1954 (elevation, 924.27 ft, 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 between elevations 906.0 ft (bottom of gates) and 951.0 ft (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 mile southwest of Wayland. Drainage area, 80.5 sq mi. Period of record, December 1966 to current year (prior to October 1969 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, 66,940 acre-ft Apr. 18 (elevation, 989.19 ft); minimum, 32,040 acre-ft Nov. 18 (elevation, 974.64 ft). Extremes for period of record: Maximum contents, 66,940 acre-ft Apr. 18, 1972 (elevation, 989.19 ft); minimum, 5,370 acre-ft Jan. 5, 1967 (elevation, 953.50 ft).

Reservoir is formed by earthfill dam with concrete spillway; storage began in December 1966. Usable capacity 78,660 acre-ft between elevations 936.8 ft (lowest outlet) and 993.0 ft (crest of spillway) of which 3,740 acre-ft is in conservation pool. Dead storage below elevation 936.8 ft, 85 acre-ft. 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-height graph and capacity curve furnished by Corps of Engineers.

03095000 MOSQUITO CREEK LAKE (formerly published as Mosquito Creek Reservoir).--Lat 41°17'58", long 80°45'31", in T.5 N., R.3 W., Trumbull County at dam on Mosquito Creek, 3.0 miles southwest of Cortland. Drainage area, 97.5 sq mi. Period of record, October 1943 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, 85,730 acre-ft June 27 (elevation, 902.07 ft); minimum, 42,200 acre-ft Nov. 21 (elevation, 895.68 ft). Extremes for period of record: Maximum contents, 99,100 acre-ft June 3, 1947 (elevation, 903.65 ft); minimum, 8,600 acre-ft Nov. 16, 1944 (elevation, 886.97 ft).

Lake is formed by earthfill dam. A natural wasteway (elevation, 903.5 ft) discharges into the Grand River basin; storage began in October 1943. Usable capacity 102,200 acre-ft between elevations 881.0 ft (lowest outlet) and 904.00 ft (lake-full level). Dead storage below 881.0 ft, 2,000 acre-ft. 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 purposed in vicinity of Warren and Youngstown; and for municipal supply of city of Warren. Gage-height graph 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 mile northwest of Mineral Ridge. Drainage area, 83.9 sq mi. 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, 39,060 acre-ft Apr. 15 (elevation, 908.10 ft); minimum, 19,150 acre-ft Dec. 6 (elevation, 897.14 ft). Extremes for period of record: Maximum contents, 41,800 acre-ft Jan. 21, 1959 (elevation, 909.25 ft); minimum, 9,370 acre-ft Feb. 28, 1954 (elevation, 888.78 ft).

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

Reservoirs in Beaver River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	1,005.05	16,920	-	947.95	23,430	-
Oct. 31	1,003.07	14,870	-2,050	945.21	18,980	-4,450
Nov. 30	1,002.07	13,930	-940	942.41	15,170	-3,810
Dec. 31	1,011.91	26,380	+12,450	943.17	16,160	+990
CAL YR 1971	-	-	-12,510	-	-	+2,930
Jan. 31	1,016.86	36,000	+9,620	942.65	15,480	-680
Feb. 29	1,020.69	45,570	+9,570	943.09	16,050	+570
Mar. 31	1,024.80	58,660	+13,090	948.24	23,950	+7,900
Apr. 30	1,024.56	57,810	-850	948.77	24,910	+960
May 31	1,024.49	57,560	-250	948.13	23,750	-1,160
June 30	1,024.05	56,010	-1,550	948.02	23,560	-190
July 31	1,024.47	57,490	+1,480	947.88	23,310	-250
Aug. 31	1,019.89	43,380	-14,110	947.94	23,420	+110
Sept. 30	1,015.39	32,870	-10,510	947.01	21,810	-1,610
WTR YR 1972	-	-	+15,950	-	-	-1,620

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03092450 Michael J. Kirwan Reservoir			03095000 Mosquito Creek Lake		
Sept. 30	975.95	34,550	-	896.59	47,390	-
Oct. 31	974.85	32,430	-2,120	896.06	44,290	-3,100
Nov. 30	975.68	34,020	+1,590	896.00	43,940	-350
Dec. 31	979.03	40,940	+6,920	898.64	60,310	+16,370
CAL YR 1971	-	-	-1,610	-	-	-3,320
Jan. 31	980.24	43,660	+2,720	899.01	62,780	+2,470
Feb. 29	981.40	46,360	+2,700	899.54	66,530	+3,750
Mar. 31	985.74	57,290	+10,930	901.30	79,630	+13,100
Apr. 30	985.97	57,900	+610	901.52	81,360	+1,730
May 31	985.54	56,760	-1,140	901.51	81,280	-80
June 30	984.57	54,220	-2,540	901.95	84,760	+3,480
July 31	985.21	55,890	+1,670	901.13	78,290	-6,470
Aug. 31	983.52	51,540	-4,350	900.26	71,720	-6,570
Sept. 30	983.22	50,780	-760	899.92	69,210	-2,510
WTR YR 1972	-	-	+16,230	-	-	+21,820

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03097000 Meander Creek Reservoir		
Sept. 30	899.41	22,550	-
Oct. 31	898.16	20,650	-1,900
Nov. 30	897.30	19,380	-1,270
Dec. 31	900.20	23,800	+4,420
CAL YR 1971	-	-	-6,560
Jan. 31	900.40	24,130	+330
Feb. 29	901.02	25,130	+1,000
Mar. 31	906.01	34,450	+9,320
Apr. 30	906.36	35,200	+750
May 31	905.50	33,420	-1,780
June 30	904.83	32,080	-1,340
July 31	905.74	33,900	+1,820
Aug. 31	903.62	29,760	-4,140
Sept. 30	903.10	28,790	-970
WTR YR 1972	-	-	+6,240

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 miles upstream from Island Run, 4 miles upstream from mouth and 4 miles northeast of East Liverpool.

DRAINAGE AREA.--496 sq mi.

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

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

AVERAGE DISCHARGE.--57 years, 502 cfs (13.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,150 cfs Apr. 16 (gage height, 8.82 ft); minimum, 41 cfs Oct. 21, 22.
Period of record: Maximum discharge, 25,000 cfs July 19, 1941 (gage height, 17.4 ft), from rating curve extended above 16,000 cfs on basis of slope-area measurement of peak flow; minimum, 12 cfs several days in 1918, 1930, 1932, 1936.
Maximum stage observed, about 20 ft.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	51	263	1,070	280	2,220	548	557	266	630	132	78
2	59	53	208	872	310	3,290	544	616	312	498	130	71
3	53	58	263	858	344	3,110	514	630	350	514	142	90
4	51	56	225	680	526	3,020	502	625	284	1,020	130	144
5	47	54	205	725	470	1,450	494	522	205	760	115	100
6	45	51	278	620	410	1,060	454	446	172	770	107	90
7	47	53	1,010	502	370	1,220	890	400	157	611	107	85
8	49	54	1,060	450	340	3,080	932	378	142	498	110	80
9	52	55	606	422	310	2,200	755	474	130	458	142	76
10	84	58	418	498	290	1,530	700	552	242	1,020	126	69
11	88	60	330	506	280	1,220	640	434	230	908	114	60
12	76	61	263	450	320	1,360	580	368	166	635	104	75
13	66	61	230	422	740	3,750	1,060	330	150	522	102	112
14	59	59	245	438	1,320	4,280	1,250	340	212	486	97	1,170
15	54	58	782	420	1,410	3,510	2,020	347	275	566	91	788
16	51	56	818	400	1,670	2,760	3,660	358	1,500	530	84	450
17	51	54	566	390	1,490	3,040	4,560	389	1,020	580	97	263
18	52	62	406	390	1,400	2,330	2,760	422	530	450	128	1,720
19	50	78	326	420	1,270	1,690	1,720	372	364	364	123	1,270
20	45	92	319	390	962	1,290	2,290	322	305	330	107	730
21	41	107	322	370	800	1,100	2,360	299	422	322	96	422
22	41	117	284	462	700	1,270	1,980	269	454	263	86	305
23	42	108	225	539	650	1,530	1,630	242	1,810	232	108	242
24	47	114	230	670	600	1,240	1,270	225	2,000	210	108	220
25	54	124	215	645	550	1,060	1,040	205	1,970	192	91	208
26	56	121	208	430	500	914	860	182	1,530	178	108	192
27	54	130	220	400	500	806	735	161	1,090	178	208	188
28	53	161	290	350	735	720	650	148	750	180	180	180
29	51	188	312	326	1,330	650	593	136	630	170	128	172
30	49	293	985	300	------	650	552	148	705	152	99	222
31	49	------	1,770	290	------	598	------	257	------	138	85	------
TOTAL	1,683	2,647	13,882	15,705	20,877	57,948	38,543	11,154	18,373	14,365	3,585	9,872
MEAN	54.3	88.2	448	507	720	1,869	1,285	360	612	463	116	329
MAX	88	293	1,770	1,070	1,670	4,280	4,560	630	2,000	1,020	208	1,720
MIN	41	51	205	290	280	598	454	136	130	138	84	60
CFSM	.11	.18	.90	1.02	1.45	3.77	2.59	.73	1.23	.93	.23	.66
IN.	.13	.20	1.04	1.18	1.57	4.35	2.89	.84	1.38	1.08	.27	.74

CAL YR 1971 TOTAL 152,621 MEAN 418 MAX 6,630 MIN 36 CFSM .84 IN 11.45
WTR YR 1972 TOTAL 208,634 MEAN 570 MAX 4,560 MIN 41 CFSM 1.15 IN 15.65

PEAK DISCHARGE (BASE, 5,000 CFS).--Apr. 16 (2200) 5,150 cfs (8.82 ft).

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 upstream from Lowery Run, 0.9 mile upstream from Brush Creek, and 1.6 miles southwest of Hammondsville.

DRAINAGE AREA.--147 sq mi.

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

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

AVERAGE DISCHARGE.--32 years, 152 cfs (14.05 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,180 cfs Mar. 13 (gage height, 4.88 ft); minimum, 5.2 cfs Sept. 11, 12.
Period of record: Maximum discharge, 9,580 cfs Jan. 27, 1952 (gage height, 12.17 ft); minimum, 0.8 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	63	308	95	536	163	187	69	54	15	9.3
2	15	21	42	269	107	618	168	195	77	44	15	8.5
3	12	23	38	260	115	671	155	175	75	40	30	8.5
4	10	37	27	212	152	492	154	142	59	42	45	10
5	9.2	27	23	241	115	398	146	126	48	40	32	9.6
6	8.7	23	70	206	130	304	137	109	42	53	21	9.0
7	8.3	22	462	185	110	316	649	101	40	43	17	7.5
8	9.8	20	393	163	95	714	661	97	35	34	17	6.8
9	9.1	21	192	152	90	519	467	140	32	31	20	6.4
10	13	44	133	189	85	411	395	169	29	113	27	5.7
11	21	111	104	174	85	329	337	131	26	185	19	5.6
12	18	80	79	157	100	303	289	116	25	88	15	6.1
13	14	29	67	154	333	828	458	106	31	61	14	37
14	13	15	67	166	597	822	483	112	56	62	16	283
15	11	12	350	117	382	669	447	109	45	48	13	174
16	12	9.6	305	130	434	659	542	110	54	50	11	79
17	12	8.9	211	130	349	893	708	112	50	117	16	50
18	12	8.6	156	120	310	649	514	115	35	77	32	50
19	12	9.5	119	120	283	472	414	119	30	58	33	65
20	11	11	117	110	218	370	705	107	30	109	29	39
21	11	15	120	110	200	325	680	104	48	64	21	31
22	11	17	96	109	180	393	715	94	51	47	16	25
23	12	17	74	194	170	445	619	84	143	36	12	21
24	14	15	81	226	160	372	478	75	156	33	11	21
25	16	15	75	248	150	324	377	69	109	27	10	24
26	24	15	71	199	140	284	303	61	98	23	10	24
27	23	17	78	160	150	257	259	52	80	24	33	25
28	23	22	95	140	230	229	224	48	62	26	34	27
29	21	34	119	120	411	210	200	46	56	23	19	25
30	19	72	265	110	------	203	185	47	62	19	14	32
31	18	------	553	100	------	174	------	80	------	17	11	------
TOTAL	444.1	789.6	4,645	5,279	5,976	14,189	12,032	3,338	1,753	1,688	628	1,125.0
MEAN	14.3	26.3	150	170	206	458	401	108	58.4	54.5	20.3	37.5
MAX	24	111	553	308	597	893	715	195	156	185	45	283
MIN	8.3	8.6	23	100	85	174	137	46	25	17	10	5.6
CFSM	.10	.18	1.02	1.16	1.40	3.12	2.73	.73	.40	.37	.14	.26
IN.	.11	.20	1.18	1.34	1.51	3.59	3.04	.84	.44	.43	.16	.28

CAL YR 1971 TOTAL 49,256.7 MEAN 135 MAX 1,840 MIN 5.2 CFSM .92 IN 12.46
WTR YR 1972 TOTAL 51,886.7 MEAN 142 MAX 893 MIN 5.6 CFSM .97 IN 13.13

PEAK DISCHARGE (BASE, 2,000 CFS).--No peak above base.

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 miles east of Dillonvale, 2.2 miles downstream from Jug Run, and 2.9 miles upstream from Little Short Creek.

DRAINAGE AREA.--123 sq mi.

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

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

AVERAGE DISCHARGE.--31 years, 119 cfs (13.14 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,820 cfs Mar. 13 (gage height, 5.63 ft); minimum, 22 cfs Sept. 9, 10, 11, 12.
Period of record: Maximum discharge, 6,500 cfs Mar. 6, 1945; maximum gage height, 10.15 ft Mar. 5, 1963 (from graph based on gage readings); minimum daily, 2.8 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	48	51	110	65	200	155	203	71	84	33	25
2	35	54	31	116	81	242	157	218	66	69	34	31
3	32	58	31	124	92	335	143	209	64	66	60	36
4	31	49	31	107	109	250	160	188	59	64	48	31
5	31	44	31	148	75	226	146	172	57	71	38	27
6	30	42	160	124	101	210	136	160	55	76	35	25
7	30	43	405	104	94	240	691	155	54	59	38	24
8	29	41	290	94	80	345	469	150	50	56	38	24
9	30	40	139	93	70	242	340	174	48	59	38	24
10	54	41	104	121	60	216	285	160	49	71	34	22
11	43	39	87	108	60	192	250	136	46	74	31	22
12	36	36	72	99	90	202	223	126	45	56	32	24
13	35	35	65	95	416	1,190	1,120	123	113	50	35	26
14	39	32	69	95	380	586	568	129	164	48	31	31
15	42	31	107	71	303	448	430	127	100	47	29	30
16	40	31	118	48	275	538	433	113	88	64	32	25
17	41	30	89	70	230	574	481	123	69	59	42	25
18	42	29	78	70	210	406	358	116	60	51	54	25
19	42	29	71	65	190	328	320	107	55	47	77	25
20	42	35	76	65	180	288	390	107	64	69	70	24
21	43	34	75	65	210	263	330	104	107	49	46	24
22	46	32	63	82	180	320	547	95	97	46	37	25
23	50	26	56	109	170	303	424	90	223	44	33	25
24	57	29	58	122	180	260	348	84	159	42	32	28
25	65	31	56	133	210	234	300	80	118	40	30	34
26	56	30	58	110	234	216	258	74	100	38	42	34
27	52	33	63	100	190	201	234	71	90	40	35	51
28	51	52	77	90	170	184	218	69	77	43	31	43
29	49	54	80	80	204	180	207	68	88	37	28	35
30	48	89	124	70	------	174	212	69	106	36	25	71
31	48	------	162	65	------	157	------	78	------	35	25	------
TOTAL	1,309	1,197	2,977	2,953	4,909	9,750	10,333	3,878	2,542	1,690	1,193	896
MEAN	42.2	39.9	96.0	95.3	169	315	344	125	84.7	54.5	38.5	29.9
MAX	65	89	405	148	416	1,190	1,120	218	223	84	77	71
MIN	29	26	31	48	60	157	136	68	45	35	25	22
CFSM	.34	.32	.78	.77	1.37	2.56	2.80	1.02	.69	.44	.31	.24
IN.	.40	.36	.90	.89	1.48	2.95	3.13	1.17	.77	.51	.36	.27

CAL YR 1971 TOTAL 43,243 MEAN 118 MAX 1,550 MIN 20 CFSM .96 IN 13.08
WTR YR 1972 TOTAL 43,627 MEAN 119 MAX 1,190 MIN 22 CFSM .97 IN 13.19

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	0700	5.63	1,820	4-13	0800	5.19	1,610
4-7	1500	4.22	1,230				

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 mile east of Armstrongs Mills, and 0.7 mile downstream from Anderson Run.

DRAINAGE AREA.--134 sq mi.

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

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

AVERAGE DISCHARGE.--23 years, 151 cfs (15.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,490 cfs July 15 (gage height, 10.61 ft); no flow, all or part of each day Sept. 19-24.
Period of record: Maximum discharge, about 11,800 cfs Mar. 4, 1963; maximum gage height, 14.40 ft, present datum, Aug. 7, 1935; no flow at times during 1929-30, 1932, 1934, 1959, 1963-66, 1972.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	19	158	235	100	245	140	128	26	74	22	6.8
2	54	32	105	360	100	662	150	162	24	50	20	5.0
3	45	46	90	336	140	1,010	135	162	24	68	25	6.8
4	37	31	86	296	204	510	228	130	21	104	29	14
5	32	25	82	698	150	388	221	116	19	102	26	12
6	28	22	1,210	400	189	300	189	100	16	145	19	7.4
7	26	23	1,240	300	165	495	410	92	15	88	22	5.6
8	23	21	630	242	150	698	400	88	12	70	29	4.5
9	22	20	352	263	130	392	332	111	11	61	21	3.0
10	38	21	266	445	110	312	284	116	30	67	17	2.5
11	33	21	231	324	95	256	245	86	20	86	14	1.6
12	25	20	186	263	95	235	210	77	14	55	12	.80
13	21	19	162	235	1,200	500	698	72	13	53	11	1.6
14	26	18	165	204	734	344	495	74	19	75	12	2.5
15	29	17	231	140	625	308	1,760	75	17	1,130	9.8	4.5
16	26	17	235	104	570	1,580	1,280	82	26	1,480	8.0	4.0
17	26	16	195	100	425	1,020	818	74	27	480	42	3.0
18	23	16	168	100	376	565	470	68	17	249	100	2.0
19	21	17	145	110	368	372	344	58	13	148	65	.80
20	18	24	171	110	273	292	364	53	17	109	49	0
21	17	26	165	100	256	252	266	52	45	90	26	0
22	17	26	138	95	312	396	600	45	44	65	19	0
23	19	19	120	198	256	396	445	40	214	55	19	0
24	34	23	123	224	263	308	348	36	133	44	18	.40
25	51	25	111	316	263	259	308	33	77	38	14	3.0
26	34	22	116	242	352	224	238	29	56	34	12	5.6
27	29	31	120	214	277	204	198	26	74	32	19	43
28	25	133	159	180	263	183	171	25	61	34	22	98
29	22	181	177	150	259	171	148	22	84	28	15	49
30	21	253	256	130	------	174	135	23	111	26	11	88
31	20	------	308	110	------	145	------	32	------	23	8.0	------
TOTAL	920	1,184	7,901	7,224	8,700	13,196	12,030	2,287	1,280	5,163	735.8	375.40
MEAN	29.7	39.5	255	233	300	426	401	73.8	42.7	167	23.7	12.5
MAX	78	253	1,240	698	1,200	1,580	1,760	162	214	1,480	100	98
MIN	17	16	82	95	95	145	135	22	11	23	8.0	0
CFSM	.22	.29	1.90	1.74	2.24	3.18	2.99	.55	.32	1.25	.18	.09
IN.	.26	.33	2.19	2.01	2.42	3.66	3.34	.63	.36	1.43	.20	.10

CAL YR 1971 TOTAL 50,976.60 MEAN 140 MAX 2,550 MIN .80 CFSM 1.04 IN 14.15
WTR YR 1972 TOTAL 60,996.20 MEAN 167 MAX 1,760 MIN 0 CFSM 1.25 IN 16.93

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15	1400	8.06	4,350	7-15	2200	10.61	7,490

03115400 Little Muskingum River at Bloomfield, 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 upstream from bridge on State Highway 260 at Bloomfield, 2.2 miles downstream from Wilson Run.

DRAINAGE AREA.--210 sq mi.

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

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

AVERAGE DISCHARGE.--14 years, 231 cfs (14.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,400 cfs Apr. 13 (gage height, 18.66 ft); minimum, 2.5 cfs Sept. 23.
Period of record: Maximum discharge, 21,200 cfs Mar. 5, 1963 (gage height, 28.08 ft), from rating curve extended above 8,000 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	18	230	209	154	328	286	173	38	269	17	14
2	55	21	227	393	145	545	265	176	34	170	15	10
3	44	65	185	748	192	2,710	241	200	32	236	14	10
4	36	56	152	463	466	967	575	191	28	260	628	56
5	31	42	125	1,250	293	704	736	164	26	260	242	48
6	27	32	221	876	315	512	460	140	24	435	110	27
7	24	30	230	518	279	520	1,070	125	22	266	60	18
8	20	29	230	351	225	930	1,500	120	18	185	42	12
9	18	26	230	323	201	640	903	149	16	155	34	9.9
10	18	24	272	1,030	162	443	613	160	20	108	25	8.2
11	21	24	299	751	140	338	455	120	16	82	19	7.2
12	23	23	230	459	137	298	355	110	14	72	16	6.6
13	20	21	194	351	1,970	268	2,970	100	12	54	16	6.0
14	18	20	164	288	2,200	243	1,860	100	16	44	12	5.0
15	17	19	170	218	1,110	224	798	110	28	62	12	4.3
16	18	18	185	162	1,000	285	825	110	42	536	9.9	4.1
17	20	18	179	157	686	894	972	100	62	545	23	4.1
18	17	18	158	155	545	598	608	90	46	326	482	4.1
19	15	18	133	175	691	405	435	80	27	203	209	3.9
20	14	21	155	153	477	320	376	75	40	131	128	3.2
21	12	28	200	151	354	282	311	70	242	90	86	2.8
22	12	32	179	138	418	623	910	65	149	72	50	3.0
23	13	33	152	175	381	1,060	860	55	758	57	38	2.7
24	21	31	147	425	607	648	539	50	638	47	54	3.0
25	52	35	135	534	697	474	432	46	284	36	37	3.5
26	52	35	127	446	840	370	335	42	182	30	27	4.1
27	40	44	133	313	631	315	281	38	137	25	33	9.9
28	30	212	138	273	461	277	242	34	140	23	68	25
29	26	230	155	218	381	258	212	32	194	31	46	53
30	22	230	185	200	------	463	188	32	411	25	28	209
31	21	------	236	166	------	341	------	42	------	20	19	------
TOTAL	823	1,453	5,756	12,069	16,158	17,283	20,613	3,099	3,696	4,855	2,599.9	577.6
MEAN	26.5	48.4	186	389	557	558	687	100	123	157	83.9	19.3
MAX	66	230	299	1,250	2,200	2,710	2,970	200	758	545	628	209
MIN	12	18	125	138	137	224	188	32	12	20	9.9	2.7
CFSM	.13	.23	.89	1.85	2.65	2.66	3.27	.48	.59	.75	.40	.09
IN.	.15	.26	1.02	2.14	2.86	3.06	3.65	.55	.65	.86	.46	.10

CAL YR 1971 TOTAL 67,448.0 MEAN 185 MAX 3,500 MIN 1.7 CFSM .88 IN 11.95
WTR YR 1972 TOTAL 88,982.5 MEAN 243 MAX 2,970 MIN 2.7 CFSM 1.16 IN 15.76

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-13	2300	17.71	3,860	4-13	2000	18.66	4,400
3-3	0800	17.26	3,630				

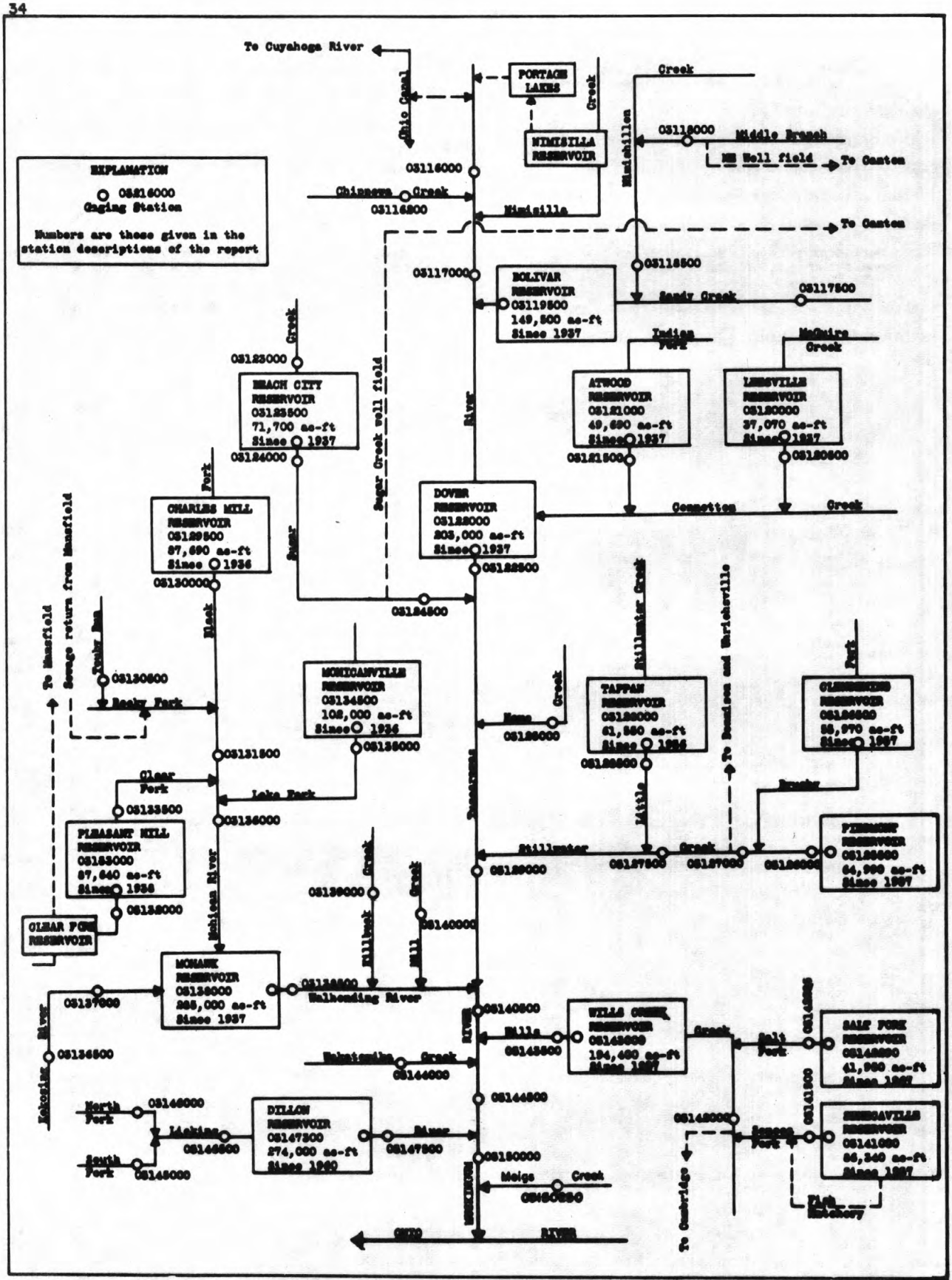


Figure 4.--Schematic diagram showing diversions and storage in the Muskingum River basin in Ohio.

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 downstream from highway bridge at Clinton, and 1 mile upstream from Chippewa Creek.

DRAINAGE AREA.--174 sq mi.

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

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

AVERAGE DISCHARGE.--43 years, (1929-72), 138 cfs.

EXTREMES.--Current year: Maximum daily discharge, 962 cfs Mar. 16; maximum gage height, 10.95 ft Mar. 14 (backwater from Chippewa Creek); minimum discharge, 47 cfs Oct. 22.
Period of record: Maximum discharge, 2,700 cfs Aug. 8, 1935; maximum gage height, 17.00 ft July 7, 1969 (backwater from Chippewa Creek); minimum discharge, 10 cfs Nov. 6, 1928.

REMARKS.--Records fair. Some water diverted through the Portage Lakes into the Ohio Canal at Long Lake 12 miles upstream and 3 miles 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) 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	54	74	310	75	330	144	154	104	163	74	69
2	63	59	68	198	76	569	143	149	126	106	74	68
3	62	60	60	169	80	778	134	158	95	228	74	66
4	60	58	60	144	88	643	138	156	83	316	69	64
5	60	60	60	158	80	435	127	140	76	202	66	66
6	64	54	79	132	77	249	119	120	78	178	67	66
7	64	58	142	114	75	208	172	107	73	127	68	66
8	64	56	162	99	74	419	155	114	75	108	70	67
9	66	56	108	103	71	334	127	294	73	102	67	66
10	88	56	88	144	71	218	124	340	75	145	67	68
11	70	57	84	155	70	180	121	248	71	177	64	67
12	62	54	75	130	72	240	112	149	71	137	66	75
13	60	56	71	121	98	500	384	135	87	93	62	109
14	59	55	80	116	156	750	433	150	88	96	68	414
15	59	54	200	92	191	950	402	151	82	121	64	623
16	56	56	194	86	264	962	391	147	108	409	66	446
17	55	56	121	82	188	959	558	134	92	581	100	242
18	56	56	100	83	175	854	498	121	80	525	130	235
19	58	60	89	87	164	550	306	110	77	277	118	311
20	55	58	91	83	114	240	550	112	77	177	126	177
21	56	60	101	83	121	170	750	107	74	103	78	144
22	54	60	98	83	190	140	800	102	77	91	73	119
23	57	60	88	98	191	120	800	89	95	116	81	99
24	58	62	84	101	133	200	750	87	101	102	85	119
25	60	57	82	105	117	270	469	84	97	91	70	100
26	55	57	82	86	137	255	297	83	96	81	99	85
27	57	59	86	83	117	211	191	80	86	84	105	240
28	56	60	100	81	133	175	165	79	75	85	87	330
29	59	64	93	77	236	161	152	78	104	78	75	420
30	56	84	256	77	------	176	146	88	243	75	65	420
31	54	------	462	74	------	154	------	124	------	75	70	------
TOTAL	1,866	1,756	3,538	3,554	3,634	12,400	9,658	4,190	2,739	5,249	2,448	5,441
MEAN	60.2	58.5	114	115	125	400	322	135	91.3	169	79.0	181
MAX	88	84	462	310	264	962	800	340	243	581	130	623
MIN	54	54	60	74	70	120	112	78	71	75	62	64

CAL YR 1971 TOTAL 45,941 MEAN 126 MAX 1,070 MIN 54
WTR YR 1972 TOTAL 56,473 MEAN 154 MAX 962 MIN 54

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 mile southwest of Easton, and 1.5 miles upstream from Red Run.

DRAINAGE AREA.--146 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 939.60 ft above mean sea level. Prior to June 10, 1960, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--12 years, 114 cfs (10.61 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,090 cfs Mar. 14 (gage height, 10.90 ft); minimum, 9.0 cfs Oct. 4.
Period of record: Maximum discharge, 12,500 cfs July 5, 1969 (gage height, 16.02 ft); minimum, 2.8 cfs July 6, 1963.
Flood of Jan. 21, 1959 reached a stage of 14.17 ft (discharge, 10,100 cfs, result of contracted-opening Measurement of peak flow).

REMARKS.--Records good. Low flow slightly regulated by industry at Rittman 2.5 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	27	214	32	326	110	108	46	177	23	22
2	12	13	19	160	31	732	106	118	41	112	23	22
3	11	14	15	144	38	630	96	127	33	215	26	21
4	10	11	14	126	45	430	94	104	29	221	21	21
5	11	11	13	149	62	260	86	89	26	123	20	20
6	10	12	36	112	41	180	82	79	25	104	18	18
7	13	14	124	96	40	192	148	70	24	80	20	17
8	12	12	130	77	40	457	123	74	22	81	21	17
9	18	12	64	84	40	251	97	304	22	81	20	18
10	35	14	50	159	38	176	94	296	23	136	19	16
11	19	14	48	156	37	158	88	171	20	99	18	16
12	14	12	39	115	33	268	82	118	20	61	17	25
13	13	12	33	98	91	778	422	98	28	62	16	74
14	13	11	43	87	163	1,050	360	113	31	90	16	669
15	11	11	229	79	217	979	326	104	27	112	20	778
16	10	11	190	60	264	803	406	95	75	493	18	442
17	10	12	109	55	162	798	600	84	39	439	73	245
18	10	12	78	55	165	609	347	80	28	250	160	243
19	10	15	65	68	149	433	220	63	25	156	147	295
20	11	16	67	52	112	314	716	52	24	90	120	181
21	11	14	82	51	101	246	1,050	49	24	63	52	138
22	12	13	68	50	216	526	955	43	25	61	40	110
23	13	13	56	77	129	566	778	39	40	142	61	94
24	12	14	51	84	101	379	484	37	68	97	64	115
25	12	15	46	81	86	288	323	35	71	64	43	94
26	13	13	44	59	121	221	224	32	70	43	121	285
27	13	15	50	50	88	185	169	28	56	37	92	787
28	13	16	62	45	118	160	137	26	41	33	54	708
29	13	18	57	45	255	141	115	25	142	29	39	475
30	12	41	334	39	------	151	104	48	331	24	32	971
31	12	------	442	38	------	123	------	77	------	22	26	------
TOTAL	401	422	2,685	2,765	3,015	12,810	8,942	2,786	1,476	3,797	1,440	6,937
MEAN	12.9	14.1	86.6	89.2	104	413	298	89.9	49.2	122	46.5	231
MAX	35	41	442	214	264	1,050	1,050	304	331	493	160	971
MIN	10	11	13	38	31	123	82	25	20	22	16	16
CFSM	.09	.10	.59	.61	.71	2.83	2.04	.62	.34	.84	.32	1.58
IN.	.10	.11	.68	.70	.77	3.26	2.28	.71	.38	.97	.37	1.77

CAL YR 1971 TOTAL 32,932.3 MEAN 90.2 MAX 1,370 MIN 5.5 CFSM .62 IN 8.39
WTR YR 1972 TOTAL 47,476.0 MEAN 130 MAX 1,050 MIN 10 CFSM .89 IN 12.10

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1700	10.90	1,090	4-21	1300	10.84	1,070

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 mile south of Massillon, and 3 miles downstream from Newman Creek.

DRAINAGE AREA.--518 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 408 cfs.

EXTREMES.--Current year: Maximum discharge, 3,290 cfs July 16 (gage height, 8.22 ft); minimum, 87 cfs Nov. 15. Period of record: Maximum discharge, 10,700 cfs July 5, 1969 (gage height, 16.43 ft); minimum, 54 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	103	161	842	149	765	420	352	298	554	146	150
2	125	115	127	527	154	1,370	407	377	272	377	148	139
3	115	117	109	451	171	1,600	380	463	238	521	159	135
4	113	117	98	382	200	1,460	361	409	176	890	156	135
5	111	105	92	421	158	1,090	355	352	154	660	139	137
6	121	107	161	363	160	679	343	300	152	551	129	139
7	131	102	429	303	154	533	461	275	150	426	133	135
8	129	105	486	258	152	962	492	308	150	350	139	137
9	135	103	308	243	147	950	366	708	152	339	139	133
10	195	105	223	342	140	644	338	974	152	542	135	129
11	188	109	192	418	139	491	327	716	148	578	129	133
12	150	103	167	358	142	586	293	451	146	421	119	167
13	135	98	152	303	219	1,780	788	347	156	303	119	233
14	133	92	174	303	412	2,670	1,080	379	238	352	123	910
15	133	96	474	228	508	2,770	1,070	407	262	379	119	1,300
16	121	100	584	183	714	2,540	1,210	382	316	2,420	137	1,150
17	115	100	352	192	538	2,430	1,540	350	245	2,690	288	726
18	119	100	255	185	489	2,100	1,330	324	188	2,020	388	593
19	123	107	211	203	450	1,600	914	280	170	1,170	305	814
20	127	109	209	207	302	1,240	1,680	272	156	677	390	533
21	125	105	233	202	307	817	2,390	260	174	437	228	407
22	117	105	226	196	481	763	2,440	255	183	318	190	344
23	117	105	192	236	442	769	2,300	221	248	344	204	290
24	115	103	174	274	348	774	1,840	181	288	334	235	331
25	117	98	161	285	293	777	1,260	176	272	295	202	334
26	121	92	159	217	349	760	806	174	300	240	498	429
27	107	98	176	195	313	647	539	154	255	216	414	1,160
28	105	100	199	181	342	545	412	148	221	204	262	1,300
29	107	113	202	166	542	459	360	152	245	181	202	1,150
30	105	163	593	156	------	435	331	202	670	159	163	1,650
31	100	------	1,150	147	------	433	------	300	------	146	161	------
TOTAL	3,886	3,175	8,429	8,967	8,915	35,439	26,833	10,649	6,775	19,094	6,299	15,323
MEAN	125	106	272	289	307	1,143	894	344	226	616	203	511
MAX	195	163	1,150	842	714	2,770	2,440	974	670	2,690	498	1,650
MIN	100	92	92	147	139	433	293	148	146	146	119	129

CAL YR 1971 TOTAL 124,259 MEAN 340 MAX 3,850 MIN 74
WTR YR 1972 TOTAL 153,784 MEAN 420 MAX 2,770 MIN 92

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	2200	7.42	2,860	7-16	1300	8.22	3,290
4-21	1700	6.75	2,490				

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 downstream from Little Sandy Creek, and 0.6 mile upstream from Indian Run.

DRAINAGE AREA.--253 sq mi.

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 above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--34 years, 249 cfs (13.37 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,220 cfs Mar. 13 (gage height, 5.35 ft); minimum, 22 cfs Nov. 20. Period of record: Maximum discharge, 15,000 cfs Jan. 22, 1959 (gage height, 10.05 ft), from rating curve extended above 4,700 cfs on basis of contracted-opening and flow over road measurement of peak flow; minimum, 6.9 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	28	93	538	104	782	270	245	129	133	40	41
2	35	33	63	443	99	1,260	272	262	160	111	39	37
3	33	30	50	421	118	1,260	258	352	147	116	38	158
4	28	28	45	326	146	1,020	248	271	115	145	37	87
5	28	28	40	343	130	785	237	240	92	144	37	55
6	28	28	88	301	120	558	216	212	80	177	35	45
7	28	30	349	237	130	511	437	193	74	138	38	42
8	28	28	400	217	110	1,010	499	198	68	117	37	40
9	30	25	242	204	100	864	421	337	63	109	37	38
10	33	28	177	258	100	712	384	376	64	232	37	35
11	35	28	144	265	95	578	344	274	60	305	34	35
12	30	28	122	221	93	574	306	223	56	281	33	39
13	28	28	102	207	112	1,640	665	201	64	221	33	48
14	30	28	113	250	216	1,840	701	215	82	220	32	254
15	28	25	466	188	324	1,550	667	215	97	209	29	380
16	25	25	462	150	436	1,370	835	207	309	188	27	222
17	23	25	309	140	415	1,510	1,310	202	188	191	39	135
18	23	25	221	134	399	1,190	1,000	195	121	145	44	251
19	23	30	172	137	370	888	775	170	92	116	44	271
20	23	33	167	141	275	647	1,160	149	80	163	43	169
21	25	35	174	136	273	523	1,150	142	80	125	35	121
22	23	42	146	135	377	649	1,020	129	86	93	32	95
23	23	45	114	252	342	745	864	118	194	79	40	78
24	28	52	114	330	308	594	641	108	283	70	33	72
25	30	69	104	276	296	514	508	98	275	62	30	68
26	33	69	102	177	391	444	421	90	282	56	77	66
27	30	71	110	150	344	399	352	83	222	55	79	66
28	28	74	140	140	381	357	301	79	171	56	59	65
29	28	90	169	130	600	324	271	76	146	47	49	68
30	28	117	383	120	------	331	254	80	153	44	51	142
31	28	------	795	110	------	294	------	90	------	42	48	------
TOTAL	878	1,225	6,176	7,077	7,204	25,723	16,787	5,830	4,033	4,190	1,266	3,223
MEAN	28.3	40.8	199	228	248	830	560	188	134	135	40.8	107
MAX	35	117	795	538	600	1,840	1,310	376	309	305	79	380
MIN	23	25	40	110	93	294	216	76	56	42	27	35
CFSM	.11	.16	.79	.90	.98	3.28	2.21	.74	.53	.53	.16	.42
IN.	.13	.18	.91	1.04	1.06	3.78	2.47	.86	.59	.62	.19	.47

CAL YR 1971 TOTAL 75,837 MEAN 208 MAX 3,640 MIN 19 CFSM .82 IN 11.15
WTR YR 1972 TOTAL 83,612 MEAN 228 MAX 1,840 MIN 23 CFSM .90 IN 12.29

PEAK DISCHARGE (BASE, 1,800 CFS).--Mar. 13 (2130) 2,220 cfs (5.35 ft).

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 miles upstream from mouth, and 0.5 mile northeast of Canton.

DRAINAGE AREA.--43.1 sq mi.

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

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

AVERAGE DISCHARGE.--31 years, 31.3 cfs.

EXTREMES.--Current year: Maximum discharge, 864 cfs July 17 (gage height, 5.59 ft); minimum, 1.3 cfs Nov. 1. Period of record: Maximum discharge, 2,470 cfs Jan. 22, 1959 (gage height, 6.50 ft), from rating curve extended above 1,600 cfs on basis of contracted-opening measurement of peak flow; minimum, 0.2 cfs 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 1972, 11.1 cfs. 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). WSP 1143: 1948. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	1.6	22	80	9.0	104	33	33	44	19	16	11
2	3.1	1.7	13	44	9.7	207	33	45	53	16	16	11
3	2.8	1.9	8.4	39	11	173	31	191	33	139	15	11
4	2.7	1.9	6.7	33	11	82	31	83	23	279	14	11
5	2.7	1.9	6.4	42	10	52	29	55	19	126	13	10
6	2.9	2.0	20	32	11	35	27	41	17	152	13	10
7	3.0	2.3	91	23	10	36	50	35	16	80	13	10
8	3.2	2.0	147	22	9.5	150	43	38	15	53	13	10
9	3.4	1.6	70	18	9.0	73	34	116	15	48	13	10
10	4.5	1.7	38	28	8.5	40	33	116	14	45	13	9.7
11	3.8	1.7	27	36	8.5	34	32	62	13	43	13	9.4
12	2.7	1.9	18	28	10	48	28	44	14	33	13	17
13	2.7	2.0	15	23	13	336	75	36	16	28	13	19
14	2.6	2.0	14	20	21	483	74	41	19	83	13	131
15	2.4	2.0	73	12	28	254	115	40	23	86	12	129
16	2.4	2.1	92	12	52	166	137	37	42	274	12	47
17	2.1	2.6	41	10	40	260	274	34	25	720	19	28
18	3.2	2.7	25	10	37	131	107	32	18	382	16	97
19	3.2	3.8	18	13	32	83	65	28	15	152	18	121
20	2.1	4.3	16	13	18	64	203	26	14	81	15	51
21	1.9	4.5	22	14	24	57	244	25	15	57	13	31
22	2.3	4.8	18	14	60	86	137	22	15	42	12	24
23	1.9	3.6	14	18	61	102	118	21	24	35	13	20
24	2.0	5.0	12	25	28	66	74	19	33	31	11	21
25	1.9	5.0	11	25	23	57	61	18	40	28	13	21
26	2.0	5.3	11	14	40	47	45	17	39	25	37	22
27	2.3	5.3	13	12	29	43	40	16	26	23	23	45
28	2.3	7.4	16	11	36	40	40	15	20	23	15	41
29	2.1	13	15	10	81	36	34	15	19	21	13	33
30	2.0	27	62	9.4	------	39	32	18	19	19	12	70
31	1.9	------	221	8.6	------	35	------	30	------	17	12	------
TOTAL	81.4	124.6	1,176.5	699.0	740.2	3,419	2,279	1,349	698	3,160	457	1,081.1
MEAN	2.63	4.15	38.0	22.5	25.5	110	76.0	43.5	23.3	102	14.7	36.0
MAX	4.5	27	221	80	81	483	274	191	53	720	37	131
MIN	1.9	1.6	6.4	8.6	8.5	34	27	15	13	16	11	9.4

CAL YR 1971 TOTAL 10,371.4 MEAN 28.4 MAX 603 MIN 1.6
WTR YR 1972 TOTAL 15,264.8 MEAN 41.7 MAX 720 MIN 1.6

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0600	4.94	552	7-17	1300	5.59	864

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 mile southeast of North Industry, and 3 miles downstream from Sherrick Run.

DRAINAGE AREA.--175 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 970.77 ft above mean sea level, adjustment of 1912. Prior to Dec. 13, 1923, nonrecording gage at site 1 mile upstream at different datum.

AVERAGE DISCHARGE.--51 years, 168 cfs.

EXTREMES.--Current year: Maximum discharge, 2,290 cfs Mar. 13 (gage height, 5.36 ft); minimum, 56 cfs Oct. 31. Period of record: Maximum discharge, 8,600 cfs Jan. 21, 1959 (gage height, 11.29 ft), from rating curve extended above 6,500 cfs on basis of slope-area measurement of peak flow; minimum, 3.6 cfs 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 1972 water year 17.6 cfs. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	67	106	273	96	455	198	200	332	140	137	105
2	75	95	87	235	99	890	193	310	270	117	135	99
3	69	71	80	210	142	586	187	687	178	615	131	97
4	74	69	76	199	117	341	199	319	141	506	131	93
5	73	69	72	231	97	254	177	238	129	490	130	97
6	76	69	272	176	104	209	177	202	127	435	123	101
7	88	73	514	147	104	269	412	176	122	272	125	99
8	73	68	351	131	99	583	254	273	118	255	133	99
9	97	71	212	137	96	297	212	559	120	230	142	94
10	101	72	158	176	93	241	210	417	112	480	149	85
11	79	71	129	183	96	226	200	267	101	260	121	93
12	77	73	107	155	103	311	182	223	106	195	107	172
13	78	68	103	156	219	1,830	608	198	169	177	106	159
14	78	64	205	152	214	1,300	359	249	180	255	107	700
15	75	68	402	115	269	775	664	230	362	249	108	414
16	69	69	281	96	286	870	808	202	359	1,260	105	199
17	64	70	175	96	234	899	1,040	194	167	1,190	229	143
18	69	71	134	105	256	498	436	183	128	650	140	418
19	74	104	115	120	205	349	313	168	123	352	171	319
20	71	72	130	117	141	297	1,140	157	121	860	124	190
21	70	76	126	118	169	289	718	150	135	272	109	148
22	74	77	115	118	285	476	561	149	144	211	107	128
23	69	75	103	186	205	427	438	149	276	181	108	119
24	67	77	97	196	185	318	319	147	220	187	109	119
25	74	75	89	164	171	283	273	139	283	180	111	124
26	77	73	97	120	249	246	234	133	277	159	346	153
27	72	80	106	113	183	237	220	126	177	176	168	199
28	72	77	122	111	223	223	207	123	146	155	123	169
29	69	126	108	101	350	224	194	111	233	140	113	158
30	68	141	743	94	------	230	185	237	182	130	106	362
31	63	------	568	93	------	201	------	191	------	134	104	------
TOTAL	2,315	2,331	5,983	4,624	5,090	14,634	11,318	7,107	5,538	10,913	4,158	5,455
MEAN	74.7	77.7	193	149	176	472	377	229	185	352	134	182
MAX	101	141	743	273	350	1,830	1,140	687	362	1,260	346	700
MIN	63	64	72	93	93	201	177	111	101	117	104	85

CAL YR 1971 TOTAL 64,743 MEAN 177 MAX 1,940 MIN 61
WTR YR 1972 TOTAL 79,466 MEAN 217 MAX 1,830 MIN 63

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	1500	5.36	2,290	7-16	1800	4.50	1,650
4-17	0300	4.41	1,590	7-20	0630	4.36	1,560
7-3	1200	4.50	1,650				

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 miles upstream from mouth, and 1.4 miles northeast of Leesville.

DRAINAGE AREA.--48.3 sq mi.

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 above mean sea level. Prior to May 27, 1942, nonrecording gage at site 100 ft upstream at present datum.

AVERAGE DISCHARGE.--34 years, 50.6 cfs.

EXTREMES.--Current year: Maximum discharge, 286 cfs Mar. 23 (gage height, 4.66 ft); minimum, 0.30 cfs Jan. 12, 13 (gage height 1.75 ft).
Period of record: Maximum discharge, 740 cfs Mar. 4, 1940; maximum gage height, 7.88 ft 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.7	184	73	52	23	55	50	23	15	4.7	4.4
2	1.9	2.0	183	121	64	46	55	53	22	12	4.6	4.1
3	1.9	2.3	181	142	64	46	53	52	27	11	5.2	4.1
4	1.7	1.8	179	125	22	46	53	49	20	10	6.3	3.9
5	1.6	1.4	177	34	3.8	46	50	45	15	13	6.1	3.3
6	1.4	1.6	177	2.9	3.8	46	48	40	13	13	5.5	2.9
7	1.7	1.6	176	3.4	3.7	45	93	37	11	11	5.2	2.5
8	1.8	1.5	174	5.8	3.7	95	120	37	9.6	10	4.9	2.3
9	1.7	2.1	171	5.9	3.7	149	122	53	9.1	9.9	5.5	2.0
10	2.1	2.3	96	59	3.7	149	201	60	8.3	35	5.2	1.6
11	1.9	2.0	44	72	3.7	149	264	58	7.4	53	4.7	1.5
12	2.0	1.4	44	43	3.7	138	221	53	7.0	45	5.0	1.6
13	2.0	1.3	67	56	3.8	39	171	49	7.8	35	5.5	1.8
14	1.9	1.2	38	84	2.3	100	104	50	9.6	25	5.2	6.3
15	1.9	2.2	52	32	1.7	118	87	54	10	17	4.7	8.0
16	1.8	2.9	104	1.4	1.7	122	99	57	12	19	4.3	7.8
17	1.7	2.8	53	1.3	1.8	124	162	55	11	31	5.5	7.4
18	1.6	2.9	1.4	1.2	1.7	124	239	52	9.9	24	6.6	7.4
19	1.5	2.9	1.0	1.2	1.7	122	235	48	9.1	19	7.0	7.0
20	1.4	2.9	1.5	14	1.7	198	176	43	9.1	19	7.0	6.5
21	1.4	2.9	1.5	58	1.8	282	127	40	9.4	16	6.6	5.9
22	1.4	3.0	1.5	73	1.8	226	124	35	9.1	12	6.1	5.3
23	1.4	3.1	1.5	73	1.8	255	120	29	22	9.9	5.9	4.9
24	1.5	50	1.5	73	1.8	280	190	23	28	8.8	5.5	5.3
25	1.6	70	1.2	73	1.8	252	257	19	28	8.0	5.2	5.5
26	1.6	150	1.1	33	1.8	205	205	14	29	7.4	5.8	5.8
27	1.6	194	21	8.5	1.8	87	82	12	25	7.2	6.5	6.3
28	1.6	190	80	8.5	1.9	53	45	10	19	6.8	6.3	6.1
29	1.6	189	130	8.5	1.9	57	46	10	16	6.1	5.9	6.1
30	1.6	187	51	8.5	------	59	48	13	16	5.6	5.3	7.8
31	1.6	------	25	21	------	58	------	17	------	5.2	4.7	------
TOTAL	52.2	1,079.8	2,419.2	1,316.1	264.6	3,739	3,852	1,217	452.4	519.9	172.5	145.4
MEAN	1.68	36.0	78.0	42.5	9.12	121	128	39.3	15.1	16.8	5.56	4.85
MAX	2.1	194	184	142	64	282	264	60	29	53	7.0	8.0
MIN	1.4	1.2	1.0	1.2	1.7	23	45	10	7.0	5.2	4.3	1.5

CAL YR 1971 TOTAL 15,615.4 MEAN 42.8 MAX 265 MIN 1.0
WTR YR 1972 TOTAL 15,230.1 MEAN 41.6 MAX 282 MIN 1.0

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 downstream from Atwood Dam, 0.5 mile upstream from mouth, and 1.5 miles southeast of New Cumberland.

DRAINAGE AREA.--70.0 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Aug. 28, 1943, nonrecording gage at site 250 ft upstream at same datum.

AVERAGE DISCHARGE.--34 years, 69.5 cfs.

EXTREMES.--Current year: Maximum discharge, 478 cfs Mar. 21; maximum gage height, 10.98 ft Mar. 23 (backwater from Conotton Creek); minimum discharge, 0.10 cfs Feb. 9 (gage height 5.50 ft).
Period of record: Maximum discharge, 1,610 cfs Apr. 7, 1945; maximum gage height, 21.23 ft July 12, 1969 (from floodmark in gage house), backwater from Dover Lake; minimum discharge, 0.10 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	3.0	90	124	4.8	1.1	98	89	21	18	7.5	10
2	5.4	3.0	132	124	6.0	1.1	96	88	21	18	7.1	9.5
3	5.4	3.3	131	194	32	1.1	94	85	20	17	6.3	9.1
4	5.0	2.9	130	244	68	1.1	91	82	20	16	7.9	8.3
5	4.7	2.8	130	244	66	1.4	86	78	20	17	7.9	8.3
6	4.2	2.5	157	244	66	2.5	82	67	18	18	7.9	7.5
7	4.0	2.4	194	85	25	4.0	158	60	16	17	7.5	6.3
8	3.7	2.3	194	3.9	9.9	18	241	52	13	17	7.1	6.1
9	3.6	2.3	233	4.1	4.3	203	242	63	10	17	7.9	5.9
10	4.1	2.0	296	68	1.6	245	237	71	9.9	36	7.9	5.4
11	3.7	1.9	320	124	1.6	218	140	76	9.1	86	7.9	4.8
12	3.8	1.7	315	82	1.5	206	102	74	8.3	88	7.9	4.8
13	3.6	1.9	190	23	1.5	198	243	69	7.9	85	7.9	5.6
14	3.7	1.8	128	66	1.5	144	199	67	9.5	78	8.3	10
15	3.7	1.6	206	124	1.5	124	102	67	9.9	69	8.3	28
16	3.6	1.8	252	123	1.5	125	108	67	16	63	7.1	30
17	3.6	1.9	190	44	1.5	126	205	67	15	60	7.1	25
18	3.6	1.8	128	4.6	1.5	127	341	63	15	48	9.1	28
19	3.6	1.9	128	4.6	1.5	127	370	56	14	33	9.5	30
20	3.5	1.9	126	4.7	1.3	278	239	52	14	28	9.9	22
21	3.4	1.9	207	21	1.2	429	187	44	14	22	9.9	20
22	3.2	1.9	248	42	1.2	477	148	33	14	20	9.5	18
23	3.3	2.0	172	42	1.2	474	125	28	17	17	9.1	16
24	3.4	2.0	126	42	1.2	363	247	25	22	15	9.1	16
25	3.6	2.2	124	42	1.1	252	318	22	22	13	8.7	15
26	3.6	2.2	124	60	1.1	250	331	22	22	10	9.9	15
27	3.5	2.4	124	68	1.2	244	232	18	22	9.9	18	15
28	3.5	2.4	124	68	1.1	143	99	17	21	9.9	18	16
29	3.3	3.0	124	66	1.1	103	95	14	18	9.1	17	16
30	3.3	3.6	124	66	------	102	92	13	18	9.1	16	20
31	3.1	------	124	22	------	100	------	15	------	7.9	14	------
TOTAL	119.4	68.3	5,291	2,473.9	308.9	5,088.3	5,348	1,644	477.6	971.9	297.2	431.6
MEAN	3.85	2.28	171	79.8	10.7	164	178	53.0	15.9	31.4	9.59	14.4
MAX	5.7	3.6	320	244	68	477	370	89	22	88	18	30
MIN	3.1	1.6	90	3.9	1.1	1.1	82	13	7.9	7.9	6.3	4.8

CAL YR 1971 TOTAL 21,966.0 MEAN 60.2 MAX 506 MIN 1.6
WTR YR 1972 TOTAL 22,520.1 MEAN 61.5 MAX 477 MIN 1.1

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 miles downstream from Dover Dam, 1.5 miles east of Dover, and 3.4 miles upstream from Sugar Creek.

DRAINAGE AREA.--1,405 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Aug. 30, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years, 1,346 cfs.

EXTREMES.--Current year: Maximum discharge, 5,630 cfs Mar. 15 (gage height, 6.94 ft); minimum, 186 cfs Oct. 6.
Period of record: Maximum discharge, 26,400 cfs Jan. 26, 1937 (gage height, 15.51 ft); minimum, 2.3 cfs July 20, 1946, Oct. 27, 1948; minimum daily, 6.5 cfs Oct. 26, 1948.
Flood in March 1913 reached a stage of about 23.5 ft (discharge, 62,000 cfs, 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 1972 water year, 17.6 cfs (see REMARKS for station 03124500). Flow regulated by four flood-control reservoirs since 1936 at points 2.2 to 25 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	231	649	3,020	700	2,300	1,540	1,440	1,080	1,510	455	408
2	340	260	649	2,260	700	3,240	1,500	1,470	1,050	1,230	441	390
3	217	302	577	2,030	715	4,240	1,440	1,990	987	1,150	441	378
4	199	280	538	1,910	944	4,330	1,390	1,920	798	2,150	448	455
5	199	265	519	1,890	800	3,680	1,370	1,520	675	1,840	420	402
6	195	260	616	1,750	750	2,740	1,270	1,340	619	1,890	384	396
7	204	280	1,290	1,450	700	2,130	1,940	1,170	596	1,530	396	390
8	213	260	2,110	1,110	650	2,820	2,790	1,120	582	1,220	414	378
9	208	260	1,750	988	650	3,480	2,560	1,770	561	1,120	434	378
10	275	275	1,300	1,070	650	3,080	2,320	2,660	547	1,650	414	360
11	302	275	1,080	1,470	600	2,560	2,130	2,240	529	2,150	396	348
12	270	280	916	1,440	600	2,400	1,880	1,710	513	1,680	396	390
13	240	270	811	1,190	882	3,990	2,320	1,390	557	1,380	390	497
14	231	260	707	1,220	1,270	5,150	3,720	1,370	750	1,200	372	1,240
15	222	250	1,440	1,100	1,600	5,390	3,510	1,450	797	1,350	378	2,230
16	213	260	2,200	900	2,120	5,280	3,650	1,400	1,430	1,960	366	1,980
17	199	265	1,790	750	2,060	5,440	4,510	1,330	1,230	4,080	476	1,440
18	190	270	1,220	850	1,890	5,430	4,770	1,250	889	3,910	788	1,280
19	199	291	923	950	1,810	5,410	4,210	1,140	719	3,190	748	1,590
20	208	335	825	850	1,490	5,230	4,200	1,040	669	2,160	756	1,350
21	213	296	846	767	1,200	4,770	5,330	972	665	1,560	665	954
22	217	280	930	834	1,460	4,830	5,360	898	713	1,010	504	777
23	226	280	853	1,010	1,680	4,790	4,710	839	900	844	490	662
24	231	291	701	1,320	1,430	4,450	4,840	759	1,330	836	532	625
25	240	324	636	1,400	1,300	4,000	4,860	702	1,330	764	539	678
26	250	358	616	1,180	1,380	3,050	4,170	654	1,530	665	724	694
27	260	418	629	936	1,520	1,740	2,700	608	1,330	602	1,100	1,170
28	250	467	860	850	1,410	2,100	1,890	569	1,100	595	716	1,630
29	245	499	839	800	1,720	2,670	1,630	550	1,010	546	567	1,630
30	240	623	1,210	750	------	1,880	1,490	566	1,380	483	469	1,790
31	240	------	3,050	700	------	1,720	------	883	------	434	414	------
TOTAL	7,318	9,265	33,080	38,745	34,681	114,320	90,000	38,720	26,866	46,689	16,033	26,890
MEAN	236	309	1,067	1,250	1,196	3,688	3,000	1,249	896	1,506	517	896
MAX	382	623	3,050	3,020	2,120	5,440	5,360	2,660	1,530	4,080	1,100	2,230
MIN	190	231	519	700	600	1,720	1,270	550	513	434	366	348

CAL YR 1971 TOTAL 406,751 MEAN 1,114 MAX 5,570 MIN 190
WTR YR 1972 TOTAL 482,607 MEAN 1,319 MAX 5,440 MIN 190

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 miles upstream from Beach City Dam.

DRAINAGE AREA.--160 sq mi.

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 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.--28 years, 132 cfs (11.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,530 cfs Mar. 14 (gage height, 5.36 ft); minimum daily, 6.5 cfs Oct. 7, 8.
Period of record: Maximum daily discharge, 7,960 cfs Jan. 22, 1959; maximum gage height, 23.76 ft July 6, 1969 (backwater from Beach City Lake); minimum discharge, 1.4 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	14	44	288	34	343	133	124	101	110	51	44
2	9.8	14	27	162	35	583	138	126	74	65	47	41
3	9.4	18	21	151	42	850	128	264	58	117	48	39
4	8.8	18	20	120	56	627	123	188	50	295	48	41
5	8.0	15	20	160	48	331	113	141	44	154	42	38
6	7.2	14	28	137	42	208	104	118	42	150	37	34
7	6.5	14	132	122	40	226	308	104	42	102	37	33
8	6.5	16	189	82	36	481	359	106	38	81	38	30
9	8.0	16	91	76	32	440	230	298	35	81	38	30
10	16	16	60	129	30	250	200	424	36	192	36	28
11	20	17	51	168	30	212	176	242	36	230	34	26
12	15	16	43	129	32	254	148	159	33	116	31	27
13	12	16	37	98	44	633	308	131	35	80	35	32
14	11	15	37	85	221	1,360	474	159	56	73	32	139
15	11	14	284	64	242	1,020	311	170	50	81	29	311
16	9.4	13	256	62	432	700	370	138	174	367	34	148
17	9.8	11	124	40	336	832	536	124	75	965	87	80
18	9.0	11	78	43	305	733	546	118	51	1,220	452	76
19	8.2	13	58	61	269	486	306	100	43	514	379	80
20	7.4	19	57	67	149	326	542	87	38	212	266	61
21	6.6	19	60	65	147	266	1,280	81	39	136	124	50
22	6.6	18	49	61	333	333	962	74	42	115	88	44
23	6.6	13	41	82	227	428	670	66	54	397	100	40
24	13	13	39	113	174	324	414	60	65	412	82	44
25	15	13	36	109	126	248	260	55	58	216	67	58
26	13	13	36	59	212	206	198	52	65	129	109	51
27	12	16	40	61	155	182	169	47	77	98	220	182
28	13	19	44	56	189	163	145	44	57	87	102	258
29	13	21	46	43	278	147	131	44	48	71	73	169
30	12	38	182	41	------	161	121	44	154	62	58	311
31	12	------	502	35	------	143	------	88	------	56	49	------
TOTAL	326.8	483	2,732	2,969	4,296	13,496	9,903	3,976	1,770	6,984	2,873	2,545
MEAN	10.5	16.1	88.1	95.8	148	435	330	128	59.0	225	92.7	84.8
MAX	20	38	502	288	432	1,360	1,280	424	174	1,220	452	311
MIN	6.5	11	20	35	30	143	104	44	33	56	29	26
CFSM	.07	.10	.55	.60	.93	2.72	2.06	.80	.37	1.41	.58	.53
IN.	.08	.11	.64	.69	1.00	3.14	2.30	.92	.41	1.62	.67	.59

CAL YR 1971 TOTAL 40,245.0 MEAN 110 MAX 2,740 MIN 6.5 CFSM .69 IN 9.36
WTR YR 1972 TOTAL 52,353.8 MEAN 143 MAX 1,360 MIN 6.5 CFSM .89 IN 12.17

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 downstream from Beach City Dam, 0.4 mile downstream from South Fork, and 1.8 miles southeast of Beach City.

DRAINAGE AREA.--300 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Mar. 23, 1939, nonrecording gage at site 500 ft downstream at datum 1 ft higher. Mar. 23, 1939, to Sept. 26, 1949, water-stage recorder at site 300 ft downstream at present datum.

AVERAGE DISCHARGE.--34 years, 255 cfs.

EXTREMES.--Current year: Maximum discharge, 1,710 cfs Mar. 14 (gage height, 6.12 ft); minimum, 9.2 cfs Oct. 7, 8.
Period of record: Maximum discharge, 7,520 cfs July 6, 1969 (gage height, 11.26 ft, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	16	65	734	77	471	238	240	160	160	62	71
2	17	19	48	413	78	822	238	234	157	110	56	64
3	15	23	33	362	87	1,370	226	342	110	94	56	60
4	13	28	28	290	110	1,240	212	345	86	254	59	60
5	12	24	25	304	96	782	202	260	72	224	52	57
6	11	21	33	299	86	492	180	212	64	198	44	51
7	9.6	20	191	232	82	416	370	180	62	157	42	47
8	9.6	21	433	209	78	681	882	172	58	117	43	44
9	12	22	305	172	66	790	692	352	54	111	45	41
10	18	23	185	232	57	536	526	674	52	177	50	39
11	29	23	130	306	60	411	448	508	51	362	44	35
12	25	24	100	273	65	402	373	333	47	224	38	35
13	20	23	81	224	86	854	480	258	54	145	41	41
14	16	22	78	214	292	1,650	982	269	143	111	41	141
15	15	21	390	152	448	1,690	786	342	145	107	35	448
16	15	20	619	121	667	1,470	667	294	273	228	32	282
17	14	18	382	95	667	1,480	894	249	218	762	64	149
18	13	16	239	90	558	1,540	966	247	126	1,250	511	112
19	12	19	164	117	501	1,110	681	207	91	770	588	123
20	10	24	136	139	330	742	858	175	75	345	486	98
21	10	29	146	132	267	581	1,600	160	70	198	267	77
22	10	30	128	129	405	581	1,520	142	75	142	155	64
23	12	26	101	164	381	730	1,600	125	90	278	161	58
24	18	22	89	236	302	639	1,410	111	116	442	145	55
25	21	21	86	238	240	492	707	100	106	309	114	66
26	22	22	82	166	287	411	480	89	102	178	154	69
27	20	24	87	114	292	357	383	79	112	126	402	126
28	19	28	95	125	273	318	321	72	99	107	249	238
29	19	34	117	110	355	280	278	70	83	91	152	222
30	18	48	167	99	------	290	249	70	132	78	108	299
31	17	------	797	87	------	267	------	106	------	68	84	------
TOTAL	491.2	711	5,560	6,578	7,293	23,895	19,449	7,017	3,083	7,923	4,380	3,272
MEAN	15.8	23.7	179	212	251	771	648	226	103	256	141	109
MAX	29	48	797	734	667	1,690	1,600	674	273	1,250	588	448
MIN	9.6	16	25	87	57	267	180	70	47	68	32	35

CAL YR 1971 TOTAL 75,663.7 MEAN 207 MAX 2,130 MIN 8.7
WTR YR 1972 TOTAL 89,652.2 MEAN 245 MAX 1,690 MIN 9.6

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 upstream from bridge on State Highway 21, 0.8 mile upstream from Broad Run, and 0.1 mile southeast of Strasburg.

DRAINAGE AREA.--311 sq mi.

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 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 higher.

AVERAGE DISCHARGE.--15 years (1931-32, 1935-38, 1961-72), 268 cfs.

EXTREMES.--Current year: Maximum discharge, 1,930 cfs Mar. 14 (gage height, 4.81 ft); minimum, 15 cfs Oct. 8, 9, 21-23.
Period of record: Maximum discharge, 19,700 cfs Aug. 7, 1935 (gage height, 14.70 ft, present datum) from rating curve extended above 8,400 cfs; 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 miles 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 miles upstream; pumpage is returned to Nimishillen Creek. Mean pumpage for water year 1972, 17.6 cfs. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	18	71	861	84	502	255	254	203	176	63	70
2	23	19	54	456	82	866	252	248	208	123	57	60
3	21	20	38	384	92	1,410	246	337	142	95	54	60
4	19	26	33	306	120	1,380	230	365	107	246	55	60
5	17	25	30	310	110	932	223	274	89	243	52	55
6	17	22	41	316	95	605	200	230	77	208	43	49
7	16	21	187	253	90	495	390	196	72	176	39	44
8	15	21	463	228	85	740	992	187	68	130	39	40
9	17	21	298	193	75	914	782	358	61	119	42	38
10	21	23	190	242	60	645	585	695	57	173	45	36
11	31	23	140	317	65	495	490	536	55	376	42	34
12	31	24	110	293	70	470	398	351	52	243	38	31
13	26	23	90	247	95	938	500	274	55	161	38	38
14	23	23	85	231	300	1,820	1,100	277	144	121	38	128
15	20	23	422	170	460	1,910	896	351	163	112	38	445
16	20	21	722	140	700	1,700	752	311	271	220	31	303
17	20	20	406	112	750	1,630	992	262	243	775	65	168
18	19	19	241	100	650	1,700	1,110	257	146	1,290	500	122
19	17	20	169	125	550	1,260	794	228	102	830	550	130
20	16	23	141	150	408	860	957	196	81	376	480	106
21	15	31	148	142	290	656	1,760	178	75	218	250	81
22	15	31	134	140	450	625	1,570	163	77	159	150	67
23	15	29	108	171	420	794	1,580	142	92	257	160	60
24	19	25	98	246	318	728	1,420	128	123	448	140	56
25	23	25	94	258	266	545	745	119	115	334	120	63
26	24	25	90	186	290	442	500	108	108	203	160	69
27	23	27	94	124	313	382	400	100	119	144	400	117
28	21	29	102	134	280	334	334	95	108	115	220	239
29	20	37	122	120	358	300	292	96	90	98	150	244
30	19	51	170	110	------	300	262	107	130	83	110	290
31	19	------	884	95	------	282	------	140	------	72	80	------
TOTAL	627	745	5,975	7,160	7,926	26,660	21,007	7,563	3,433	8,324	4,249	3,303
MEAN	20.2	24.8	193	231	273	860	700	244	114	269	137	110
MAX	31	51	884	861	750	1,910	1,760	695	271	1,290	550	445
MIN	15	18	30	95	60	282	200	95	52	72	31	31

CAL YR 1971 TOTAL 79,286 MEAN 217 MAX 2,100 MIN 12
WTR YR 1972 TOTAL 96,972 MEAN 265 MAX 1,910 MIN 15

03125000 Home Creek near New Philadelphia, Ohio

LOCATION.--Lat 40°28'06", long 81°24'10", Tuscarawas County, on right bank 100 ft downstream from highway bridge, 0.5 mile upstream from the mouth, and 1.5 miles southeast of New Philadelphia.

DRAINAGE AREA.--1.64 sq mi.

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

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

AVERAGE DISCHARGE.--35 years (1937-72), 1.21 cfs (10.02 inches per year).

EXTREMES.--Current year: Maximum discharge, 34 cfs Apr. 20 (gage height, 2.15 ft); no flow several days in Oct., Nov., Aug., and Sept.
Period of record: Maximum discharge, 378 cfs July 7, 1969 (gage height, 5.77 ft); no flow at times in 1938-40, 1942-68, 1970-72.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	0	.12	1.6	.27	2.3	1.5	1.0	.52	.08	0	.06
2	.01	.14	.06	2.4	.32	8.7	1.4	1.2	.19	.05	0	.05
3	.01	.04	.04	1.4	.74	6.0	1.2	.91	.12	.07	.02	.07
4	.01	.01	.06	1.5	.64	3.7	1.6	.84	.08	.05	.01	.06
5	0	.01	.11	1.9	.27	2.7	1.1	.70	.07	.47	.01	.03
6	.04	.01	2.1	1.2	.28	2.3	1.5	.57	.08	.19	.01	.03
7	0	.04	2.8	.96	.30	4.0	12	.52	.06	.08	.02	.02
8	0	.02	1.2	.74	.21	5.3	4.0	1.3	.04	.12	.01	.02
9	.04	.03	.61	1.3	.18	3.6	1.9	3.3	.04	.08	.04	.02
10	.09	.04	.47	1.5	.15	2.2	1.6	1.6	.03	1.8	.01	.01
11	.02	.05	.40	1.1	.18	1.8	1.7	1.1	.03	.40	.01	0
12	.01	.06	.27	.87	.25	2.6	1.8	.87	.03	.19	.01	.01
13	0	.03	.21	.96	2.5	10	4.7	.80	1.0	.10	.01	.03
14	.04	.02	1.8	.77	3.1	5.4	3.4	1.1	.24	.08	0	.61
15	.01	.03	2.4	.42	4.0	4.7	2.7	.91	.30	.08	0	.12
16	.01	.02	1.2	.21	2.8	8.7	3.4	.74	.35	.18	0	.05
17	.01	.02	.70	.37	2.0	6.5	3.9	.74	.10	.16	.84	.03
18	0	.02	.44	.47	2.5	3.9	2.7	.61	.06	.08	.21	.40
19	0	.06	.35	.54	1.8	2.5	2.5	.44	.05	.04	.21	.08
20	0	.05	.70	.47	1.8	2.1	14	.44	.08	.03	.05	.04
21	0	.07	.52	.47	1.3	2.1	5.8	.37	.16	.02	.02	.02
22	0	.04	.30	.77	1.1	5.1	5.1	.30	.28	.02	.01	.02
23	.01	.02	.25	1.6	1.0	3.3	3.6	.24	1.4	.02	.02	.02
24	.02	.04	.28	1.4	1.1	2.4	2.5	.21	.54	.15	.02	.12
25	.03	.05	.24	1.0	1.1	1.9	1.9	.18	.40	.02	.02	.08
26	.02	.05	.35	.57	1.5	1.6	1.6	.14	.28	.01	4.0	.16
27	.01	.12	.42	.49	1.4	1.5	1.4	.14	.18	.04	4.9	.18
28	.01	.09	1.0	.49	1.3	1.3	1.2	.10	.11	.02	.57	.15
29	0	.49	.57	.37	1.5	1.7	1.1	.10	.12	.01	.25	.42
30	0	.32	9.0	.32	------	1.9	1.0	.16	.12	.01	.16	2.4
31	0	------	3.3	.22	------	1.6	------	.25	------	.01	.08	------
TOTAL	.42	1.99	32.27	28.38	35.59	113.4	93.8	21.88	7.06	4.66	11.52	5.31
MEAN	.014	.066	1.04	.92	1.23	3.66	3.13	.71	.24	.15	.37	.18
MAX	.09	.49	9.0	2.4	4.0	10	14	3.3	1.4	1.8	4.9	2.4
MIN	0	0	.04	.21	.15	1.3	1.0	.10	.03	.01	0	0
CFSM	.009	.04	.63	.56	.75	2.23	1.91	.43	.15	.09	.23	.11
IN.	.009	.05	.73	.64	.81	2.57	2.13	.50	.16	.11	.26	.12

CAL YR 1971 TOTAL 377.21 MEAN 1.03 MAX 45 MIN 0 CFSM .63 IN 8.56
WTR YR 1972 TOTAL 356.28 MEAN .97 MAX 14 MIN 0 CFSM .59 IN 8.08

PEAK DISCHARGE (BASE, 50 CFS).--No peak above base.

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 downstream from outlet of Piedmont Dam and Boggs Fork, and 0.7 mile northwest of Piedmont.

DRAINAGE AREA.--122 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Sept. 9, 1949, at site 1,000 ft downstream at datum 1.00 ft higher.

AVERAGE DISCHARGE.--34 years, 129 cfs.

EXTREMES.--Current year: Maximum discharge, 877 cfs Apr. 13 (gage height, 8.32 ft); minimum, 8.9 cfs Aug. 16, 17.
Period of record: Maximum discharge, 1,470 cfs Dec. 4, 1950; maximum gage height, 11.44 ft Mar. 5, 1963; minimum discharge, 0.1 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	17	250	264	84	101	47	416	58	80	13	26
2	48	20	283	267	84	79	56	414	53	67	14	20
3	46	21	277	264	117	112	67	404	50	64	24	18
4	41	18	275	273	152	166	78	404	45	61	22	18
5	38	17	231	332	142	202	83	398	45	63	17	15
6	35	16	273	313	140	184	83	386	32	66	14	14
7	28	17	434	242	131	207	281	342	28	58	14	13
8	24	16	332	142	79	257	276	161	23	54	14	13
9	23	17	304	143	56	245	206	144	21	53	15	12
10	35	16	308	226	25	257	220	141	21	58	13	11
11	31	16	309	266	49	234	287	128	20	61	10	10
12	26	15	296	193	64	177	284	124	19	58	11	11
13	25	14	288	152	153	240	660	120	32	53	12	12
14	26	14	324	152	198	243	440	125	70	51	12	15
15	26	97	383	116	222	247	302	125	56	49	11	16
16	24	152	376	56	181	330	284	121	51	58	9.6	15
17	23	151	349	56	137	377	374	119	41	61	63	15
18	20	149	299	60	127	318	394	118	35	55	110	16
19	18	153	233	87	127	272	407	115	31	51	117	15
20	17	151	178	114	101	294	359	110	35	47	116	14
21	16	151	122	129	97	309	329	105	47	44	83	13
22	17	170	51	127	162	332	406	99	44	42	67	13
23	18	179	29	141	225	342	383	88	95	41	60	12
24	23	172	30	199	230	360	330	76	100	34	55	17
25	26	161	28	239	191	364	335	73	81	23	51	21
26	25	161	30	211	193	273	382	70	72	19	59	24
27	23	163	57	203	182	164	423	63	66	19	53	28
28	21	169	112	130	178	128	432	60	87	18	47	61
29	19	173	125	89	176	83	423	56	75	16	42	75
30	18	187	157	88	------	48	420	58	95	14	38	88
31	18	------	222	83	------	45	------	61	------	13	34	------
TOTAL	828	2,773	6,965	5,357	4,003	6,990	9,051	5,224	1,528	1,451	1,220.6	651
MEAN	26.7	92.4	225	173	138	225	302	169	50.9	46.8	39.4	21.7
MAX	50	187	434	332	230	377	660	416	100	80	117	88
MIN	16	14	28	56	25	45	47	56	19	13	9.6	10

CAL YR 1971 TOTAL 39,944.1 MEAN 109 MAX 638 MIN 6.7
WTR YR 1972 TOTAL 46,041.6 MEAN 126 MAX 660 MIN 9.6

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 mile downstream from Brushy Fork, 3.6 miles upstream from Weaver Run, 6 miles upstream from Laurel Creek, and 9 miles south of Dennison.

DRAINAGE AREA.--282 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Feb. 9, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 300 cfs.

EXTREMES.--Current year: Maximum discharge, 1,660 cfs Apr. 14 (gage height, 13.32 ft); minimum daily, 17 cfs Aug. 12, 13, 16.
Period of record: Maximum discharge, 4,410 cfs Mar. 7, 1945, Mar. 5, 1963; maximum gage height, 17.29 ft Mar. 5, 1963; minimum discharge, 1.0 cfs Oct. 3, 4, 1940.

REMARKS.--Records good. Flow regulated by Clendening Lake on Brushy Fork (1.9 miles upstream) and Piedmont Lake (16 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	27	374	640	204	363	166	802	138	206	18	52
2	80	30	406	645	193	321	180	630	128	178	19	39
3	75	34	400	631	217	464	187	515	120	160	27	32
4	64	31	403	527	315	472	204	494	106	149	34	32
5	57	28	385	613	299	488	229	488	94	146	28	29
6	51	26	357	649	280	472	218	468	78	165	22	27
7	45	26	729	525	274	479	613	447	54	147	21	26
8	37	24	1,170	337	217	667	1,050	350	43	129	23	24
9	34	24	1,100	304	199	652	787	292	36	124	24	23
10	40	24	780	383	141	567	706	334	36	131	22	22
11	52	24	696	460	139	516	786	301	46	151	19	21
12	48	24	642	416	175	459	760	273	41	143	17	20
13	37	23	612	363	284	572	1,210	257	61	122	17	21
14	34	23	610	409	609	651	1,570	254	155	108	18	23
15	35	60	751	365	684	592	1,100	263	165	101	18	26
16	31	100	742	269	708	696	714	274	145	113	17	26
17	26	190	548	196	540	1,080	900	255	127	132	69	24
18	25	200	476	161	401	1,100	1,070	248	103	117	355	24
19	22	200	382	192	430	790	952	250	86	101	252	23
20	19	200	357	227	377	612	1,010	240	75	87	311	22
21	19	210	317	288	353	603	824	232	96	73	212	20
22	20	210	242	300	390	621	924	217	103	61	153	19
23	23	240	159	340	437	715	1,080	200	152	56	131	18
24	28	270	146	394	475	685	932	178	248	47	121	19
25	35	300	143	498	488	664	741	166	226	36	108	22
26	41	300	140	488	555	618	834	155	197	25	115	24
27	38	300	199	423	541	460	904	141	173	22	127	25
28	32	300	285	359	415	403	904	129	251	22	108	27
29	27	320	361	257	394	349	870	119	230	21	90	81
30	25	350	393	256	------	226	844	121	215	19	73	82
31	25	------	561	202	------	182	------	143	------	18	61	------
TOTAL	1,207	4,118	14,866	12,117	10,734	17,539	23,269	9,236	3,728	3,110	2,630	873
MEAN	38.9	137	480	391	370	566	776	298	124	100	84.8	29.1
MAX	82	350	1,170	649	708	1,100	1,570	802	251	206	355	82
MIN	19	23	140	161	139	182	166	119	36	18	17	18

CAL YR 1971 TOTAL 86,541 MEAN 237 MAX 2,350 MIN 14
WTR YR 1972 TOTAL 103,427 MEAN 283 MAX 1,570 MIN 17

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 miles upstream from Little Stillwater Creek.

DRAINAGE AREA.--367 sq mi.

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

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

AVERAGE DISCHARGE.--50 years, 417 cfs.

EXTREMES.--Current year: Maximum discharge, 2,120 cfs Apr. 14 (gage height, 3.09 ft); minimum, 25 cfs Nov. 4-12, Sept. 11; minimum gage height, 0.12 ft Nov. 4-12.
Period of record: Maximum discharge, 7,650 cfs Aug. 8, 9, 1935 (gage height, 14.2 ft at former site, 12.8 ft at present site); no flow at times in 1930, 1932, 1936, 1939-40, 1953.
Flood in March 1913 reached a stage of about 17.5 ft at former site, and about 15.5 ft at present site.

REMARKS.--Records good. Flow regulated by Piedmont Lake (35 miles upstream) and Clendening Lake on Brushy Fork (22 miles upstream) beginning in 1938 (see stations 03125500 and 03126500). Water is diverted from Dennison Water Supply dam 1.7 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	37	409	743	227	502	182	884	185	295	35	76
2	87	31	445	765	212	476	179	806	161	253	38	91
3	87	31	475	810	214	665	189	631	143	216	47	111
4	83	31	460	691	194	706	197	579	127	196	51	76
5	76	27	453	685	274	653	229	564	113	192	58	55
6	68	25	423	778	350	583	230	544	103	214	51	43
7	61	25	779	703	315	571	698	520	96	202	46	37
8	58	25	1,190	515	248	805	1,300	475	84	174	48	34
9	52	27	1,190	367	187	911	1,100	400	74	160	55	31
10	55	25	960	400	156	768	956	463	65	164	52	29
11	58	25	842	544	140	664	901	424	66	191	37	27
12	68	27	761	566	137	603	882	362	71	193	31	29
13	65	31	707	467	220	786	1,170	322	91	172	29	49
14	55	31	689	502	738	1,080	1,950	318	147	147	29	72
15	52	31	788	464	971	964	1,500	328	226	134	29	76
16	55	111	950	330	1,010	1,010	1,000	348	194	130	28	55
17	55	208	779	274	848	1,200	1,080	330	173	149	53	43
18	52	224	632	199	646	1,200	1,230	307	148	152	539	40
19	43	219	528	186	594	1,100	1,200	290	124	134	500	37
20	37	230	445	218	552	886	1,300	277	106	121	453	34
21	37	241	402	282	443	760	1,100	258	104	112	354	31
22	43	241	327	336	457	775	1,200	241	123	100	231	34
23	43	270	224	439	487	875	1,300	219	146	89	181	31
24	46	307	161	537	531	857	1,200	197	262	84	156	33
25	49	340	151	631	576	805	1,040	214	311	69	132	41
26	61	327	141	670	611	745	924	198	272	57	132	49
27	61	327	151	584	702	626	952	179	238	51	141	56
28	55	333	252	504	596	480	962	164	251	47	137	61
29	43	347	395	362	507	413	937	154	355	46	115	77
30	40	380	490	306	------	318	906	155	309	42	98	153
31	37	------	734	250	------	212	------	174	------	38	83	------
TOTAL	1,762	4,534	17,333	15,108	13,143	22,999	27,994	11,325	4,868	4,324	3,969	1,611
MEAN	56.8	151	559	487	453	742	933	365	162	139	128	53.7
MAX	87	380	1,190	810	1,010	1,200	1,950	884	355	295	539	153
MIN	37	25	141	186	137	212	179	154	65	38	28	27
(+)	1.47	1.42	1.41	1.51	1.65	1.51	1.47	1.61	1.68	1.65	1.77	1.80

CAL YR 1971 TOTAL 112,099 MEAN 307 MAX 2,740 MIN 16 (+) 1.49
WTR YR 1972 TOTAL 128,970 MEAN 352 MAX 1,950 MIN 25 (+) 1.58

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

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 downstream from outlet of lake at Tappan Dam, 1 mile west of Tappan, and 2 miles upstream from Plum Run.

DRAINAGE AREA.--71.1 sq mi.

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 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 higher. Jan. 30 to Mar. 24, 1939, nonrecording gage and Mar. 25, 1939, to Aug. 6, 1944, water-stage recorder, at site 150 ft downstream at present datum.

AVERAGE DISCHARGE.--34 years, 73.1 cfs.

EXTREMES.--Current year: Maximum discharge, 500 cfs Apr. 10, 11 (gage height, 6.62 ft); minimum, 1.1 cfs Dec. 23 (gage height 4.26 ft).
Period of record: Maximum discharge, 1,050 cfs Mar. 13, 1939 (gage height, 10.00 ft); 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	2.5	145	2.4	60	2.1	2.6	48	29	30	6.6	9.0
2	5.0	2.6	145	2.4	61	2.1	2.8	55	26	27	7.5	14
3	4.8	2.6	145	176	61	2.1	2.5	57	21	23	7.9	41
4	4.2	2.4	145	290	61	40	2.8	58	17	21	7.1	33
5	3.6	2.4	145	304	61	63	3.8	58	16	22	6.4	27
6	3.2	2.0	145	228	61	63	5.1	57	18	22	6.1	22
7	2.9	2.0	145	88	61	62	51	55	18	19	6.0	18
8	2.9	2.0	145	61	61	62	108	56	17	18	5.9	15
9	2.9	2.0	165	61	61	62	116	64	15	18	5.9	13
10	3.3	2.0	195	61	22	62	320	68	12	21	5.8	12
11	3.1	1.8	203	61	2.3	62	489	66	10	22	5.5	12
12	2.9	1.8	203	61	2.3	63	450	65	9.3	20	5.6	12
13	2.8	1.8	203	61	2.3	81	460	63	9.9	17	5.8	12
14	2.8	1.8	203	61	2.1	134	367	62	11	15	5.3	18
15	2.8	107	203	61	2.2	152	162	64	13	14	5.2	18
16	2.7	184	200	61	2.3	166	170	66	14	16	5.0	16
17	2.7	184	200	61	2.3	184	269	65	13	18	6.3	16
18	2.6	163	200	60	2.3	186	397	65	13	18	8.0	15
19	2.5	150	198	60	2.3	186	411	68	12	16	9.6	14
20	2.5	150	198	61	2.2	186	303	69	12	14	14	13
21	2.3	150	198	61	2.3	248	214	67	13	13	13	12
22	2.4	150	61	60	2.2	354	226	65	12	12	12	11
23	2.4	150	1.1	61	2.2	408	235	62	24	11	13	10
24	2.7	148	1.2	60	2.2	403	235	58	42	10	13	11
25	2.8	148	1.2	60	2.1	366	330	55	44	9.6	12	12
26	2.9	148	1.6	60	2.1	319	419	52	44	8.9	14	12
27	2.8	148	2.3	61	2.1	318	370	46	41	8.8	14	13
28	2.7	148	2.4	60	2.1	309	135	30	38	8.3	12	13
29	2.5	148	2.4	60	2.1	189	32	27	34	7.3	11	12
30	2.5	148	2.4	61	------	123	39	31	32	6.9	11	14
31	2.5	------	2.4	61	------	46	------	35	------	6.4	9.9	------
TOTAL	94.2	2,453.7	3,807.0	2,546.8	612.0	4,903.3	6,327.6	1,757	630.2	493.2	270.4	470.0
MEAN	3.04	81.8	123	82.2	21.1	158	211	56.7	21.0	15.9	8.72	15.7
MAX	5.5	184	203	304	61	408	489	69	44	30	14	41
MIN	2.3	1.8	1.1	2.4	2.1	2.1	2.5	27	9.3	6.4	5.0	9.0

CAL YR 1971 TOTAL 21,756.1 MEAN 59.6 MAX 550 MIN 1.1
WTR YR 1972 TOTAL 24,365.4 MEAN 66.6 MAX 489 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 upstream from highway bridge 0.2 mile south of Newcomerstown, 2 miles upstream from Buckhorn Creek, and 4 miles downstream from Dunlap Creek.

DRAINAGE AREA.--2,443 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft 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 miles upstream at datum 5.03 ft higher prior to Oct. 1, 1934, and 0.03 ft higher Oct. 1, 1934, to Feb. 13, 1939.

AVERAGE DISCHARGE.--51 years, 2,392 cfs.

EXTREMES.--Current year: Maximum discharge, 9,570 cfs Mar. 17 (gage height, 7.98 ft); minimum, 313 cfs Nov. 15, 16.
Period of record: Maximum discharge, 46,800 cfs Jan. 26, 1937 (gage height, 20.65 ft, site and datum then in use); minimum, 120 cfs Aug. 7, 1930; minimum daily, 170 cfs Aug. 6, 1930.
Flood in March 1913 reached a stage of about 21.5 ft, at site and datum used prior to Oct. 1, 1934 (discharge, 83,000 cfs 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 to 64 miles upstream (see pp. 78, 79). 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	537	327	1,420	5,120	1,340	3,300	2,600	3,340	1,610	1,840	770	770
2	545	327	1,460	4,380	1,290	4,360	2,430	3,300	1,770	1,720	788	725
3	521	369	1,450	3,770	1,280	6,260	2,380	3,210	1,620	1,420	815	920
4	497	390	1,380	3,690	1,460	6,840	2,330	3,680	1,450	1,820	815	788
5	473	362	1,350	3,580	1,300	6,210	2,270	3,130	1,250	2,460	860	743
6	449	348	1,450	3,610	1,100	4,910	2,190	2,760	1,150	2,280	851	671
7	425	348	2,350	3,170	1,200	3,890	3,650	2,510	1,080	2,130	833	626
8	433	348	3,900	2,530	1,100	4,360	5,990	2,370	1,050	1,720	851	599
9	433	341	4,050	2,070	1,000	5,580	5,970	2,720	1,030	1,490	910	572
10	465	348	3,300	2,040	1,000	5,390	5,040	3,910	990	1,500	860	545
11	529	348	2,680	2,380	970	4,520	4,700	4,210	950	2,580	806	518
12	545	355	2,270	2,710	930	4,000	4,470	3,410	920	2,420	761	509
13	513	355	2,070	2,490	1,210	5,330	5,160	2,750	1,010	1,940	743	626
14	473	341	1,910	2,230	2,190	7,920	7,010	2,530	1,250	1,590	689	1,000
15	441	327	2,610	2,280	3,260	8,560	7,540	2,630	1,400	1,490	653	2,490
16	418	465	3,820	1,730	4,040	8,770	6,800	2,680	1,530	1,560	626	2,820
17	404	742	3,850	1,260	4,250	9,470	7,070	2,540	2,070	3,410	815	2,200
18	390	798	2,860	1,590	3,750	9,460	7,780	2,370	1,580	4,980	1,630	1,640
19	376	791	2,180	1,710	3,480	9,120	7,710	2,210	1,240	4,460	2,250	1,730
20	376	821	1,890	1,480	3,060	8,220	7,630	2,040	1,060	3,520	2,000	1,890
21	376	861	1,800	1,500	2,410	7,460	8,910	1,910	1,010	2,540	1,800	1,430
22	376	828	1,760	1,560	2,340	7,230	9,410	1,790	1,010	1,760	1,290	1,130
23	376	844	1,500	1,840	2,790	7,390	9,120	1,680	1,140	1,400	1,020	960
24	383	892	1,270	2,250	2,680	7,420	8,510	1,560	1,460	1,460	990	890
25	383	899	1,110	2,560	2,500	6,770	8,210	1,450	1,770	1,480	970	890
26	390	929	1,080	2,460	2,470	5,760	7,330	1,340	1,730	1,280	1,280	930
27	404	956	1,070	2,120	2,820	4,730	6,020	1,250	1,840	1,090	1,960	1,040
28	404	1,060	1,180	1,840	2,690	3,410	4,730	1,160	1,560	1,000	1,740	1,830
29	376	1,130	1,410	1,730	2,660	4,430	3,830	1,100	1,460	940	1,260	2,100
30	355	1,280	1,880	1,510	------	3,450	3,510	1,100	1,520	870	1,010	2,410
31	341	------	4,120	1,470	------	2,990	------	1,270	------	806	851	------
TOTAL	13,407	18,530	66,430	74,660	62,570	187,510	170,300	73,910	40,510	60,956	33,497	35,992
MEAN	432	618	2,143	2,408	2,158	6,049	5,677	2,384	1,350	1,966	1,081	1,200
MAX	545	1,280	4,120	5,120	4,250	9,470	9,410	4,210	2,070	4,980	2,250	2,820
MIN	341	327	1,070	1,260	930	2,990	2,190	1,100	920	806	626	509

CAL YR 1971 TOTAL 722,546 MEAN 1,980 MAX 10,600 MIN 320
WTR YR 1972 TOTAL 838,272 MEAN 2,290 MAX 9,470 MIN 327

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 downstream from Charles Mill Dam, 2.5 miles south of Mifflin, and 4 miles upstream from Rocky Fork.

DRAINAGE AREA.--217 sq mi.

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 above mean sea level, adjustment of 1912. Dec. 3, 1941, to Dec. 5, 1944, water-stage recorder at site 300 ft downstream at same datum.

AVERAGE DISCHARGE.--34 years, 186 cfs.

EXTREMES.--Current year: Maximum discharge, 1,240 cfs Apr. 27 (gage height, 5.57 ft); minimum, 12 cfs Oct. 8.
Period of record: Maximum discharge, 2,800 cfs Mar. 13, 1964; maximum gage height, 8.45 ft Mar. 14, 1939; minimum discharge, 0.2 cfs May 21, 1940; minimum daily discharge, 0.9 cfs Apr. 21, 1940.
Flood of March 1913 reached a discharge of 11,700 cfs (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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	141	134	139	141	220	1,110	79	128	37	70
2	21	22	186	147	133	257	193	1,080	82	150	34	63
3	20	22	179	154	132	360	167	1,040	81	203	34	58
4	19	20	172	157	128	468	156	985	97	190	32	55
5	17	17	163	159	123	538	136	742	122	192	31	48
6	17	18	162	158	121	528	127	485	144	180	30	44
7	16	19	162	159	117	461	176	342	134	149	31	39
8	14	18	160	157	88	415	223	276	111	134	30	38
9	17	18	161	158	70	378	261	347	94	120	30	37
10	21	19	160	162	48	354	288	421	82	122	30	33
11	21	20	158	169	33	314	284	463	64	121	27	32
12	21	20	153	177	33	283	257	548	58	124	28	33
13	21	21	149	182	35	319	214	567	45	129	28	32
14	22	20	145	183	36	485	420	497	123	124	27	92
15	21	21	147	183	36	729	546	429	235	109	27	262
16	21	20	145	182	37	748	525	404	310	69	26	444
17	21	20	146	178	37	910	725	420	322	132	90	467
18	21	20	143	177	38	910	835	443	286	194	287	473
19	20	23	140	177	40	904	845	430	226	190	384	470
20	19	23	140	174	40	895	273	372	173	167	412	461
21	19	27	137	171	42	832	228	300	140	134	360	388
22	20	23	132	169	53	552	295	241	118	113	208	277
23	22	20	128	169	55	753	741	194	103	101	263	202
24	23	21	124	170	61	705	914	161	87	84	275	165
25	23	21	119	168	71	676	1,120	133	83	74	220	139
26	22	20	117	165	82	626	1,110	106	97	63	195	143
27	21	23	112	161	84	536	1,180	92	98	58	170	216
28	22	23	109	158	90	441	1,210	80	96	52	143	324
29	21	25	103	153	107	362	1,180	72	99	48	117	431
30	20	32	117	149	------	305	1,140	69	107	42	97	259
31	20	------	121	144	------	256	------	74	------	38	81	------
TOTAL	624	636	4,431	5,104	2,109	16,441	15,989	12,923	3,896	3,734	3,784	5,795
MEAN	20.1	21.2	143	165	72.7	530	533	417	130	120	122	193
MAX	23	32	186	183	139	910	1,210	1,110	322	203	412	473
MIN	14	17	103	134	33	141	127	69	45	38	26	32

CAL YR 1971 TOTAL 52,549.0 MEAN 144 MAX 1,160 MIN 9.5
WTR YR 1972 TOTAL 75,466.0 MEAN 206 MAX 1,210 MIN 14

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 downstream from West 4th Street Bridge at west edge of Mansfield, and 2 miles upstream from mouth.

DRAINAGE AREA.--5.44 sq mi.

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

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

AVERAGE DISCHARGE.--26 years, 4.94 cfs (12.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 655 cfs Apr. 20 (gage height, 3.05 ft); minimum daily, 0.28 cfs Aug. 16.
Period of record: Maximum discharge, 965 cfs June 6, 1947 (gage height, 4.17 ft), from rating curve extended above 160 cfs on the basis of slope-area measurements at gage heights 2.49 and 4.17 ft and computation of flow over dam at gage height 3.94 ft; no flow for part of Sept. 4, 1965, Nov. 10, 1967.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	1.4	.93	4.4	.95	26	2.2	3.9	1.2	.76	.43	.93
2	.86	3.1	.93	5.5	1.5	29	2.3	3.9	.93	1.2	.62	.93
3	.72	.84	.76	2.5	18	13	2.0	3.9	.93	22	.50	2.1
4	.80	.77	.76	6.1	8.3	7.4	3.7	3.4	.93	2.5	.50	.93
5	1.3	.82	.76	4.4	5.5	4.4	2.2	3.4	.76	1.5	.43	.80
6	1.4	2.0	14	3.4	3.0	3.4	3.9	3.4	.76	1.5	.37	.66
7	1.5	1.1	18	3.9	2.0	13	47	3.4	.62	2.1	.37	.58
8	1.6	.75	3.9	2.5	1.3	13	18	20	.62	5.0	.50	.54
9	9.5	.93	1.8	19	.90	5.7	12	49	.76	2.1	.62	.50
10	1.3	1.1	2.5	14	.70	5.1	9.4	8.4	.62	6.1	.62	.43
11	.86	.89	6.1	6.6	.80	4.8	6.0	3.4	.62	.76	.38	.45
12	.99	.89	1.5	3.4	1.0	7.5	4.0	3.2	.62	.93	.32	.50
13	1.2	.86	1.2	5.0	22	27	48	3.0	74	4.4	.35	3.0
14	2.2	.76	14	2.9	11	19	9.6	10	5.0	1.5	.32	31
15	.93	.80	22	2.3	21	12	7.4	7.0	2.5	4.4	.29	1.5
16	.95	1.0	4.4	1.7	8.0	29	42	5.0	1.2	12	.28	.93
17	1.0	1.0	2.5	1.3	11	16	17	4.2	.93	1.8	20	.93
18	1.2	1.1	1.5	1.1	7.1	8.7	7.6	3.5	.76	3.4	1.5	1.2
19	1.5	4.1	1.5	.93	3.4	5.5	16	3.0	.76	6.6	1.5	.93
20	1.2	1.9	5.5	.85	4.6	4.4	184	2.7	.76	.76	.62	.93
21	1.2	1.7	2.9	.81	8.0	8.2	23	2.4	.76	.76	.62	.76
22	2.2	.79	1.5	4.8	6.8	55	50	2.1	1.2	5.5	28	.76
23	2.3	.84	1.5	5.7	3.8	20	16	1.9	2.5	.93	5.0	2.9
24	2.4	1.0	1.2	4.0	2.4	15	9.0	1.7	.93	1.5	1.5	1.2
25	1.5	.92	1.2	3.0	3.3	12	6.6	1.5	3.9	.62	1.2	.93
26	1.5	.76	2.1	2.2	3.0	8.1	5.2	1.3	2.1	.62	9.6	22
27	1.6	3.6	2.1	1.8	3.4	6.2	4.6	1.1	.93	1.2	2.5	13
28	1.6	1.1	2.9	1.6	6.9	3.6	4.4	1.0	.76	.62	1.5	3.4
29	1.7	8.2	1.5	1.4	11	4.7	4.0	.95	9.0	.58	1.2	11
30	1.5	5.0	43	1.2	------	4.0	3.9	10	1.5	.53	1.2	65
31	1.5	------	9.0	1.0	------	2.2	------	2.5	------	.48	.76	------
TOTAL	50.88	50.02	173.44	119.29	180.65	392.9	571.0	174.15	118.86	94.65	83.60	170.72
MEAN	1.64	1.67	5.59	3.85	6.23	12.7	19.0	5.62	3.96	3.05	2.70	5.69
MAX	9.5	8.2	43	19	22	55	184	49	74	22	28	65
MIN	.72	.75	.76	.81	.70	2.2	2.0	.95	.62	.48	.28	.43
CFSM	.30	.31	1.03	.71	1.15	2.33	3.49	1.03	.73	.56	.50	1.05
IN.	.35	.34	1.19	.82	1.24	2.69	3.90	1.19	.81	.65	.57	1.17

CAL YR 1971 TOTAL 1,780.63 MEAN 4.88 MAX 199 MIN .41 CFSM .90 IN 12.18
WTR YR 1972 TOTAL 2,180.16 MEAN 5.96 MAX 184 MIN .28 CFSM 1.10 IN 14.91

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	0415	3.05	655	6-13	0545	2.19	336

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 miles downstream from Big Run.

DRAINAGE AREA.--349 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 929.16 ft above mean sea level. Prior to Oct. 23, 1941, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--41 years, 328 cfs.

EXTREMES.--Current year: Maximum discharge, 3,680 cfs July 16 (gage height, 10.69 ft); minimum, 77 cfs Nov. 5, 6, 8, 9.
Period of record: Maximum discharge, 8,460 cfs July 5, 1969 (gage height, 14.11 ft); from rating curve extended above 4,000 cfs on basis of contracted-opening measurement of peak flow; minimum, 24 cfs Jan. 12, 1964.

REMARKS.--Records good. Flow regulated since 1936 by Charles Mill Lake, 16 miles above 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	81	151	291	219	354	388	1,320	231	264	158	207
2	90	88	248	285	216	841	357	1,300	216	273	152	195
3	88	100	233	291	282	686	330	1,260	207	884	149	186
4	84	86	228	288	297	661	321	1,180	243	558	144	195
5	88	83	219	318	222	704	297	986	231	403	136	166
6	86	83	257	282	210	682	279	701	261	363	131	158
7	84	88	379	273	204	645	704	531	261	321	131	152
8	83	83	352	264	186	772	521	506	237	348	139	147
9	90	83	245	306	155	580	462	1,290	216	303	134	147
10	134	86	233	450	142	534	487	887	207	339	129	134
11	86	86	256	345	104	496	475	738	177	297	126	126
12	86	84	225	309	102	481	438	723	163	330	124	131
13	84	86	213	303	163	710	974	769	990	369	121	131
14	90	83	228	306	177	906	763	862	521	431	116	543
15	90	81	494	282	291	955	779	757	413	382	121	481
16	86	86	302	264	315	1,160	949	670	493	2,190	116	552
17	83	86	236	282	198	1,200	1,230	624	453	614	918	574
18	81	86	222	267	225	1,170	1,090	620	413	518	630	586
19	84	93	208	279	186	1,100	1,050	605	354	710	558	583
20	84	110	217	267	147	1,070	2,270	546	309	453	568	562
21	84	107	227	267	147	1,020	1,810	465	273	366	506	512
22	86	96	206	261	228	1,160	1,420	397	252	318	562	403
23	96	89	196	315	180	1,170	1,130	348	249	312	940	330
24	98	88	190	294	169	955	1,130	309	231	261	605	348
25	94	90	183	285	174	884	1,420	276	210	255	431	273
26	92	85	180	258	213	819	1,370	246	267	219	441	394
27	90	87	182	249	192	738	1,370	222	243	222	428	580
28	88	104	186	246	216	642	1,430	204	225	204	336	577
29	88	94	175	240	285	555	1,390	192	261	186	291	627
30	88	154	611	225	------	509	1,350	198	309	172	252	1,320
31	84	------	475	222	------	434	------	279	------	160	225	------
TOTAL	2,763	2,736	7,957	8,814	5,845	24,593	27,984	20,011	9,116	13,025	9,818	11,320
MEAN	89.1	91.2	257	284	202	793	933	646	304	420	317	377
MAX	134	154	611	450	315	1,200	2,270	1,320	990	2,190	940	1,320
MIN	81	81	151	222	102	354	279	192	163	160	116	126

CAL YR 1971 TOTAL 99,754 MEAN 273 MAX 1,840 MIN 71
WTR YR 1972 TOTAL 143,982 MEAN 393 MAX 2,270 MIN 81

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 mile northeast of Butler.

DRAINAGE AREA.--136 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--28 years, 139 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 6,240 cfs July 16 (gage height, 8.40 ft); minimum, 21 cfs Oct. 4-8.
Period of record: Maximum discharge, 14,300 cfs Jan. 21, 1959 (gage height, 9.43 ft), from rating curve extended above 3,000 cfs on basis of computed reservoir inflow; minimum, 12 cfs Sept. 12, 18, 1948.

REMARKS.--Records good. Flow regulated by Clear Fork Reservoir (capacity, 10,740 acre-ft) 16 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	25	50	152	62	538	133	170	95	230	77	52
2	23	26	80	133	62	258	135	160	85	190	74	50
3	22	27	75	117	90	193	131	150	80	450	72	50
4	21	25	75	125	93	148	129	140	74	300	70	49
5	21	25	70	133	123	130	131	130	70	230	66	49
6	21	24	85	104	98	110	125	123	70	200	64	48
7	21	26	120	93	80	160	402	119	65	180	64	47
8	21	28	110	83	76	140	315	193	64	190	64	46
9	25	26	80	185	68	110	239	1,020	62	170	62	46
10	29	26	80	234	64	95	217	632	60	180	60	45
11	28	28	85	152	62	110	196	390	60	170	57	44
12	25	30	75	117	77	130	170	258	80	180	56	45
13	24	28	70	107	83	160	747	210	501	200	55	44
14	24	26	75	95	173	240	534	492	360	212	54	207
15	24	26	200	90	166	270	372	459	210	212	52	111
16	24	26	150	85	146	300	452	370	135	2,670	50	68
17	24	26	95	90	159	330	590	270	100	739	89	57
18	24	26	75	85	119	290	414	210	85	360	100	56
19	24	27	70	90	95	240	300	180	77	273	77	54
20	24	28	70	85	109	217	2,550	150	80	224	64	51
21	23	28	88	85	170	198	1,650	135	77	175	56	49
22	23	28	74	90	106	699	1,460	123	85	146	62	47
23	24	26	65	100	97	615	842	111	93	142	115	48
24	25	26	63	90	102	405	528	104	77	164	97	56
25	25	26	59	85	152	273	369	97	70	131	68	54
26	25	26	59	80	111	222	279	93	72	113	65	99
27	25	28	65	72	154	200	250	88	65	102	71	146
28	25	28	70	70	222	175	220	85	62	98	66	133
29	24	30	65	66	363	161	200	85	142	90	62	113
30	24	41	694	62	------	168	180	102	300	85	57	633
31	25	------	263	64	------	146	------	100	------	80	54	------
TOTAL	740	816	3,355	3,219	3,482	7,431	14,260	6,949	3,456	8,886	2,100	2,597
MEAN	23.9	27.2	108	104	120	240	475	224	115	287	67.7	86.6
MAX	29	41	694	234	363	699	2,550	1,020	501	2,670	115	633
MIN	21	24	50	62	62	95	125	85	60	80	50	44
(+)	16.3	16.1	16.6	16.6	16.9	16.3	15.1	16.5	16.8	16.8	17.7	18.1

CAL YR 1971 TOTAL 40,256 MEAN 110 MAX 1,390 MIN 21 (+) 16.6
WTR YR 1972 TOTAL 57,291 MEAN 157 MAX 2,670 MIN 21 (+) 16.7

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

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 mile downstream from Pleasant Hill Dam, 2.8 miles south of Perrysville, and 4.7 miles upstream from the confluence of Clear Fork and Black Fork.

DRAINAGE AREA.--198 sq mi.

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 above mean sea level, adjustment of 1912. Prior to May 1, 1947, water-stage recorder at site 0.5 mile downstream at datum 4.88 ft lower.

AVERAGE DISCHARGE.--34 years, 189 cfs.

EXTREMES.--Current year: Maximum discharge, 1,400 cfs Apr. 22 (gage height, 3.85 ft); minimum daily, 29 cfs Oct. 19-21.
Period of record: Maximum discharge, 2,340 cfs Jan. 23, 1959 (gage height, 4.89 ft); minimum, 0.3 cfs Sept. 24, 1953, Jan. 25, 26, 1972; minimum daily, 0.6 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	52	66	422	68	244	130	535	130	203	116	79
2	103	35	66	422	82	486	145	247	126	217	109	74
3	101	35	82	374	136	645	149	232	116	349	105	73
4	55	35	90	286	149	454	149	238	109	474	100	71
5	34	57	80	235	83	241	149	223	100	462	93	67
6	33	90	55	152	83	152	147	203	96	438	90	64
7	32	90	77	109	83	152	229	190	91	367	90	61
8	91	49	92	109	79	154	367	200	86	283	86	60
9	114	33	105	109	68	190	353	454	83	223	83	57
10	113	33	118	222	68	223	370	744	82	205	80	53
11	112	33	134	387	68	198	346	982	74	203	77	53
12	54	75	122	253	68	183	300	975	73	180	76	53
13	31	90	66	145	68	244	446	545	130	269	74	53
14	31	90	87	134	44	378	550	625	328	328	73	112
15	95	53	161	114	32	438	575	685	378	307	70	178
16	118	41	254	76	76	438	555	560	321	595	65	143
17	118	41	280	58	166	474	610	422	235	1,100	120	116
18	54	41	274	65	198	525	738	346	175	1,060	158	101
19	29	89	139	88	214	490	768	235	138	1,050	145	93
20	29	115	106	96	132	446	675	217	116	1,080	122	82
21	29	114	101	96	80	438	1,160	211	105	1,090	103	74
22	54	62	94	96	158	454	1,360	195	98	1,020	93	68
23	92	37	66	143	217	580	1,380	178	100	690	122	65
24	91	37	79	179	188	600	1,300	161	100	272	147	71
25	59	37	90	50	136	525	1,120	147	96	208	134	71
26	38	78	90	76	130	458	989	132	93	190	145	82
27	38	103	90	176	152	279	961	122	90	178	134	128
28	39	103	90	85	152	143	1,050	114	83	163	120	156
29	62	70	90	63	152	132	1,100	110	88	147	107	158
30	90	66	228	40	------	124	996	116	124	132	94	356
31	90	------	422	40	------	105	------	130	------	124	85	------
TOTAL	2,111	1,884	3,894	4,900	3,330	10,593	19,167	10,474	3,964	13,607	3,216	2,872
MEAN	68.1	62.8	126	158	115	342	639	338	132	439	104	95.7
MAX	118	115	422	422	217	645	1,380	982	378	1,100	158	356
MIN	29	33	55	40	32	105	130	110	73	124	65	53

CAL YR 1971 TOTAL 55,560 MEAN 152 MAX 1,100 MIN 23
WTR YR 1972 TOTAL 80,012 MEAN 219 MAX 1,380 MIN 29

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 downstream from Mohicanville Dam, 2 miles east of Mohicanville, and 2.4 miles downstream from the confluence of Jerome and Muddy Forks.

DRAINAGE AREA.--271 sq mi.

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 above mean sea level, adjustment of 1912. Prior to July 25, 1949, water-stage recorder at site 500 ft downstream at same datum.

AVERAGE DISCHARGE.--34 years, 223 cfs.

EXTREMES.--Current year: Maximum discharge, 1,960 cfs July 16 (gage height, 9.21 ft); minimum, 1.3 cfs July 31. Period of record: Maximum discharge, 5,490 cfs July 5, 1969 (gage height, 14.32 ft); minimum daily discharge, 1 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	12	32	334	58	430	189	355	90	214	54	50
2	13	14	21	244	62	1,020	176	315	77	113	57	44
3	9.8	19	16	196	81	1,030	168	279	67	178	50	43
4	7.8	14	15	214	102	608	162	225	59	247	46	48
5	7.8	13	14	218	72	404	146	181	54	136	43	42
6	7.8	15	36	168	63	272	136	152	51	103	39	39
7	7.8	17	150	162	61	244	481	132	50	84	43	35
8	8.2	16	159	123	53	551	378	162	46	87	46	33
9	10	16	83	178	50	327	264	839	43	94	45	32
10	28	17	61	500	43	233	247	966	42	203	43	30
11	18	18	60	339	45	203	218	517	41	144	39	29
12	14	18	52	218	48	334	187	344	38	113	36	35
13	11	17	44	181	116	970	767	251	102	140	36	51
14	10	17	70	166	240	1,420	879	303	118	162	34	686
15	10	16	349	99	433	1,390	605	315	71	121	34	969
16	9.6	17	259	99	634	1,270	711	247	106	973	40	868
17	8.8	17	125	82	350	1,230	1,160	211	72	596	60	460
18	8.3	18	79	84	417	882	1,060	181	54	344	250	327
19	8.9	19	62	105	317	627	608	144	50	461	168	391
20	8.9	25	63	99	244	467	1,160	129	44	701	116	225
21	9.3	20	65	99	181	396	1,430	116	44	417	77	152
22	9.7	18	58	97	296	828	1,130	108	44	227	61	120
23	13	16	47	148	207	1,080	875	97	53	162	108	103
24	14	16	45	172	164	647	1,160	90	66	138	148	154
25	14	17	43	158	116	475	1,390	81	63	255	97	150
26	14	16	44	93	152	360	1,400	74	106	213	207	316
27	14	17	47	80	114	303	1,410	68	103	130	251	947
28	13	21	56	70	160	253	1,290	65	71	94	168	1,020
29	13	21	65	65	300	222	732	61	78	85	100	970
30	12	41	554	60	------	242	461	63	381	70	71	1,020
31	12	------	701	57	------	207	------	103	------	57	58	------
TOTAL	368.7	538	3,475	4,908	5,179	18,925	20,980	7,174	2,284	7,062	2,625	9,389
MEAN	11.9	17.9	112	158	179	610	699	231	76.1	228	84.7	313
MAX	28	41	701	500	634	1,420	1,430	966	381	973	251	1,020
MIN	7.8	12	14	57	43	203	136	61	38	57	34	29

CAL YR 1971 TOTAL 58,222.7 MEAN 160 MAX 1,650 MIN 7.1
WTR YR 1972 TOTAL 82,907.7 MEAN 227 MAX 1,430 MIN 7.8

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 downstream from bridge on State Highway 514 at Greer, 5 miles upstream from Negro Run, and 7 miles downstream from Lake Fork.

DRAINAGE AREA.--948 sq mi.

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

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

AVERAGE DISCHARGE.--51 years, 872 cfs.

EXTREMES.--Current year: Maximum discharge, 7,330 cfs July 16 (gage height, 6.95 ft); minimum, 151 cfs Nov. 9.
Period of record: Maximum discharge, 20,500 cfs July 5, 1969 (gage height, 14.59 ft); minimum, 50 cfs (estimated) Jan. 2, 1935.
Flood of March 1913 reached a stage of 27.0 ft (discharge, 55,000 cfs, estimated).

REMARKS.--Records good. Flow regulated by Charles Mill Lake on Black Fork (30 miles upstream), Pleasant Hill Lake on Clear Fork (17 miles upstream), and Mohicanville Reservoir on Lake Fork (19 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	211	270	1,320	320	1,150	819	2,460	547	968	408	404
2	275	163	380	1,100	310	2,580	774	2,090	507	811	389	384
3	264	180	364	1,010	310	2,830	721	1,980	466	1,830	385	354
4	237	171	372	897	320	2,170	704	1,860	467	1,870	361	373
5	171	163	364	919	330	1,660	646	1,620	450	1,400	340	327
6	167	216	348	765	350	1,300	614	1,270	450	1,230	320	304
7	163	226	610	721	350	1,220	1,430	1,030	456	1,040	315	291
8	189	211	831	600	330	1,610	1,700	1,000	428	898	324	286
9	264	155	630	620	310	1,380	1,390	2,940	398	829	320	286
10	348	155	560	1,110	300	1,200	1,340	3,120	383	807	314	271
11	301	159	560	1,210	300	1,080	1,310	2,580	347	883	297	256
12	253	171	560	985	310	1,090	1,170	2,290	320	720	291	259
13	180	226	429	787	350	1,880	2,350	1,900	1,000	948	289	271
14	171	220	474	721	500	2,950	2,680	2,010	1,330	1,160	280	1,330
15	207	202	1,020	650	700	3,080	2,230	2,050	1,050	1,020	280	2,000
16	264	159	1,140	600	1,210	3,150	2,360	1,790	1,120	5,090	274	1,920
17	259	159	908	550	852	3,340	3,260	1,540	950	3,670	1,340	1,570
18	237	159	776	550	948	2,970	3,240	1,380	792	2,570	1,770	1,260
19	159	189	610	550	875	2,520	2,760	1,200	642	2,520	1,170	1,340
20	163	275	540	500	574	2,200	5,540	1,070	569	2,550	1,070	1,130
21	159	264	530	483	437	2,050	5,740	964	514	2,240	879	959
22	159	242	510	464	668	2,440	4,900	860	482	1,940	776	743
23	231	159	420	553	694	3,110	3,920	773	488	1,590	1,380	589
24	248	155	412	662	590	2,520	3,810	663	486	928	1,210	636
25	242	159	420	560	489	2,120	4,260	606	447	872	845	590
26	180	171	412	382	518	1,840	4,030	558	572	916	956	626
27	175	226	420	370	517	1,570	3,930	510	581	707	1,000	1,830
28	175	242	429	360	559	1,230	4,000	473	492	622	843	2,020
29	171	231	429	350	766	1,050	3,570	443	612	564	617	2,020
30	226	282	1,060	340	------	1,030	3,060	444	1,210	480	520	4,330
31	226	------	1,870	330	------	861	------	590	------	427	447	------
TOTAL	6,712	5,901	18,658	21,019	15,087	61,181	78,258	44,064	18,556	44,100	20,010	28,959
MEAN	217	197	602	678	520	1,974	2,609	1,421	619	1,423	645	965
MAX	348	282	1,870	1,320	1,210	3,340	5,740	3,120	1,330	5,090	1,770	4,330
MIN	159	155	270	330	300	861	614	443	320	427	274	256

CAL YR 1971 TOTAL 244,653 MEAN 670 MAX 4,020 MIN 121
WTR YR 1972 TOTAL 362,505 MEAN 990 MAX 5,740 MIN 155

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 mile downstream from North Branch, and 2.7 miles upstream from Dry Creek.

DRAINAGE AREA.--202 sq mi.

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

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

AVERAGE DISCHARGE.--19 years, 195 cfs (13.11 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,940 cfs July 16 (gage height, 6.58 ft); minimum, 18 cfs all or part of each day Oct. 3-8, 17-22, Oct. 30 to Nov. 2, Nov. 8, 9, 14-19, 22-24.
Period of record: Maximum discharge, 38,000 cfs Jan. 21, 1959 (gage height, 18.19 ft), from rating curve extended above 6,400 cfs on basis of slope-area measurement of peak flow; minimum, 12 cfs Sept. 29, 30, 1954.

REMARKS.--Records good. Some regulation by Knox Lake (capacity, 3,750 acre-ft) 8.2 miles upstream on East Branch of North Branch Kokosing River beginning in 1954 and North Branch Kokosing River Lake (capacity, 14,886 acre-ft) 10.0 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	43	407	69	357	198	233	164	86	86	82
2	20	20	36	292	65	856	192	239	150	72	83	77
3	19	20	31	258	81	780	189	293	133	280	81	77
4	18	19	29	246	102	488	189	254	122	951	79	79
5	18	19	28	341	126	340	179	225	111	437	72	72
6	19	20	39	249	92	246	171	205	89	258	69	66
7	18	19	80	205	80	237	891	192	84	181	67	61
8	18	19	132	176	72	533	717	281	79	148	65	58
9	22	19	100	200	66	375	425	1,830	75	132	63	56
10	23	20	79	364	62	271	360	1,540	72	124	61	53
11	22	19	63	313	60	228	313	665	68	161	59	51
12	22	20	54	240	58	226	273	423	68	205	57	51
13	22	19	47	208	80	360	1,790	339	101	728	56	51
14	21	18	70	170	117	575	1,190	727	164	406	54	773
15	20	18	349	140	226	525	596	717	139	385	55	1,020
16	19	18	325	130	384	703	570	603	126	2,270	51	391
17	19	18	203	120	317	996	818	429	102	3,350	293	230
18	19	18	145	121	341	614	544	332	88	1,670	734	168
19	18	20	116	123	305	411	400	274	81	1,040	538	142
20	18	19	115	119	217	321	2,610	241	77	614	315	121
21	18	19	126	117	180	283	2,560	222	75	324	184	103
22	19	19	120	116	170	745	2,030	205	74	238	214	90
23	20	18	101	146	160	926	1,580	189	69	202	519	82
24	20	19	90	181	150	518	1,010	175	66	194	398	84
25	20	19	84	166	150	377	575	165	65	203	235	96
26	20	19	81	113	190	304	408	154	68	162	180	116
27	19	22	85	100	190	268	336	144	67	141	225	264
28	20	24	98	92	200	246	288	139	64	128	170	253
29	19	30	100	84	261	231	257	134	71	114	132	236
30	19	42	454	78	------	224	239	145	101	102	108	1,570
31	19	------	821	70	------	210	------	169	------	93	92	------
TOTAL	609	611	4,244	5,685	4,571	13,774	21,898	11,883	2,813	15,399	5,395	6,573
MEAN	19.6	20.4	137	183	158	444	730	383	93.8	497	174	219
MAX	23	42	821	407	384	996	2,610	1,830	164	3,350	734	1,570
MIN	18	18	28	70	58	210	171	134	64	72	51	51
CFSM	.10	.10	.68	.91	.78	2.20	3.61	1.90	.46	2.46	.86	1.08
IN.	.11	.11	.78	1.05	.84	2.54	4.03	2.19	.52	2.84	.99	1.21

CAL YR 1971 TOTAL 53,961 MEAN 148 MAX 1,820 MIN 18 CFSM .73 IN 9.94
WTR YR 1972 TOTAL 93,455 MEAN 255 MAX 3,350 MIN 18 CFSM 1.26 IN 17.21

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	0600	4.98	2,220	7-16	2230	6.58	3,940
4-20	1930	6.42	3,760	9-30	0830	4.81	2,050
5- 9	1930	5.21	2,450				

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 mile west of Millwood, 1.5 miles upstream from Honey Run, and 2.0 miles downstream from Jelloway Creek.

DRAINAGE AREA.--455 sq mi.

PERIOD OF RECORD.--October 1921 to current year. 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 above mean sea level. Prior to July 10, 1931, non-recording gage at site 3.8 miles downstream, and July 10, 1931, to July 31, 1939, water-stage recorder at site 3.5 miles downstream at datum 23.94 ft lower.

AVERAGE DISCHARGE.--51 years, 474 cfs (14.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,890 cfs Apr. 20 (gage height, 12.29 ft); minimum, 52 cfs Oct. 5, 6, 7, 8, 9.
Period of record: Maximum discharge, 75,900 cfs Jan. 21, 1959 (gage height, 34.00 ft, from high-water mark in well), from rating curve extended above 20,000 cfs on basis of slope-area measurement of peak flow; minimum, 33 cfs Aug. 17, 26, 1932, Sept. 27, 28, 1954.
Flood in March 1913 reached a stage corresponding to 22.0 ft at former site and datum (discharge, 40,000 cfs, estimated).

REMARKS.--Records good. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	54	107	932	190	900	418	486	335	190	188	175
2	62	60	90	695	180	1,900	402	498	296	168	185	168
3	58	66	87	600	200	2,370	390	690	266	269	198	168
4	56	60	77	534	230	1,530	398	555	242	962	175	168
5	55	58	71	725	250	1,000	374	478	224	645	163	155
6	54	59	109	550	230	695	350	426	206	398	153	145
7	54	62	322	454	210	600	2,550	394	193	299	155	135
8	54	59	421	394	200	1,040	1,860	526	183	263	150	130
9	57	59	258	426	200	770	1,120	3,080	175	236	158	125
10	73	63	201	725	190	585	896	2,860	173	218	143	118
11	65	63	180	685	180	506	760	1,430	163	230	135	110
12	61	60	151	530	190	502	650	962	160	224	130	113
13	61	60	134	420	269	848	4,400	765	278	1,350	128	113
14	65	58	182	340	398	1,180	2,760	1,850	299	836	123	720
15	62	56	810	290	620	1,120	1,560	1,490	284	438	123	1,470
16	59	56	715	270	926	1,380	1,540	1,230	414	2,720	118	680
17	58	55	462	260	745	1,980	1,890	938	263	4,680	590	414
18	57	55	337	260	770	1,350	1,300	735	221	2,550	1,530	311
19	57	62	275	300	735	938	1,030	605	195	1,490	1,010	269
20	57	67	278	281	510	740	4,690	522	185	1,120	630	233
21	54	64	305	278	454	665	4,310	474	180	635	378	203
22	56	60	272	272	420	1,220	3,690	426	180	466	344	185
23	60	57	239	362	380	1,610	2,900	386	185	394	956	170
24	62	57	221	418	360	1,050	1,950	350	175	341	720	175
25	60	59	209	374	350	785	1,280	329	168	354	446	180
26	60	58	209	284	400	655	950	308	170	308	338	293
27	60	63	227	260	486	585	765	287	170	284	335	422
28	59	71	248	240	466	530	650	272	163	263	308	454
29	58	77	251	220	585	494	570	266	168	236	257	450
30	58	118	1,250	210	------	498	518	287	212	215	218	4,110
31	56	------	1,760	200	------	442	------	347	------	198	190	------
TOTAL	1,836	1,876	10,458	12,789	11,324	30,468	46,921	24,252	6,526	22,980	10,675	12,562
MEAN	59.2	62.5	337	413	390	983	1,564	782	218	741	344	419
MAX	73	118	1,760	932	926	2,370	4,690	3,080	414	4,680	1,530	4,110
MIN	54	54	71	200	180	442	350	266	160	168	118	110
CFSM	.13	.14	.74	.91	.86	2.16	3.44	1.72	.48	1.63	.76	.92
IN.	.15	.15	.86	1.05	.93	2.49	3.84	1.98	.53	1.88	.87	1.03

CAL YR 1971 TOTAL 123,340 MEAN 338 MAX 3,880 MIN 52 CFSM .74 IN 10.08
WTR YR 1972 TOTAL 192,667 MEAN 526 MAX 4,690 MIN 54 CFSM 1.16 IN 15.75

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	1300	12.07	6,620	7-17	0500	11.32	5,720
4-20	1500	12.29	6,890	9-30	1330	11.99	6,530

03138500 Walhonding River below Mohawk Dam, at Nellie, Ohio

LOCATION.--Lat 40°20'29", long 82°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 mile upstream from Mohawk Creek, and 1.7 miles downstream from Mohawk Dam.

DRAINAGE AREA.--1,505 sq mi.

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 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 miles upstream at datum 15.53 ft higher. Oct. 1, 1937, to Sept. 30, 1938, nonrecording gage at present site at datum 2.09 ft higher.

AVERAGE DISCHARGE.--51 years, 1,438 cfs.

EXTREMES.--Current year: Maximum discharge, 6,850 cfs Apr. 27 (gage height, 11.17 ft); minimum, 12 cfs Oct. 20.
Period of record: Maximum discharge at site at Pomerene, 43,800 cfs Jan. 25, 1937; maximum discharge at present site since regulation began at Mohawk Dam, 24,000 cfs Jan. 25, 26, 1937 (gage height, 18.8 ft, present datum, from floodmarks); minimum, 3.3 cfs Oct. 20, 1939; minimum daily discharge, 19 cfs Feb. 27, 1954.
Flood of March 1913 reached a stage of 26.9 ft (discharge, 102,000 cfs) present site and datum, from information by Corps of Engineers.

REMARKS.--Records good. Flow regulated beginning 1936 by 4 flood-control reservoirs at points 1.7 to 54 miles upstream (see stations 03129500, 03133000, 03134500, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	294	484	2,810	650	1,730	1,370	6,230	1,080	1,250	735	686
2	324	266	472	1,990	650	3,780	1,320	5,770	981	1,050	693	644
3	329	240	560	1,800	650	5,010	1,270	3,650	893	1,290	707	644
4	313	255	630	1,490	650	4,260	1,240	3,410	822	2,960	651	623
5	258	240	518	1,700	650	2,940	1,190	2,410	822	2,210	609	588
6	221	240	532	1,540	672	2,200	1,130	2,010	792	1,700	574	532
7	216	310	853	1,260	728	1,970	2,690	1,720	785	1,420	567	504
8	212	310	1,350	1,130	650	2,460	4,800	1,570	749	1,240	560	478
9	272	272	1,050	1,080	600	2,510	3,040	3,080	707	1,160	581	466
10	362	230	845	1,600	600	1,980	2,450	5,990	672	1,050	546	442
11	407	235	778	1,970	609	1,760	2,300	5,640	644	1,160	518	418
12	345	240	770	1,860	595	1,650	2,000	3,360	595	1,040	504	412
13	282	277	665	1,400	679	2,440	4,030	4,780	735	1,880	525	424
14	248	310	616	1,250	1,070	4,020	5,450	3,550	1,990	2,070	511	1,130
15	243	305	1,520	1,010	1,360	4,330	5,860	4,130	1,360	1,480	504	3,500
16	297	266	2,050	574	2,420	4,560	4,530	3,830	1,700	3,550	490	2,640
17	329	235	1,560	981	2,290	5,120	5,000	2,980	1,380	5,450	853	2,080
18	319	230	1,220	997	2,120	5,280	5,690	2,410	1,150	5,990	3,580	1,560
19	258	240	1,020	1,120	1,840	4,150	4,400	2,100	1,000	5,820	2,340	1,470
20	96	322	877	1,010	1,420	3,290	4,740	1,800	885	5,390	1,850	1,350
21	324	382	877	957	1,100	2,980	4,460	1,660	815	4,170	1,400	1,170
22	225	370	853	845	1,250	3,280	4,020	1,490	770	2,620	1,150	1,010
23	250	294	756	941	1,410	4,610	5,160	1,360	756	2,220	2,010	853
24	328	245	686	1,170	1,250	4,220	6,210	1,240	756	1,600	2,080	823
25	334	245	679	1,130	1,090	3,280	6,740	1,130	728	1,330	1,500	845
26	294	245	672	830	1,130	2,770	6,700	1,040	728	1,340	1,260	893
27	250	294	686	800	1,190	2,410	6,760	949	885	1,120	1,340	1,730
28	245	346	714	750	1,130	1,970	6,720	885	770	1,080	1,280	2,350
29	240	376	728	700	1,320	1,720	6,480	845	714	941	1,050	2,330
30	250	394	1,160	700	------	1,680	6,060	853	1,230	845	877	4,520
31	299	------	4,200	630	------	1,480	------	1,030	------	778	763	------
TOTAL	8,667	8,508	30,381	38,025	31,773	95,840	123,810	82,902	27,894	67,204	32,608	37,115
MEAN	280	284	980	1,227	1,096	3,092	4,127	2,674	930	2,168	1,052	1,237
MAX	407	394	4,200	2,810	2,420	5,280	6,760	6,230	1,990	5,990	3,580	4,520
MIN	96	230	472	574	595	1,480	1,130	845	595	778	490	412

CAL YR 1971 TOTAL 410,912 MEAN 1,126 MAX 7,580 MIN 96
WTR YR 1972 TOTAL 584,727 MEAN 1,598 MAX 6,760 MIN 96

03139000 Killbuck Creek at Killbuck, Ohio

LOCATION.--Lat 40°29'41", long 81°59'12", Holmes County, on right bank at downstream side of highway bridge at Killbuck, 0.3 mile downstream from Black Creek, and 0.9 mile upstream from bridge on U.S. Highway 62.

DRAINAGE AREA.--462 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Oct. 1, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 384 cfs (11.29 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,530 cfs Apr. 20 (gage height, 14.90 ft); minimum, 43 cfs Oct. 7. Period of record: Maximum discharge, 47,500 cfs July 5, 1969 (gage height, 26.40 ft, from floodmarks), from rating curve extended above 11,000 cfs on basis of slope-area measurement of peak flow; minimum, 23 cfs Sept. 10-15, 28-30, 1954.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	55	122	603	143	552	388	475	371	510	189	194
2	60	59	107	455	136	1,130	376	475	280	365	180	194
3	60	66	97	363	140	1,330	351	772	236	434	190	193
4	50	71	85	310	172	1,260	338	618	208	689	180	181
5	48	65	77	338	187	1,120	335	523	187	479	165	165
6	46	63	99	304	164	799	339	449	179	377	155	153
7	45	67	222	261	148	639	726	400	174	311	158	153
8	47	70	314	234	132	950	935	412	169	297	157	147
9	50	67	255	227	133	810	706	867	154	278	155	148
10	77	68	184	325	119	666	587	1,220	158	289	151	139
11	82	70	153	396	120	551	512	1,110	149	316	144	134
12	72	69	132	347	125	526	450	802	140	265	143	136
13	63	67	122	296	212	1,020	953	590	284	229	153	139
14	64	66	141	259	409	1,320	1,280	890	329	260	144	420
15	62	66	420	211	569	1,400	1,160	961	267	238	173	622
16	57	70	452	190	699	1,610	1,070	742	600	928	221	535
17	54	66	346	190	586	2,020	1,260	586	372	1,800	296	532
18	51	62	237	188	582	1,930	1,210	489	266	1,570	709	510
19	52	66	182	198	537	1,690	1,130	419	222	1,340	590	436
20	53	86	172	191	397	1,420	1,860	373	199	1,080	554	386
21	50	85	170	178	330	1,190	2,400	341	189	702	459	285
22	53	81	152	170	442	1,040	2,280	297	184	508	356	231
23	63	77	138	199	407	1,030	2,310	266	213	526	398	200
24	70	73	132	234	361	975	2,140	245	225	502	392	208
25	68	73	124	240	298	899	1,850	230	219	420	326	219
26	66	72	120	186	334	767	1,550	215	268	360	289	233
27	65	74	123	170	310	646	1,180	197	302	310	388	389
28	62	84	126	160	320	549	811	184	249	270	408	479
29	59	87	126	150	411	478	617	177	274	240	351	515
30	58	117	376	150	------	471	523	205	658	210	266	986
31	57	------	823	140	------	420	------	318	------	200	220	------
TOTAL	1,835	2,162	6,329	7,863	8,923	31,208	31,627	15,848	7,725	16,303	8,660	9,262
MEAN	59.2	72.1	204	254	308	1,007	1,054	511	258	526	279	309
MAX	82	117	823	603	699	2,020	2,400	1,220	658	1,800	709	986
MIN	45	55	77	140	119	420	335	177	140	200	143	134
CFSM	.13	.16	.44	.55	.67	2.18	2.28	1.11	.56	1.14	.60	.67
IN.	.15	.17	.51	.63	.72	2.51	2.55	1.28	.62	1.31	.70	.75

CAL YR 1971 TOTAL 115,457 MEAN 316 MAX 3,250 MIN 37 CFSM .68 IN 9.30
WTR YR 1972 TOTAL 147,745 MEAN 404 MAX 2,400 MIN 45 CFSM .87 IN 11.90

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	1500	14.24	2,070	4-20	2300	14.90	2,530

03140000 Mill Creek near Coshocton, Ohio

LOCATION.--Lat 40°21'46", long 81°51'45", Coshocton County, on left bank 0.5 mile downstream from Little Mill Creek and 6 miles north of Coshocton.

DRAINAGE AREA.--27.2 sq mi.

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 above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--36 years, 26.8 cfs (13.38 inches per year).

EXTREMES.--Current year: Maximum discharge, 713 cfs Apr. 7 (gage height, 8.35 ft); minimum, 0.34 cfs Oct. 21 (gage height, 0.64 ft).
Period of record: Maximum discharge, 8,720 cfs July 5, 1969 (gage height, 13.92 ft), from rating curve extended above 2,200 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.96	4.3	38	7.2	35	23	28	13	5.2	1.6	1.2
2	1.2	1.5	2.8	40	8.7	151	22	27	8.7	4.1	1.8	1.1
3	1.1	4.0	2.1	29	12	107	21	25	7.1	4.4	4.7	2.1
4	.96	1.9	2.0	27	11	67	22	22	5.9	4.2	2.3	2.0
5	.80	1.3	2.2	33	7.5	49	19	20	5.0	4.9	1.6	1.4
6	.80	1.2	17	24	8.2	37	19	17	4.9	5.8	1.4	1.1
7	.80	1.4	83	21	8.0	44	328	16	4.7	3.8	1.4	.95
8	.71	1.5	31	17	6.2	77	142	20	3.9	4.7	1.7	.90
9	.80	1.4	15	22	5.0	40	99	61	3.8	4.9	3.2	.85
10	1.6	1.4	11	34	4.2	35	83	39	4.4	28	2.1	.75
11	1.8	1.6	9.8	27	5.4	30	66	27	3.2	11	1.4	.67
12	1.2	1.6	7.5	21	6.4	30	52	23	3.0	7.7	1.2	.70
13	1.0	1.5	6.6	23	170	288	329	22	54	6.1	1.4	.80
14	1.1	1.4	21	24	151	123	136	57	18	5.8	1.3	8.8
15	1.1	1.4	58	15	158	96	92	43	11	4.7	1.0	4.2
16	1.1	1.4	34	13	80	193	136	36	18	13	.90	2.0
17	.96	1.5	20	12	53	174	132	30	8.7	16	30	1.6
18	.91	1.4	14	10	51	105	90	26	7.1	8.2	21	2.0
19	.86	1.7	11	9.5	44	67	78	22	5.9	5.9	14	2.6
20	.56	2.3	14	9.0	30	53	325	20	5.6	5.0	7.1	1.4
21	.48	2.2	13	10	26	47	148	18	6.1	4.2	3.9	1.1
22	.77	1.9	10	12	25	62	152	15	6.1	3.6	3.2	1.0
23	1.4	1.5	8.7	32	19	49	114	14	9.0	3.6	3.0	.95
24	1.7	1.4	9.0	27	20	40	87	12	7.7	4.1	2.8	1.6
25	1.6	1.4	8.0	20	18	36	66	11	6.6	3.3	2.4	2.6
26	1.4	1.6	9.5	14	23	32	52	9.0	10	2.8	2.7	2.9
27	1.2	1.9	11	12	18	31	42	7.9	8.7	3.3	2.7	3.8
28	1.1	2.5	14	11	19	27	36	7.4	6.1	3.2	2.2	4.5
29	1.1	4.0	13	9.5	21	27	31	7.1	5.9	2.4	1.8	4.2
30	1.0	8.0	167	8.0	------	27	29	12	6.1	2.2	1.4	26
31	1.0	------	75	6.8	------	23	------	12	------	1.8	1.2	------
TOTAL	33.41	58.76	704.5	610.8	1,015.8	2,202	2,971	706.4	268.2	187.9	128.40	85.77
MEAN	1.08	1.96	22.7	19.7	35.0	71.0	99.0	22.8	8.94	6.06	4.14	2.86
MAX	1.8	8.0	167	40	170	288	329	61	54	28	30	26
MIN	.48	.96	2.0	6.8	4.2	23	19	7.1	3.0	1.8	.90	.67
CFSM	.04	.07	.83	.72	1.29	2.61	3.64	.84	.33	.22	.15	.11
IN.	.05	.08	.96	.84	1.39	3.01	4.06	.97	.37	.26	.18	.12

CAL YR 1971 TOTAL 7,573.99 MEAN 20.8 MAX 687 MIN .06 CFSM .76 IN 10.36
WTR YR 1972 TOTAL 8,972.94 MEAN 24.5 MAX 329 MIN .48 CFSM .90 IN 12.27

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-7	0900	8.35	713	4-13	0645	8.32	708

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 mile southwest of Coshocton, and 2 miles downstream from confluence of Tuscarawas and Walhonding Rivers.

DRAINAGE AREA.--4,859 sq mi.

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

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

AVERAGE DISCHARGE.--36 years, 4,706 cfs.

EXTREMES.--Current year: Maximum discharge, 17,900 cfs Apr. 25 (gage height, 9.20 ft); minimum, 532 cfs Oct. 21.
Period of record: Maximum discharge, 78,700 cfs Jan. 26, 1937 (gage height, 21.98 ft); minimum, 342 cfs Nov. 4, 1944.
Flood of March 1913 reached a stage of about 28.8 ft (discharge, 202,000 cfs), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by 12 flood-control reservoirs at points 19 to 88 miles upstream (see pp. 78, 79). 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	961	781	2,040	9,220	2,450	5,240	5,370	10,300	3,340	3,930	1,900	1,810
2	980	781	2,110	7,820	2,400	7,560	4,970	10,400	3,460	3,610	1,840	1,660
3	980	745	2,170	6,700	2,400	11,700	4,800	8,400	3,180	3,150	1,860	1,750
4	943	790	2,100	5,980	2,400	12,900	4,650	8,760	2,880	5,260	1,750	1,690
5	889	781	2,110	6,000	2,300	11,700	4,510	7,070	2,600	5,570	1,640	1,610
6	799	745	2,210	6,180	2,000	9,810	4,340	6,100	2,350	4,750	1,550	1,450
7	763	790	3,160	5,420	2,300	7,990	6,900	5,470	2,240	4,300	1,480	1,360
8	754	808	5,190	4,700	2,200	7,680	12,000	5,050	2,110	3,710	1,430	1,280
9	790	808	5,910	4,060	2,000	9,090	11,200	6,500	1,990	3,390	1,500	1,210
10	916	745	5,140	4,190	1,900	9,230	9,370	10,500	1,900	3,440	1,480	1,160
11	1,050	745	4,350	5,040	1,900	8,290	8,490	11,400	1,810	4,140	1,400	1,110
12	1,070	754	3,770	5,460	2,000	7,260	7,900	8,580	1,720	4,190	1,340	1,070
13	1,020	754	3,400	5,040	2,500	7,810	10,600	8,980	2,020	4,220	1,300	1,070
14	916	799	3,160	4,410	3,700	11,300	13,500	7,830	3,820	4,380	1,290	1,450
15	862	790	4,160	4,030	6,000	13,600	15,300	8,510	3,260	3,630	1,230	5,460
16	826	772	6,400	3,180	6,850	14,600	13,700	8,380	3,920	4,960	1,250	5,960
17	871	952	6,670	2,400	7,880	15,900	13,800	7,280	4,220	8,860	1,500	5,080
18	853	1,110	5,370	2,700	7,260	16,800	14,900	6,330	3,530	11,500	5,320	4,090
19	808	1,150	4,250	3,500	6,880	16,400	14,400	5,710	2,910	11,700	5,370	3,690
20	709	1,180	3,560	3,150	6,130	14,800	14,400	5,120	2,520	10,400	4,830	3,770
21	652	1,360	3,440	3,080	5,020	13,000	16,000	4,750	2,310	8,540	4,010	3,290
22	790	1,340	3,290	3,000	4,430	12,000	17,200	4,330	2,200	5,780	3,290	2,670
23	718	1,310	3,040	3,250	4,940	12,600	17,200	4,080	2,310	4,780	3,560	2,210
24	799	1,260	2,650	3,880	5,140	13,100	17,700	3,830	2,580	4,140	3,680	2,020
25	844	1,280	2,370	4,350	4,730	11,900	17,800	3,480	2,930	3,760	3,190	2,030
26	853	1,290	2,270	4,160	4,480	10,600	16,700	3,200	2,950	3,520	2,760	2,080
27	799	1,360	2,250	3,560	4,700	9,160	15,300	2,950	3,300	3,050	3,500	2,730
28	799	1,470	2,340	3,300	4,830	7,480	13,500	2,730	3,020	2,760	3,790	4,160
29	781	1,660	2,590	2,900	4,750	6,810	11,900	2,560	2,730	2,550	3,080	4,840
30	754	1,810	3,420	2,740	------	6,920	10,800	2,520	3,390	2,300	2,510	6,610
31	772	------	8,460	2,550	------	5,960	------	2,820	------	2,020	2,060	------
TOTAL	26,321	30,920	113,350	135,950	116,470	329,190	349,200	193,920	83,500	152,290	76,690	80,370
MEAN	849	1,031	3,656	4,385	4,016	10,620	11,640	6,255	2,783	4,913	2,474	2,679
MAX	1,070	1,810	8,460	9,220	7,880	16,800	17,800	11,400	4,220	11,700	5,370	6,610
MIN	652	745	2,040	2,400	1,900	5,240	4,340	2,520	1,720	2,020	1,230	1,070

CAL YR 1971 TOTAL 1,414,897 MEAN 3,876 MAX 21,100 MIN 652
WTR YR 1972 TOTAL 1,688,171 MEAN 4,612 MAX 17,800 MIN 652

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 downstream from Senecaville Dam, and 1.5 miles southeast of Senecaville.

DRAINAGE AREA.--118 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Jan. 24, 1942, at site 150 ft downstream at same datum.

AVERAGE DISCHARGE.--34 years, 125 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 725 cfs Apr. 28, 29 (gage height, 8.28 ft); minimum, 0.26 cfs Aug. 30 (gage height 3.91 ft).
Period of record: Maximum discharge, 914 cfs Apr. 7, 1964; maximum gage height, 10.35 ft Feb. 1, 1949; no flow May 3, 4, 1939, Jan. 28, 29, Feb. 4, 5, Apr. 25, 1952.

REMARKS.--Records good. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	5.3	179	193	6.0	56	41	712	5.3	89	2.6	19
2	15	5.3	164	316	6.0	111	2.4	707	5.3	89	2.0	14
3	15	5.3	164	396	6.0	144	2.4	699	5.6	87	1.9	6.3
4	14	5.3	164	394	55	190	2.3	690	5.6	87	2.0	6.0
5	15	5.3	164	152	147	258	2.0	492	6.0	87	1.9	5.6
6	15	5.3	240	92	147	290	2.2	214	6.0	87	1.9	6.0
7	15	5.3	163	318	147	295	2.6	3.6	6.0	92	34	6.0
8	15	5.3	150	486	152	297	53	4.8	6.0	92	46	6.0
9	15	5.3	166	255	152	295	82	4.8	5.6	92	21	6.0
10	15	5.3	279	34	96	266	155	5.0	5.6	34	3.0	6.0
11	15	5.6	345	53	7.2	244	456	5.3	5.6	2.7	3.0	6.0
12	15	5.6	343	128	4.8	239	561	37	5.6	2.9	2.7	5.6
13	18	5.6	334	236	3.2	121	292	47	5.6	2.9	2.2	5.6
14	6.3	5.6	482	260	2.9	4.2	34	48	6.0	32	2.0	6.0
15	10	161	604	258	2.9	3.0	46	74	5.6	46	2.0	6.3
16	10	293	599	111	2.9	3.6	3.2	152	5.6	56	1.9	6.3
17	11	298	426	9.0	2.9	4.0	87	223	5.6	236	2.0	6.0
18	11	300	89	4.6	55	4.0	414	76	5.6	367	103	6.0
19	11	302	2.6	3.8	85	3.4	651	25	5.3	258	166	6.0
20	11	298	2.2	7.2	85	126	452	52	5.3	123	163	6.0
21	10	295	3.6	9.0	85	454	373	80	6.3	121	56	7.6
22	11	293	2.3	2.4	171	574	241	41	6.0	116	2.9	6.3
23	11	288	2.2	2.4	392	572	3.0	24	5.6	106	3.0	6.3
24	11	288	2.2	147	424	523	300	32	5.6	37	21	6.3
25	10	288	2.2	241	362	436	559	47	6.0	15	30	6.3
26	10	283	3.2	271	144	436	676	48	6.0	15	30	6.3
27	8.6	252	3.8	327	38	172	676	24	42	15	30	6.3
28	5.6	217	3.8	193	38	82	691	6.0	82	14	30	6.6
29	5.3	206	3.6	25	38	85	723	5.3	101	14	30	6.6
30	5.3	203	80	6.0	------	85	718	5.0	92	14	18	6.6
31	5.3	------	193	6.0	------	82	------	5.3	------	6.9	19	------
TOTAL	360.4	4,340.4	5,359.7	4,936.4	2,857.8	6,455.2	8,301.1	4,589.1	465.3	2,436.4	834.0	205.9
MEAN	11.6	145	173	159	98.5	208	277	148	15.5	78.6	26.9	6.86
MAX	18	302	604	486	424	574	723	712	101	367	166	19
MIN	5.3	5.3	2.2	2.4	2.9	3.0	2.0	3.6	5.3	2.7	1.9	5.6
(+)	2.20	2.06	1.77	1.38	2.06	1.95	2.02	1.57	1.99	2.52	2.49	3.33

CAL YR 1971 TOTAL 32,253.7 MEAN 88.4 MAX 675 MIN 1.1 (+) 1.79
WTR YR 1972 TOTAL 41,141.7 MEAN 112 MAX 723 MIN 1.9 (+) 2.11

+ 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 Fairground Bridge on South Ninth Street in Cambridge, 0.9 mile downstream from Leatherwood Creek.

DRAINAGE AREA.--406 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 772.34 ft above mean sea level, adjustment of 1912. Prior to Oct. 6, 1927, nonrecording gage at site 1.5 miles 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.--37 years, 430 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,300 cfs Apr. 17 (gage height, 11.72 ft); minimum, 14 cfs Aug. 16, 17.
Period of record: Maximum discharge, about 8,500 cfs June 6 or 7, 1963; maximum gage height, 22.55 ft June 6, 1963 (backwater from tributaries); minimum discharge, 0.6 cfs Oct. 6, 1960.
Flood of Aug. 8, 1935, reached a stage of 25.4 ft.

REMARKS.--Records good. Flow regulated by Senecaville Lake on Seneca Fork (22 miles upstream) beginning in 1937 (see station 03141000). Water is diverted 2.7 miles 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: 1928(M). WSP 893: 1928. WSP 973: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	18	379	736	119	324	277	849	84	212	34	38
2	41	22	268	513	110	414	230	852	73	159	34	40
3	33	21	210	772	129	1,050	200	846	60	141	38	94
4	30	34	202	707	200	1,110	262	812	55	166	48	113
5	27	33	196	966	306	850	300	776	50	175	64	70
6	26	26	298	1,000	346	731	245	496	49	198	46	40
7	24	21	1,310	531	302	727	948	279	49	184	34	31
8	24	20	1,900	602	273	1,080	1,400	146	53	150	47	27
9	24	19	1,860	647	250	1,010	935	309	50	154	71	26
10	28	20	918	538	180	738	656	689	47	156	48	24
11	33	20	568	476	135	621	760	359	56	146	23	24
12	41	20	508	409	94	573	879	237	51	90	19	25
13	35	21	453	420	304	635	1,450	230	49	58	18	26
14	38	21	444	499	1,410	510	1,750	234	48	45	16	29
15	30	21	728	464	1,720	373	1,590	253	54	60	15	23
16	20	183	976	455	1,540	721	1,960	296	54	92	15	24
17	26	289	853	326	962	1,790	2,270	406	59	204	47	24
18	24	287	524	143	653	1,910	1,980	470	54	330	288	30
19	20	289	234	148	806	985	1,390	275	42	387	389	26
20	20	287	146	169	626	528	1,380	194	39	262	285	26
21	20	287	204	174	451	579	1,120	214	40	172	210	23
22	23	291	166	186	449	867	1,640	220	53	162	96	21
23	26	292	125	262	503	1,150	2,060	149	67	156	89	20
24	28	291	110	437	623	1,070	1,540	115	157	137	67	22
25	35	289	110	666	670	885	1,150	113	103	70	55	27
26	46	289	103	668	642	755	995	125	73	42	58	37
27	38	294	113	510	492	701	949	116	72	40	73	80
28	30	281	130	513	352	432	887	84	106	40	64	396
29	26	304	178	314	332	347	872	64	157	42	59	213
30	21	375	230	174	------	344	862	69	264	37	54	131
31	19	------	949	142	------	310	------	78	------	33	44	------
TOTAL	892	4,665	15,393	14,567	14,979	24,120	32,937	10,355	2,168	4,300	2,448	1,730
MEAN	28.8	156	497	470	517	778	1,098	334	72.3	139	79.0	57.7
MAX	46	375	1,900	1,000	1,720	1,910	2,270	852	264	387	389	396
MIN	19	18	103	142	94	310	200	64	39	33	15	20
(+)	3.96	3.94	3.72	3.96	4.10	4.10	3.71	4.21	4.49	4.50	4.79	5.07

CAL YR 1971 TOTAL 111,807.6 MEAN 306 MAX 3,260 MIN 3.9 (+) 3.90
WTR YR 1972 TOTAL 128,554.0 MEAN 351 MAX 2,270 MIN 15 (+) 4.21

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

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 outlets works near left end of Salt Fork Dam, 0.8 mile upstream from the mouth and 5.0 miles north of Cambridge.

DRAINAGE AREA.--159 sq mi.

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

GAGE.--Water-stage recorder and morning-glory spillway control. Datum of gage is 700.00 ft 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, 840 cfs Apr. 23 (elevation, 803.45 ft); minimum daily, 0.29 cfs Nov. 9, 10.
Period of record: Maximum discharge, 840 cfs Apr. 23, 1972 (elevation 803.45 ft); no flow at times in 1970-71.

REMARKS.--Records good except those below 1 cfs, which are fair. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	2.5	19	179	157	252	225	331	64	45	6.8	22
2	14	3.0	19	190	149	250	210	300	55	39	6.2	22
3	13	1.6	21	202	137	280	198	280	50	39	6.8	24
4	12	1.6	21	205	131	305	188	265	45	37	7.5	22
5	10	1.6	21	222	135	302	183	245	43	44	4.6	16
6	8.0	.55	39	238	129	300	177	212	40	45	4.6	17
7	5.9	.55	111	238	125	295	222	183	38	44	4.0	22
8	5.3	.55	210	230	129	325	285	173	34	43	3.0	21
9	6.6	.29	278	222	125	340	315	181	34	40	2.6	17
10	10	.29	292	225	118	332	322	190	29	44	2.1	14
11	5.9	.55	272	222	116	330	320	188	27	46	1.7	7.5
12	4.7	.55	248	220	112	310	310	179	26	45	1.7	7.5
13	4.7	.55	220	210	135	325	405	169	34	41	2.6	7.5
14	4.7	.55	200	205	192	345	544	165	39	40	2.6	8.2
15	4.1	.55	212	185	268	358	603	177	37	38	2.1	8.2
16	4.7	.55	222	179	340	390	617	185	38	38	1.7	6.8
17	4.1	.55	212	170	378	519	680	183	33	37	12	6.8
18	4.1	.55	198	160	390	592	701	181	27	35	50	6.2
19	4.1	.55	185	155	390	578	656	175	24	33	65	5.6
20	4.1	.55	179	155	369	525	656	163	24	32	55	4.0
21	3.5	.55	169	151	352	480	680	149	22	32	42	3.0
22	3.0	.85	159	159	325	447	746	151	18	28	32	2.1
23	3.0	.85	147	161	298	420	828	165	24	26	26	1.4
24	4.1	1.2	139	169	275	402	816	143	28	21	22	4.6
25	3.5	1.2	129	173	260	378	733	129	32	18	20	5.6
26	4.1	1.6	125	183	248	350	632	114	39	16	26	3.0
27	4.1	2.0	125	179	248	325	548	97	45	16	30	4.0
28	4.1	4.1	118	179	242	302	481	82	46	14	28	6.8
29	3.0	6.6	118	177	255	280	424	72	48	12	26	16
30	3.0	14	131	173	------	262	376	74	50	9.4	22	22
31	3.5	------	157	165	------	245	------	68	------	8.2	24	------
TOTAL	182.9	50.98	4,696	5,881	6,528	11,144	14,081	5,369	1,093	1,005.6	540.6	333.8
MEAN	5.90	1.70	151	190	225	359	469	173	36.4	32.4	17.4	11.1
MAX	14	14	292	238	390	592	828	331	64	46	65	24
MIN	3.0	.29	19	151	112	245	177	68	18	8.2	1.7	1.4

CAL YR 1971 TOTAL 40,575.95 MEAN 111 MAX 328 MIN 0
WTR YR 1972 TOTAL 50,905.88 MEAN 139 MAX 828 MIN .29

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 downstream from Wills Creek Dam, 1.3 miles southeast of town of Wills Creek, 2.7 miles southeast of Conesville, and 6.2 miles upstream from mouth.

DRAINAGE AREA.--842 sq mi.

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 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 downstream at same datum.

AVERAGE DISCHARGE.--34 years, 876 cfs.

EXTREMES.--Current year: Maximum discharge, 4,740 cfs Apr. 26 (gage height, 14.54 ft); minimum daily, 37 cfs Nov. 6.
Period of record: Maximum discharge, 6,930 cfs Mar. 7, 1940; maximum gage height, 17.50 ft Mar. 22, 1964 (backwater from Muskingum River); minimum daily discharge, 1 cfs Aug. 10, Oct. 27-29, 1948, Jan. 28, 1952, July 6-9, 1969, Apr. 3, 1970.
Flood of March 1913 reached a discharge of 22,300 cfs, computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Senecaville Lake on Seneca Fork (80 miles upstream), Salt Fork Reservoir (43 miles upstream), and Wills Creek Lake (0.2 mile 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	54	411	980	515	893	812	1,640	269	335	77	115
2	57	51	454	1,290	458	952	755	1,560	258	386	74	107
3	55	50	441	1,190	425	1,370	698	1,460	247	363	82	98
4	57	43	371	1,180	400	1,910	638	1,390	227	318	81	96
5	58	40	315	1,260	373	2,140	593	1,320	201	290	70	111
6	55	37	331	1,370	405	1,880	605	1,230	181	296	65	134
7	51	40	631	1,510	518	1,590	869	1,100	166	301	66	130
8	46	46	1,350	1,270	558	1,570	1,620	875	150	312	69	111
9	46	48	2,060	1,070	520	1,830	2,200	791	138	306	77	93
10	50	45	2,330	1,090	498	1,930	2,240	875	137	321	71	79
11	48	46	2,030	1,090	458	1,660	1,850	1,130	129	338	68	69
12	48	44	1,390	1,020	438	1,400	1,500	1,120	122	326	70	64
13	46	43	1,070	935	448	1,320	2,350	886	144	295	71	59
14	52	42	946	879	722	1,580	3,310	775	163	248	66	59
15	58	41	947	866	1,520	1,700	3,440	753	153	201	60	57
16	60	42	1,070	836	2,340	1,630	3,390	808	151	177	52	53
17	61	42	1,290	641	2,690	2,180	3,510	914	143	172	74	51
18	58	94	1,350	611	2,360	2,980	3,690	930	136	237	136	50
19	50	221	1,170	585	1,870	3,300	3,800	939	131	331	184	49
20	46	301	895	500	1,640	2,970	3,860	880	126	450	339	47
21	43	333	669	475	1,480	2,130	3,660	742	122	470	441	45
22	44	342	561	475	1,240	1,700	1,720	633	117	385	397	45
23	44	343	530	538	1,080	1,920	1,100	593	127	309	327	44
24	44	342	475	638	1,030	2,130	1,540	565	145	263	244	51
25	44	343	419	812	1,060	2,100	3,380	497	167	233	195	56
26	46	343	378	1,000	1,140	1,860	4,550	425	222	205	173	59
27	47	343	361	1,110	1,190	1,580	4,250	376	246	172	159	66
28	52	346	356	1,040	1,130	1,380	2,790	348	254	142	143	71
29	60	362	375	938	987	1,180	2,060	325	267	116	139	123
30	61	386	427	842	------	994	1,780	299	303	95	134	333
31	57	------	607	650	------	882	------	279	------	83	126	------
TOTAL	1,601	4,853	26,010	28,691	29,493	54,641	68,560	26,458	5,342	8,476	4,330	2,525
MEAN	51.6	162	839	926	1,017	1,763	2,285	853	178	273	140	84.2
MAX	61	386	2,330	1,510	2,690	3,300	4,550	1,640	303	470	441	333
MIN	43	37	315	475	373	882	593	279	117	83	52	44

CAL YR 1971 TOTAL 241,007 MEAN 660 MAX 4,800 MIN 19
WTR YR 1972 TOTAL 260,980 MEAN 713 MAX 4,550 MIN 37

03144000 Wakatomika Creek near Frazeysburg, 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 miles northwest of Frazeysburg, 2.0 miles downstream from Fivemile Run, and 2.5 miles upstream from Black Run.

DRAINAGE AREA.--140 sq mi.

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

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

AVERAGE DISCHARGE.--36 years, 145 cfs (14.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,700 cfs Apr. 7 (gage height, 5.59 ft), minimum, 6.1 cfs Dec. 4. Period of record: Maximum discharge, 13,700 cfs Jan. 22, 1959 (gage height, 13.15 ft), from rating curve exteneded above 7,700 cfs on basis of contracted-opening measurement of peak flow; minimum, 2.0 cfs Oct. 3, 1963 (gage height, 0.94 ft).

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.5	14	150	36	106	106	127	82	38	18	21
2	9.1	9.4	9.8	119	35	327	108	121	65	29	18	20
3	8.1	10	7.3	106	40	545	101	127	54	28	18	21
4	7.6	10	6.8	88	50	394	99	121	46	30	21	23
5	7.1	11	6.7	108	48	295	93	101	40	31	18	20
6	7.1	10	16	95	44	198	86	86	36	32	16	18
7	6.8	11	59	83	42	190	815	78	35	25	19	17
8	6.7	11	47	72	40	251	945	83	33	25	19	16
9	7.2	10	22	74	38	188	469	358	30	26	23	16
10	8.2	9.6	16	119	38	165	342	563	29	136	21	15
11	9.8	9.0	13	132	39	145	278	302	27	95	17	14
12	9.8	8.8	11	106	40	141	224	221	25	57	17	14
13	8.8	8.6	10	70	77	203	1,180	180	27	43	18	23
14	9.0	8.4	12	46	292	254	784	523	66	75	16	18
15	11	8.4	47	34	327	218	460	599	43	55	15	23
16	9.3	8.2	59	35	460	267	455	406	88	69	14	21
17	8.3	8.4	32	36	327	550	694	295	61	78	33	18
18	8.1	8.4	20	36	267	406	451	221	39	61	97	17
19	8.0	9.1	16	44	239	281	346	178	32	47	71	16
20	7.6	11	17	50	178	221	856	148	28	39	47	15
21	7.5	11	19	56	150	190	739	134	30	33	31	14
22	8.2	11	17	57	130	221	890	112	29	30	69	16
23	9.2	9.8	14	66	114	267	752	97	33	53	155	15
24	11	9.2	14	80	100	221	527	85	35	36	75	19
25	11	9.2	13	83	92	193	378	75	32	28	49	29
26	11	9.2	13	58	100	173	295	65	29	24	41	26
27	11	9.8	15	52	108	155	245	57	28	26	57	71
28	10	12	17	46	104	143	198	53	38	29	45	88
29	10	14	18	43	104	125	168	50	36	23	33	74
30	9.6	19	163	40	------	132	141	58	45	21	27	206
31	9.2	------	354	38	------	117	------	102	------	20	23	------
TOTAL	275.3	304.0	1,098.6	2,222	3,659	7,282	13,225	5,726	1,221	1,342	1,141	924
MEAN	8.88	10.1	35.4	71.7	126	235	441	185	40.7	43.3	36.8	30.8
MAX	11	19	354	150	460	550	1,180	599	88	136	155	206
MIN	6.7	8.2	6.7	34	35	106	86	50	25	20	14	14
CFSM	.06	.07	.25	.51	.90	1.68	3.15	1.32	.29	.31	.26	.22
IN.	.07	.08	.29	.59	.97	1.93	3.51	1.52	.32	.36	.30	.25

CAL YR 1971 TOTAL 38,930.2 MEAN 107 MAX 1,480 MIN 6.5 CFSM .76 IN 10.34
WTR YR 1972 TOTAL 38,419.9 MEAN 105 MAX 1,180 MIN 6.7 CFSM .75 IN 10.21

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-7	2330	5.59	1,700	4-13	1815	5.47	1,630

03144500 Muskingum River at Dresden, Ohio

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

DRAINAGE AREA.--5,993 sq mi.

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

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

AVERAGE DISCHARGE.--51 years, 6,029 cfs.

EXTREMES.--Current year: Maximum discharge, 24,200 cfs Apr. 25 (gage height, 16.00 ft); minimum, 664 cfs Oct. 21.
Period of record: Maximum discharge, 100,000 cfs Aug. 9, 1935 (gage height, 31.6 ft); minimum, 335 cfs June 25, 1925.
Flood of March 1913 reached a stage of 46.0 ft, present site and datum, from floodmark (discharge, 228,000 cfs, computed by Corps of Engineers).

REMARKS.--Records good. Flow regulated by 15 flood-control reservoirs at points 15 to 105 miles upstream (see pp. 78-82). 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,090	860	2,380	10,600	2,940	6,530	6,840	13,400	3,680	4,340	2,160	2,210
2	1,060	860	2,550	9,630	2,940	9,430	6,250	13,400	3,910	4,220	2,050	2,020
3	1,100	840	2,600	8,330	2,960	14,600	5,960	11,300	3,650	3,680	2,060	2,000
4	1,060	840	2,490	7,430	2,970	16,100	5,720	11,400	3,320	4,880	2,000	2,060
5	1,020	850	2,450	7,530	2,790	15,300	5,510	9,630	3,000	6,040	1,880	1,930
6	933	830	2,540	7,890	2,420	12,900	5,310	8,350	2,740	5,330	1,780	1,840
7	880	850	3,520	7,350	2,860	10,500	8,210	7,470	2,560	4,860	1,710	1,720
8	860	870	6,040	6,310	2,670	10,100	16,000	6,700	2,440	4,290	1,670	1,630
9	880	890	7,850	5,350	2,440	12,100	15,400	7,590	2,300	3,880	1,720	1,540
10	988	850	7,610	5,260	2,270	12,100	13,400	11,200	2,190	4,080	1,720	1,460
11	1,100	830	6,590	6,310	2,330	10,700	11,800	14,000	2,070	4,440	1,630	1,400
12	1,180	840	5,310	6,400	2,440	10,400	10,700	11,800	1,990	4,880	1,570	1,350
13	1,130	830	4,510	6,380	2,840	9,930	14,400	10,600	2,100	4,460	1,520	1,330
14	1,050	850	4,100	5,470	4,520	14,500	19,600	10,100	3,650	4,920	1,510	1,520
15	999	870	4,780	4,950	7,470	16,800	20,800	10,800	3,600	4,290	1,450	4,630
16	966	850	7,310	4,020	9,780	17,500	19,600	10,600	3,890	4,270	1,420	6,400
17	988	944	8,090	2,860	11,300	20,000	19,600	9,520	4,440	8,490	1,670	5,650
18	999	1,180	7,050	3,240	10,400	21,600	20,500	8,330	3,920	11,800	4,640	4,610
19	955	1,350	5,600	4,200	9,410	21,400	20,300	7,550	3,260	12,600	5,960	3,990
20	860	1,470	4,580	3,810	8,230	19,500	20,800	6,800	2,800	11,700	5,510	4,070
21	720	1,660	4,120	3,600	7,170	16,800	22,400	6,140	2,550	10,200	4,830	3,720
22	933	1,710	3,830	3,520	5,980	15,200	22,700	5,540	2,420	7,170	4,120	3,080
23	850	1,680	3,590	3,760	6,320	16,200	21,200	5,130	2,470	5,600	4,040	2,600
24	880	1,640	3,140	4,490	6,440	16,800	22,200	4,780	2,660	4,830	4,360	2,400
25	944	1,660	2,800	5,180	5,980	15,500	24,000	4,390	3,020	4,240	3,830	2,380
26	955	1,660	2,640	5,240	5,800	13,900	23,300	3,960	3,180	3,960	3,240	2,400
27	922	1,710	2,600	4,810	6,140	12,000	22,000	3,600	3,480	3,570	3,700	2,740
28	890	1,800	2,620	4,490	6,210	9,870	18,500	3,320	3,520	3,060	4,180	4,300
29	880	1,990	2,840	3,910	5,940	8,990	15,800	3,120	3,140	2,910	3,620	5,310
30	850	2,190	3,520	3,620	------	9,030	14,200	3,020	3,440	2,560	2,980	6,690
31	850	------	8,450	3,200	------	7,670	------	3,210	------	2,330	2,510	------
TOTAL	29,772	36,254	138,100	169,140	151,960	423,950	473,000	246,750	91,390	167,880	87,040	88,980
MEAN	960	1,208	4,455	5,456	5,240	13,680	15,770	7,960	3,046	5,415	2,808	2,966
MAX	1,180	2,190	8,450	10,600	11,300	21,600	24,000	14,000	4,440	12,600	5,960	6,690
MIN	720	830	2,380	2,860	2,270	6,530	5,310	3,020	1,990	2,330	1,420	1,330

CAL YR 1971 TOTAL 1,764,842 MEAN 4,835 MAX 26,000 MIN 720
WTR YR 1972 TOTAL 2,104,216 MEAN 5,749 MAX 24,000 MIN 720

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, near center span on downstream side of bridge on county road, 800 ft downstream from Beaver Run, 2.3 miles north of Hebron, and 2.5 miles upstream from Ramp Creek.

DRAINAGE AREA.--133 sq mi.

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

GAGE.--Nonrecording gage. Datum of gage is 856.08 ft above mean sea level. October 1939 to September 1948 at same site at datum 1.08 ft lower.

AVERAGE DISCHARGE.--13 years, 128 cfs.

EXTREMES.--Current year: Maximum discharge, 1,240 cfs Apr. 8, Apr. 22 (gage height, 7.77 ft); minimum, 3.4 cfs Nov. 15, 17.
Period of record: Maximum discharge, 4,120 cfs Mar. 6, 1945 (gage height, 12.1 ft, from flood marks); no flow Aug. 22, 1942.

REMARKS.--Records fair. Occasional regulation by Buckeye Lake (capacity 27,300 acre-feet) on unnamed tributary 5.6 miles upstream from station. Occasional diversion from Buckeye Lake into Johathan 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	4.1	212	210	22	145	92	50	83	34	9.7	20
2	4.1	4.5	200	145	21	569	76	46	54	17	10	16
3	4.1	5.1	159	228	27	547	70	46	38	21	11	22
4	4.5	4.5	61	322	35	286	72	51	28	56	9.4	22
5	8.2	4.3	10	230	33	166	73	43	23	36	9.4	23
6	9.0	4.1	34	170	30	108	61	38	19	25	8.6	22
7	7.9	4.3	428	96	28	100	496	31	18	15	8.6	20
8	7.9	4.3	511	70	26	259	834	47	15	14	7.9	19
9	8.6	4.3	307	76	24	156	356	652	14	10	10	18
10	7.9	6.0	260	317	23	98	322	631	13	54	10	17
11	6.6	5.1	183	296	22	82	234	194	12	43	10	17
12	6.3	4.5	53	205	21	81	204	117	13	26	7.9	20
13	6.3	4.3	40	80	30	82	638	90	15	16	7.9	25
14	7.5	4.1	50	50	280	102	394	815	15	12	7.9	20
15	6.6	3.4	357	35	465	106	228	442	15	9.7	9.4	21
16	6.0	3.8	379	22	704	135	478	347	34	19	8.5	19
17	4.8	3.6	182	18	336	377	828	266	29	42	16	19
18	4.3	3.6	79	20	250	283	436	228	22	25	109	18
19	4.8	3.8	53	40	255	148	363	160	15	19	135	24
20	6.9	4.1	57	46	124	106	526	78	13	15	98	24
21	11	4.3	106	43	102	90	478	65	12	13	46	23
22	6.3	5.4	78	45	108	252	912	57	11	13	29	19
23	4.8	4.8	72	63	79	345	576	46	11	18	42	18
24	5.1	5.1	97	87	80	168	432	39	10	16	62	32
25	6.6	163	94	78	67	130	364	34	10	19	53	48
26	6.0	190	93	53	88	101	206	30	10	20	46	138
27	6.3	193	134	40	104	92	92	25	10	15	35	284
28	4.8	190	370	35	94	124	72	24	10	12	29	264
29	4.5	198	284	28	115	103	60	23	23	7.5	25	150
30	3.6	215	272	25	------	126	54	45	17	6.0	25	447
31	3.6	------	537	23	------	184	------	142	------	6.0	22	------
TOTAL	190.9	1,254.4	5,752	3,196	3,593	5,651	10,027	4,902	612	654.2	918.2	1,829
MEAN	6.16	41.8	186	103	124	182	334	158	20.4	21.1	29.6	61.0
MAX	11	215	537	322	704	569	912	815	83	56	135	447
MIN	3.6	3.4	10	18	21	81	54	23	10	6.0	7.9	16

CAL YR 1971 TOTAL 35,337.6 MEAN 96.8 MAX 1,420 MIN 3.4
WTR YR 1972 TOTAL 38,579.7 MEAN 105 MAX 912 MIN 3.4

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 mile downstream from unnamed right bank tributary, and 2.0 miles upstream from Lake Fork.

DRAINAGE AREA.--116 sq mi.

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

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

AVERAGE DISCHARGE.--12 years, 120 cfs (14.05 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,240 cfs Apr. 7 (gage height, 8.49 ft); minimum, 2.2 cfs Oct. 5, 6. Period of record: Maximum discharge, 6,750 cfs Jan. 29, 1970 (gage height, 12.72 ft); minimum observed, 0.6 cfs Aug. 13, Oct. 2, 1944.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.4	7.0	242	24	302	80	62	40	17	10	18
2	2.4	3.8	6.4	197	23	1,370	75	64	32	14	9.8	16
3	2.4	4.3	5.8	211	25	568	71	182	25	15	9.8	15
4	2.6	4.0	5.0	166	30	309	74	108	21	15	11	15
5	2.2	3.8	4.5	284	36	160	72	79	17	15	10	14
6	2.2	4.3	7.1	140	35	100	68	64	16	13	9.0	13
7	2.4	4.5	75	90	32	110	1,840	56	16	12	9.0	12
8	2.4	4.3	200	70	30	430	670	147	14	11	8.2	11
9	2.8	4.3	89	90	28	184	306	1,600	14	11	9.8	11
10	4.0	4.5	58	330	27	122	232	692	12	25	9.4	10
11	3.6	4.5	46	250	26	101	181	267	11	15	9.0	10
12	2.8	4.3	39	148	27	105	142	169	11	14	8.2	10
13	3.2	4.0	32	100	45	200	1,730	125	17	90	7.0	11
14	3.6	4.0	37	70	181	302	496	774	27	111	6.7	18
15	3.0	3.6	267	56	466	239	253	316	47	86	6.4	106
16	2.8	3.6	222	46	540	399	535	184	82	266	6.1	54
17	2.8	3.4	106	38	300	555	542	128	56	285	299	34
18	2.8	3.4	66	43	250	312	246	93	36	107	2,090	24
19	2.8	3.8	45	54	230	194	197	74	27	62	747	19
20	3.0	4.0	51	51	120	148	1,620	64	21	42	342	16
21	3.0	4.0	87	56	90	133	531	56	20	33	166	14
22	3.4	3.8	71	59	70	464	850	48	19	26	142	13
23	3.8	3.6	51	107	55	418	390	41	19	45	194	12
24	4.0	3.8	43	154	65	214	242	35	19	35	101	14
25	3.8	3.8	38	112	74	160	166	32	18	19	68	16
26	4.0	3.6	37	56	118	122	122	28	15	18	51	80
27	3.8	4.0	54	45	103	115	99	24	15	17	41	154
28	3.6	4.3	85	35	101	112	83	22	15	18	36	122
29	3.6	5.3	91	30	151	99	72	21	22	18	29	105
30	3.6	6.7	671	27	------	108	66	30	23	14	24	1,800
31	3.4	------	697	25	------	89	------	45	------	12	20	------
TOTAL	96.4	122.7	3,293.8	3,382	3,302	8,244	12,051	5,630	727	1,481	4,489.4	2,767
MEAN	3.11	4.09	106	109	114	266	402	182	24.2	47.8	145	92.2
MAX	4.0	6.7	697	330	540	1,370	1,840	1,600	82	285	2,090	1,800
MIN	2.2	3.4	4.5	25	23	89	66	21	11	11	6.1	10
CFSM	.03	.04	.91	.94	.98	2.29	3.47	1.57	.21	.41	1.25	.79
IN.	.03	.04	1.06	1.08	1.06	2.64	3.86	1.81	.23	.47	1.44	.89

CAL YR 1971 TOTAL 30,331.4 MEAN 83.1 MAX 1,760 MIN 1.9 CFSM .72 IN 9.73
WTR YR 1972 TOTAL 45,586.3 MEAN 125 MAX 2,090 MIN 2.2 CFSM 1.08 IN 14.62

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	1500	8.49	3,240	8-18	1000	7.60	2,540
4-13	1100	7.98	2,830	9-30	1500	8.32	3,110

03146500 Licking River near Newark, Ohio

LOCATION.--Lat 40°03'33", long 83°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 mile downstream from Shawnee Run, 1.5 miles upstream from Equality Run, and 3.5 miles east of Newark.

DRAINAGE AREA.--537 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 779.02 ft above mean sea level. Prior to May 9, 1940, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 545 cfs.

EXTREMES.--Current year: Maximum discharge, 6,660 cfs Apr. 13 (gage height, 10.05 ft); minimum, 47 cfs Nov. 17. Period of record: Maximum discharge, 45,000 cfs Jan. 21, 1959 (gage height, 20.3 ft, from high-water mark), from rating curve extended above 24,000 cfs on basis of flood-routing studies from station at Toboso; minimum, 15 cfs Jan. 12, 1954, result of freezeup.

REMARKS.--Records good. Occasional regulation by Buckeye Lake (capacity, 27,300 acre-ft) on South Fork 15.2 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	53	232	1,130	140	768	528	390	439	195	106	115
2	62	59	212	822	140	2,710	474	369	343	159	102	108
3	59	54	195	875	150	2,640	444	473	283	167	100	107
4	59	54	90	828	150	1,510	444	489	244	192	98	105
5	59	54	61	1,010	180	1,040	432	375	220	182	94	102
6	60	55	133	816	170	726	387	313	208	152	93	98
7	60	57	545	540	160	654	3,180	273	202	137	123	95
8	60	55	911	420	150	1,290	3,230	372	189	134	95	92
9	67	54	588	462	140	980	1,560	3,130	181	151	117	90
10	65	55	439	1,200	140	666	1,210	2,910	171	267	96	87
11	62	53	358	1,100	144	552	1,020	1,300	163	273	91	85
12	60	54	177	588	147	528	828	894	159	179	88	89
13	60	52	135	280	310	618	4,890	779	186	155	86	89
14	66	51	182	215	732	868	2,620	2,910	189	308	85	91
15	60	53	782	122	1,300	861	1,450	2,060	221	230	84	114
16	60	53	973	131	1,940	1,110	1,870	1,440	347	499	82	130
17	59	52	554	137	1,330	1,850	2,790	1,090	300	665	630	108
18	60	52	300	137	1,140	1,430	1,520	878	219	383	3,150	97
19	57	57	207	251	1,100	924	1,190	746	183	255	1,790	90
20	58	52	209	260	696	708	3,070	584	170	202	1,040	87
21	57	55	290	275	588	630	2,310	511	163	170	580	85
22	60	52	283	280	618	1,210	2,970	450	161	150	377	88
23	58	51	209	387	522	1,700	2,100	394	160	148	426	83
24	58	51	210	534	468	1,000	1,470	352	154	171	371	153
25	58	125	205	504	409	774	1,160	310	146	167	308	133
26	58	180	201	270	492	648	951	281	147	138	262	498
27	58	196	221	210	540	612	670	266	143	144	220	1,130
28	56	188	457	190	492	684	553	252	137	131	180	1,290
29	55	232	582	170	582	618	484	275	210	127	156	811
30	56	234	1,410	160	------	654	424	370	245	114	136	2,520
31	53	------	3,060	150	------	636	------	574	------	108	122	------
TOTAL	1,848	2,443	14,411	14,454	15,110	31,599	46,229	25,810	6,283	6,453	11,288	8,770
MEAN	59.6	81.4	465	466	521	1,019	1,541	833	209	208	364	292
MAX	68	234	3,060	1,200	1,940	2,710	4,890	3,130	439	665	3,150	2,520
MIN	53	51	61	122	140	528	387	252	137	108	82	83

CAL YR 1971 TOTAL 145,910 MEAN 400 MAX 4,790 MIN 51
WTR YR 1972 TOTAL 184,698 MEAN 505 MAX 4,890 MIN 51

PEAK DISCHARGE (BASE, 6,500 CFS).--Apr. 13 (1730) 6,660 cfs (10.05 ft).

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 downstream from Dillon Dam, 2.0 miles northwest of Dillon Falls, and 5.8 miles upstream from mouth.

DRAINAGE AREA.--742 sq mi.

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 above mean sea level (Corps of Engineers bench mark). Prior to Oct. 27, 1940, water-stage recorder at site 2.3 miles downstream at different datum. Oct. 27, 1940, to Sept. 30, 1962, water-stage recorder at site 2.6 miles downstream at datum 16.3 ft lower.

AVERAGE DISCHARGE.--33 years, 757 cfs.

EXTREMES.--Current year: Maximum discharge, 4,700 cfs Apr. 28 (gage height, 9.63 ft); minimum, 49 cfs Nov. 6. Period of record: Maximum discharge, 47,000 cfs Jan. 22, 1959 (gage height, 32.46 ft, datum then in use), from rating curve extended above 30,000 cfs on basis of slope-area measurement of peak flow; minimum daily, 19 cfs Dec. 22, 1960.
Flood of March 1913 reached a stage of 37.0 ft, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	72	280	2,070	219	719	323	665	600	322	119	137
2	88	71	296	2,010	234	1,310	581	624	378	198	119	137
3	76	75	263	1,770	259	2,200	633	616	245	172	116	170
4	77	90	251	1,330	326	2,700	628	677	276	172	116	159
5	77	70	169	1,080	273	2,730	556	667	266	266	116	132
6	55	67	222	1,090	167	2,360	537	523	235	204	101	114
7	54	101	468	685	245	1,210	1,170	459	216	142	69	114
8	56	80	954	446	279	1,120	2,700	462	210	142	111	114
9	55	67	839	497	214	1,570	3,450	1,860	186	142	145	111
10	53	66	509	1,030	212	1,010	3,350	3,810	164	259	137	114
11	77	66	490	1,470	211	699	3,110	3,530	153	437	116	106
12	91	66	355	1,060	210	664	1,750	1,650	153	276	119	92
13	77	70	162	687	424	735	1,210	826	210	195	116	92
14	76	74	234	595	595	836	1,570	1,570	225	222	109	111
15	76	240	421	437	1,060	1,000	1,480	3,190	225	283	92	121
16	76	252	1,020	173	1,740	1,000	1,020	3,270	310	374	92	121
17	76	213	1,040	186	2,380	1,030	1,480	2,030	362	625	97	121
18	79	201	503	327	2,330	1,060	2,900	1,110	280	625	2,230	140
19	78	268	351	364	1,780	1,070	3,430	898	207	276	3,310	148
20	76	274	310	366	1,150	1,060	3,490	826	186	259	1,600	119
21	75	242	286	366	721	1,070	3,550	568	184	248	720	89
22	76	239	359	385	712	1,090	1,550	496	186	195	514	89
23	76	201	377	448	713	1,100	1,160	482	186	170	518	89
24	100	189	280	504	651	1,190	3,060	428	189	170	554	192
25	108	187	261	689	546	1,380	4,320	386	172	170	455	276
26	82	241	271	505	466	1,530	4,370	283	140	189	273	164
27	69	393	330	331	673	1,590	4,430	229	140	232	255	615
28	68	466	399	291	669	1,560	4,570	314	140	198	255	1,520
29	78	483	574	279	668	1,530	4,060	318	145	142	216	1,170
30	79	363	670	235	------	826	2,250	378	330	134	175	988
31	72	------	1,460	253	------	143	------	615	------	119	140	------
TOTAL	2,351	5,487	14,404	21,959	20,127	39,092	68,688	33,760	6,899	7,558	13,105	7,665
MEAN	75.8	183	465	708	694	1,261	2,290	1,089	230	244	423	256
MAX	108	483	1,460	2,070	2,380	2,730	4,570	3,810	600	625	3,310	1,520
MIN	53	66	162	173	167	143	323	229	140	119	69	89

CAL YR 1971 TOTAL 217,603 MEAN 596 MAX 4,120 MIN 53
WTR YR 1972 TOTAL 241,095 MEAN 659 MAX 4,570 MIN 53

03150000 Muskingum River at McConnelsville, 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 McConnelsville, and 3.5 miles downstream from Oilspring Run.

DRAINAGE AREA.--7,422 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 650.31 ft above mean sea level, adjustment of 1912. Prior to July 27, 1922, nonrecording gage at site 0.5 mile 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 mile upstream at same datum.

AVERAGE DISCHARGE.--51 years, 7,132 cfs.

EXTREMES.--Current year: Maximum discharge, 33,100 cfs Apr. 22 (gage height 9.58 ft); minimum, 856 cfs Oct. 22 (gage height, 1.36 ft).
Period of record: Maximum discharge, 126,000 cfs Jan. 26, 1937 (gage height, 21.14 ft); minimum, 218 cfs Aug. 25, 1930 (gage height, -0.65 ft) from rating curve extended below 470 cfs.
Flood of Mar. 27, 1913 reached a stage of 33.5 ft (discharge, 270,000 cfs, computed by Corps of Engineers).

REMARKS.--Records good. Flow regulated by 16 flood-control reservoirs 36.6 to 148 miles upstream from station (see pp. 78-82). Some regulation at low flow by powerplant 19 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,200	1,010	2,640	13,200	3,700	7,870	8,080	15,000	4,520	4,810	2,540	2,660
2	1,180	1,030	2,920	12,800	3,620	10,600	7,800	14,600	4,690	4,780	2,460	2,420
3	1,140	1,030	2,940	11,600	3,720	18,000	7,480	13,600	4,410	4,380	2,380	2,420
4	1,170	988	2,940	9,890	3,860	19,900	7,450	12,200	4,100	4,380	2,460	2,620
5	1,130	1,010	2,750	9,810	3,580	19,700	7,140	11,700	3,750	6,420	2,220	2,340
6	1,060	999	3,100	9,740	3,280	17,300	6,710	9,920	3,420	6,260	2,100	2,180
7	966	1,010	5,130	9,140	3,200	14,100	10,300	8,800	3,150	5,440	2,020	2,070
8	900	1,030	6,480	7,840	3,550	12,800	18,400	8,010	2,980	4,930	1,910	1,950
9	889	1,060	8,440	6,870	3,180	14,200	20,700	8,690	2,820	4,440	2,000	1,860
10	966	1,070	8,160	6,810	2,940	14,400	18,600	14,700	2,730	4,440	2,040	1,720
11	1,030	1,030	7,320	8,180	2,840	13,000	16,600	17,800	2,540	4,960	1,960	1,640
12	1,230	1,020	6,120	8,500	3,220	11,400	14,300	16,400	2,420	5,500	1,900	1,590
13	1,220	1,010	4,950	8,010	4,080	11,200	19,800	12,000	2,360	4,990	2,090	1,520
14	1,230	999	4,300	7,100	6,840	14,300	23,200	12,200	3,100	5,290	1,880	1,600
15	1,130	1,090	4,770	6,320	9,850	17,800	23,900	13,600	4,540	5,140	1,770	2,680
16	1,070	1,320	7,320	5,050	13,500	19,700	24,600	15,200	4,320	4,630	1,670	6,450
17	1,070	1,250	9,040	3,500	15,200	22,000	24,400	13,300	5,020	7,480	1,880	6,260
18	1,080	1,340	7,880	3,680	15,100	22,900	24,000	10,900	4,960	11,500	4,480	5,410
19	1,130	1,620	6,360	4,960	13,500	22,900	24,500	9,400	4,080	13,000	10,800	4,520
20	1,050	1,910	5,370	5,140	11,500	21,500	24,400	8,610	3,480	12,500	8,080	4,270
21	944	1,960	4,680	4,660	9,210	19,200	25,600	7,700	3,180	11,400	6,450	4,130
22	900	2,050	4,320	4,570	8,040	17,900	30,100	6,870	2,910	8,880	5,290	3,580
23	1,060	2,000	4,150	4,840	7,760	18,200	24,400	6,320	2,940	6,640	4,720	3,020
24	1,010	1,980	3,750	5,380	8,120	18,700	25,400	5,860	3,020	5,470	5,200	2,760
25	1,070	1,960	3,310	6,290	7,590	18,300	27,800	5,380	3,250	4,870	4,840	2,870
26	1,130	1,960	3,100	6,450	7,310	16,700	28,200	4,900	3,520	4,440	4,160	2,730
27	1,070	2,100	3,050	5,930	7,480	15,000	26,700	4,320	3,650	4,220	3,910	3,100
28	1,030	2,360	3,120	5,440	7,870	13,100	24,400	4,100	4,080	3,750	4,600	5,320
29	1,010	2,500	3,310	5,020	7,800	11,400	21,400	3,880	3,680	3,320	4,410	6,740
30	1,010	2,810	3,980	4,460	------	11,300	18,100	3,860	3,800	3,000	3,650	7,240
31	988	------	7,500	4,000	------	8,880	------	3,970	------	2,760	3,020	------
TOTAL	33,063	44,506	153,200	215,180	201,440	494,250	584,460	303,790	107,420	184,020	108,890	99,670
MEAN	1,067	1,484	4,942	6,941	6,946	15,940	19,480	9,800	3,581	5,936	3,513	3,322
MAX	1,230	2,810	9,040	13,200	15,200	22,900	30,100	17,800	5,020	13,000	10,800	7,240
MIN	889	988	2,640	3,500	2,840	7,870	6,710	3,860	2,360	2,760	1,670	1,520

CAL YR 1971 TOTAL 2,080,491 MEAN 5,700 MAX 32,000 MIN 801
WTR YR 1972 TOTAL 2,529,889 MEAN 6,912 MAX 30,100 MIN 889

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 downstream from County Road bridge at Mill Grove, 0.4 mile downstream from Perry Run, 0.5 mile upstream from Onion Run, 2.2 miles upstream from mouth, and 5.3 miles northwest of Beverly.

DRAINAGE AREA.--136 sq mi.

PERIOD OF RECORD.--Mar. 1, 1972 to Sept. 30, 1972.

GAGE.--Water-stage recorder. Datum of gage is 614.19 ft above mean sea level.

EXTREMES.--Maximum discharge during period, 2,410 cfs Apr. 13 (gage height, 14.13 ft); maximum gage height, 14.85 ft Apr. 22 (backwater from Muskingum River); minimum discharge, 7.6 cfs Aug. 17.

REMARKS.--Records good except for periods of backwater from Muskingum River, which are poor.

Discharge measurements made prior to beginning of continuous discharge record

Date	Discharge (cfs)
Sept. 21, 1971.....	19.8
Nov. 29, 1971.....	40.3

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						160	123	140	55	57	9.0	9.0
2						330	130	140	49	42	8.5	8.3
3						639	117	150	45	40	80	58
4						558	195	140	38	48	54	85
5						528	182	120	35	48	20	37
6						382	150	110	33	49	14	23
7						308	632	100	35	42	14	16
8						360	654	110	30	43	13	12
9						255	500	150	27	48	10	11
10						220	300	200	26	42	9.0	10
11						180	240	170	24	41	8.6	9.6
12						160	220	140	23	31	9.0	9.2
13						150	1,750	110	24	24	9.6	9.8
14						140	900	100	67	25	8.8	10
15						140	500	94	64	75	8.5	9.4
16						300	460	130	74	172	8.1	9.4
17						500	520	110	59	105	17	9.6
18						340	320	100	42	65	248	9.2
19						210	260	94	33	54	282	17
20						170	230	110	28	42	126	13
21						160	220	96	42	30	68	11
22						300	1,100	88	43	23	44	9.0
23						440	800	83	45	34	34	8.8
24						340	520	74	63	30	28	11
25						240	420	67	58	24	25	16
26						180	360	59	48	19	22	16
27						150	260	54	41	16	25	24
28						140	200	49	33	13	16	54
29						160	160	46	63	12	12	57
30					------	158	150	48	75	12	9.8	126
31		------			------	132	------	58	------	10	10	------
TOTAL						8,430	12,573	3,240	1,322	1,316	1,250.9	708.3
MEAN						272	419	105	44.1	42.5	40.4	23.6
MAX						639	1,750	200	75	172	282	126
MIN						132	117	46	23	10	8.1	8.3

Note:--Stage discharge relation affected by backwater from Muskingum River Mar. 10-28, Apr. 9-12, Apr. 14 to May 22.

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 miles east of Bolivar. Drainage area, 504 sq mi. 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 above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 12,770 acre-ft Mar. 18, 19 (elevation, 920.80 ft); minimum, 87 acre-ft several days in November (elevation, 896.70 ft). Extremes for period of record: Maximum contents, 63,320 acre-ft Jan. 26, 1959 (elevation, 944.01 ft); minimum, 62 acre-ft Oct. 9, 1933 (elevation, 896.30 ft).

Reservoir is formed by earthfill dam completed Nov. 15, 1937. Usable capacity 149,500 acre-ft between elevations 895.0 ft (lowest outlet) and 962.0 ft (crest of spillway). Dead storage below elevation 895.0 ft, 113 acre-ft. 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 (formerly published as Leesville Reservoir).--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 miles northeast of Leesville. Drainage area, 48.3 sq mi. 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 928.0 ft above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 20,570 acre-ft Mar. 20 (elevation, 964.38 ft); minimum, 13,680 acre-ft Dec. 18 (elevation, 957.01 ft). Extremes for period of record: Maximum contents, 26,430 acre-ft Apr. 17, 1948 (elevation, 969.59 ft); minimum, 41 acre-ft Oct. 9-25, 1939 (elevation, 928.38 ft), 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 between elevations 928.0 ft (lowest outlet) and 977.5 ft (crest of spillway), of which 19,170 acre-ft is in the conservation pool. Dead storage below elevation 928.0 ft, 329 acre-ft. 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 (formerly published as Atwood Reservoir).--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 miles southeast of New Cumberland. Drainage area, 69.9 sq mi. 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 890.0 ft above mean sea leval; 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, 26,850 acre-ft Mar. 20 (elevation, 930.03 ft); minimum, 15,690 acre-ft Jan. 17 (elevation, 922.25 ft). Extremes for period of record: Maximum contents, 35,210 acre-ft Feb. 8, 1952 (elevation, 934.51 ft); minimum, 2.2 acre-ft Jan. 8, 9, 1940 (elevation, 890.36 ft).

Lake is formed by earthfill dam completed Sept. 23, 1937. Usable capacity 49,690 acre-ft between elevations 890.0 ft (lowest outlet) and 941.0 ft (crest of spillway), of which 23,590 acre-ft in the conservation pool. Dead storage below elevation 890.0 ft, 8 acre-ft. 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 (formerly published as Dover Reservoir).--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 miles northeast of Dover. Drainage area, 1,404 sq mi. 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 858.0 ft 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, 9,100 acre-ft Mar. 17 (elevation, 882.65 ft); no contents several days in Oct., Nov., July, Aug., and Sept. Extremes for period of record: Maximum contents, 109,000 acre-ft July 12, 1969 (elevation, 905.00 ft); no contents several days during most years.

Lake is formed by concrete dam completed Nov. 29, 1937. Usable capacity 203,000 acre-ft between elevations 862.0 ft (lowest outlet) and 916.0 ft (crest of spillway), of which 1,000 acre-ft 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 (formerly published as Beach City Reservoir).--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 miles southeast of Beach City. Drainage area, 300 sq mi. 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 931.0 ft 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, 6,500 acre-ft Apr. 22 (elevation, 954.74 ft); minimum, 1,830 acre-ft Oct. 7, 8 (elevation, 948.29 ft). Extremes for period of record: Maximum contents, 70,120 acre-ft July 6, 1969 (elevation, 976.25 ft); minimum, 1.1 acre-ft several days in September and October 1939 (elevation, 931.60 ft).

Lake is formed by earthfill dam completed Aug. 13, 1937. Usable capacity 71,650 acre-ft between elevations 931.0 ft (lowest outlet) and 976.5 ft (crest of spillway), of which 1,700 acre-ft 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.

03125500 PIEDMONT LAKE (formerly published as Piedmont Reservoir).--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 mile west of Piedmont. Drainage area, 85.9 sq mi. 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 881.75 ft above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 38,950 acre-ft Apr. 24 (elevation, 915.32 ft); minimum, 24,930 acre-ft Dec. 21 (elevation, 908.95 ft). Extremes for period of record: Maximum contents, 46,650 acre-ft June 11, 12, 1947 (elevation, 918.33 ft); minimum, 26 acre-ft Sept. 18-25, 1939 (elevation, 882.25 ft).

Lake is formed by earthfill dam completed May 22, 1937. Usable capacity 64,990 acre-ft between elevations 881.75 (lowest outlet) and 924.6 ft (crest of spillway), of which 33,500 acre-ft is in the conservation pool. Dead storage below elevation 881.75 ft, 71 acre-ft. 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 (formerly published as Clendending Reservoir).--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 mile east of Tippecanoe. Drainage area, 69.3 sq mi. 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 862.00 ft 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, 30,500 acre-ft Apr. 26 (elevation, 900.12 ft); minimum, 18,160 acre-ft Jan. 17 (elevation, 892.78 ft). Extremes for period of record: Maximum contents, 38,060 acre-ft Feb. 7, 1952 (elevation, 903.85 ft); minimum, 5.9 acre-ft Nov. 4, 1938 (elevation, 862.33 ft).

Lake is formed by earthfill dam completed Nov. 1, 1937. Usable capacity 53,970 acre-ft between elevations 862.0 ft (lowest outlet) and 910.5 ft (crest of spillway), of which 26,470 acre-ft is in the conservation pool. Dead storage below elevation 862.0 ft, 27 acre-ft. 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.

Reservoirs in Muskingum River basin--Continued

03128000 TAPPAN LAKE (formerly published as Tappan Reservoir).--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 mile west of Tappan. Drainage area, 71.1 sq mi. 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 870.0 ft above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 55,960 acre-ft Mar. 20 (elevation, 907.17 ft); minimum, 25,450 acre-ft Dec. 23 (elevation, 894.90 ft). Extremes for period of record: Maximum contents, 48,440 acre-ft Feb. 5, 6, 1952 (elevation, 904.53 ft); no contents Sept. 29, 1939.

Lake is formed by earthfill dam completed Oct. 24, 1936. Usable capacity 61,500 acre-ft between elevations 870.0 ft (lowest outlet) and 909.0 ft (crest of spillway), of which 35,070 acre-ft is in conservation pool. Dead storage below elevation 870.0 ft, 46 acre-ft. 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 (formerly published as Charles Mill Reservoir).--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 miles south of Mifflin. Drainage area, 215 sq mi. 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 987.0 ft above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 28,180 acre-ft Apr. 24 (elevation, 1,006.90 ft); minimum, 2,540 acre-ft several days in February (elevation, 992.94 ft). Extremes for period of record: Maximum contents, 53,480 acre-ft Jan. 25, 1959 (elevation, 1,013.53 ft); minimum, 733 acre-ft Dec. 24, 1965 (elevation, 989.89 ft).

Lake is formed by earthfill dam completed Aug. 17, 1936. Usable capacity 87,690 acre-ft between elevations 987.0 ft (lowest outlet) and 1,020.0 ft (crest of spillway) of which 7,090 acre-ft is in the conservation pool. Dead storage below elevation 987.0 ft, 310 acre-ft. 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 (formerly published as Pleasant Hill Reservoir).--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 miles south of Perrysville. Drainage area, 197 sq mi. 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 971.75 ft above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 23,790 acre-ft Apr. 23 (elevation, 1,030.17 ft); minimum, 7,920 acre ft Jan. 6 (elevation, 1,012.32 ft). Extremes for period of record: Maximum contents, 43,530 acre-ft Jan. 23, 1959 (elevation, 1,044.01 ft); minimum, 74 acre-ft May 8, 1938 (elevation, 976.63 ft).

Lake is formed by earthfill dam completed Feb. 1, 1938. Usable capacity 87,640 acre-ft between elevations 971.75 ft (lowest outlet) and 1,065.0 ft (crest of spillway), of which 13,510 acre-ft is in the conservation pool. Dead storage below elevation 971.75 ft, 12 acre-ft. 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.

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 miles east of Mohicanville. Drainage area, 271 sq mi. 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 above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 13,890 acre-ft Apr. 23 (elevation, 948.22 ft); minimum, 30 acre-ft several days in October (elevation, 933.10 ft). Extremes for period of record: Maximum contents, 96,330 acre-ft July 7, 1969 (elevation, 962.35 ft); minimum, 9.9 acre-ft several days in 1941, 1944, 1945; minimum elevation, 932.38 ft several days in August, September October, 1941.

Reservoir is formed by earthfill dam completed Dec. 24, 1936. Usable capacity 102,000 acre-ft between elevations 932.0 ft (lowest outlet) and 963.0 ft (crest of spillway). Dead storage below elevation 932.0 ft, 18 acre-ft. 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.

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 miles northwest of Nellie. Drainage area, 1,504 sq mi. 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 above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 40,710 acre-ft Apr. 24 (elevation, 842.44 ft); minimum, 65 acre-ft Nov. 18 (elevation, 800.81 ft). Extremes for period of record: Maximum contents, 176,000 acre-ft Jan. 25, 1959 (elevation, 873,94 ft); minimum, 44 acre-ft Sept. 21, Oct. 4, 1955; minimum elevation, 800.35 ft 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 between elevations 799.2 ft (lowest outlet) and 890.0 ft (crest of spillway). Dead storage below elevation 799.2 ft, 59 acre-ft. 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 (formerly published as Senecaville Reservoir).--Lat 39°55'31", long 81°26'06", Guernsey County, in gate house of dam on Seneca Fork, 1.5 miles southeast of Senecaville. Drainage area, 118 sq mi. 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 812.05 ft 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, 51,110 acre-ft Apr. 25 (elevation, 834.79 ft); minimum, 28,080 acre-ft several days in December (elevation, 828.06 ft). Extremes for period of record: Maximum contents, 61,430 acre-ft Mar. 24, 1945 (elevation, 837.27 ft); minimum, 360 acre-ft Oct. 22, 23, 1939 (elevation, 812.53 ft).

Lake is formed by earthfill dam completed May 14, 1937. Usable capacity 86,340 acre-ft between elevations 812.05 ft (lowest outlet) and 842.5 ft (top of taintor gates), of which 41,300 acre-ft is in conservation pool. Usable capacity at elevation, 831.0 ft (crest of spillway), 37,180 acre-ft. Dead storage below elevation 812.05 ft 1,950 acre-ft. Figures given herein represent usable contents. Taintor gates normally remain closed to maintain conservation pool at elevation 832.2 ft 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 mile upstream from mouth, and 5.0 miles north of Cambridge. Drainage area, 159 sq mi. Period of record, September 1968 to current year. Water-stage recorder. Datum of gage is 700.00 ft above mean sea level; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 53,220 acre-ft Apr. 23 (elevation, 803.45 ft); minimum, 42,070 acre-ft Nov. 9, 10 (elevation, 800.04 ft). Extremes for period of record: Maximum contents, 55,470 acre-ft Apr. 25, 1970 (elevation, 804.09 ft); minimum, 12,200 acre-ft Oct. 17, 1968 (elevation, 786.53 ft).

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 between elevations 772.5 ft (invert of lowest outlet) and 800.0 ft (crest of morning-glory spillway). Dead storage below elevation 772.5 ft, 1,250 acre-ft. Additional flood-retention capacity, 28,600 acre-ft between elevations 800.0 ft and 808.0 ft (crest of emergency spillway). Figures given herein represent usable contents. There are no gates on spillwasy 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 of Natural Resources.

Reservoirs in Muskingum River basin--Continued

03143000 WILLS CREEK LAKE (formerly published as Wills Creek Reservoir).--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 miles south of village of Wills Creek. Drainage area, 842 sq mi. 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 733.0 ft above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 23,100 acre-ft Apr. 24 (elevation, 752.60 ft); minimum, 3,860 acre-ft Nov. 6 (elevation, 741.33 ft). Extremes for period of record: Maximum contents, 169,700 acre-ft Mar. 15, 1964 (elevation, 776.73 ft); minimum, 300 acre-ft Oct. 22, 23, 1939 (elevation, 734.10 ft).

Lake is formed by earthfill dam completed Oct. 13, 1937. Usable capacity, 194,400 acre-ft between elevations 733.0 ft (lowest outlet) and 779.0 ft (crest of spillway), of which 4,420 acre-ft is in conservation pool. Dead storage below elevation 733.0 ft, 1,580 acre-ft. 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 Coprs of Engineers.

03147300 DILLON LAKE (formerly published as Dillon Reservoir).--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 miles northwest of Dillon Falls, and 5.8 miles upstream from mouth. Drainage area, 742 sq mi. Period of record, January 1961 to current year. Water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 52,420 acre-ft Apr. 24 (elevation 751.59 ft); minimum, 12,930 acre-ft Dec. 5, 6 (elevation 733.85 ft). Extremes for period of record: Maximum contents, 142,600 acre-ft Mar. 13, 1964 (elevation, 772.88 ft); minimum observed, 208 acre-ft Mar. 31, 1961 (elevation, 710.94 ft).

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 between elevations 704.0 ft (lowest outlet) and 790.0 ft (crest of spillway) of which 13,170 acre-ft is in conservation pool. Dead storage below elevation 704.0 ft, 30 acre ft. 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. Gage-height chart and capacity curve furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	896.90	99	-	962.45	18,620	-
Oct. 31	896.80	93	-6	962.36	18,530	-90
Nov. 30	897.20	121	+28	960.54	16,810	-1,720
Dec. 31	904.20	1,300	+1,179	957.52	14,110	-2,700
CAL YR 1971	-	-	+1,031	-	-	+280
Jan. 31	898.00	186	-1,114	957.23	13,870	-240
Feb. 29	901.86	741	+555	960.30	16,590	+2,720
Mar. 31	899.35	336	-405	962.92	19,090	+2,500
Apr. 30	899.15	310	-26	962.88	19,050	-40
May 31	899.36	337	+27	962.74	18,910	-140
June 30	898.60	249	-88	962.77	18,940	+30
July 31	897.80	170	-79	962.60	18,770	-170
Aug. 31	897.70	162	-8	962.60	18,770	0
Sept. 30	898.70	260	+98	962.66	18,830	+60
WTR YR 1972	-	-	+161	-	-	+210

	03121000 Atwood Lake			03122000 Dover Lake		
Sept. 30	927.53	22,890	-	864.91	0	-
Oct. 31	927.40	22,690	-200	864.80	0	0
Nov. 30	927.45	22,770	+80	866.04	5.9	+5.9
Dec. 31	923.04	16,640	-6,130	871.18	327	+321.1
CAL YR 1971	-	-	+700	-	-	+262
Jan. 31	922.45	15,930	-710	866.41	14	-313
Feb. 29	925.36	19,700	+3,770	869.11	118	+104
Mar. 31	928.17	23,860	+4,160	868.30	78	-40
Apr. 30	928.09	23,740	-120	868.30	78	0
May 31	927.77	23,250	-490	866.39	14	-64
June 30	927.79	23,280	+30	867.80	57	+43
July 31	927.66	23,080	-200	865.40	2.0	-55
Aug. 31	927.74	23,200	+120	865.11	0.6	-1.4
Sept. 30	927.83	23,340	+140	871.01	299	+298.4
WTR YR 1972	-	-	+450	-	-	+299

Reservoirs in Muskingum River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	948.38	1,870	-	912.79	33,040	-
Oct. 31	948.31	1,840	-30	912.60	32,610	-430
Nov. 30	948.65	2,000	+160	910.83	28,730	-3,880
Dec. 31	949.92	2,660	+660	909.54	26,110	-2,620
CAL YR 1971	-	-	+430	-	-	+780
Jan. 31	948.83	2,080	-580	909.06	25,150	-960
Feb. 29	949.96	2,680	+600	910.87	28,810	+3,660
Mar. 31	949.48	2,420	-260	912.47	32,320	+3,510
Apr. 30	949.45	2,400	-20	914.51	37,000	+4,680
May 31	949.07	2,200	-200	912.74	32,930	-4,070
June 30	949.28	2,310	+110	912.85	33,170	+240
July 31	949.78	2,060	-250	912.56	32,530	-640
Aug. 31	948.88	2,100	+40	912.65	32,730	+200
Sept. 30	950.18	2,810	+710	912.85	33,170	+440
WTR YR 1972	-	-	+940	-	-	+130

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03126500 Clendening Lake			03128000 Tappan Lake		
Sept. 30	897.67	25,910	-	898.88	34,080	-
Oct. 31	897.56	25,720	-190	898.80	33,890	-190
Nov. 30	895.00	21,470	-4,250	896.90	29,640	-4,250
Dec. 31	893.40	19,030	-2,440	895.49	26,680	-2,960
CAL YR 1971	-	-	+730	-	-	+1,210
Jan. 31	892.92	18,360	-670	895.11	25,880	-800
Feb. 29	895.00	21,470	+3,110	897.41	30,760	+4,880
Mar. 31	897.18	25,080	+3,610	898.59	33,410	+2,650
Apr. 30	898.46	27,350	+2,270	899.26	34,980	+1,570
May 31	897.76	26,060	-1,290	899.15	34,710	-270
June 30	898.00	26,470	+410	899.31	35,100	+390
July 31	897.62	25,830	-640	899.03	34,430	-670
Aug. 31	897.71	25,980	+150	899.12	34,640	+210
Sept. 30	897.65	25,880	-100	899.04	34,450	-190
WTR YR 1972	-	-	-30	-	-	+370

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03129500 Charles Mill Lake			03133000 Pleasant Hill Lake		
Sept. 30	996.85	6,890	-	1,018.84	12,560	-
Oct. 31	996.80	6,830	-60	1,015.72	10,170	-2,390
Nov. 30	996.87	6,920	+90	1,013.05	8,380	-1,790
Dec. 31	993.10	2,670	-4,250	1,014.48	9,330	+950
CAL YR 1971	-	-	-4,170	-	-	+1,310
Jan. 31	993.88	3,390	+720	1,012.65	8,130	-1,200
Feb. 29	997.26	7,450	+4,060	1,014.80	9,540	+1,410
Mar. 31	997.48	7,760	+310	1,019.78	13,330	+3,790
Apr. 30	1,003.14	17,840	+10,080	1,020.64	14,090	+760
May 31	997.12	7,260	-10,580	1,019.82	13,360	-730
June 30	997.52	7,820	+560	1,019.96	13,480	+120
July 31	997.15	7,300	-520	1,019.67	13,240	-240
Aug. 31	997.40	7,650	+350	1,019.64	13,220	-20
Sept. 30	999.48	10,760	+3,110	1,021.23	14,620	+1,400
WTR YR 1972	-	-	+3,870	-	-	+2,060

Reservoirs in Muskingum River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03134500 Mohicanville Reservoir			03138000 Mohawk Reservoir		
Sept. 30	933.50	46	-	801.86	121	-
Oct. 31	933.20	34	-12	801.34	92	-29
Nov. 30	933.51	46	+12	801.58	105	+13
Dec. 31	937.72	331	+285	812.20	1,550	+1,445
CAL YR 1971	-	-	+266	-	-	+1,290
Jan. 31	933.49	45	-286	803.70	254	-1,296
Feb. 29	936.09	195	+150	805.88	466	+212
Mar. 31	934.50	92	-103	805.61	438	-28
Apr. 30	935.88	180	+88	831.66	18,080	+17,642
May 31	933.80	57	-123	803.78	261	-17,819
June 30	935.41	148	+91	804.53	329	+68
July 31	935.15	130	-18	803.72	256	-73
Aug. 31	933.48	45	-85	802.58	168	-88
Sept. 30	944.80	5,320	+5,275	821.60	6,340	+6,172
WTR YR 1972	-	-	+5,274	-	-	+6,219

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03141000 Senecaville Lake			03142290 Salt Fork Reservoir		
Sept. 30	832.07	40,830	-	800.25	42,720	-
Oct. 31	831.93	40,340	-490	800.09	42,230	-490
Nov. 30	829.43	32,130	-8,210	800.30	42,880	+650
Dec. 31	828.45	29,210	-2,920	801.24	45,820	+3,060
CAL YR 1971	-	-	+140	-	-	+11,570
Jan. 31	828.18	28,430	-780	801.18	45,630	-190
Feb. 29	830.29	34,850	+6,420	801.57	46,870	+1,240
Mar. 31	831.95	40,410	+5,560	801.50	46,650	-220
Apr. 30	833.68	46,750	+6,340	802.08	48,520	+1,870
May 31	832.15	41,120	-5,630	800.75	44,280	-4,240
June 30	832.36	41,870	+750	800.65	43,960	-320
July 31	832.22	41,370	-500	800.22	42,630	-1,330
Aug. 31	832.16	41,150	-220	800.47	43,410	+780
Sept. 30	832.29	41,620	+470	800.45	43,340	-70
WTR YR 1972	-	-	+790	-	-	+620

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03143000 Wills Creek Lake			03147300 Dillon Lake		
Sept. 30	741.48	3,980	-	737.07	17,570	-
Oct. 31	741.42	3,930	-50	737.03	17,510	-60
Nov. 30	742.69	5,100	+1,170	734.03	13,160	-4,350
Dec. 31	743.29	5,740	+640	737.71	18,600	+5,440
CAL YR 1971	-	-	-1,090	-	-	+5,510
Jan. 31	743.18	5,610	-130	734.06	13,200	-5,400
Feb. 29	743.87	6,410	+800	734.05	13,190	-10
Mar. 31	743.72	6,240	-170	736.70	17,000	+3,810
Apr. 30	744.83	7,660	+1,420	737.10	17,620	+620
May 31	742.37	4,780	-2,880	737.17	17,730	+110
June 30	742.50	4,910	+130	737.23	17,830	+100
July 31	741.60	4,080	-830	737.06	17,560	-270
Aug. 31	741.74	4,200	+120	737.11	17,640	+80
Sept. 30	742.74	5,150	+950	738.58	20,040	+2,400
WTR YR 1972	-	-	+1,170	-	-	+2,470

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 mile southwest of Lancaster, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--10.0 sq mi.

PERIOD OF RECORD.--January 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 823.6 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 9.25 cfs (12.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,390 cfs Apr. 13 (gage height, 7.15 ft); minimum, 0.76 cfs Oct. 2, 3.
Period of record: Maximum discharge, 1,820 cfs May 27, 1968 (gage height, 8.00 ft), from rating curve extended above 600 cfs on basis of slope-area measurement at gage height, 7.09 ft; minimum, 0.28 cfs Aug. 3, 4, 1969.
Flood of July 21 or 22, 1948 reached a stage of 15.4 ft (discharge, 11,200 cfs, on basis contracted-opening measurement of peak flow at Pennsylvania Railroad bridge, 0.8 mile upstream).

REMARKS.--Records fair. Flood affected by temporary retention in four retarding basins upstream from station (combined capacity, 2,820 acre-ft). Controlled drainage area is 8.49 sq mi. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	1.2	1.8	6.0	1.5	5.1	5.5	5.5	7.0	3.5	1.6	1.4
2	.76	1.3	1.2	5.6	1.6	19	5.5	5.7	5.4	2.6	2.1	2.1
3	.82	1.4	1.0	5.8	1.6	24	4.7	6.5	4.6	2.8	2.6	1.8
4	.89	1.2	1.0	5.6	2.0	17	12	5.0	4.0	2.6	2.4	1.2
5	.89	1.1	1.1	8.9	2.8	12	8.8	4.5	3.8	2.1	2.0	1.0
6	.96	1.2	5.1	8.9	2.1	9.4	5.5	4.1	3.4	1.7	1.7	1.0
7	.88	1.3	10	6.8	2.9	7.0	31	3.9	2.8	1.8	1.2	1.0
8	.89	1.3	8.9	5.6	2.5	11	21	8.3	3.6	2.0	1.1	1.1
9	.98	1.2	6.7	5.4	2.2	7.0	17	168	3.0	5.0	1.0	1.0
10	1.2	1.4	4.3	6.3	1.9	5.1	13	30	2.7	2.6	1.0	.93
11	1.1	1.3	3.3	6.5	2.8	4.3	10	20	2.5	1.7	1.0	.93
12	1.0	1.3	2.8	6.1	4.7	4.3	52	16	2.5	1.8	1.5	3.9
13	.96	1.2	2.6	5.5	15	6.0	278	15	5.4	1.7	1.8	2.7
14	1.2	1.2	2.4	5.0	19	6.0	30	25	5.0	2.0	1.4	1.4
15	1.0	1.2	2.8	4.0	29	5.1	24	33	6.0	2.4	1.1	1.3
16	1.0	1.2	5.0	3.2	21	19	64	24	4.2	2.2	1.0	1.1
17	1.1	1.2	4.1	2.8	14	44	34	18	3.4	1.9	1.2	1.1
18	1.0	1.2	3.0	3.4	12	23	17	15	2.8	1.6	4.5	1.1
19	1.0	1.4	2.9	2.9	10	15	12	13	2.3	2.0	5.5	1.3
20	1.0	1.4	3.1	2.1	8.8	11	12	12	2.2	2.9	2.8	1.1
21	1.1	1.3	3.3	2.0	4.7	9.4	15	11	2.1	2.6	2.0	1.1
22	1.2	1.2	3.0	2.1	5.1	15	38	9.7	2.0	4.7	1.6	.99
23	1.3	1.1	2.7	2.6	4.3	14	19	9.2	2.0	3.8	1.4	.99
24	1.6	1.2	2.7	2.4	4.3	11	13	8.6	1.9	3.0	1.7	2.9
25	1.6	1.2	2.7	2.3	3.6	10	9.7	7.5	1.8	2.4	1.5	2.7
26	1.5	1.2	2.7	1.9	6.5	8.2	8.3	7.0	1.7	2.1	1.4	2.9
27	1.4	1.4	2.7	1.8	5.5	7.6	7.8	7.0	1.6	2.1	1.4	8.0
28	1.3	1.4	2.9	1.7	5.1	6.5	6.7	6.7	2.0	2.1	1.3	5.2
29	1.2	1.7	3.2	1.6	5.1	7.0	6.0	6.7	7.5	2.0	1.3	4.7
30	1.2	2.2	5.2	1.6	------	6.5	5.7	8.0	6.2	1.9	1.3	7.2
31	1.2	------	7.6	1.5	------	5.1	------	7.8	------	1.8	1.2	------
TOTAL	34.05	39.1	111.8	127.9	201.6	354.6	786.2	521.7	105.4	75.4	54.6	65.14
MEAN	1.10	1.30	3.61	4.13	6.95	11.4	26.2	16.8	3.51	2.43	1.76	2.17
MAX	1.6	2.2	10	8.9	29	44	278	168	7.5	5.0	5.5	8.0
MIN	.76	1.1	1.0	1.5	1.5	4.3	4.7	3.9	1.6	1.6	1.0	.93
CFSM	.11	.13	.36	.41	.70	1.14	2.62	1.68	.35	.24	.18	.22
IN.	.13	.15	.42	.48	.75	1.32	2.92	1.94	.39	.28	.20	.24

CAL YR 1971 TOTAL 2,679.65 MEAN 7.34 MAX 180 MIN .76 CFSM .73 IN 9.97
WTR YR 1972 TOTAL 2,477.49 MEAN 6.77 MAX 278 MIN .76 CFSM .68 IN 9.22

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	0030	7.15	1,390	5-9	0230	5.30	635

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 upstream from Columbus Street Bridge in Lancaster, and 0.5 mile downstream from Hunters Run.

DRAINAGE AREA.--48.2 sq mi.

PERIOD OF RECORD.--June 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 797.9 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 38.9 cfs.

EXTREMES.--Current year: Maximum discharge, 2,020 cfs Apr. 13 (gage height, 12.72 ft); minimum daily, 2.0 cfs Nov. 23.
Period of record: Maximum discharge, 3,520 cfs May 27, 1968 (gage height, 15.75 ft); minimum, 0.80 cfs Sept. 17, 1964; minimum gage height, 1.63 ft Jan. 4, 5, 1959.

REMARKS.--Records fair. 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 miles upstream from station. The pumpage averaged 7.2 cfs in 1972 and is returned as sewage 0.8 mile downstream from the station. Flood flow affected by temporary retention in eight retarding basins (combined capacity, 8,710 acre-ft) upstream from station. Controlled drainage area is 24.4 sq mi (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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	4.1	3.4	22	9.8	38	27	30	20	10	7.5	9.6
2	11	6.8	2.5	27	12	89	25	34	16	8.4	7.1	9.0
3	9.2	3.7	2.4	25	18	109	24	39	14	13	9.2	12
4	8.4	3.0	2.2	30	16	78	50	29	13	8.8	18	13
5	8.4	2.7	2.5	47	16	55	39	27	12	7.8	10	10
6	7.4	5.0	40	36	11	39	32	25	13	5.8	7.5	8.8
7	6.8	4.1	42	28	12	38	120	23	12	5.0	7.3	8.4
8	6.8	3.4	21	23	10	53	98	59	11	5.5	6.6	6.8
9	9.2	3.4	11	28	9.2	39	84	390	17	22	6.5	6.6
10	8.1	3.7	7.8	37	8.4	30	65	156	15	13	6.7	6.4
11	7.1	3.7	5.0	34	9.2	28	52	85	8.8	7.8	6.4	6.4
12	5.5	3.4	4.3	29	13	28	91	59	8.4	6.8	37	7.2
13	5.8	3.0	3.7	26	44	31	729	55	28	7.1	4.7	40
14	10	2.9	6.2	22	68	30	201	116	25	6.8	2.7	22
15	6.2	3.2	16	19	121	28	116	133	33	9.2	2.4	17
16	6.5	2.9	20	13	101	83	227	107	45	11	2.4	13
17	6.5	2.9	15	11	68	153	168	75	20	9.6	13	9.4
18	5.8	2.7	11	15	59	98	92	57	13	8.8	33	10
19	5.8	7.1	10	19	50	58	70	47	10	7.8	29	11
20	5.5	3.0	15	17	35	44	67	42	9.6	12	24	9.2
21	4.8	2.5	12	16	30	39	82	38	9.6	11	17	8.4
22	5.5	2.2	11	20	28	59	189	34	9.6	15	11	7.8
23	5.8	2.0	9.6	22	25	59	105	30	9.2	23	17	8.8
24	9.2	2.5	8.8	23	25	44	73	28	8.1	20	23	11
25	5.8	2.2	8.1	22	23	40	55	26	6.8	11	23	20
26	5.0	2.2	8.1	16	35	34	46	24	6.5	9.7	16	70
27	4.5	3.2	9.6	14	35	34	40	22	5.5	9.5	13	56
28	4.3	2.5	16	13	33	31	36	20	4.8	8.9	13	62
29	4.1	12	11	11	34	32	32	20	62	8.4	11	58
30	4.1	6.8	28	10	------	30	30	28	23	8.0	11	85
31	4.1	------	28	9.6	------	26	------	23	------	8.0	9.8	------
TOTAL	208.2	112.8	391.2	684.6	958.6	1,577	3,065	1,881	488.9	318.7	405.8	622.8
MEAN	6.72	3.76	12.6	22.1	33.1	50.9	102	60.7	16.3	10.3	13.1	20.8
MAX	11	12	42	47	121	153	729	390	62	23	37	85
MIN	4.1	2.0	2.2	9.6	8.4	26	24	20	4.8	5.0	2.4	6.4

CAL YR 1971 TOTAL 11,449.6 MEAN 31.4 MAX 606 MIN 2.0
WTR YR 1972 TOTAL 10,714.6 MEAN 29.3 MAX 729 MIN 2.0

Peak Discharge (Base, 700 cfs).--Apr. 13 (0100) 2,020 cfs (12.72 ft).

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 downstream from unnamed right bank tributary, 2.0 miles upstream from mouth, and 3 miles west of Rockbridge.

DRAINAGE AREA.--89.0 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 760.13 ft above mean sea level, adjustment of 1912. Prior to May 2, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 83.5 cfs (12.74 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,840 cfs Apr. 13 (gage height, 7.84 ft); minimum, 10 cfs Sept. 1, 2, 3, 7.
Period of record: Maximum discharge, 16,000 cfs July 22, 1948 (gage height, 17.68 ft, from high-water mark in well), from rating curve extended above 4,300 cfs on basis of slope-area measurement of peak flow; minimum, 3.0 cfs Dec. 29, 1947, result of freezeup.

REMARKS.--Records good. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	26	65	29	80	72	76	50	44	17	10
2	15	18	22	70	28	267	70	76	44	36	18	10
3	15	19	21	65	33	308	66	81	40	48	20	20
4	15	17	21	63	31	198	99	70	38	44	20	17
5	14	17	21	121	30	148	84	63	36	41	17	12
6	14	17	70	80	38	107	76	58	35	34	15	11
7	14	20	144	65	36	106	268	55	35	30	15	10
8	14	18	87	56	35	137	223	88	33	29	14	15
9	15	18	57	59	34	98	206	777	33	28	14	24
10	18	19	48	75	32	86	164	418	32	29	13	21
11	17	19	42	68	30	80	135	239	31	31	12	21
12	16	18	36	59	36	80	119	166	30	27	12	30
13	15	18	34	57	102	81	1,230	133	40	27	13	28
14	19	18	33	50	233	81	468	190	64	30	13	19
15	17	18	43	40	423	75	310	304	45	27	13	16
16	17	18	55	37	251	207	623	269	185	28	12	16
17	20	17	42	34	150	411	460	171	75	29	12	16
18	17	17	35	33	130	247	258	132	54	26	32	14
19	17	21	34	37	100	155	194	109	46	23	50	18
20	16	22	42	38	84	123	205	95	41	22	25	16
21	16	20	40	39	78	110	199	87	42	22	18	15
22	17	18	35	42	72	164	577	77	39	25	16	14
23	18	17	33	55	70	148	293	68	39	23	16	13
24	22	18	33	61	76	122	202	62	37	20	18	21
25	21	18	31	56	72	111	151	57	35	19	17	26
26	19	18	32	42	82	98	125	51	33	18	16	30
27	18	20	32	40	80	94	108	47	31	17	13	40
28	17	20	36	37	75	86	95	45	29	16	13	42
29	17	27	35	34	72	84	87	45	43	15	12	28
30	17	34	142	32	------	80	81	49	82	15	11	56
31	17	------	93	30	------	72	------	60	------	16	11	------
TOTAL	519	576	1,455	1,640	2,542	4,244	7,248	4,218	1,397	839	518	629
MEAN	16.7	19.2	46.9	52.9	87.7	137	242	136	46.6	27.1	16.7	21.0
MAX	22	34	144	121	423	411	1,230	777	185	48	50	56
MIN	14	17	21	30	28	72	66	45	29	15	11	10
CFSM	.19	.22	.53	.59	.99	1.54	2.72	1.53	.52	.30	.19	.24
IN.	.22	.24	.61	.69	1.06	1.77	3.03	1.76	.58	.35	.22	.26

CAL YR 1971 TOTAL 24,813 MEAN 68.0 MAX 1,450 MIN 14 CFSM .76 IN 10.37
WTR YR 1972 TOTAL 25,825 MEAN 70.6 MAX 1,230 MIN 10 CFSM .79 IN 10.79

PEAK DISCHARGE (BASE, 1,900 CFS).--No peak above base.

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 miles downstream from Buck Run, and 4.3 miles upstream from Scott Creek.

DRAINAGE AREA.--459 sq mi.

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 above mean sea level. Prior to Oct. 24, 1933, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 433 cfs (12.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,480 cfs Apr. 14 (gage height, 11.18 ft); minimum, 46 cfs Oct. 5, 6, 7, 8, 9.
Period of record: Maximum discharge, 26,000 cfs Mar. 10, 1964 (gage height, 21.31 ft), from rating curve extended above 17,000 cfs on basis of contracted-opening and slope-area measurement of peak flow; minimum, 12 cfs Aug. 19, 1932.
Flood of March 1907, reached a stage of 22.0 ft, from floodmark (discharge, 36,000 cfs), 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) 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	56	134	320	140	426	405	439	212	194	69	81
2	52	61	100	285	140	747	402	429	186	149	69	79
3	51	68	82	310	150	1,670	375	436	168	171	72	331
4	50	66	82	269	160	1,270	512	380	154	196	327	333
5	49	61	80	496	170	890	580	341	140	178	191	158
6	49	58	212	470	160	639	478	308	135	161	108	119
7	47	68	707	328	150	602	1,060	290	137	135	90	100
8	47	62	562	267	140	752	1,580	369	130	122	83	91
9	50	64	297	258	130	609	1,300	1,810	124	116	76	95
10	59	66	219	318	134	503	1,020	1,360	664	204	71	87
11	54	65	183	326	134	445	844	768	394	183	66	75
12	58	64	155	279	142	429	713	588	201	132	65	116
13	56	63	138	240	336	433	4,110	496	209	118	300	962
14	64	62	135	190	1,050	461	5,030	648	311	137	138	330
15	61	61	164	150	1,340	422	3,060	920	275	122	94	195
16	62	63	222	140	1,430	780	2,530	924	668	135	79	152
17	62	60	191	140	946	1,790	2,880	716	411	173	84	128
18	54	63	150	150	796	1,430	2,100	580	254	132	942	111
19	55	78	126	170	745	900	1,250	480	201	112	859	143
20	53	86	145	170	512	692	1,090	418	176	106	470	110
21	59	79	160	182	454	596	952	383	176	108	264	97
22	57	77	145	180	441	946	2,340	341	168	103	188	90
23	60	72	124	245	368	1,220	2,160	302	164	103	221	84
24	72	72	119	314	409	868	1,410	269	161	97	206	109
25	73	74	116	310	393	720	992	245	152	94	177	158
26	69	72	112	240	460	611	792	220	140	87	145	149
27	66	78	115	190	479	565	672	199	128	81	129	232
28	63	81	131	180	432	549	588	183	120	78	121	903
29	60	104	138	160	431	498	520	178	207	76	105	450
30	59	145	279	150	------	506	476	209	334	72	95	626
31	57	------	548	140	------	434	------	260	------	71	86	------
TOTAL	1,782	2,149	6,071	7,567	12,772	23,403	42,221	15,489	6,900	3,946	5,990	6,694
MEAN	57.5	71.6	196	244	440	755	1,407	500	230	127	193	223
MAX	73	145	707	496	1,430	1,790	5,030	1,810	668	204	942	962
MIN	47	56	80	140	130	422	375	178	120	71	65	75
CFSM	.13	.16	.43	.53	.96	1.64	3.07	1.09	.50	.28	.42	.49
IN.	.14	.17	.49	.61	1.04	1.90	3.42	1.26	.56	.32	.49	.54

CAL YR 1971 TOTAL 122,924 MEAN 337 MAX 6,020 MIN 47 CFSM .73 IN 9.96
WTR YR 1972 TOTAL 134,984 MEAN 369 MAX 5,030 MIN 47 CFSM .80 IN 10.94

Peak Discharge (Base, 3,500 cfs).--Apr. 14 (1730) 5,480 cfs (11.18 ft).

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 mile upstream from mouth, 0.4 mile southeast of Burr Oak, and 3.0 miles northeast of Glouster.

DRAINAGE AREA.--33.1 sq mi.

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, 10,570 acre-ft Apr. 23 (elevation, 722.93 ft); minimum, 9,080 acre-ft Nov. 24 (elevation, 720.77 ft).
Period of record: Maximum contents, 17,820 acre-ft May 31, 1968 (elevation, 731.53 ft); minimum, 3,450 acre-ft Nov. 20, 1953 (elevation, 709.89 ft).

REMARKS.--Reservoir is formed by earth dam with emergency spillway; storage began Feb. 2, 1952. Capacity at spillway level (elevation, 740 ft), 26,900 acre-ft, of which 9,300 acre-ft is in conservation pool. Dead storage, 35 acre-ft. Figures given herein represent total contents. Reservoir is used for flood control, although conservation pool is operated for increased low flow for water supply and 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 GAGE HEIGHT AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	721.06	9,270	-
Oct. 31	720.91	9,170	-100
Nov. 30	720.84	9,120	-50
Dec. 31	721.45	9,530	+ 410
CAL YR 1971	-	-	+3,800
Jan. 31	721.13	9,310	-220
Feb. 29	721.45	9,530	+220
Mar. 31	721.07	9,270	-260
Apr. 30	721.09	9,290	+ 20
May 31	721.29	9,420	+130
June 30	721.48	9,550	+130
July 31	721.15	9,330	-220
Aug. 31	721.58	9,620	+ 290
Sept. 30	721.62	9,650	+30
WTR YR 1972	-	-	+380

03159000 Sunday Creek at Glouster, Ohio

LOCATION.--Lat 39°30'03", long 82°05'07", Athens County, on left bank 150 ft downstream from West Branch Sunday Creek and 200 ft upstream from bridge on State Highway 78 at Glouster.

DRAINAGE AREA.--104 sq mi.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 665.18 ft above mean sea level. Prior to Dec. 4, 1951, non-recording gage at site 300 ft downstream at same datum.

AVERAGE DISCHARGE.--21 years, 101 cfs.

EXTREMES.--Current year: Maximum discharge, 1,130 cfs Apr. 13 (gage height, 11.73 ft); minimum, 2.1 cfs Oct. 1, 2, 3.
Period of record: Maximum discharge, 7,020 cfs Mar. 5, 1963 (gage height, 17.81 ft), from rating curve extended above 3,600 cfs on basis of velocity-area study and flow over road estimate of peak discharge; minimum, 0.4 cfs Oct. 26, 27, 1953.
Flood of March 1907 reached a stage of 22.0 ft, from information by Corps of Engineers.

REMARKS.--Records good. Flow partially regulated by Burr Oak Reservoir 5.2 miles upstream (see station 03158500). Most of small diversion (average 0.53 cfs) downstream from Burr Oak Reservoir 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	5.0	11	15	22	119	90	98	18	17	5.6	8.6
2	2.3	5.6	8.3	19	22	206	71	88	17	14	5.6	8.2
3	2.3	5.3	7.C	59	33	498	69	81	16	17	6.5	15
4	2.5	4.9	6.4	1CO	51	434	137	71	15	18	14	27
5	2.5	4.2	6.8	200	47	245	140	67	16	17	9.1	14
6	2.5	4.4	32	166	34	166	114	62	15	15	6.5	11
7	2.7	4.7	208	124	29	158	465	58	15	14	6.5	9.5
8	3.1	4.6	94	81	24	226	573	61	14	13	6.9	9.5
9	3.8	4.8	32	65	21	156	474	88	15	13	6.5	10
10	3.1	4.9	80	106	38	124	334	89	16	11	5.6	9.1
11	3.1	5.2	130	95	87	107	230	74	13	11	5.6	7.7
12	3.1	5.3	58	81	82	100	158	67	12	11	5.6	27
13	3.4	5.3	23	72	467	103	692	62	15	11	6.5	192
14	3.4	5.1	10	67	725	98	615	68	25	11	6.9	84
15	4.6	5.2	14	44	753	90	404	93	19	36	6.5	19
16	3.1	6.7	18	21	454	138	498	119	32	198	6.5	16
17	3.1	6.3	16	14	2C8	368	540	101	21	304	10	14
18	2.7	5.0	13	17	186	377	277	82	16	123	53	13
19	2.6	5.0	12	21	186	199	191	77	14	50	61	11
20	2.6	6.1	15	21	126	134	182	72	15	17	33	9.5
21	2.9	8.1	17	22	95	120	171	68	18	15	16	9.1
22	3.9	5.1	15	22	92	191	814	59	16	13	14	8.6
23	4.8	4.7	13	41	72	224	450	53	16	12	90	8.6
24	6.5	5.1	12	124	83	174	540	46	15	11	29	17
25	6.7	5.7	12	166	102	150	415	42	14	12	16	20
26	6.2	5.9	12	164	135	129	184	39	13	10	13	15
27	5.5	7.3	12	138	112	122	125	35	12	9.1	12	18
28	5.0	7.9	12	121	117	114	97	34	12	6.9	11	38
29	4.9	12	11	74	124	107	88	33	23	6.9	9.5	49
30	5.2	13	12	53	------	102	81	30	27	6.5	8.6	82
31	4.9	------	15	23	------	95	------	21	------	6.0	8.2	------
TOTAL	115.1	178.4	937.5	2,336	4,527	5,574	9,219	2,038	505	1,029.4	494.7	780.4
MEAN	3.71	5.95	30.2	75.4	156	180	307	65.7	16.8	33.2	16.0	26.0
MAX	6.7	13	208	200	753	498	814	119	32	304	90	192
MIN	2.1	4.2	6.4	14	21	90	69	21	12	6.0	5.6	7.7

CAL YR 1971 TOTAL 26,992.1 MEAN 74.0 MAX 1,280 MIN 2.1
WTR YR 1972 TOTAL 27,734.5 MEAN 75.8 MAX 814 MIN 2.1

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 mile east of business section of Athens, 1.4 miles downstream from Coats Run, and 3.0 miles (revised) downstream from Margaret Creek.

DRAINAGE AREA.--943 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 611.26 ft above mean sea level. Nonrecording gage prior to Aug. 17, 1931. Prior to June 19, 1970 at present site at datum 3.55 ft higher. June 19, 1970, to Sept. 30, 1971 water-stage recorder at temporary site 5.3 miles downstream at datum 11.26 ft lower.

AVERAGE DISCHARGE.--57 years, 965 cfs.

EXTREMES.--Current year: Maximum discharge, 7,110 cfs Apr. 14 (gage height, 15.37 ft); minimum, 50 cfs Oct. 9.
Period of record: Maximum discharge, 32,900 cfs Mar. 11, 1964 (gage height, 24.18 ft, datum then in use); minimum, 9 cfs Oct. 11, 1930.
Flood of March 1907 reached a stage of about 27 ft (datum then in use) from floodmarks (discharge, 50,000 cfs, estimated by Corps of Engineers).

REMARKS.--Records good. Some regulation by Burr Oak Reservoir (capacity 26,900 acre-ft) on East Branch Sunday Creek 29 miles upstream beginning 1952 (see station 03158500), by Hocking Lake (capacity 3,080 acre-ft) on Clear Fork 39.4 miles upstream beginning in 1949, and by temporary retention in eight retarding basins (combined capacity, 8,710 acre-ft) constructed between 1955 and 1961 upstream from Lancaster (see station 03156400). Diurnal fluctuation at low flow caused by mill 3.2 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	60	224	551	368	1,010	846	1,090	422	500	112	172
2	54	60	208	455	341	1,420	812	1,030	362	347	108	172
3	54	69	168	509	374	3,740	770	972	326	356	108	530
4	54	75	148	564	530	3,510	1,000	900	305	341	188	886
5	58	69	136	1,290	560	2,570	1,480	787	287	338	368	564
6	60	72	353	1,290	520	1,820	1,290	696	269	320	278	326
7	56	60	1,600	904	480	1,550	2,730	638	263	293	192	278
8	54	60	1,580	663	449	1,810	4,930	615	260	272	160	248
9	52	72	990	573	430	1,830	3,960	1,720	254	257	140	263
10	58	60	583	846	420	1,390	3,010	3,490	299	260	128	228
11	60	69	542	808	420	1,170	2,350	2,090	779	314	112	184
12	66	66	461	681	410	1,040	1,900	1,430	461	320	100	152
13	60	75	359	583	1,800	976	3,690	1,150	329	278	100	536
14	69	66	308	536	3,720	967	6,710	1,050	407	254	266	1,370
15	66	72	326	460	3,590	954	6,750	1,500	491	248	208	564
16	69	69	407	400	3,540	1,020	5,310	1,900	583	586	152	350
17	69	64	401	350	2,540	2,490	5,590	1,710	963	855	156	281
18	69	66	341	362	1,870	3,450	5,050	1,370	560	670	632	244
19	66	62	296	335	1,740	2,460	3,340	1,130	407	422	1,970	220
20	60	69	299	350	1,430	1,670	2,490	954	344	326	1,520	220
21	56	93	329	362	1,080	1,370	2,280	850	341	320	774	204
22	56	93	323	356	958	1,560	5,180	754	320	290	521	180
23	60	93	290	392	877	2,630	6,460	663	305	280	663	168
24	64	87	269	645	1,430	2,300	4,480	583	299	240	533	180
25	75	87	260	936	1,320	1,770	3,110	524	290	220	407	260
26	81	87	254	882	1,660	1,490	2,240	479	278	208	323	320
27	81	100	251	656	1,400	1,300	1,750	425	263	200	278	347
28	84	100	248	500	1,180	1,210	1,480	386	251	148	269	602
29	72	148	248	440	1,090	1,110	1,290	359	329	136	251	1,200
30	60	204	248	390	------	1,030	1,150	359	645	124	208	1,070
31	60	------	368	370	------	972	------	404	------	120	184	------
TOTAL	1,961	2,427	12,818	18,439	36,527	53,589	93,428	32,008	11,692	9,843	11,409	12,319
MEAN	63.3	80.9	413	595	1,260	1,729	3,114	1,033	390	318	368	411
MAX	84	204	1,600	1,290	3,720	3,740	6,750	3,490	963	855	1,970	1,370
MIN	52	60	136	335	341	954	770	359	251	120	100	152

CAL YR 1971 TOTAL 278,979 MEAN 764 MAX 12,200 MIN 52
WTR YR 1972 TOTAL 296,460 MEAN 810 MAX 6,750 MIN 52

Peak Discharge (Base, 7,500 cfs).--No peak above base.

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 upstream from Sugar Run, 2.8 miles southeast of Chester, and 8.5 miles northeast of Pomeroy.

DRAINAGE AREA.--156 sq mi, includes that of Sugar Run.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956, 1962-65. June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 576.91 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 154 cfs (13.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,590 cfs Apr. 14 (gage height, 19.27 ft); minimum, 1.4 cfs Aug. 1, 2, 3.
Period of record: Maximum discharge, 8,170 cfs May 25, 1968 (gage height, 27.39 ft); minimum, 0.30 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	8.9	94	68	80	191	109	124	29	29	1.5	4.0
2	25	13	62	270	87	546	117	149	25	23	1.4	3.3
3	22	22	45	356	193	2,590	109	210	21	18	1.5	4.0
4	19	21	41	241	389	794	342	207	19	41	14	11
5	17	14	39	1,090	179	519	354	134	24	31	61	24
6	15	12	174	537	130	355	199	108	21	26	26	12
7	13	12	1,340	255	110	326	878	94	18	22	13	7.5
8	11	12	869	176	94	333	2,460	87	17	17	8.0	5.8
9	10	11	270	233	82	248	543	650	16	14	6.1	4.7
10	11	11	159	744	76	192	318	976	16	13	4.4	3.8
11	12	11	123	452	74	160	235	273	24	13	3.5	3.0
12	13	11	96	253	84	148	223	158	18	12	4.4	4.4
13	10	11	81	179	1,570	140	2,090	121	17	9.8	13	7.5
14	9.2	10	69	140	2,020	140	2,850	114	35	8.9	6.1	11
15	8.8	9.3	78	103	659	150	550	123	26	8.9	3.8	8.9
16	11	8.9	101	65	437	230	544	109	44	11	2.8	6.8
17	9.8	8.9	93	56	294	450	681	90	49	24	7.5	5.8
18	9.3	8.4	73	62	280	469	347	91	26	18	112	5.1
19	8.9	8.9	59	89	260	255	244	71	18	14	268	4.7
20	7.2	11	76	101	170	180	248	60	21	9.8	189	3.8
21	5.8	14	114	117	150	151	342	56	61	7.5	60	3.5
22	5.8	14	89	100	140	325	2,440	51	39	6.5	28	3.3
23	7.2	12	70	133	130	425	1,320	45	31	5.4	19	3.5
24	17	11	65	357	1,380	295	431	38	33	4.4	15	14
25	25	12	62	434	733	230	291	33	30	3.5	13	45
26	21	13	58	252	1,330	183	210	30	25	3.0	10	27
27	16	37	57	145	555	162	163	26	22	2.3	16	21
28	14	82	62	110	341	144	135	23	20	2.1	11	22
29	12	122	65	76	245	132	121	22	30	1.8	7.5	17
30	10	158	66	70	------	151	111	22	38	1.6	6.1	41
31	9.3	------	85	74	------	118	------	27	------	1.6	5.1	------
TOTAL	415.3	710.3	4,735	7,338	12,272	10,732	19,005	4,322	813	403.1	937.7	338.4
MEAN	13.4	23.7	153	237	423	346	634	139	27.1	13.0	30.2	11.3
MAX	30	158	1,340	1,090	2,020	2,590	2,850	976	61	41	268	45
MIN	5.8	8.4	39	56	74	118	109	22	16	1.6	1.4	3.0
CFSM	.09	.15	.98	1.52	2.71	2.22	4.06	.89	.17	.08	.19	.07
IN.	.10	.17	1.13	1.75	2.93	2.56	4.53	1.03	.19	.10	.22	.08

CAL YR 1971 TOTAL 49,637.7 MEAN 136 MAX 2,ECC MIN 4.7 CFSM .87 IN 11.84
WTR YR 1972 TOTAL 62,021.8 MEAN 169 MAX 2,850 MIN 1.4 CFSM 1.08 IN 14.79

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-14	0500	15.70	2,500	4-14	0730	19.27	3,590
3- 3	1530	16.38	2,700	4-22	1200	16.54	2,750
4- 8	1400	16.34	2,690				

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 upstream from Big Four Hollow Creek, 150 ft downstream from Morgan Hollow Creek, 2.5 miles southwest of Carbondale, and 3.7 miles northeast of Lake Hope.

DRAINAGE AREA.--0.98 sq mi.

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 (from topographic map).

EXTREMES.--Current year: Maximum discharge, 280 cfs Aug. 17; minimum, 0.03 cfs many days in October, November, and August.
Period of record: Maximum discharge, 280 cfs Aug. 17, 1972; minimum, 0.02 cfs Sept. 24, 25, 1971 (gage height, 0.05 ft).

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.05	.09	.12	.25	1.2	.58	.74	.24	.25	.06	.05
2	.04	.11	.06	.54	.33	4.6	.46	.60	.18	.15	.07	.07
3	.03	.05	.05	.39	.58	4.2	.54	.53	.13	.62	.10	.80
4	.03	.04	.04	1.4	.78	2.9	2.4	.42	.13	.33	1.2	.26
5	.04	.03	.05	3.1	.50	2.0	1.6	.28	.10	.28	.16	.12
6	.04	.05	7.4	.88	.38	1.6	1.4	.33	.12	.18	.12	.07
7	.04	.05	7.8	.56	.29	2.7	11	.28	.10	.14	.11	.10
8	.04	.03	.88	.39	.26	2.8	7.0	.38	.10	.13	.06	.50
9	.05	.04	.48	1.7	.23	1.8	3.8	2.4	.19	.18	.05	.25
10	.05	.03	.38	1.9	.22	1.3	2.3	1.8	.11	.20	.04	.17
11	.05	.03	.25	.88	.20	1.2	1.6	1.4	.08	.14	.05	.17
12	.05	.03	.17	.52	.28	.96	1.4	1.1	.09	.12	.04	.96
13	.05	.04	.13	.40	9.4	.88	7.6	.94	.18	.12	.04	.52
14	.05	.03	.20	.25	4.0	.64	3.6	1.1	.12	.10	.04	.30
15	.04	.03	.50	.14	4.6	.58	2.6	4.0	.47	.67	.03	.20
16	.04	.03	.70	.08	2.7	1.7	4.6	2.6	.41	1.1	.03	.18
17	.04	.03	.50	.10	1.9	2.5	4.0	1.7	.13	.39	5.0	.17
18	.03	.03	.31	.16	1.5	1.9	2.7	1.3	.12	.22	6.0	.17
19	.03	.05	.22	.26	1.0	1.3	2.1	1.1	.10	.14	3.0	.22
20	.03	.05	.34	.30	.78	1.1	2.1	1.2	.30	.10	1.3	.20
21	.03	.05	.36	.25	.68	1.1	5.0	.98	.21	.09	.50	.21
22	.05	.04	.22	.28	.58	3.3	12	.74	.13	.09	.22	.20
23	.04	.04	.20	.60	.80	2.7	3.2	.56	.16	.08	.14	.22
24	.05	.06	.20	1.1	3.0	2.1	2.6	.46	.12	.07	.12	.54
25	.07	.06	.18	2.0	2.0	1.8	2.2	.38	.12	.07	.11	.40
26	.08	.05	.18	.86	2.2	1.4	1.7	.28	.10	.06	.10	.34
27	.07	.13	.14	.62	1.8	1.3	1.3	.25	.08	.07	.09	.30
28	.05	.07	.16	.50	1.5	1.0	1.1	.25	.09	.05	.07	.28
29	.05	.28	.13	.39	1.2	.93	.96	.27	9.2	.06	.06	1.3
30	.04	.17	.27	.30	------	.58	.88	.50	1.3	.05	.06	1.4
31	.04	------	.13	.24	------	.56	------	.30	------	.05	.05	------
TOTAL	1.37	1.78	22.72	21.21	44.34	54.63	94.32	29.17	14.91	6.30	19.02	10.67
MEAN	.044	.059	.73	.68	1.53	1.76	3.14	.94	.50	.20	.61	.36
MAX	.08	.28	7.8	3.1	9.4	4.6	12	4.0	9.2	1.1	6.0	1.4
MIN	.03	.03	.04	.08	.20	.56	.46	.25	.08	.05	.03	.05
CFSM	.04	.06	.74	.69	1.56	1.80	3.20	.96	.51	.20	.62	.37
IN.	.05	.07	.86	.81	1.68	2.07	3.58	1.11	.57	.24	.72	.41

CAL YR 1971 TOTAL 308.60 MEAN .85 MAX 27 MIN .03 CFSM .87 IN 11.71
WTR YR 1972 TOTAL 320.44 MEAN .88 MAX 12 MIN .03 CFSM .90 IN 12.16

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	0600	Unknown	About 60	8-17	2330	4.16	280
6-29	1700	3.30	132				

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 upstream from State Route 278 crossing, 300 ft upstream from Sandy Run, 2.5 miles southwest of Carbondale, and 3.7 miles northeast of Lake Hope.

DRAINAGE AREA.--1.01 sq mi.

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 (from topographic map).

EXTREMES.--Current year: Maximum discharge, 200 cfs Aug. 17 (gage height, 3.76 ft); minimum, 0.02 cfs Oct. 18, 19, 20, 21, Nov. 16.
Period of record: Maximum discharge, 200 cfs Aug. 17, 1972 (gage height, 3.76 ft); minimum daily discharge, 0.01 cfs July 6, 7, 8, Sept. 25, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.03	.11	.16	.22	1.2	.60	.70	.16	1.1	.03	.05
2	.04	.10	.07	.52	.30	7.8	.56	.60	.13	.58	.03	.05
3	.03	.05	.05	.52	1.0	5.1	.52	.50	.11	.60	.06	1.4
4	.03	.04	.06	1.4	1.0	2.5	2.4	.40	.10	.40	1.8	.34
5	.03	.04	.07	4.0	.64	1.9	1.5	.32	.08	.36	.23	.18
6	.03	.04	3.5	1.3	.46	1.5	1.1	.34	.08	.27	.12	.12
7	.05	.05	6.7	.70	.38	2.2	15	.32	.07	.20	.08	.10
8	.03	.03	1.5	.50	.31	2.2	8.0	1.3	.05	.17	.06	.42
9	.04	.03	.66	2.0	.27	1.5	3.6	5.0	.06	.31	.05	.28
10	.05	.03	.44	2.4	.24	1.2	2.3	2.6	.11	.22	.03	.14
11	.03	.03	.34	1.2	.22	1.0	1.6	1.6	.05	.16	.03	.10
12	.03	.03	.27	.72	.24	.88	1.4	1.2	.04	.12	.03	1.0
13	.03	.03	.21	.50	15	.78	9.6	.93	.09	.10	.04	.60
14	.04	.03	.30	.28	6.9	.74	5.0	1.1	.08	.08	.03	.34
15	.03	.03	.78	.19	5.0	.66	3.5	6.8	.29	.93	.03	.24
16	.03	.02	.72	.10	2.9	1.7	6.7	5.3	.40	1.2	.03	.18
17	.03	.03	.44	.11	2.1	2.7	4.6	2.5	.16	.48	5.9	.14
18	.02	.03	.31	.28	1.7	1.9	3.4	1.8	.11	.30	7.5	.12
19	.02	.04	.25	.38	1.3	1.3	2.6	1.2	.09	.21	3.0	.25
20	.02	.04	.60	.34	1.0	1.0	2.5	1.1	.19	.16	1.2	.11
21	.02	.05	.42	.33	.86	.96	7.4	.88	.18	.11	.52	.09
22	.03	.05	.31	.34	.60	3.8	17	.68	.14	.10	.36	.08
23	.03	.03	.25	.50	.82	2.6	7.0	.60	.13	.08	.27	.08
24	.06	.04	.25	.81	5.9	2.0	3.4	.39	.11	.07	.18	.62
25	.04	.05	.21	2.4	3.6	1.6	2.3	.30	.09	.06	.13	.54
26	.04	.04	.20	1.0	4.7	1.3	1.2	.22	.07	.05	.12	.45
27	.03	.07	.18	.70	2.5	1.1	1.4	.17	.05	.05	.11	.42
28	.03	.05	.18	.50	1.8	.93	1.2	.13	.05	.05	.09	.36
29	.03	.18	.17	.38	1.3	.83	1.1	.13	11	.05	.07	2.0
30	.03	.18	.20	.30	------	.70	.94	.31	3.4	.04	.06	1.9
31	.03	------	.18	.25	------	.60	------	.22	------	.04	.05	------
TOTAL	1.03	1.49	19.93	25.11	63.26	56.18	119.42	39.64	17.67	8.65	22.24	12.70
MEAN	.033	.050	.64	.81	2.18	1.81	3.98	1.28	.59	.28	.72	.42
MAX	.06	.18	6.7	4.0	15	7.8	17	6.8	11	1.2	7.5	2.0
MIN	.02	.02	.05	.10	.22	.60	.52	.13	.04	.04	.03	.05
CFSM	.03	.05	.63	.80	2.16	1.79	3.94	1.27	.58	.28	.71	.42
IN.	.04	.05	.73	.92	2.33	2.07	4.40	1.46	.65	.32	.82	.47

CAL YR 1971 TOTAL 283.30 MEAN .78 MAX 29 MIN .01 CFSM .77 IN 10.43
WTR YR 1972 TOTAL 387.32 MEAN 1.06 MAX 17 MIN .02 CFSM 1.05 IN 14.27

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	0700	2.60	56	8-17	2330	3.76	200
6-29	1700	Unknown	About 80				

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 downstream from Harbargar Hollow, 2.6 miles upstream from spillway of Lake Hope, and 5.0 miles northeast of Zaleski.

DRAINAGE AREA.--4.99 sq mi.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 715.51 ft above mean sea level.

AVERAGE DISCHARGE.--15 years, 5.59 cfs (15.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 360 cfs Apr. 7 (gage height, 5.42 ft); minimum daily, 0.02 cfs Aug. 2.
Period of record: Maximum discharge, 3,770 cfs Aug. 3, 1958 (gage height, 8.41 ft); 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.08	.88	.42	1.6	7.3	3.8	4.2	.88	4.7	.03	.25
2	.10	.35	.53	1.9	2.1	43	3.8	3.4	.88	2.7	.02	.32
3	.08	.30	.32	3.4	6.3	27	3.6	3.0	.64	2.7	.07	5.0
4	.08	.32	.42	5.7	8.1	16	13	2.8	.64	2.1	5.0	1.9
5	.08	.25	.32	23	5.7	12	13	2.6	.53	1.7	1.1	.76
6	.08	.19	16	7.6	4.5	11	8.6	2.4	.64	1.2	.42	.42
7	.08	.32	35	5.0	3.6	20	82	2.3	.53	1.0	.32	.25
8	.10	.25	8.3	3.4	2.7	16	41	4.2	.42	.76	.19	1.0
9	.11	.19	4.1	9.1	2.5	10	24	6.6	1.0	.88	.11	.76
10	.11	.25	2.1	15	2.3	7.1	15	12	1.1	1.1	.07	.32
11	.11	.19	1.4	7.1	2.3	6.3	10	8.6	.53	.64	.03	.25
12	.10	.19	1.0	5.0	2.7	5.7	8.3	6.3	.42	.53	.05	2.7
13	.08	.19	.64	4.1	82	5.2	50	5.4	.88	.32	.07	2.1
14	.14	.19	.64	2.7	41	4.5	26	6.3	1.0	.32	.03	1.1
15	.09	.19	3.0	1.9	30	4.3	16	26	1.2	1.5	.03	.76
16	.08	.19	4.3	1.0	19	8.8	33	22	3.7	4.7	.03	.64
17	.08	.15	2.3	1.5	12	17	24	12	.76	2.1	4.0	.64
18	.08	.15	1.4	2.3	11	12	14	9.1	.42	1.1	14	.53
19	.08	.19	1.0	2.1	9.7	7.8	10	6.8	.25	.76	30	1.5
20	.08	.32	2.7	1.9	7.6	6.3	10	6.1	.76	.53	4.7	.88
21	.08	.25	3.0	1.7	6.6	5.9	22	5.0	.88	.32	1.7	.88
22	.08	.19	1.9	1.7	5.4	21	88	3.6	.53	.25	1.1	.76
23	.08	.15	1.2	4.5	6.1	21	65	2.5	.53	.19	.88	.76
24	.11	.19	1.0	9.3	36	13	35	1.9	.42	.15	.53	3.0
25	.16	.25	.76	15	19	10	13	1.4	.42	.15	.42	2.7
26	.19	.25	.64	7.6	32	8.6	8.0	1.1	.25	.15	.42	2.1
27	.13	.64	.53	5.7	16	7.3	4.8	.88	.19	.15	.42	2.1
28	.09	.64	.53	4.3	11	6.3	5.4	.76	.19	.15	.32	1.7
29	.09	1.4	.42	3.6	8.3	5.4	7.0	1.4	41	.07	.32	6.1
30	.08	1.5	.53	3.0	------	4.7	5.0	2.3	15	.05	.25	7.1
31	.08	------	.64	2.1	------	4.1	------	1.2	------	.05	.25	------
TOTAL	3.02	9.91	97.50	162.62	397.1	354.6	662.3	174.14	76.59	33.02	66.88	49.28
MEAN	.097	.33	3.15	5.25	13.7	11.4	22.1	5.62	2.55	1.07	2.16	1.64
MAX	.19	1.5	35	23	82	43	88	26	41	4.7	30	7.1
MIN	.08	.08	.32	.42	1.6	4.1	3.6	.76	.19	.05	.02	.25
CFSM	.02	.07	.63	1.05	2.75	2.28	4.43	1.13	.51	.21	.43	.33
IN.	.02	.07	.73	1.21	2.96	2.64	4.94	1.30	.57	.25	.50	.37

CAL YR 1971 TOTAL 1,504.08 MEAN 4.12 MAX 115 MIN .01 CFSM .83 IN 11.21
WTR YR 1972 TOTAL 2,086.96 MEAN 5.70 MAX 88 MIN .02 CFSM 1.14 IN 15.56

PEAK DISCHARGE (BASE, 220 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-7	0915	5.42	360	8-18	Unknown	5.18	306

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 miles upstream from Ryan Run, and 1.4 miles downstream from Indian Creek.

DRAINAGE AREA.--585 sq mi.

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 above mean sea level. Prior to June 13, 1940, non-recording gage, June 13, 1940 to Oct. 27, 1970 water-stage recorder 480 ft upstream at same datum.

AVERAGE DISCHARGE.--54 years, 640 cfs (14.85 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,330 cfs Apr. 16 (gage height 16.19 ft); minimum, 27 cfs Aug. 17. Period of record: Maximum discharge, 20,000 cfs May 28, 1969 (gage height 28.69 ft), from rating extended above 13,000 cfs on basis of slope-conveyance estimate of peak flow; minimum, 1.1 cfs Oct. 17-19, 1964. Flood of January 1937 reached a stage of 25.2 ft, from floodmark (discharge 16,000 cfs).

REMARKS.--Records good. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	68	274	306	411	1,170	535	632	217	127	40	56
2	131	70	239	481	423	1,320	507	608	217	364	37	53
3	113	75	208	641	459	2,760	486	676	200	278	35	52
4	99	75	179	688	619	2,910	630	658	181	245	39	51
5	86	74	154	1,480	590	2,800	830	552	163	199	44	48
6	78	70	307	1,540	621	2,230	938	482	149	184	49	127
7	71	70	1,510	1,440	636	1,550	1,360	426	142	163	60	149
8	61	68	2,130	1,120	566	1,310	2,680	388	134	140	70	99
9	57	67	2,260	901	525	1,340	2,730	705	126	124	65	77
10	57	67	2,160	1,230	464	1,290	2,750	1,500	119	112	51	64
11	57	67	1,360	1,300	409	1,060	2,490	1,900	114	105	43	57
12	57	67	831	1,190	359	883	2,100	1,710	113	99	39	58
13	57	68	639	974	1,410	772	2,560	1,130	117	91	33	110
14	56	65	504	768	2,320	705	3,680	792	179	95	32	128
15	52	72	440	612	2,510	653	4,070	766	236	84	30	109
16	54	70	460	434	2,650	643	4,280	831	203	82	29	145
17	57	57	549	408	2,600	862	3,700	938	331	283	31	112
18	60	53	539	392	2,270	1,090	2,690	940	284	187	376	91
19	63	52	460	374	1,650	1,210	2,010	801	218	185	1,130	77
20	61	53	436	396	1,150	1,080	1,500	663	187	157	787	68
21	57	61	482	469	926	860	1,400	570	218	120	665	61
22	52	63	489	458	835	895	3,250	494	184	105	372	57
23	52	63	450	495	765	1,130	3,500	430	170	92	229	54
24	70	63	399	744	1,940	1,450	3,770	366	163	78	172	65
25	82	63	353	843	2,230	1,440	3,800	314	155	68	149	78
26	91	65	329	893	2,950	1,170	2,880	275	142	60	123	84
27	82	85	315	893	2,850	966	1,740	245	134	53	98	81
28	79	109	305	788	2,400	839	970	218	121	51	84	85
29	77	172	300	646	1,640	736	785	199	131	49	72	96
30	74	263	304	547	------	662	678	185	128	44	65	178
31	71	------	324	426	------	588	------	191	------	42	60	------
TOTAL	2,271	2,335	19,689	23,877	39,178	38,374	65,299	20,585	5,176	4,066	5,109	2,570
MEAN	73.3	77.8	635	770	1,351	1,238	2,177	664	173	131	165	85.7
MAX	157	263	2,260	1,540	2,950	2,910	4,280	1,900	331	364	1,130	178
MIN	52	52	154	306	359	588	486	185	113	42	29	48
CFSM	.13	.13	1.09	1.32	2.31	2.12	3.72	1.14	.30	.22	.28	.15
IN.	.14	.15	1.25	1.52	2.49	2.44	4.15	1.31	.33	.26	.32	.16

CAL YR 1971 TOTAL 177,247 MEAN 486 MAX 4,280 MIN 48 CFSM .83 IN 11.27
WTR YR 1972 TOTAL 228,529 MEAN 624 MAX 4,280 MIN 29 CFSM 1.07 IN 14.53

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-16	1300	16.19	4,330	4-25	0100	15.54	3,920

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 miles upstream from Ottawa Creek, 2.0 miles south of Prospect, and 2.5 miles downstream from Patton Run.

DRAINAGE AREA.--567 sq mi.

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 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 miles upstream at datum 4.8 ft higher. Oct. 16 to Dec. 5, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--40 years, 444 cfs (10.63 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,370 cfs Apr. 22 (gage height, 13.14 ft); minimum, 17 cfs Oct. 4, 8, Sept. 11.
Period of record: Maximum discharge, 10,100 cfs Mar. 22, 1927 (gage height, 15.0 ft, from graph based on gage readings at site and datum then in use), and Jan. 21, 1959 (gage height, 15.30 ft); minimum, 3.5 cfs Sept. 13, 1953.
Flood of March 25, 1913 reached a stage of 21.1 ft (discharge, 27,000 cfs, computed by Franklin County Conservancy District), at site and datum used 1925-32.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	22	58	1,900	170	224	372	420	426	212	50	30
2	22	20	62	2,070	162	1,130	324	381	486	214	46	29
3	19	24	68	1,330	170	2,060	279	342	378	1,560	65	28
4	19	21	58	840	224	3,020	252	294	279	1,950	123	32
5	19	21	45	708	240	2,540	238	249	220	1,760	230	26
6	20	25	50	633	200	1,270	252	220	188	1,290	160	24
7	19	25	119	510	170	630	1,040	204	168	642	101	24
8	18	21	363	435	150	525	2,110	220	150	432	74	24
9	24	22	591	408	130	465	3,410	1,600	134	324	62	22
10	48	24	453	828	120	381	3,030	3,320	127	306	54	20
11	29	24	315	1,420	100	318	1,880	4,670	110	270	48	18
12	31	23	230	1,450	100	300	1,210	3,640	99	230	43	20
13	29	24	190	975	120	381	1,890	2,350	399	190	36	21
14	37	21	198	609	200	1,070	2,980	1,600	975	164	32	294
15	33	21	784	400	411	1,580	4,240	2,300	995	148	50	597
16	29	23	1,370	360	633	1,830	3,440	3,600	828	621	41	420
17	26	22	1,520	320	618	1,810	2,730	3,400	630	582	35	249
18	23	21	1,370	300	450	1,460	3,310	1,800	447	408	72	160
19	25	25	752	276	372	915	2,830	1,360	303	279	99	125
20	23	30	456	261	315	624	4,300	820	230	238	112	101
21	22	24	375	249	255	534	5,690	573	196	194	83	96
22	23	21	339	243	210	1,320	7,220	465	174	208	99	83
23	29	23	300	312	196	1,630	7,080	381	162	166	162	65
24	27	23	252	561	160	1,240	6,120	321	150	152	148	101
25	22	22	224	609	154	768	4,740	273	138	138	99	134
26	21	21	212	474	154	579	2,710	232	129	108	69	238
27	21	25	202	285	129	501	1,300	204	116	94	61	543
28	23	34	204	260	129	468	752	182	105	83	54	708
29	29	31	198	230	140	504	582	168	108	69	45	570
30	37	53	450	210	------	477	483	184	190	62	38	1,220
31	27	------	1,350	190	------	423	------	249	------	55	32	------
TOTAL	797	736	13,158	19,656	6,582	30,977	76,794	36,022	9,040	13,149	2,423	6,022
MEAN	25.7	24.5	424	634	227	999	2,560	1,162	301	424	78.2	201
MAX	48	53	1,520	2,070	633	3,020	7,220	4,670	995	1,950	230	1,220
MIN	18	20	45	190	100	224	238	168	99	55	32	18
CFSM	.05	.04	.75	1.12	.40	1.76	4.52	2.05	.53	.75	.14	.35
IN.	.05	.05	.86	1.29	.43	2.03	5.04	2.36	.59	.86	.16	.40

CAL YR 1971 TOTAL 131,732 MEAN 361 MAX 4,430 MIN 15 CFSM .64 IN 8.64
WTR YR 1972 TOTAL 215,356 MEAN 588 MAX 7,220 MIN 18 CFSM 1.04 IN 14.13

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-9	2000	8.68	3,620	4-22	1400	13.14	7,370
4-15	0900	9.60	4,360	5-11	1100	10.14	4,790

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 miles west of Bellepoint, 1.5 miles upstream from mouth, and 2.3 miles downstream from Blues Creek.

DRAINAGE AREA.--178 sq mi.

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 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.--30 years, 146 cfs (11.14 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,120 cfs Apr. 13 (gage height, 9.81 ft); minimum, 1.8 cfs Oct. 7, 8.
Period of record: Maximum discharge, 20,300 cfs Jan. 21, 1959 (gage height, 13.85 ft), from rating curve extended above 14,000 cfs; no flow Sept. 25, 26, 1944, Sept. 19, 1948.
A stage of 18.0 ft 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	3.8	16	478	26	235	112	61	41	21	8.0	5.8
2	4.9	5.8	9.1	228	23	988	87	60	41	37	7.5	6.2
3	4.0	4.0	8.0	222	32	1,000	75	53	32	22	9.8	4.9
4	3.6	4.0	7.5	220	47	364	70	47	25	423	11	4.9
5	5.3	5.8	6.2	298	41	205	64	41	22	285	14	4.0
6	3.6	5.3	8.4	150	37	114	62	37	22	105	18	4.4
7	2.0	5.8	41	100	32	101	1,980	34	20	64	15	3.6
8	2.6	4.4	76	72	29	109	2,070	62	17	38	12	3.2
9	3.8	5.3	72	90	26	120	612	2,470	16	31	12	4.9
10	6.6	4.9	50	361	24	81	372	2,190	16	30	16	4.4
11	11	3.8	35	409	23	64	275	599	15	23	11	4.4
12	8.0	6.6	27	212	25	61	385	248	13	23	7.5	5.8
13	4.9	5.3	23	136	36	115	6,590	204	14	24	6.2	5.3
14	4.4	5.8	35	96	50	419	3,090	793	23	17	5.3	18
15	6.6	4.4	286	72	300	361	464	1,440	46	13	4.9	23
16	7.5	4.9	750	164	200	402	618	1,300	42	124	4.4	17
17	6.2	3.4	317	60	150	696	1,100	451	45	570	4.0	11
18	4.9	3.0	130	56	120	432	467	232	44	202	6.6	13
19	5.3	4.4	74	50	100	220	282	154	24	86	6.6	12
20	3.8	5.3	57	46	86	142	1,780	105	17	48	11	12
21	4.0	6.6	59	43	70	118	1,710	78	19	32	12	9.1
22	4.9	5.3	68	44	58	1,290	1,670	62	16	23	17	7.1
23	6.6	4.9	57	74	50	909	1,160	55	14	16	21	6.6
24	7.1	4.4	42	152	46	336	402	46	13	13	29	8.0
25	7.1	3.8	36	130	44	208	232	37	13	18	31	9.1
26	6.2	4.4	35	54	42	158	158	33	13	36	17	17
27	4.4	7.1	34	46	40	188	116	30	12	23	13	32
28	3.6	4.4	38	35	38	462	91	26	13	16	8.4	101
29	4.4	6.6	43	32	47	319	74	23	11	13	7.1	138
30	3.8	15	519	29	------	200	62	25	11	11	6.2	315
31	3.8	------	1,030	27	------	158	------	47	------	8.4	5.8	------
TOTAL	162.0	158.5	3,989.2	4,186	1,842	10,575	26,230	11,043	670	2,395.4	358.3	810.7
MEAN	5.23	5.28	129	135	63.5	341	874	356	22.3	77.3	11.6	27.0
MAX	11	15	1,030	478	300	1,290	6,590	2,470	46	570	31	315
MIN	2.0	3.0	6.2	27	23	61	62	23	11	8.4	4.0	3.2
CFSM	.03	.03	.72	.76	.36	1.92	4.91	2.00	.13	.43	.07	.15
IN.	.03	.03	.83	.87	.38	2.21	5.48	2.31	.14	.50	.07	.17

CAL YR 1971 TOTAL 36,728.30 MEAN 101 MAX 2,750 MIN .95 CFSM .57 IN 7.68
WTR YR 1972 TOTAL 62,420.10 MEAN 171 MAX 6,590 MIN 2.0 CFSM .96 IN 13.05

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	1000	6.84	3,090	5-9	1000	6.94	3,220
4-13	0200	9.81	8,120				

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 mile north of county line, 0.8 mile downstream from O'Shaughnessy Dam, and 3.0 miles north of Dublin.

DRAINAGE AREA.--980 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 775.00 ft above mean sea level, adjustment of 1912. Prior to Aug. 26, 1921, nonrecording gage at site 0.8 mile upstream at same datum. Aug. 26, 1921, to Oct. 13, 1924, nonrecording gage at site 100 ft downstream at same datum.

AVERAGE DISCHARGE.--51 years, 768 cfs.

EXTREMES.--Current year: Maximum discharge, 14,800 cfs Apr. 13 (gage height, 11.79 ft); minimum, 4.2 cfs Nov. 20.
Period of record: Maximum discharge, 55,200 cfs Jan. 22, 1959 (gage height, 22.04 ft, from floodmark); minimum, 0.4 cfs Nov. 8, 1924.
Flood of March 25, 1913 reached a stage of 24.6 ft (discharge, 74,500 cfs at Griggs Dam, 9 miles downstream from gage, computed by C. E. Sherman, Ohio State University).

REMARKS.--Records good. Flow regulated since 1924 by O'Shaughnessy Reservoir 0.8 mile 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	75	75	3,140	280	506	677	636	406	247	112	92
2	21	75	75	2,760	270	2,670	570	571	556	326	110	95
3	20	75	78	2,160	290	4,500	497	518	515	1,040	108	93
4	21	73	78	1,580	247	4,110	465	456	418	3,780	114	83
5	34	73	78	1,440	251	3,520	416	403	324	3,650	119	80
6	78	70	84	1,170	267	2,080	426	359	285	2,090	218	77
7	75	68	81	856	215	1,140	4,570	340	248	1,240	197	75
8	73	114	90	684	190	860	6,500	421	221	715	147	73
9	75	135	93	625	182	748	5,390	5,530	223	504	142	70
10	75	132	312	1,330	162	628	4,370	7,630	228	426	115	66
11	73	139	430	2,390	157	503	3,010	6,900	134	397	106	65
12	73	105	330	2,140	152	479	2,070	4,900	150	369	102	68
13	70	78	265	1,630	237	550	11,600	2,920	194	324	98	66
14	68	78	294	1,030	382	1,550	8,830	2,640	1,010	256	95	66
15	68	78	946	584	676	2,440	5,500	4,810	1,570	240	91	287
16	68	45	2,720	339	1,100	2,800	5,090	7,140	1,240	779	85	514
17	68	5.2	2,420	405	1,190	3,630	5,380	6,190	1,010	2,150	84	356
18	68	5.2	1,860	420	916	2,770	4,440	4,560	729	1,300	93	259
19	70	5.8	1,240	426	694	1,780	3,840	2,710	482	684	115	201
20	70	5.8	700	411	413	1,160	7,890	1,460	365	477	143	156
21	70	9.9	530	394	472	903	10,200	940	317	384	146	142
22	73	16	475	386	389	3,540	12,500	699	269	300	137	138
23	73	16	440	446	303	4,130	11,700	573	233	279	420	104
24	75	53	385	712	305	2,420	8,620	490	204	241	400	109
25	75	78	335	947	271	1,550	6,880	423	205	232	299	131
26	75	78	317	737	263	1,100	3,800	363	197	201	207	198
27	78	78	299	483	239	977	2,070	324	184	193	163	445
28	78	78	303	374	226	1,350	1,280	288	168	160	135	730
29	75	78	312	349	257	1,270	933	266	163	140	120	900
30	75	78	1,270	324	------	1,000	741	275	175	125	104	1,700
31	75	------	3,400	281	------	811	------	323	------	115	95	------
TOTAL	2,012	1,997.9	20,315	30,953	10,996	57,475	140,255	66,058	12,423	23,364	4,620	7,439
MEAN	64.9	66.6	655	998	379	1,854	4,675	2,131	414	754	149	248
MAX	78	139	3,400	3,140	1,190	4,500	12,500	7,630	1,570	3,780	420	1,700
MIN	20	5.2	75	281	152	479	416	266	134	115	84	65

CAL YR 1971 TOTAL 222,636.9 MEAN 610 MAX 10,800 MIN 5.2
WTR YR 1972 TOTAL 377,907.9 MEAN 1,033 MAX 12,500 MIN 5.2

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 downstream from bridge on State Highway 95, 0.5 mile east of Claridon, 0.8 mile downstream from Otter Creek, and 1.4 miles upstream from Beaver Run.

DRAINAGE AREA.--157 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 961.72 ft above mean sea level. (Levels by Corps of Engineers). Prior to Aug. 18, 1969 water-stage recorder at site 1,000 ft upstream at same datum.

AVERAGE DISCHARGE.--26 years, 145 cfs (12.54 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,100 cfs Apr. 20 (gage height, 11.81 ft); minimum, 2.5 cfs Oct. 6, 7, 8, 9.
Period of record: Maximum discharge, 14,900 cfs Jan. 22, 1959 (gage height, 16.77 ft), from rating curve extended above 4,700 cfs on basis of contracted-opening measurement of peak flow; no flow Oct. 2-26, 1953, Sept. 14-22, 1955.

REMARKS.--Records good except those for January and February, which are fair. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	5.8	49	474	33	219	85	100	162	161	16	16
2	4.8	6.3	31	239	31	740	78	95	112	61	15	13
3	4.3	6.6	22	209	38	822	71	89	81	294	17	13
4	3.4	6.7	16	182	78	444	69	81	62	500	17	14
5	3.2	6.1	16	190	89	245	66	69	51	288	15	14
6	2.8	7.3	19	150	54	152	64	60	44	149	14	15
7	2.5	7.1	104	130	44	135	356	55	40	93	13	13
8	2.5	6.5	248	100	40	174	504	71	35	70	13	12
9	3.6	6.5	200	141	36	197	255	933	32	68	12	11
10	9.0	6.9	112	480	32	120	197	1,160	29	81	13	10
11	19	7.1	83	456	29	107	172	610	26	72	12	9.8
12	16	6.9	70	255	27	107	142	257	24	60	12	9.6
13	9.8	6.8	62	120	30	269	921	175	95	183	11	9.6
14	8.9	6.7	60	84	60	663	1,100	261	512	204	10	288
15	8.7	6.7	406	70	261	576	536	993	416	119	13	426
16	8.8	6.7	501	62	526	590	369	1,080	188	198	12	248
17	9.8	6.5	240	58	410	834	756	540	125	267	90	118
18	7.8	6.4	129	54	270	498	494	285	86	136	188	70
19	6.4	6.8	92	62	250	269	266	192	67	108	267	65
20	5.1	8.1	79	58	170	191	1,770	143	55	125	157	54
21	3.8	10	87	54	130	163	3,650	117	48	91	96	43
22	4.6	12	91	70	105	735	2,270	96	44	56	45	31
23	4.2	8.1	75	140	119	951	1,500	81	41	42	48	26
24	4.7	8.8	60	182	89	488	804	69	38	87	90	35
25	4.7	8.2	52	110	73	261	368	60	36	67	82	41
26	7.1	7.8	48	70	68	194	266	52	34	40	48	94
27	8.0	8.8	49	54	67	159	203	46	36	31	39	371
28	7.6	10	57	46	74	138	158	42	35	27	32	444
29	6.8	14	59	40	96	118	131	39	30	24	28	330
30	6.0	34	275	37	------	104	111	46	93	21	21	750
31	6.2	------	723	35	------	91	------	126	------	18	18	------
TOTAL	205.6	256.2	4,115	4,412	3,329	10,754	17,732	8,023	2,677	3,741	1,464	3,594.0
MEAN	6.63	8.54	133	142	115	347	591	259	89.2	121	47.2	120
MAX	19	34	723	480	526	951	3,650	1,160	512	500	267	750
MIN	2.5	5.8	16	35	27	91	64	39	24	18	10	9.6
CFSM	.04	.05	.85	.90	.73	2.21	3.76	1.65	.57	.77	.30	.76
IN.	.05	.06	.98	1.05	.79	2.55	4.20	1.90	.63	.89	.35	.85

CAL YR 1971 TOTAL 41,109.0 MEAN 113 MAX 1,820 MIN 2.5 CFSM .72 IN 9.74
WTR YR 1972 TOTAL 60,302.8 MEAN 165 MAX 3,650 MIN 2.5 CFSM 1.05 IN 14.29

PEAK DISCHARGE (BASE, 1,500 CFS).--Apr. 20 (2130) 4,100 cfs (11.81 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 upstream from unnamed right bank tributary, 800 ft upstream from bridge on State Highway 746, 0.6 mile downstream from Shaw Creek, and 3.2 miles north of Ashley.

DRAINAGE AREA.--98.7 sq mi.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft above mean sea level, (levels by Corps of Engineers).

AVERAGE DISCHARGE.--18 years, 93.4 cfs (12.85 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,920 cfs Apr. 20 (gage height, 8.85 ft); minimum, 2.3 cfs Oct. 7, 8.
Period of record: Maximum discharge, 19,100 cfs Jan. 21, 1959 (gage height, 14.34 ft), from rating curve extended above 3,900 cfs 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 except those for January and February 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.4	22	145	18	221	56	57	48	63	25	25
2	3.8	4.7	11	105	17	666	53	68	40	35	23	22
3	3.4	6.7	7.6	98	31	384	49	55	30	758	34	25
4	3.1	5.7	6.6	100	58	187	50	50	25	691	26	29
5	2.8	4.9	6.2	130	76	128	45	45	21	205	21	23
6	2.5	4.9	8.7	84	28	90	43	38	19	118	18	20
7	2.4	5.4	41	70	24	72	438	32	19	78	18	17
8	2.4	5.5	82	56	22	229	319	53	17	60	18	16
9	3.3	5.4	42	56	20	139	141	1,040	15	50	17	15
10	6.9	5.4	25	287	19	102	114	637	14	118	16	13
11	7.0	5.4	20	165	18	78	97	204	12	118	15	13
12	6.5	5.4	18	99	17	83	79	131	12	99	13	13
13	5.7	5.5	14	64	19	135	792	104	84	256	13	13
14	5.1	5.5	37	50	28	305	500	242	189	110	12	809
15	4.7	6.2	349	40	188	230	167	473	98	68	22	604
16	4.8	5.3	181	34	250	477	193	307	59	1,600	19	184
17	4.4	4.9	71	30	147	624	466	168	41	1,230	430	102
18	4.1	5.0	42	28	159	243	179	119	30	331	618	82
19	3.3	5.7	28	36	128	153	113	91	24	250	843	101
20	3.4	7.9	28	35	85	119	2,160	72	21	324	272	66
21	3.2	6.8	34	33	62	105	1,070	62	19	136	111	47
22	2.8	6.7	34	35	50	676	1,020	53	19	101	75	37
23	3.6	5.5	24	61	44	528	530	44	19	84	148	35
24	5.0	5.4	21	79	42	195	207	39	19	161	213	92
25	5.5	5.7	19	62	40	141	142	34	18	133	118	69
26	5.7	5.4	18	46	72	111	107	29	22	76	83	190
27	6.4	6.4	22	36	71	98	85	25	22	57	88	386
28	5.1	8.6	30	30	65	87	72	23	20	48	67	253
29	4.8	9.5	29	25	105	73	64	22	17	39	49	200
30	4.8	20	343	21	------	67	54	25	109	33	37	1,080
31	4.8	------	541	19	------	60	------	39	------	28	30	------
TOTAL	135.8	189.8	2,155.1	2,159	1,903	6,806	9,405	4,381	1,102	7,458	3,492	4,581
MEAN	4.38	6.33	69.5	69.6	65.6	220	314	141	36.7	241	113	153
MAX	7.0	20	541	287	250	676	2,160	1,040	189	1,600	843	1,080
MIN	2.4	4.4	6.2	19	17	60	43	22	12	28	12	13
CFSM	.04	.06	.70	.71	.66	2.23	3.18	1.43	.37	2.44	1.14	1.55
IN.	.05	.07	.81	.81	.72	2.57	3.54	1.65	.42	2.81	1.32	1.73

CAL YR 1971 TOTAL 21,534.9 MEAN 59.0 MAX 1,340 MIN 1.9 CFSM .60 IN 8.12
WTR YR 1972 TOTAL 43,767.7 MEAN 120 MAX 2,160 MIN 2.4 CFSM 1.22 IN 16.50

PEAK DISCHARGE (BASE, 1,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	2100	8.85	3,920	7-16	1700	7.40	2,420

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 1,000 ft downstream from Delaware Dam, 500 ft upstream from highway bridge, 1,300 ft upstream from Norfolk and Western Railway bridge, and 4.0 miles north of Delaware.

DRAINAGE AREA.--393 sq mi.

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 above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1950, water-stage recorder at site 500 ft downstream at datum 76.7 ft higher.

AVERAGE DISCHARGE.--45 years, 339 cfs.

EXTREMES.--Current year: Maximum discharge, 4,110 cfs Apr. 29 (gage height, 86.54 ft); minimum, 8.8 cfs Apr. 1 (gage height, 79.63 ft).
Period of record: Maximum discharge, 14,100 cfs Mar. 21, 1927 (gage height, 16.9 ft, site and datum then in use); minimum, 0.1 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	122	1,640	100	438	96	806	237	387	43	69
2	20	20	89	770	85	1,420	12	259	264	220	43	69
3	20	20	78	445	87	2,080	12	259	206	1,620	43	50
4	20	21	76	452	85	1,650	11	259	177	1,850	43	39
5	20	21	76	589	85	858	13	177	122	1,860	43	39
6	20	21	74	468	82	575	13	148	98	1,230	43	39
7	20	21	73	355	164	329	317	148	64	329	43	39
8	20	21	118	287	152	287	1,290	168	49	259	43	39
9	20	21	434	242	80	460	851	168	49	259	43	39
10	20	21	374	886	59	520	565	41	49	196	43	39
11	20	21	174	1,310	57	329	493	511	49	231	43	39
12	20	20	102	758	57	168	493	3,160	49	259	43	39
13	20	20	67	415	60	215	1,300	3,910	50	468	43	39
14	20	20	67	299	156	1,010	2,600	2,860	669	438	43	509
15	20	182	261	177	453	1,440	2,060	556	1,170	259	43	1,930
16	20	156	1,090	136	790	1,450	1,540	21	565	1,450	43	1,540
17	20	73	740	136	837	2,100	1,450	914	270	1,910	45	531
18	20	73	215	136	774	1,900	1,640	2,880	206	2,220	790	275
19	20	156	113	136	632	1,050	1,310	2,860	140	1,990	1,430	275
20	20	311	113	136	368	547	430	1,420	65	1,020	1,490	275
21	20	160	113	136	248	475	57	259	110	430	394	197
22	20	129	113	136	342	1,360	93	259	132	374	422	96
23	20	86	122	226	287	2,500	156	259	132	348	609	64
24	20	76	132	415	177	2,060	2,470	177	85	242	858	64
25	20	80	132	342	144	928	3,880	100	44	248	487	126
26	20	80	132	281	144	520	3,880	85	35	270	206	206
27	20	78	122	186	144	453	3,920	85	35	270	206	936
28	20	78	113	140	186	453	3,960	82	35	191	201	1,390
29	20	78	113	140	210	329	3,970	82	35	98	111	1,190
30	20	110	272	140	------	275	2,900	82	275	45	69	1,310
31	20	------	1,490	140	------	270	------	148	------	45	69	------
TOTAL	620	2,194	7,310	12,055	7,045	28,449	41,782	23,143	5,466	21,016	8,075	11,492
MEAN	20.0	73.1	236	389	243	918	1,393	747	182	678	260	383
MAX	20	311	1,490	1,640	837	2,500	3,970	3,910	1,170	2,220	1,490	1,930
MIN	20	20	67	136	57	168	11	21	35	45	43	39

CAL YR 1971 TOTAL 89,971 MEAN 246 MAX 3,900 MIN 10
WTR YR 1972 TOTAL 168,647 MEAN 461 MAX 3,970 MIN 11

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 downstream from Interstate Highway 270 bridge, 1.5 miles northwest of Worthington and 2.8 miles upstream from Rush Run.

DRAINAGE AREA.--497 sq mi.

RECORDS AVAILABLE.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 743.20 ft above mean sea level.

AVERAGE DISCHARGE.--17 years, 420 cfs.

EXTREMES.--Current year: Maximum discharge, 8,140 cfs Apr. 13 (gage height, 9.53 ft); minimum, 17 cfs Oct. 7.
Period of record: Maximum discharge, 16,500 cfs Jan. 21, 1959 (gage height, 15.68 ft, from high-water mark in well); minimum, 7.6 cfs Oct. 8, 9, 1964.
REVISIONS.--The maximum discharge for the water year 1971 has been revised to 5,070 cfs Feb. 22; maximum gage height, 7.78 ft Feb. 6 (backwater from ice jam) superseding figures published in WRD Ohio 1971.
Flood in January 1952 reached a stage of 15.3 ft (discharge, 15,100 cfs), from information by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Delaware Lake 21 miles 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	24	146	1,880	190	399	292	1,070	235	393	55	85
2	24	24	149	1,110	122	1,710	92	309	253	258	54	80
3	21	31	103	611	149	2,170	71	292	210	783	61	80
4	20	23	96	604	125	1,900	69	277	183	2,340	55	65
5	19	21	94	698	119	1,070	63	235	139	1,660	51	55
6	19	22	103	683	125	625	58	168	108	1,500	49	52
7	19	25	222	460	125	525	1,830	165	92	493	49	51
8	20	26	193	417	249	330	1,630	1,030	61	282	49	51
9	23	24	310	336	152	436	1,140	2,830	61	277	57	51
10	37	24	590	708	87	545	791	577	60	263	54	49
11	26	24	344	1,370	89	480	618	597	61	197	49	48
12	22	23	175	981	87	268	584	3,290	61	309	48	60
13	21	24	127	499	186	263	3,420	4,370	82	393	48	57
14	22	24	184	423	303	713	3,030	3,290	783	558	48	130
15	23	26	375	350	551	1,470	2,480	936	1,120	292	48	1,630
16	22	231	1,030	250	1,070	1,700	2,130	231	387	972	46	1,730
17	24	105	1,410	200	875	2,280	1,690	909	277	1,860	51	735
18	22	85	477	244	866	2,290	1,700	3,100	205	2,220	990	282
19	21	85	179	226	668	1,290	1,620	2,850	161	2,160	1,510	277
20	21	336	172	183	571	646	2,130	1,240	78	1,210	1,520	273
21	21	186	175	168	282	584	590	292	101	538	532	258
22	24	168	172	158	303	1,580	1,040	277	130	382	743	165
23	27	130	168	214	370	2,680	473	268	130	382	1,240	85
24	31	77	183	399	253	2,550	1,880	205	130	309	1,130	92
25	29	80	186	473	168	1,150	4,050	136	80	231	807	85
26	26	89	190	292	172	653	4,170	106	55	253	341	210
27	25	98	190	282	165	564	4,180	101	42	263	314	653
28	24	106	183	525	172	597	4,150	98	40	253	249	1,350
29	23	111	172	282	235	506	4,080	101	43	161	210	1,340
30	23	133	399	222	------	347	3,420	139	55	78	103	2,350
31	23	------	1,510	179	------	330	------	161	------	57	89	------
TOTAL	728	2,385	10,007	15,427	8,829	32,651	53,471	29,650	5,423	21,327	10,650	12,429
MEAN	23.5	79.5	323	498	304	1,053	1,782	956	181	688	344	414
MAX	37	336	1,510	1,880	1,070	2,680	4,180	4,370	1,120	2,340	1,520	2,350
MIN	19	21	94	158	87	263	58	98	40	57	46	48

CAL YR 1971 TOTAL 102,539 MEAN 281 MAX 3,780 MIN 13
WTR YR 1972 TOTAL 202,977 MEAN 555 MAX 4,370 MIN 19

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 miles downstream from bridge on Frank Road, 2.8 miles upstream from Scioto Big Run, and 5 miles downstream from Olentangy River.

DRAINAGE AREA.--1,629 sq mi.

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 above mean sea level. Prior to Oct. 1, 1924, non-recording gage at site 200 ft upstream at same datum.

AVERAGE DISCHARGE.--52 years, 1,347 cfs.

EXTREMES.--Current year: Maximum discharge, 16,900 cfs Apr. 13 (gage height, 18.69 ft); minimum, 95 cfs Nov. 25.
Period of record: Maximum discharge, 68,200 cfs Jan. 22, 1959 (gage height, 27.22 ft), from high-water mark in well, from rating curve extended above 46,000 cfs; minimum, 42 cfs Sept. 6, 1930.
Flood of Mar. 25, 1913 reached a stage of 25.9 ft (discharge, 138,000 cfs, estimated by Franklin County Conservancy District).

REMARKS.--Records good. Flow regulated by O'Shaughnessy Reservoir 20.4 miles upstream (see station 03220500), Griggs Reservoir 10.4 miles upstream (see station 03221500), and Delaware Lake 35 miles 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 below 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	155	252	5,540	562	864	1,290	2,970	704	574	257	268
2	170	225	274	4,420	550	3,630	998	1,350	906	878	241	252
3	150	185	252	3,390	724	6,380	815	1,240	983	913	285	323
4	165	170	210	2,740	645	6,290	766	990	829	5,420	279	285
5	165	160	190	2,640	472	5,150	671	885	684	5,280	195	252
6	155	180	671	2,390	544	3,370	645	745	568	4,510	241	241
7	140	195	948	1,750	508	2,370	5,950	678	508	2,500	600	235
8	145	165	710	1,420	484	1,620	8,150	1,700	442	1,410	362	252
9	195	180	478	1,330	478	1,400	7,040	9,770	430	1,180	514	246
10	215	185	871	1,740	395	1,500	5,500	9,000	600	1,220	307	239
11	170	170	948	3,730	351	1,330	4,210	7,840	351	836	268	252
12	140	170	684	3,730	362	998	3,220	7,110	312	801	257	526
13	175	150	532	2,650	878	962	11,600	8,150	526	983	257	384
14	252	145	899	1,970	1,030	1,670	11,700	7,760	724	1,020	257	329
15	165	155	1,490	1,220	1,350	3,910	8,620	6,570	2,660	864	241	1,310
16	160	246	3,150	759	2,030	4,430	8,010	6,850	2,800	1,010	246	2,710
17	135	334	4,520	652	2,400	5,980	7,660	6,800	1,580	4,000	246	1,750
18	160	215	2,840	808	2,270	5,780	6,550	6,850	1,290	3,930	2,170	913
19	165	257	1,990	801	1,810	3,880	5,940	6,830	962	3,590	2,250	717
20	165	301	1,410	773	1,400	2,450	8,610	4,530	724	2,520	1,900	639
21	165	424	1,010	745	976	1,930	10,200	2,070	562	1,400	1,170	600
22	190	279	857	731	885	4,090	12,500	1,340	526	899	843	556
23	220	263	794	808	892	7,080	11,800	1,140	532	794	2,180	430
24	230	235	766	1,090	766	5,800	9,950	1,010	484	724	2,160	773
25	185	160	697	1,630	639	3,620	10,200	822	454	745	1,620	600
26	180	175	678	1,340	600	2,320	8,580	665	418	587	878	1,210
27	170	268	671	1,050	550	1,960	6,760	580	362	580	652	1,190
28	165	200	678	780	544	2,170	5,660	526	334	562	544	2,410
29	175	389	600	665	600	2,260	5,290	514	466	448	472	2,840
30	155	329	2,630	632	------	1,750	4,840	927	418	351	378	4,780
31	140	------	4,590	587	------	1,460	------	691	------	268	263	------
TOTAL	5,342	6,665	37,290	54,511	25,695	98,404	193,725	108,903	23,139	50,797	22,533	27,503
MEAN	172	222	1,203	1,758	886	3,174	6,458	3,513	771	1,639	727	917
MAX	252	424	4,590	5,540	2,400	7,080	12,500	9,770	2,800	5,420	2,250	4,780
MIN	135	145	190	587	351	864	645	514	312	268	195	230
CFSM	.11	.14	.74	1.08	.54	1.95	3.96	2.16	.47	1.01	.45	.56
IN.	.12	.15	.85	1.24	.59	2.25	4.42	2.49	.53	1.16	.51	.63

CAL YR 1971 TOTAL 389,468 MEAN 1,067 MAX 14,200 MIN 125 CFSM .66 IN 8.89
WTR YR 1972 TOTAL 654,507 MEAN 1,788 MAX 12,500 MIN 135 CFSM 1.10 IN 14.95

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 left bank at upstream side of county road bridge, 0.2 mile east of Central College, 0.4 mile downstream from Hoover Dam, and 3 miles southeast of Westerville.

DRAINAGE AREA.--190 sq mi.

PERIOD OF RECORD.--July 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.16 ft above mean sea level.

AVERAGE DISCHARGE.--34 years, 176 cfs.

EXTREMES.--Current year: Maximum discharge, 8,200 cfs Apr. 13 (gage height, 13.42 ft); minimum daily discharge, 70 cfs Dec. 26.
Period of record: Maximum discharge, 23,800 cfs Jan. 21, 1959 (gage height, 19.75 ft), from rating curve extended above 7,200 cfs 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 mile 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	104	84	84	98	81	84	102	111	96	126	112
2	95	95	86	81	95	146	81	109	107	89	112	101
3	93	93	95	102	95	107	98	155	107	86	102	87
4	112	96	89	92	86	90	102	141	104	90	105	96
5	105	98	98	89	96	74	99	114	119	98	111	107
6	107	90	96	86	87	81	95	104	114	99	105	102
7	96	80	87	101	102	95	1,300	109	109	102	116	95
8	96	95	81	95	96	76	1,120	248	121	89	96	105
9	92	95	90	90	96	90	434	2,810	126	90	114	98
10	86	101	90	92	98	95	329	2,190	98	142	96	99
11	96	93	89	101	99	89	278	464	93	104	104	112
12	99	111	86	95	92	83	177	250	114	98	102	105
13	96	90	90	90	83	84	4,890	260	104	101	135	102
14	93	87	96	99	98	79	1,520	1,580	102	109	109	104
15	98	99	84	102	87	84	844	380	95	98	111	99
16	93	99	96	155	86	76	195	425	99	86	121	99
17	89	90	87	105	87	123	213	211	98	114	119	99
18	98	96	90	112	86	119	263	161	95	102	183	98
19	102	89	77	109	80	76	362	150	112	117	169	132
20	96	84	99	89	86	89	2,360	128	102	105	90	139
21	98	74	104	84	93	89	2,380	111	101	116	86	141
22	105	101	84	104	92	77	1,150	133	92	111	98	111
23	93	81	84	86	89	80	233	130	93	105	90	95
24	83	87	86	102	89	80	353	133	87	116	111	132
25	102	76	81	95	89	83	268	126	92	139	114	142
26	95	89	70	99	83	79	124	132	104	102	105	203
27	107	76	84	95	81	89	132	123	116	102	93	189
28	96	86	93	87	99	90	111	102	99	109	109	139
29	102	98	89	111	93	83	102	105	101	102	111	151
30	87	87	177	89	------	83	109	105	102	101	105	223
31	86	------	137	99	------	93	------	155	------	124	107	------
TOTAL	3,008	2,740	2,879	3,020	2,641	2,763	19,806	11,446	3,117	3,242	3,455	3,617
MEAN	97.0	91.3	92.9	97.4	91.1	89.1	660	369	104	105	111	121
MAX	112	111	177	155	102	146	4,890	2,810	126	142	183	223
MIN	83	74	70	81	80	74	81	102	87	86	86	87

CAL YR 1971 TOTAL 42,744 MEAN 117 MAX 1,310 MIN 70
WTR YR 1972 TOTAL 61,734 MEAN 169 MAX 4,890 MIN 70

03228805 Alum Creek at Africa, Ohio

LOCATION.--Lat 40°10'56", long 82°57'42", in SE 1/4 sec.1, T.3 N., R.18 W., Delaware County, on left bank at downstream side of bridge on Orange Township Road 109, 0.3 mile west of Africa, 0.3 mile downstream from outlet of Alum Creek dam, 1.4 miles downstream from Williams Lake outlet, 2.7 miles upstream from Westerville Reservoir outlet, and 4.2 miles northwest of Westerville.

DRAINAGE AREA.--122 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1962. June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 817.28 ft above mean sea level.

AVERAGE DISCHARGE.--9 years, 115 cfs (12.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,310 cfs Apr. 13 (gage height, 12.24 ft); minimum, 0.28 cfs Oct. 7.
Period of record: Maximum discharge, 6,160 cfs Mar. 10, 1964 (gage height, 13.95 ft, from graph based on gage readings); no flow at times 1963-65.
Flood of Mar. 5, 1963 reached a stage of 14.2 ft, from floodmarks (discharge, 6,460 cfs).

REMARKS.--Records good. Flow partially regulated by unfinished Alum Creek Dam, 1,360 ft upstream from gage. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.2	26	602	13	263	62	51	40	9.4	7.6	25
2	2.6	3.0	12	166	15	856	55	54	34	8.2	7.0	20
3	2.6	3.0	8.8	164	35	630	51	73	25	7.9	7.3	18
4	2.2	2.6	7.3	166	46	250	51	49	21	353	11	17
5	1.1	2.4	6.4	280	37	138	43	41	17	204	8.2	18
6	.74	2.8	31	110	28	85	44	35	15	78	7.3	15
7	.48	3.3	118	84	25	85	1,850	32	14	47	6.1	12
8	.37	4.3	112	66	20	184	776	467	13	31	5.8	10
9	1.1	2.8	56	118	17	109	290	3,070	12	25	8.2	9.4
10	1.3	2.6	37	343	14	93	216	908	10	20	6.1	8.8
11	1.1	3.0	29	218	14	62	158	283	9.4	15	4.8	8.2
12	4.8	3.5	22	120	15	66	130	153	8.5	18	4.5	7.3
13	4.5	6.4	18	88	60	155	3,030	152	12	14	3.5	8.8
14	4.0	4.5	72	65	148	398	620	655	47	32	3.3	182
15	3.3	3.3	300	32	303	270	263	623	64	26	2.4	936
16	2.6	2.8	238	26	390	358	482	308	46	155	1.0	479
17	2.4	2.6	97	24	273	800	521	170	22	916	13	111
18	2.0	2.6	57	26	248	400	218	109	17	288	816	68
19	1.8	3.0	37	35	224	182	246	79	13	117	1,080	60
20	1.6	3.3	47	34	132	124	2,260	62	12	132	551	45
21	1.3	3.5	49	34	115	114	1,280	53	11	64	152	34
22	1.3	3.8	43	34	83	676	1,270	44	11	79	220	28
23	1.3	4.0	29	73	62	748	554	38	11	62	700	21
24	1.6	3.5	31	120	53	230	265	33	12	34	772	22
25	2.0	3.5	25	93	46	148	164	28	12	28	275	30
26	2.6	3.3	25	36	48	109	112	23	11	25	180	47
27	2.6	4.0	29	30	61	126	85	21	11	20	355	300
28	2.4	4.8	39	26	61	143	69	19	11	18	150	298
29	2.4	12	41	20	92	102	60	18	12	14	77	232
30	2.4	25	345	16	------	86	53	26	8.8	11	47	956
31	2.2	------	784	14	------	69	------	39	------	9.1	32	------
TOTAL	65.49	131.4	2,771.5	3,263	2,678	8,059	15,278	7,716	562.7	2,860.6	5,514.1	4,026.5
MEAN	2.11	4.38	89.4	105	92.3	260	509	249	18.8	92.3	178	134
MAX	4.8	25	784	602	390	856	3,030	3,070	64	916	1,080	956
MIN	.37	2.2	6.4	14	13	62	43	18	8.5	7.9	1.0	7.3
CFSM	.02	.04	.73	.86	.76	2.13	4.17	2.04	.15	.76	1.46	1.10
IN.	.02	.04	.85	.99	.82	2.46	4.66	2.35	.17	.87	1.68	1.23

CAL YR 1971 TOTAL 23,796.54 MEAN 65.2 MAX 1,970 MIN .37 CFSM .53 IN 7.26
WTR YR 1972 TOTAL 52,926.29 MEAN 145 MAX 3,070 MIN .37 CFSM 1.19 IN 16.14

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-31	2400	9.31	2,090	4-20	1130	11.68	3,800
4- 7	0900	10.71	3,000	5- 8	2330	11.89	3,990
4-13	0230	12.24	4,310				

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 mile downstream from Livingston Avenue Bridge in Columbus, and 6 miles upstream from mouth.

DRAINAGE AREA.--189 sq mi.

PERIOD OF RECORD.--July 1923 to December 1935, January 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 733.69 ft above mean sea level.

AVERAGE DISCHARGE.--46 years, 164 cfs (11.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,860 cfs May 9 (gage height, 10.80 ft); minimum, 7.5 cfs Oct. 8, 9.
Period of record: Maximum discharge, 26,400 cfs Jan. 22, 1959 (gage height, 19.59 ft, from high-water mark in well), from rating curve extended above 17,000 cfs on basis of contracted-opening measurement of peak flow; no flow Sept. 21-29, 1959.

REMARKS.--Records good. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	32	991	28	390	106	76	68	21	21	52
2	11	27	30	310	28	1,320	97	94	59	52	19	39
3	11	21	19	289	138	984	86	141	52	39	20	50
4	10	12	14	260	113	416	89	89	40	138	24	37
5	10	11	13	443	66	245	78	70	35	293	21	30
6	9.5	15	149	264	52	141	70	61	31	106	21	30
7	8.5	27	302	130	52	145	2,200	54	28	66	61	27
8	7.5	15	227	110	37	260	1,870	579	27	54	31	25
9	16	12	120	130	37	222	507	5,420	75	59	52	24
10	34	14	84	400	27	128	332	2,500	46	92	21	20
11	13	14	72	395	25	109	256	579	23	37	16	20
12	11	13	51	237	100	103	203	293	21	27	14	73
13	11	14	41	150	301	161	3,260	314	61	46	12	48
14	28	12	198	100	380	471	1,700	1,050	46	28	12	30
15	14	14	422	70	489	405	449	903	81	50	11	585
16	13	13	369	50	410	465	795	591	103	75	9.7	705
17	12	12	178	44	323	1,060	639	289	52	579	40	154
18	11	10	105	48	323	741	319	193	35	585	1,400	89
19	11	18	74	57	233	301	1,370	138	30	276	1,560	73
20	11	18	100	61	168	196	3,300	109	25	141	759	63
21	11	15	98	54	131	175	2,000	92	24	103	249	52
22	16	14	79	75	103	825	1,900	81	23	66	253	46
23	25	12	63	151	75	1,150	900	66	24	86	921	37
24	22	12	51	179	84	483	420	57	23	59	885	182
25	19	13	50	116	70	249	240	50	23	94	438	158
26	14	13	47	52	73	186	180	46	25	46	233	370
27	11	27	58	44	78	203	130	42	23	37	355	337
28	12	24	78	38	92	256	110	39	23	31	245	400
29	13	60	75	33	119	193	90	44	39	28	125	380
30	14	54	850	30	------	158	80	168	33	27	81	1,710
31	14	------	945	29	------	122	------	89	------	24	57	------
TOTAL	436.5	549	4,994	5,340	4,155	12,263	23,776	14,317	1,198	3,365	7,966.7	5,846
MEAN	14.1	18.3	161	172	143	396	793	462	39.9	109	257	195
MAX	34	60	945	991	489	1,320	3,300	5,420	103	585	1,560	1,710
MIN	7.5	10	13	29	25	103	70	39	21	21	9.7	20
CFSM	.07	.10	.85	.91	.76	2.10	4.20	2.44	.21	.58	1.36	1.03
IN.	.09	.11	.98	1.05	.82	2.41	4.68	2.82	.24	.66	1.57	1.15

CAL YR 1971 TOTAL 41,310.5 MEAN 113 MAX 3,010 MIN 7.0 CFSM .60 IN 8.13
WTR YR 1972 TOTAL 84,206.2 MEAN 230 MAX 5,420 MIN 7.5 CFSM 1.22 IN 16.57

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	2045	7.61	3,730	5- 9	1630	10.80	6,860
4-13	1815	9.42	5,320	8-18	0100	6.96	3,210
4-19	0715	7.55	3,680				

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 mile southwest of Rees, 4.2 miles downstream from Alum Creek, and 10.5 miles upstream from mouth.

DRAINAGE AREA.--544 sq mi.

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 above mean sea level. Aug. 18, 1921, to Oct. 23, 1927, nonrecording gage at site 0.3 mile upstream at datum 2.00 ft higher prior to Oct. 1, 1924, at present datum thereafter.

AVERAGE DISCHARGE.--48 years, 491 cfs (12.26 inches per year) (adjusted for diversion).

EXTREMES.--Current year: Maximum discharge, 11,100 cfs May 9 (gage height, 14.15 ft); minimum, 34 cfs Oct. 8.
Period of record: Maximum discharge, 59,800 cfs Jan. 22, 1959 (gage height, 22.03 ft, from high-water mark in well), from rating curve extended above 13,000 cfs on basis of contracted-opening measurement of peak flow; minimum, 5 cfs Sept. 4, 5, 10-12, 1925.
Flood of Mar. 25, 1913 reached a stage of 20.5 ft, present datum, at site 0.3 mile upstream.

REMARKS.--Records good. Since September 1954, flow regulated by Hoover Reservoir 26 miles upstream (see station 03228400). Beginning June 15, 1956, diversion at Morse Road Treatment Plant, 21 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	37	111	1,260	100	408	254	218	297	110	55	130
2	53	36	87	640	95	1,500	230	223	198	94	55	128
3	45	63	70	620	162	1,620	208	325	160	632	62	152
4	41	44	56	516	236	860	215	297	134	230	71	140
5	40	41	50	800	168	564	198	220	114	516	52	101
6	38	42	380	548	168	350	176	170	104	248	48	92
7	36	70	930	346	134	304	2,360	156	100	156	180	85
8	35	61	696	294	109	568	4,590	672	94	120	109	81
9	37	48	355	329	100	488	1,360	7,410	91	146	195	86
10	96	48	248	750	86	301	855	7,600	464	284	103	74
11	67	45	206	676	83	248	680	2,160	120	223	67	67
12	49	40	159	456	86	230	548	785	91	158	51	178
13	43	41	131	336	460	275	4,010	680	126	124	46	242
14	74	42	369	287	700	580	6,150	2,920	205	103	42	109
15	68	38	955	193	970	624	2,400	2,190	172	98	52	476
16	50	40	763	140	1,010	628	1,380	1,580	424	239	48	925
17	56	38	425	142	684	1,570	1,860	810	193	512	41	301
18	46	36	275	144	596	1,240	875	536	124	885	1,940	170
19	43	41	195	160	568	600	700	400	100	357	2,800	142
20	39	65	260	170	357	408	2,730	329	89	412	1,470	117
21	36	48	299	176	304	339	5,280	275	82	228	608	109
22	38	40	236	174	266	1,020	4,540	230	76	193	432	136
23	63	37	183	230	205	1,580	1,790	200	74	239	1,970	107
24	70	36	151	332	200	805	965	178	75	150	1,620	322
25	67	37	139	325	185	488	795	158	72	180	1,380	424
26	53	38	131	220	190	376	508	138	72	134	584	1,880
27	44	46	151	144	200	388	368	124	70	122	564	1,160
28	41	72	212	142	205	500	315	110	65	88	508	1,070
29	43	129	236	122	233	416	260	109	203	72	294	990
30	42	212	1,010	122	------	384	228	388	263	66	203	3,090
31	41	------	1,840	98	------	297	------	496	------	58	156	------
TOTAL	1,552	1,611	11,309	10,892	8,860	19,959	46,828	32,087	4,452	7,177	15,806	13,084
MEAN	50.1	53.7	365	351	306	644	1,561	1,035	148	232	510	436
MAX	96	212	1,840	1,260	1,010	1,620	6,150	7,600	464	885	2,800	3,090
MIN	35	36	50	98	83	230	176	109	65	58	41	67

CAL YR 1971 TOTAL 102,083 MEAN 280 MAX 4,250 MIN 33
WTR YR 1972 TOTAL 173,617 MEAN 474 MAX 7,600 MIN 35

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 mile northeast of Darbyville, 0.4 mile upstream from Lizzard Run, and 3 miles downstream from Greenbrier Creek.

DRAINAGE AREA.--534 sq mi.

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 above mean sea level. Prior to Mar. 17, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 430 cfs (10.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,330 cfs May 10 (gage height, 10.53 ft); minimum, 29 cfs Sept. 10, 11, 12.
Period of record: Maximum discharge, 49,000 cfs Jan. 22, 1959 (gage height, 17.94 ft), from rating curve extended above 22,000 cfs on basis of contracted-opening measurement of peak flow; minimum observed, 1.4 cfs Sept. 17, 1932.

REMARKS.--Records good except those for the period July 1 to Sept. 7, which are fair.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	51	280	2,880	210	306	459	417	279	124	63	38
2	62	47	280	1,410	210	1,060	414	407	258	109	60	37
3	54	48	220	1,150	238	2,130	368	395	227	100	58	37
4	54	49	170	968	249	1,230	350	350	202	95	58	37
5	47	47	250	1,080	251	848	325	312	182	97	55	36
6	40	45	700	1,010	261	599	306	284	169	87	52	34
7	39	51	2,200	746	225	515	750	267	167	86	53	31
8	38	48	1,700	603	206	515	4,180	428	158	84	62	32
9	39	47	1,200	568	196	470	3,700	2,870	149	81	55	33
10	41	46	860	796	169	417	1,650	5,790	147	101	53	30
11	42	45	720	1,070	173	356	1,250	3,370	163	100	52	29
12	41	46	600	840	160	344	988	1,500	139	95	51	47
13	40	47	600	680	274	342	2,000	1,060	147	129	50	88
14	41	47	1,000	571	571	404	3,450	1,660	178	154	47	69
15	43	46	1,900	428	872	631	1,650	2,190	247	104	47	66
16	44	45	1,200	380	1,040	561	1,510	2,470	267	104	46	64
17	58	44	1,000	340	900	1,140	2,510	1,410	223	134	44	52
18	61	42	780	380	662	1,420	2,060	952	173	463	40	51
19	54	44	600	365	603	900	1,110	750	147	256	52	49
20	47	47	460	325	459	655	1,060	624	135	188	69	46
21	46	46	500	306	386	557	2,510	540	129	144	47	43
22	46	46	435	294	380	932	2,420	498	126	113	40	38
23	47	44	389	317	299	2,720	3,360	452	122	91	64	35
24	55	44	362	368	282	1,650	2,010	353	119	81	118	40
25	66	45	328	452	274	976	1,210	317	115	77	93	47
26	71	45	306	371	258	772	868	284	110	75	51	79
27	66	45	299	270	236	655	697	256	104	79	53	151
28	64	47	291	250	227	669	585	234	103	79	47	147
29	59	120	277	240	242	816	512	221	116	75	41	212
30	58	220	617	230	------	638	459	249	132	71	40	575
31	53	------	2,820	220	------	522	------	304	------	66	39	------
TOTAL	1,580	1,634	23,344	19,908	10,513	25,750	44,721	31,214	4,933	3,642	1,700	2,273
MEAN	51.0	54.5	753	642	363	831	1,491	1,007	164	117	54.8	75.8
MAX	71	220	2,820	2,880	1,040	2,720	4,180	5,790	279	463	118	575
MIN	38	42	170	220	160	306	306	221	103	66	39	29
CFSM	.10	.10	1.41	1.20	.68	1.56	2.79	1.89	.31	.22	.10	.14
IN.	.11	.11	1.63	1.39	.73	1.79	3.12	2.17	.34	.25	.12	.16

CAL YR 1971 TOTAL 138,339 MEAN 379 MAX 5,790 MIN 27 CFSM .71 IN 9.64
WTR YR 1972 TOTAL 171,212 MEAN 468 MAX 5,790 MIN 29 CFSM .88 IN 11.93

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-9	0230	9.96	5,460	5-10	1300	10.53	6,330

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 mile downstream from unnamed right bank tributary, 0.6 mile southeast of Mount Sterling, and 4.9 miles upstream from Duffs Fork.

DRAINAGE AREA.--228 sq mi.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 836.25 ft above mean sea level.

AVERAGE DISCHARGE.--6 years, 200 cfs (11.92 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,650 cfs May 9 (gage height, 8.73 ft); minimum, 11 cfs Sept. 12.
Period of record: Maximum discharge, 15,200 cfs May 24, 1968 (gage height 11.87 ft); minimum, 5.1 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	43	129	549	76	189	181	163	141	90	21	15
2	37	42	93	491	96	703	167	163	116	65	21	15
3	34	43	79	457	126	671	153	153	100	56	23	21
4	33	39	70	407	100	445	160	135	89	52	25	23
5	31	37	63	494	94	346	141	120	81	48	26	20
6	30	35	260	381	88	253	131	110	76	45	22	16
7	28	77	991	308	82	237	372	104	76	43	22	15
8	26	82	1,000	265	76	264	599	317	70	41	53	14
9	27	81	597	304	70	223	438	2,740	67	40	36	14
10	33	81	458	528	64	192	401	2,000	66	46	30	14
11	34	75	403	457	66	175	338	867	61	71	25	12
12	31	70	331	355	78	173	327	569	52	68	22	21
13	28	50	279	315	161	168	1,960	486	73	210	21	59
14	32	43	384	258	356	183	804	1,140	124	100	19	45
15	33	41	1,100	150	671	174	659	831	125	72	17	36
16	37	39	791	140	558	194	1,220	551	160	75	17	28
17	98	38	519	130	368	436	1,270	421	115	75	17	23
18	81	35	374	160	333	448	685	335	88	57	17	20
19	63	33	301	188	310	310	461	274	76	58	21	19
20	53	33	308	159	197	253	438	235	70	95	28	20
21	46	32	312	156	218	232	393	206	69	57	22	18
22	43	28	262	151	176	662	1,020	178	67	46	19	17
23	47	25	236	178	142	710	847	155	62	40	22	17
24	57	35	225	197	150	455	560	138	60	35	35	22
25	89	42	199	186	132	372	403	125	56	34	31	35
26	82	41	195	120	130	313	308	112	52	36	28	54
27	72	43	182	110	117	283	256	108	48	31	23	93
28	62	53	175	94	119	257	217	95	46	28	19	92
29	53	70	159	86	133	236	193	92	54	26	17	93
30	49	166	552	80	------	216	174	133	88	25	17	308
31	46	------	1,150	74	------	188	------	199	------	23	15	------
TOTAL	1,456	1,552	12,177	7,928	5,287	9,961	15,276	13,255	2,428	1,788	731	1,199
MEAN	47.0	51.7	393	256	182	321	509	428	80.9	57.7	23.6	40.0
MAX	98	166	1,150	549	671	710	1,960	2,740	160	210	53	308
MIN	26	25	63	74	64	168	131	92	46	23	15	12
CFSM	.21	.23	1.72	1.12	.80	1.41	2.23	1.88	.35	.25	.10	.18
IN.	.24	.25	1.99	1.29	.86	1.63	2.49	2.16	.40	.29	.12	.20

CAL YR 1971 TOTAL 67,398 MEAN 185 MAX 3,160 MIN 16 CFSM .81 IN 11.00
WTR YR 1972 TOTAL 73,038 MEAN 200 MAX 2,740 MIN 12 CFSM .88 IN 11.92

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	0630	8.19	2,740	5-9	2000	8.73	3,650
4-16	1900	7.59	1,930				

03230900 Deer Creek near Pancoastburg, Ohio

LOCATION.--Lat 39°37'14", long 83°12'47", Pickaway County, on left bank 200 ft downstream from bridge on Crownover Mill Road, 1,200 ft downstream from Deer Creek Dam, and 2.8 miles east of Pancoastburg.

DRAINAGE AREA.--277 sq mi.

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 above mean sea level (Corps of Engineers bench mark). Oct. 23, 1963, to June 30, 1966, crest-stage at site 200 ft upstream at datum 59.84 ft higher.

AVERAGE DISCHARGE.--6 years, 233 cfs.

EXTREMES.--Current year: Maximum discharge, 1,980 cfs Apr. 18 (gage height, 73.60 ft); minimum, 7.4 cfs Apr. 1. Period of record: Maximum discharge, 19,500 cfs (estimated) Mar. 10, 1964 (gage height, 80.93 ft, 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.--Revised figures of discharge, in cubic feet per second, for the water year 1971, superseding those published in WRD Ohio 1971, are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge
Sept. 20	290	Sept. 24	557	Sept. 28	416
21	503	25	503	29	353
22	624	26	444	30	332
23	611	27	420		

Month	Cfs-days	Maximum	Minimum	Mean
Sept.	6,283	624	28	209
WTR YR 1971	77,053.4	2,300	7.0	211

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	52	199	683	150	228	70	182	284	101	20	18
2	346	41	150	521	150	657	14	182	168	101	20	18
3	356	43	103	476	150	844	15	182	135	101	20	19
4	364	44	85	400	150	534	14	182	133	68	19	19
5	360	45	85	485	121	408	14	185	133	55	19	19
6	356	44	179	503	108	325	14	161	106	54	19	19
7	353	45	894	380	110	290	14	150	97	52	19	18
8	350	54	1,400	287	110	287	14	208	83	28	19	18
9	342	75	785	287	110	290	14	894	77	18	19	19
10	339	87	494	467	110	258	15	1,380	75	20	19	19
11	149	87	432	526	110	246	16	1,750	75	48	19	19
12	34	87	360	436	110	225	17	1,720	46	83	20	20
13	22	87	322	400	150	196	17	1,250	100	155	20	25
14	32	87	322	311	370	219	17	1,360	166	182	19	28
15	39	81	1,050	187	649	231	17	1,320	138	185	19	28
16	43	54	1,030	145	737	216	17	971	280	123	19	28
17	54	43	548	200	501	388	738	570	216	99	19	28
18	70	43	404	290	376	539	1,730	372	99	97	19	28
19	99	52	280	243	353	424	1,770	318	97	74	19	28
20	108	56	350	211	215	308	1,110	274	99	57	19	28
21	101	48	350	179	244	290	624	274	99	55	19	28
22	101	31	350	179	274	554	333	225	99	55	19	28
23	81	26	300	214	214	826	15	182	99	52	19	28
24	72	26	261	228	199	498	637	148	99	50	19	29
25	70	27	225	240	182	408	1,370	89	85	33	19	29
26	79	34	225	214	150	368	1,140	117	58	25	19	44
27	85	50	225	145	150	328	473	131	52	23	19	61
28	83	58	199	158	150	287	280	133	54	23	19	61
29	83	99	145	168	150	287	211	106	55	23	18	75
30	77	188	330	150	------	258	182	128	87	23	18	121
31	72	------	1,230	150	------	228	------	284	------	21	18	------
TOTAL	5,048	1,794	13,312	9,463	6,553	11,445	10,912	15,428	3,394	2,084	591	950
MEAN	163	59.8	429	305	226	369	364	498	113	67.2	19.1	31.7
MAX	364	188	1,400	683	737	844	1,770	1,750	284	185	20	121
MIN	22	26	85	145	108	196	14	89	46	18	18	18

CAL YR 1971 TOTAL 64,823.4 MEAN 232 MAX 2,300 MIN 7.0
WTR YR 1972 TOTAL 80,974.0 MEAN 221 MAX 1,770 MIN 14

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 miles downstream from Dry Run, and 7.6 miles upstream from Hay Run.

DRAINAGE AREA.--333 sq mi.

PERIOD OF RECORD.--August 1926 to December 1935, January 1938 to September 1956. Annual maximum, 1959, 1961-62 water years, July 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 718.66 ft above mean sea level. Prior to Feb. 29, 1940, non-recording gage, and Feb. 29, 1940, to Aug. 24, 1954, water-stage recorder, at same site at datum 3.00 ft 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 downstream at same datum.

AVERAGE DISCHARGE.--37 years (1926-35, 1938-56, 1962-72), 280 cfs.

EXTREMES.--Current year: Maximum discharge, 2,300 cfs May 9 (gage height, 8.34 ft); minimum, 12 cfs Sept. 12. Period of record: Maximum discharge, 39,600 cfs Jan. 22, 1959 (gage height, 17.6 ft, from floodmarks), from rating curve extended above 25,000 cfs on basis of contracted-opening measurement of peak flow; minimum discharge, 0.10 cfs Sept. 19, 1964.

REMARKS.--Records good. Flow regulated by Deer Creek Reservoir 9.0 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	385	66	224	715	166	240	163	214	306	141	24	16
2	398	45	148	551	159	659	44	212	235	131	24	15
3	410	44	121	524	166	946	41	210	159	129	25	16
4	413	42	86	431	160	607	45	205	155	108	24	16
5	410	44	85	548	140	467	42	202	150	76	24	15
6	398	44	242	554	130	358	41	185	136	72	24	14
7	390	44	922	425	120	318	145	166	115	70	24	14
8	383	47	1,280	333	120	313	159	241	106	59	23	14
9	375	65	950	323	120	305	145	1,250	94	30	23	15
10	360	83	533	503	115	280	126	1,340	93	50	23	13
11	118	83	494	569	114	263	99	1,530	91	67	24	13
12	42	83	398	485	115	260	84	1,470	79	93	24	26
13	28	83	353	425	242	220	850	1,240	110	161	25	46
14	40	83	333	358	434	228	260	1,340	275	216	24	34
15	42	81	854	248	677	246	198	1,300	189	216	22	29
16	53	67	1,040	180	782	248	425	968	451	178	22	26
17	60	40	617	240	572	458	621	654	348	118	21	26
18	72	39	458	380	410	582	1,520	430	170	117	21	24
19	84	45	318	278	373	491	1,570	346	151	109	20	23
20	108	56	353	236	275	446	1,120	306	143	79	20	23
21	104	53	375	200	242	446	743	300	136	75	19	22
22	99	38	365	202	293	563	659	270	132	73	18	22
23	96	24	338	226	234	942	186	225	129	70	20	21
24	83	23	308	253	218	540	420	195	127	65	19	24
25	84	23	255	265	208	460	1,230	119	116	57	36	25
26	83	24	260	230	174	420	1,110	129	90	37	27	32
27	90	40	255	184	174	380	542	147	71	31	24	72
28	89	56	246	159	180	320	308	147	71	30	22	69
29	87	85	170	196	186	303	263	133	88	29	18	92
30	84	186	285	176	------	288	216	149	135	29	17	216
31	75	------	1,080	194	------	242	------	323	------	29	16	------
TOTAL	5,543	1,736	13,746	10,591	7,299	12,839	13,375	15,946	4,651	2,745	697	1,013
MEAN	179	57.9	443	342	252	414	446	514	155	88.5	22.5	33.8
MAX	413	186	1,280	715	782	946	1,570	1,530	451	216	36	216
MIN	28	23	85	159	114	220	41	119	71	29	16	13

CAL YR 1971 TOTAL 99,090.7 MEAN 271 MAX 2,410 MIN 9.7
WTR YR 1972 TOTAL 90,181.0 MEAN 246 MAX 1,570 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 downstream from Bridge Street Bridge on U.S. Highway 23, 7.4 miles upstream from Paint Creek, and 15.4 miles downstream from Deer Creek.

DRAINAGE AREA.--3,849 sq mi.

PERIOD OF RECORD.--December 1913 to September 1914 (gage heights and discharge measurements only), October 1920 to current year. Monthly discharge only for soem 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 above mean sea level. Prior to Sept. 30, 1914, nonrecording gage at site 1,300 ft upstream at different datum. Apr. 1, 1921, to Aug. 6, 1930, nonrecording gage, at site 1,400 ft upstream at present datum. Aug. 7, 1930, to Sept. 30, 1969, water stage recorder 900 ft upstream at same datum.

AVERAGE DISCHARGE.--52 years, 3,277 cfs.

EXTREMES.--Current year: Maximum discharge, 25,900 cfs May 11 (gage height, 13.09 ft); minimum, 519 cfs Nov. 26, 27.
Period of record: Maximum discharge, 144,000 ofs Jan. 23, 1959 (gage height, 32.50 ft, from high-water mark in well); minimum, 160 cfs Jan. 1, 1931; minimum gage height, 0.81 ft Sept. 27, 1944.
Flood of Mar. 26, 1913 reached a stage of 39.8 ft (discharge, 260,000 cfs, estimated by Franklin County Conservancy District).

REMARKS.--Records good. Flow regulated by 5 reservoirs 36 to 91 miles upstream from station (see p. 119, 120). Water-quality records for the current year are published in Part 2 of this report.

RESERVOIRS (WATER YEARS).--WSP 803: 1929(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	884	555	1,270	11,300	1,410	1,970	3,250	6,610	2,930	1,500	780	896
2	848	555	1,030	10,300	1,380	3,570	2,800	4,560	2,460	1,370	750	824
3	860	555	908	7,920	1,370	10,700	2,370	3,360	2,270	1,630	730	860
4	836	582	824	6,300	1,660	12,600	2,180	3,100	2,240	2,340	770	896
5	824	555	750	6,210	1,500	10,400	2,100	2,750	1,940	5,900	968	872
6	812	546	968	6,280	1,340	7,920	1,920	2,480	1,760	6,040	780	770
7	790	546	3,810	5,170	1,380	5,400	2,980	2,180	1,570	4,920	690	710
8	780	591	6,250	3,950	1,230	4,360	11,200	2,190	1,440	3,120	992	690
9	780	582	5,010	3,390	1,100	4,020	16,500	9,530	1,310	2,140	896	690
10	790	591	3,220	3,810	1,000	3,540	15,400	19,100	1,270	1,890	980	670
11	884	610	3,090	5,210	1,000	3,220	10,000	24,800	3,200	2,260	812	640
12	690	591	2,750	6,800	992	2,910	7,460	21,800	1,870	1,740	720	670
13	591	582	2,220	5,960	1,430	2,540	11,600	13,900	1,330	1,580	700	1,380
14	555	582	1,890	4,710	4,020	2,530	16,600	14,100	1,780	1,870	680	1,460
15	630	573	3,360	3,600	5,070	3,820	21,500	17,000	1,870	1,860	650	968
16	640	564	6,340	2,400	6,250	6,100	21,400	16,000	4,900	1,660	640	1,900
17	620	573	7,160	2,100	6,320	8,280	17,600	14,100	4,720	2,020	630	3,440
18	610	680	6,740	2,100	5,440	11,800	17,300	11,500	3,020	4,870	824	2,240
19	591	610	4,620	2,210	4,890	10,400	14,000	10,500	2,420	5,250	4,990	1,360
20	610	610	3,550	2,080	4,080	6,650	11,400	9,410	1,820	4,510	5,860	1,120
21	600	620	3,180	1,980	3,070	4,670	13,900	6,720	1,660	3,390	4,080	1,020
22	591	790	2,780	1,900	2,720	4,420	19,300	4,220	1,440	2,270	2,350	956
23	600	650	2,450	1,970	2,450	9,360	21,000	3,390	1,340	1,680	2,050	932
24	660	620	2,190	2,350	2,290	12,600	21,500	2,990	1,340	1,550	5,380	860
25	690	591	2,030	2,750	2,110	9,580	18,400	2,640	1,300	1,430	5,010	1,270
26	680	555	1,840	3,140	2,030	6,210	15,700	2,300	1,200	1,360	3,730	1,550
27	650	528	1,780	2,620	1,940	4,690	13,000	2,050	1,110	1,160	2,240	3,410
28	630	610	1,760	2,110	1,840	4,220	9,670	1,860	1,040	1,120	1,790	3,490
29	600	670	1,740	1,780	1,820	4,540	8,210	1,740	1,080	1,090	1,550	4,110
30	591	968	1,920	1,580	------	4,450	7,440	1,740	1,600	968	1,260	5,720
31	582	------	7,200	1,440	------	3,720	------	3,140	------	860	1,060	------
TOTAL	21,499	18,235	94,630	125,420	73,132	191,190	357,680	241,760	59,230	75,348	55,342	46,374
MEAN	694	608	3,053	4,046	2,522	6,167	11,920	7,799	1,974	2,431	1,785	1,546
MAX	884	968	7,200	11,300	6,320	12,600	21,500	24,800	4,900	6,040	5,860	5,720
MIN	555	528	750	1,440	992	1,970	1,920	1,740	1,040	860	630	640

CAL YR 1971 TOTAL 996,510 MEAN 2,730 MAX 25,600 MIN 460
WTR YR 1972 TOTAL 1,359,840 MEAN 3,715 MAX 24,800 MIN 528

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 mile upstream from Stone Run, 2.0 miles north of Greenfield, and 3.0 miles downstream from Indian Creek.

DRAINAGE AREA.--249 sq mi.

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 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 higher.

AVERAGE DISCHARGE.--32 years (1926-35, 1939-56, 1966-72), 219 cfs (11.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,180 cfs Apr. 14 (gage height, 8.14 ft); minimum, 3.5 cfs Sept. 1. Period of record: Maximum discharge, 21,700 cfs May 24, 1969 (gage height, 14.28 ft); 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	31	87	520	100	246	178	198	239	75	19	3.7
2	20	32	94	416	107	735	165	198	170	61	19	5.1
3	19	31	82	367	125	930	150	200	135	63	18	16
4	17	27	68	400	104	679	188	153	109	57	20	29
5	15	26	61	477	129	498	169	133	92	51	21	11
6	13	25	445	410	130	352	156	117	89	46	15	7.9
7	13	26	831	329	110	301	727	107	84	38	16	7.1
8	12	26	890	285	100	279	1,030	263	73	35	13	6.4
9	12	24	723	315	92	253	835	1,150	69	34	12	5.4
10	14	25	532	470	84	226	719	1,850	71	32	12	5.4
11	16	20	422	484	76	197	587	1,470	60	32	13	5.4
12	15	20	346	416	74	188	540	756	55	35	16	9.6
13	13	20	290	364	181	178	2,030	628	66	482	15	51
14	26	21	271	301	346	181	2,690	1,010	200	447	12	17
15	30	21	422	201	603	172	1,280	1,040	405	210	11	29
16	45	22	643	180	683	211	1,740	716	1,090	145	9.2	33
17	86	20	509	170	563	449	1,900	499	475	119	8.3	23
18	44	19	367	160	477	567	1,280	415	293	90	7.5	17
19	49	22	288	150	413	426	780	326	205	73	6.4	14
20	39	23	285	150	248	323	660	263	168	78	6.4	12
21	33	21	279	148	288	288	700	223	145	59	7.9	10
22	31	22	248	144	233	595	1,160	193	123	52	5.7	7.9
23	31	21	218	161	183	759	1,080	165	109	46	5.1	7.1
24	40	19	206	190	194	575	748	145	103	41	6.8	9.6
25	53	19	188	206	176	432	540	131	87	39	12	19
26	50	19	176	165	206	352	412	115	76	33	12	24
27	53	23	169	131	188	307	332	99	69	30	9.6	71
28	48	24	158	120	190	271	275	90	61	29	10	175
29	45	54	139	110	206	246	233	89	183	25	5.7	188
30	41	87	298	100	------	223	208	165	99	24	4.7	365
31	36	------	459	100	------	192	------	347	------	22	4.0	------
TOTAL	983	790	10,194	8,140	6,609	11,631	23,492	13,254	5,203	2,603	353.3	1,184.6
MEAN	31.7	26.3	329	263	228	375	783	428	173	84.0	11.4	39.5
MAX	86	87	890	520	683	930	2,690	1,850	1,090	482	21	365
MIN	12	19	61	100	74	172	150	89	55	22	4.0	3.7
CFSM	.13	.11	1.32	1.06	.92	1.51	3.14	1.72	.69	.34	.05	.16
IN.	.15	.12	1.52	1.22	.99	1.74	3.51	1.98	.78	.39	.05	.18

CAL YR 1971 TOTAL 75,629.8 MEAN 207 MAX 4,850 MIN 7.6 CFSM .83 IN 11.30
WTR YR 1972 TOTAL 84,436.9 MEAN 231 MAX 2,690 MIN 3.7 CFSM .93 IN 12.61

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	1000	8.14	3,180	5-10	1900	6.73	2,060
4-16	0930	7.08	2,310				

03232300 Rattlesnake Creek near Centerfield, Ohio

LOCATION.--Lat 39°19'44", long 83°28'32", Highland County, on right bank 600 ft upstream from county road bridge at Centerfield, 0.6 mile upstream from Walnut Creek, 1.5 miles downstream from Lees Creek, and 2.4 miles southeast of East Monroe.

DRAINAGE AREA.--209 sq mi.

PERIOD OF RECORD.--October 1971 to September 1972.

GAGE.--Water-stage recorder. Datum of gage is 822.32 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 5,680 cfs June 15 (gage height, 11.85 ft); minimum, 1.8 cfs Aug. 22, 23, 24.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	33	112	368	78	310	131	125	209	55	4.2	4.3
2	27	34	81	324	76	995	122	122	125	47	4.0	3.9
3	25	34	63	328	99	918	107	139	94	41	4.6	3.0
4	24	30	56	313	81	585	240	104	78	36	5.2	20
5	22	27	52	517	102	420	189	88	67	33	3.6	11
6	22	24	562	376	90	285	159	74	63	30	3.2	8.1
7	20	26	1,110	275	80	236	740	71	60	27	3.0	6.3
8	20	26	1,030	205	70	247	1,200	199	53	83	3.0	5.2
9	20	24	750	303	62	222	896	973	46	51	3.2	5.7
10	20	26	512	625	56	183	710	1,170	44	39	3.4	4.5
11	20	22	412	508	50	156	535	819	40	40	3.6	3.7
12	19	20	320	364	56	153	432	412	37	30	3.8	67
13	18	19	257	299	122	142	2,380	454	139	25	4.0	134
14	26	19	250	233	275	147	2,730	869	306	26	4.0	26
15	35	19	454	156	755	147	1,300	880	1,720	32	3.8	16
16	60	19	562	140	765	183	1,800	590	2,090	38	3.6	12
17	162	18	380	130	544	503	1,420	376	615	25	3.2	10
18	156	18	268	120	481	539	940	282	313	20	3.1	10
19	99	21	202	120	400	344	535	215	205	18	2.8	9.3
20	69	21	209	115	233	247	445	174	150	16	2.8	7.6
21	53	21	233	109	200	222	512	147	131	13	2.5	6.7
22	46	21	199	107	160	819	1,070	125	102	12	2.1	5.4
23	40	20	168	133	147	775	880	107	78	16	1.8	4.5
24	44	20	162	202	183	481	530	92	68	18	2.1	6.3
25	67	19	145	222	165	364	356	81	60	12	4.5	22
26	88	18	136	153	236	289	261	71	53	10	5.9	52
27	71	18	131	122	215	243	205	62	303	8.2	20	147
28	58	20	125	100	215	212	168	56	126	6.8	11	92
29	47	39	109	90	257	183	147	55	78	6.0	7.0	82
30	39	107	380	84	------	168	131	162	58	5.0	4.8	403
31	35	------	508	80	------	139	------	320	------	4.4	3.5	------
TOTAL	1,482	783	9,938	7,221	6,253	10,857	21,271	9,414	7,511	823.4	137.3	1,188.5
MEAN	47.8	26.1	321	233	216	350	709	304	250	26.6	4.43	39.6
MAX	162	107	1,110	625	765	995	2,730	1,170	2,090	83	20	403
MIN	18	18	52	80	50	139	107	55	37	4.4	1.8	3.0
CFSM	.23	.12	1.54	1.11	1.03	1.67	3.39	1.45	1.20	.13	.02	.19
IN.	.26	.14	1.77	1.29	1.11	1.93	3.79	1.68	1.34	.15	.02	.21

CAL YR 1971 TOTAL 12,203.00 MEAN 33.4 MAX 1,110 MIN 0 CFSM .16 IN 2.17
WTR YR 1972 TOTAL 76,879.20 MEAN 210 MAX 2,730 MIN 1.8 CFSM 1.00 IN 13.68

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 2	1845	5.63	1,340	4-16 or 17	Unknown	Unknown	About 2,600
4- 7	2215	5.74	1,400	6-15	2215	11.85	5,680
4-13	1215	9.08	3,610				

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 downstream from Paint Creek Dam site, 700 ft upstream from Cliff Creek, and 4.5 miles northwest of Bainbridge.

DRAINAGE AREA.--570 sq mi.

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 700.0 ft 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 downstream, at datum 42.96 ft higher.

AVERAGE DISCHARGE.--5 years, 499 cfs (11.89 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,950 cfs June 16 (gage height, 53.35 ft); minimum daily, 7.9 cfs Sept. 1.
Period of record: Maximum discharge, about 45,000 cfs Mar. 10, 1964 (gage height, 27.3 ft, site and datum then in use); minimum observed, 1.1 cfs Sept. 17, 1964.

REMARKS.--Records fair. Peak flow affected by temporary storage behind Paint Creek Dam (under construction), subsequent to January 1971. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	113	455	1,060	210	640	450	500	634	239	40	7.9
2	73	111	405	958	220	1,960	415	485	440	186	38	164
3	62	121	352	875	240	2,670	375	500	330	189	38	23
4	54	109	309	847	240	1,670	763	415	273	171	109	92
5	47	93	285	1,380	230	1,200	586	356	242	156	95	79
6	41	88	1,490	1,010	220	840	485	313	223	137	59	34
7	36	95	2,660	798	210	694	1,670	289	230	117	45	22
8	34	85	2,390	646	200	670	2,830	574	203	105	43	15
9	36	81	1,810	728	180	604	2,310	2,040	186	99	30	32
10	45	85	1,280	1,240	160	532	1,820	3,020	181	95	26	65
11	47	77	1,040	1,160	160	470	1,450	3,010	163	90	27	63
12	44	71	847	950	190	450	1,200	1,700	153	88	34	44
13	38	69	714	760	420	430	4,130	1,140	390	309	42	353
14	38	66	700	600	900	445	5,800	2,270	634	420	36	78
15	84	66	974	480	1,630	420	4,610	2,800	968	189	32	40
16	135	62	1,350	420	1,640	694	3,960	2,270	4,980	141	28	42
17	305	60	1,090	410	1,300	1,310	4,590	1,280	3,130	141	27	37
18	309	55	812	420	1,000	1,480	3,700	982	903	119	23	30
19	217	56	640	410	760	1,090	1,950	770	592	97	23	25
20	173	68	652	400	580	826	1,510	634	450	93	17	21
21	139	69	664	366	520	714	1,610	544	390	86	16	18
22	126	68	598	352	480	1,770	3,010	465	321	79	16	17
23	117	62	520	430	450	1,960	2,600	410	281	77	15	12
24	137	56	495	714	598	1,420	1,740	356	266	93	21	17
25	186	55	455	640	510	1,070	1,230	317	233	92	23	53
26	214	55	430	490	714	875	950	281	209	81	22	71
27	200	60	410	370	592	749	770	248	186	71	45	271
28	176	71	400	300	568	664	640	230	168	62	47	443
29	156	195	356	260	610	598	574	214	511	53	26	353
30	139	480	1,140	240	------	562	520	343	370	47	13	905
31	126	------	1,160	220	------	480	------	868	------	33	8.2	------
TOTAL	3,627	2,802	26,883	19,934	15,732	29,957	58,248	29,624	18,240	3,955	1,064.2	3,426.9
MEAN	117	93.4	867	643	542	966	1,942	956	608	128	34.3	114
MAX	309	480	2,660	1,380	1,640	2,670	5,800	3,020	4,980	420	109	905
MIN	34	55	285	220	160	420	375	214	153	33	8.2	7.9
CFSM	.21	.16	1.52	1.13	.95	1.69	3.41	1.68	1.07	.22	.06	.20
IN.	.24	.18	1.75	1.30	1.03	1.96	3.80	1.93	1.19	.26	.07	.22

CAL YR 1971 TOTAL 182,784.0 MEAN 501 MAX 7,770 MIN 34 CFSM .88 IN 11.93
WTR YR 1972 TOTAL 213,493.1 MEAN 583 MAX 5,800 MIN 7.9 CFSM 1.02 IN 13.93

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 miles north of Barretts Mills, 2 miles east of Rainsboro, 2.8 miles upstream from mouth, and 6 miles downstream from Rocky Fork Lake.

DRAINAGE AREA.--140 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 770.8 ft above mean sea level, (levels by Corps of Engineers). Prior to Feb. 15, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 147 cfs.

EXTREMES.--Current year: Maximum discharge, 1,690 cfs June 16 (gage height, 7.10 ft); minimum, 4.0 cfs Nov. 26. Period of record: Maximum discharge, 13,400 cfs Mar. 10, 1964 from rating curve extended above 8,800 cfs on basis of velocity-area studies; maximum gage height, 15.56 ft Mar. 6, 1945; minimum discharge, 0.40 cfs Oct. 7, 11, 1964; minimum daily, 0.90 cfs Sept. 10, 1966.

REMARKS.--Records fair except those for period of no gage-height record, June 22 to Aug. 16, which are poor. Some diurnal fluctuation caused by mill 6 miles upstream from station. Flow regulated by Rocky Fork Lake 6 miles upstream, since 1952 (capacity, 34,100 acre-ft). 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	36	223	54	91	238	149	186	260	120	23	14
2	82	39	240	63	91	604	143	188	198	100	22	13
3	71	39	263	59	104	830	131	186	153	110	26	14
4	64	33	260	87	97	646	291	172	128	100	56	17
5	53	26	260	215	107	563	299	148	107	90	48	14
6	45	25	601	283	95	432	261	136	99	80	36	11
7	35	33	853	273	92	374	529	123	94	70	33	8.8
8	26	28	693	268	90	352	876	179	82	64	30	7.8
9	25	26	517	300	88	328	626	332	77	58	26	7.8
10	28	29	426	298	86	323	441	298	70	54	21	7.3
11	29	26	378	280	86	321	412	246	55	50	19	6.8
12	24	26	360	270	90	318	345	201	51	100	20	12
13	22	27	354	270	142	318	847	184	173	400	20	13
14	28	28	366	265	162	211	752	401	365	360	18	17
15	28	28	375	258	162	116	558	699	351	160	16	14
16	93	27	363	255	119	160	1,060	659	1,420	120	15	10
17	76	28	354	255	142	176	978	478	792	90	15	8.3
18	63	29	345	258	198	149	632	354	465	76	15	7.8
19	55	63	345	153	208	182	464	269	300	66	14	7.3
20	49	113	363	57	170	183	519	219	218	60	15	7.3
21	44	106	351	57	160	177	623	182	174	54	14	5.8
22	43	67	283	58	150	420	1,210	156	143	48	12	4.8
23	44	10	32	67	140	441	732	133	130	46	11	4.4
24	60	6.3	20	67	220	352	485	120	120	44	13	8.8
25	67	4.8	18	80	230	289	365	109	110	40	32	51
26	59	24	17	100	354	249	285	96	100	36	33	82
27	55	171	16	97	295	218	229	87	90	33	51	113
28	49	167	22	97	268	195	195	82	100	30	40	135
29	44	190	48	95	245	185	173	78	200	28	31	135
30	40	203	66	90	------	175	176	159	150	26	25	205
31	39	------	59	90	------	154	------	346	------	24	17	------
TOTAL	1,538	1,658.1	8,871	5,119	4,482	9,679	14,786	7,206	6,775	2,737	767	963.0
MEAN	49.6	55.3	286	165	155	312	493	232	226	88.3	24.7	32.1
MAX	98	203	853	300	354	830	1,210	699	1,420	400	56	205
MIN	22	4.8	16	54	86	116	131	78	51	24	11	4.4

CAL YR 1971 TOTAL 60,557.1 MEAN 166 MAX 1,930 MIN 4.8
WTR YR 1972 TOTAL 64,581.1 MEAN 176 MAX 1,420 MIN 4.4

Note.--No gage height record June 22 to Aug. 16.

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 mile downstream from Sulphur Lick, 1.2 miles southwest of Bourneville, and 1.2 miles upstream from Upper Twin Creek.

DRAINAGE AREA.--807 sq mi.

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 above mean sea level. See WSP 1725 for history of changes prior to May 3, 1939.

AVERAGE DISCHARGE.--49 years (1921-36, 1938-72), 777 cfs (13.08 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,890 cfs Apr. 13 (gage height, 10.74 ft); minimum, 39 cfs Sept. 12. Period of record: Maximum discharge, 56,900 cfs Mar. 10, 1964 (gage height, 20.50 ft), from rating curve extended above 26,000 cfs on basis of contracted-opening measurement at gage height 20.08 ft; minimum, 4.8 cfs Sept. 16, 17, 1964.

REMARKS.--Records good. Flow slightly regulated by Rocky Fork Lake 23 miles upstream since 1952 (capacity, 34,100 acre-ft), and by temporary storage behind Paint Creek Dam (under construction), subsequent to January 1971. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the period June 27-30, 1971 superseding figures published in WRD Ohio 1971 are given below:

June 27.....	4,500	June 29.....	2,600
28.....	4,600	30.....	1,500

Month	Cfs-days	Mean	Maximum	Minimum	Per square mile	Runoff in inches
June 1971.....	20,877	696	4,600	151	.86	.96
WTR YR 1971.....	243,168	666	9,870	48	.83	11.21

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	149	424	1,310	420	1,090	720	805	1,030	459	91	48
2	168	142	403	1,200	440	2,330	696	800	765	383	87	70
3	152	149	413	1,160	520	4,280	648	820	616	400	86	75
4	140	142	393	1,070	624	2,920	1,080	730	524	405	110	58
5	129	130	390	1,900	504	2,240	1,130	644	462	366	218	79
6	118	121	1,860	1,620	560	1,630	930	584	420	329	169	68
7	110	123	4,420	1,330	500	1,340	1,760	540	413	288	139	55
8	102	125	4,140	1,140	460	1,280	4,090	672	371	255	128	49
9	96	116	3,070	1,150	420	1,170	3,430	2,330	345	232	117	46
10	97	113	2,210	1,820	380	1,070	2,510	3,410	330	219	97	45
11	101	115	1,780	1,750	360	985	2,160	3,480	303	205	82	40
12	99	110	1,480	1,420	451	945	1,730	2,320	279	189	76	43
13	94	108	1,290	1,100	775	915	5,570	1,410	402	296	77	205
14	95	107	1,220	900	1,340	880	6,770	2,430	1,200	694	74	182
15	96	107	1,560	740	2,180	692	5,660	3,730	1,080	472	69	102
16	145	105	2,100	620	2,240	1,020	5,420	3,520	6,510	365	66	82
17	270	103	1,840	660	1,700	1,720	6,000	2,110	4,740	334	61	79
18	303	101	1,440	720	1,400	1,820	4,880	1,560	1,770	320	58	72
19	252	101	1,200	680	1,100	1,480	2,990	1,240	1,080	273	58	65
20	216	144	1,200	628	980	1,170	2,270	1,020	820	243	60	58
21	185	168	1,220	584	900	1,010	2,240	885	684	228	55	53
22	168	165	1,130	560	840	1,910	4,890	770	592	201	51	49
23	160	117	734	628	835	2,510	3,850	680	508	179	48	46
24	162	93	629	960	1,110	2,020	2,640	608	472	181	48	49
25	193	87	590	910	1,010	1,540	1,870	548	425	167	62	71
26	216	84	551	800	1,340	1,290	1,450	493	386	149	69	119
27	215	155	532	620	1,220	1,120	1,190	448	352	136	71	227
28	199	209	516	560	1,090	1,000	1,010	409	324	125	89	432
29	183	239	509	520	1,070	915	905	388	457	114	78	358
30	169	404	1,060	480	------	885	835	508	692	104	66	811
31	157	------	1,710	450	------	780	------	1,250	------	97	55	------
TOTAL	4,974	4,132	42,014	29,990	26,769	45,957	81,324	41,142	28,352	8,408	2,615	3,736
MEAN	160	138	1,355	967	923	1,482	2,711	1,327	945	271	84.4	125
MAX	303	404	4,420	1,900	2,240	4,280	6,770	3,730	6,510	694	218	811
MIN	94	84	390	450	360	692	648	388	279	97	48	40
CFSM	.20	.17	1.68	1.20	1.14	1.84	3.36	1.64	1.17	.34	.10	.15
IN.	.23	.19	1.94	1.38	1.23	2.12	3.75	1.90	1.31	.39	.12	.17

CAL YR 1971 TOTAL 264,498 MEAN 725 MAX 9,870 MIN 73 CFSM .90 IN 12.19
WTR YR 1972 TOTAL 319,413 MEAN 873 MAX 6,770 MIN 40 CFSM 1.08 IN 14.72

PEAK DISCHARGE (BASE, 9,000 CFS).--Apr. 13 (1530) 9,890 cfs (10.74 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 mile downstream from Walnut Creek, 1.2 miles north of Higby, 3 miles west northwest of Richmondale, and 5.0 miles upstream from Salt Creek.

DRAINAGE AREA.--5,131 sq mi.

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 above mean sea level. Prior to Nov. 7, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 4,350 cfs.

EXTREMES.--Current year: Maximum discharge, 42,800 cfs Apr. 10 (gage height, 18.29 ft); minimum, 617 cfs Sept. 11,12.
Period of record: Maximum discharge, 177,000 cfs Jan. 23, 1937, (from rating curve extended above 112,000 cfs); maximum gage height, 26.4 ft Jan. 23, 1937 (from floodmarks), and Jan. 23, 1959; minimum discharge, 244 cfs Oct. 23, 1930.
A stage of 31.6 ft occurred Mar. 26, 1913, and has not been exceeded since.

REMARKS.--Records good. Flow slightly regulated by 5 reservoirs 50 to 105 miles upstream from station (see p. 119) and since 1952 by Rocky Fork Lake 51 miles upstream (capacity 34,100 acre-ft). 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,480	846	2,330	13,100	2,440	3,700	4,580	8,980	4,890	2,610	992	1,090
2	1,380	827	2,080	12,600	2,420	6,600	4,100	6,910	3,700	2,130	907	981
3	1,330	808	1,830	10,400	2,460	16,500	3,540	5,120	3,450	2,330	845	1,060
4	1,280	865	1,700	8,620	2,870	17,200	3,610	4,730	3,250	2,810	951	1,110
5	1,240	808	1,550	9,720	2,590	14,500	4,150	4,150	2,960	6,070	1,170	1,020
6	1,220	770	3,050	9,360	2,440	11,400	3,450	3,560	2,710	6,850	1,130	955
7	1,170	770	10,300	7,860	2,200	8,500	6,930	3,430	2,490	5,960	917	795
8	1,130	808	12,500	6,030	2,000	7,000	16,800	3,320	2,290	3,970	1,070	748
9	1,110	808	9,890	5,250	1,900	6,220	20,400	11,200	2,130	2,870	1,170	736
10	1,110	808	6,740	6,470	1,800	5,500	21,900	21,700	1,950	2,440	1,140	702
11	1,220	827	5,610	7,780	1,800	4,960	14,000	26,200	3,030	2,690	1,050	668
12	1,090	827	4,960	9,300	1,800	4,550	11,000	26,600	2,900	2,380	878	689
13	865	808	4,200	8,560	3,660	4,150	21,900	17,900	2,030	2,530	785	1,480
14	808	789	3,700	7,020	7,170	4,010	26,200	17,500	3,020	2,870	762	2,060
15	808	770	4,740	5,460	9,090	4,650	26,300	20,600	3,410	2,890	726	1,350
16	922	753	9,020	3,900	10,200	7,780	28,400	21,600	9,960	2,530	696	1,700
17	1,020	753	9,910	3,140	9,760	11,300	27,400	18,000	12,100	2,630	679	3,710
18	1,170	846	9,510	3,520	8,540	14,500	23,700	14,800	6,810	4,990	687	2,850
19	1,150	865	6,890	3,610	7,690	13,500	20,900	12,900	4,380	5,970	4,340	1,830
20	1,090	770	5,450	3,320	6,280	9,680	15,500	12,100	3,560	5,030	6,300	1,370
21	1,020	922	5,030	3,110	4,800	6,920	17,100	9,430	3,070	4,150	4,550	1,210
22	960	1,090	4,490	2,980	4,280	7,500	26,000	6,280	2,690	2,970	2,940	1,130
23	941	1,040	3,880	3,110	3,860	12,000	26,200	4,890	2,440	2,300	2,120	1,100
24	1,000	922	3,380	4,040	4,550	15,500	25,300	4,280	2,310	2,060	5,240	1,070
25	1,040	846	3,160	4,330	4,100	12,900	22,200	3,560	2,150	1,900	5,330	1,290
26	1,130	736	2,940	4,510	4,460	9,200	18,500	3,450	2,000	1,780	4,460	1,840
27	1,130	685	2,850	3,920	4,150	6,870	15,800	3,120	1,830	1,530	2,780	3,500
28	1,040	865	2,810	3,360	3,740	6,030	12,600	2,870	1,650	1,410	2,150	3,970
29	981	1,090	2,770	2,940	3,610	6,030	10,700	2,710	1,750	1,340	1,990	4,820
30	941	1,600	3,030	2,730	------	6,110	9,740	2,750	2,730	1,210	1,560	6,300
31	884	------	8,520	2,400	------	5,250	------	4,260	------	1,090	1,310	------
TOTAL	33,660	25,922	158,820	182,450	126,660	270,510	488,900	308,900	103,640	94,290	61,625	53,134
MEAN	1,086	864	5,123	5,885	4,368	8,726	16,300	9,965	3,455	3,042	1,988	1,771
MAX	1,480	1,600	12,500	13,100	10,200	17,200	28,400	26,600	12,100	6,850	6,300	6,300
MIN	808	685	1,550	2,400	1,800	3,700	3,450	2,710	1,650	1,090	679	668

CAL YR 1971 TOTAL 1,469,315 MEAN 4,026 MAX 39,300 MIN 664
WTR YR 1972 TOTAL 1,908,511 MEAN 5,215 MAX 28,400 MIN 668

PEAK DISCHARGE (BASE, 24,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 8	1400	18.01	40,600	4-21	1700	18.01	40,600
4-10	2100	18.29	42,800	5- 9	2000	18.03	40,700
4-16	2400	16.22	31,400	5-14	1700	18.04	40,800
4-19	2100	18.16	41,800				

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 miles upstream from mouth and 5.2 miles south of Adelphi.

DRAINAGE AREA.--1.35 sq mi.

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

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 793.63 ft above mean sea level.

AVERAGE DISCHARGE.--26 years, 1.21 cfs (12.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 70 cfs Apr. 7 (gage height, 3.04 ft); no flow many days. Period of record: Maximum discharge, 957 cfs May 24, 1968 (gage height, 5.66 ft in gage well, 5.84 ft from floodmark) from rating curve extended above 92 cfs on basis of slope-area measurements at gage height 5.21 ft and at peak flow; no flow many days each year.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.03	.18	.58	.40	1.7	1.0	1.2	.32	.24	0	.01
2	.12	.06	.12	.83	.48	5.5	1.0	1.2	.24	.12	0	0
3	.12	.12	.03	.83	.69	6.7	1.0	1.0	.18	.12	0	.79
4	.06	.12	.01	1.2	.83	3.6	2.3	.83	.12	.06	0	.48
5	.06	.12	.01	2.8	.58	2.3	2.5	.83	.12	.06	.01	.24
6	.03	.06	2.9	1.9	.58	1.7	2.5	.69	.06	.06	0	.12
7	.01	.03	6.5	1.2	.69	2.7	22	.66	.06	.06	0	.12
8	0	.03	2.5	.83	.48	5.9	10	.69	.06	.03	0	.12
9	0	.01	1.2	1.0	.48	3.2	7.3	6.3	.06	.01	0	.18
10	0	.01	1.0	1.7	.40	2.3	5.6	4.8	.06	.01	0	.12
11	0	.01	1.2	1.5	.40	1.7	4.2	2.8	.06	.01	0	.12
12	0	.01	1.0	1.2	.40	1.5	3.7	2.1	.06	0	0	1.5
13	0	.01	.83	1.0	8.7	1.4	18	1.7	.06	0	0	1.1
14	0	0	1.2	.83	8.7	1.2	8.5	2.0	.12	0	0	.40
15	0	0	1.7	.58	7.6	1.0	5.6	3.6	.18	0	0	.24
16	0	0	1.9	.40	6.0	2.6	14	3.2	1.8	0	0	.24
17	0	0	1.7	.40	3.8	6.2	8.5	2.8	.48	.01	0	.18
18	0	0	1.5	.40	2.9	4.2	4.8	2.1	.24	0	.26	.12
19	0	0	1.2	.48	2.3	2.3	3.8	1.5	.18	0	.46	.18
20	0	0	1.5	.48	1.7	1.7	3.8	1.2	.12	0	.32	.12
21	0	0	1.7	.40	1.4	1.7	6.9	1.0	.12	0	.18	.12
22	0	0	1.2	.40	1.3	11	26	.69	.12	.32	.33	.06
23	0	0	1.2	.58	1.5	6.1	7.7	.58	.12	.24	.40	.03
24	0	0	1.2	1.4	1.4	3.6	4.5	.40	.12	.18	.32	.06
25	.01	0	1.2	1.9	1.3	2.5	3.2	.40	.06	.12	.40	.24
26	.03	0	1.0	1.5	2.0	1.9	2.5	.32	.06	.03	.24	.62
27	.06	0	.58	1.4	2.6	1.7	2.1	.24	.03	.03	.12	1.2
28	.04	0	.40	1.2	2.3	1.4	1.7	.24	.03	.01	.12	1.2
29	.03	.05	.40	.83	2.1	1.2	1.5	.18	.23	.01	.06	1.8
30	.03	.24	.40	.69	------	1.0	1.4	.29	.32	0	.03	5.6
31	.03	------	.48	.48	------	1.2	------	.40	------	0	.01	------
TOTAL	.75	.91	37.94	30.92	64.01	92.7	187.6	45.94	5.79	1.73	3.26	17.31
MEAN	.024	.030	1.22	1.00	2.21	2.99	6.25	1.48	.19	.056	.11	.58
MAX	.12	.24	6.5	2.8	8.7	11	26	6.3	1.8	.32	.46	5.6
MIN	0	0	.01	.40	.40	1.0	1.0	.18	.03	0	0	0
CFSM	.02	.02	.90	.74	1.64	2.21	4.63	1.10	.14	.04	.08	.43
IN.	.02	.03	1.05	.85	1.76	2.55	5.17	1.27	.16	.05	.09	.48

CAL YR 1971 TOTAL 352.25 MEAN .97 MAX 18 MIN 0 CFSM .72 IN 9.71
WTR YR 1972 TOTAL 488.86 MEAN 1.34 MAX 26 MIN 0 CFSM .99 IN 13.47

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-7	0700	3.04	70	4-22	0445	3.00	64

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 miles north of Dublin. Drainage area 979 sq mi. Period of record, October 1924 to current year. Water-stage recorder. Month-end 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, 20,080 acre-ft Apr. 13 (elevation 850.90 ft); minimum, 14,650 acre-ft Nov. 16 (elevation 845.19 ft). Extremes for period of record: Maximum contents, 24,240 acre-ft Jan. 22, 1959 (elevation 854.40 ft); minimum, 43 acre-ft Feb. 11, 1945 (elevation 791.97 ft).

Reservoir if formed by concrete dam; dam completed and storage began in 1924. Usable capacity, 14,500 acre-ft, between elevations 789.5 ft (sill of outlet gate) and 845 ft (crest of spillway), based on survey made in 1942. Flashboards installed May 8, 1945, additional capacity, 2,480 acre-ft, between elevations 845 ft (crest of spillway) and 847.9 ft (crest of flashboards). Dead storage below elevation 789.5 ft, 55 acre-ft. 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 miles northwest of State Capitol building in Columbus, and 6.5 miles upstream from Olentangy River. Drainage area, 1,044 sq mi. Period of record, January 1921 to current year. Water-stage recorder. Mog.h-end 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 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, 5,700 acre-ft Apr. 13 (elevation 759.07 ft); minimum, 3,760 acre-ft Nov. 24, 25 (elevation 753.58 ft). Extremes for period of record: Maximum contents, 7,490 acre-ft Jan. 22, 1959 (elevation 763.91 ft); minimum, 38 acre-ft Jan. 24, 1945 (elevation 735.78 ft).

Reservoir formed by concrete dam; dam completed and storage began in 1905. Usable capacity, 3,700 acre-ft between elevations 735.4 (lowest outlets) and 753.4 ft (crest of spillway), based on survey made in 1935. Flashboards installed July 28, 1945, additional capacity, 750 acre-ft, between elevations 753.4 ft (crest of spillway) and 755.6 ft (crest of flashboards). Dead storage below elevation, 735.4 ft, 239 acre-ft. 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 (Formerly published as Delaware Reservoir).--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 miles north of Delaware. Drainage area, 386 sq mi. Period of record, March 1951 to current year. 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, 60,860 ft Apr. 24 (elevation 935.60 ft); minimum, 8,270 acre-ft Mar. 11 (elevation 909.86 ft). Extremes for period of record: Maximum contents, 113,000 acre-ft Jan. 25, 1959 (elevation 944.75 ft); minimum, 2,070 acre-ft Feb. 13, 1970 (elevation 899.43 ft).

Lake is formed by earthfill dam with concrete spillway; storage began Mar. 20, 1951. Usable capacity 24,500 acre-ft between elevations 884.0 ft (lowest outlet) and 922.0 ft (crest of spillway). Additional flood-control storage above elevation 922.0 ft by taintor gates on spillway, 107,500 acre-ft. Normal conservation pool storage 8,400 acre-ft (elevation 910.0 ft) winter, and 14,000 acre-ft (elevation, 915.0 ft) 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 and pollution abatement and for recreational and wildlike 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 mile northeast of Central College, and 12.0 miles northeast of Columbus. Drainage area, 190 sq mi. 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, 71,990 acre-ft May 9 (elevation 894.03 ft); minimum, 27,700 acre-ft Dec. 5 (elevation 875.22 ft). Extremes for period of record: Maximum contents, 74,470 acre-ft Jan. 21, 1959 (elevation 894.76 ft); minimum, 19,010 acre-ft Mar. 1, 1964 (elevation 868.58 ft).

Reservoir formed by earthfill dam with concrete spillway; dam completed in 1954 and storage began in March 1955. Usable capacity, 60,130 acre-ft between elevations 830.0 ft (lowest outlet) and 890.0 ft (crest of spillway). Additional flood-control storage above elevation 890.0 ft by bascule gates installed in May 1970, 25,750 acre-ft. Dead storage below elevation 830.0 ft, 214 acre-ft. 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 (Formerly published as Deer Creek Reservoir).--Lat 39°37'20", long 83°12'58", Pickaway County, in outlet tower of dam on Deer Creek, 1,000 ft upstream from Crownover Mill Road, and 2.8 miles east of Pancoastburg. Drainage area, 277 sq mi. Period of record, April 1968 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, 27,870 acre-ft May 10 (elevation 814.98 ft); minimum, 5,740 acre-ft Feb. 5 (elevation 795.02 ft). Extremes for period of record: Maximum contents, 71,830 acre-ft May 31, 1968 (elevation 835.25 ft); minimum, 1,140 acre-ft Jan. 8, 1970 (elevation 784.75 ft).

Lake formed by earthfill dam with concrete spillway; dam completed in 1968 and storage began April 1, 1968. Usable capacity 102,540 acre-ft between elevations 770.0 ft (lowest outlet) and 844.0 ft (crest of spillway). Additional flood-control storage above elevation 844.0 ft by taintor gates on spillway. Normal conservation pool storage 6,420 acre-ft (elevation 796.0 ft) winter, and 21,030 acre-ft (elevation 810.0 ft) 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 and 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.

Reservoirs in Scioto River basin

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	847.53	16,630	-	755.08	4,270	-
Oct. 31	846.49	15,710	-920	754.48	4,060	-210
Nov. 30	845.40	14,810	-900	754.58	4,100	+40
Dec. 31	849.34	18,410	+3,600	757.14	4,980	+880
CAL YR 1971	-	-	+ 990	-	-	+480
Jan. 31	848.40	17,460	-950	755.86	4,530	-450
Feb. 29	848.38	17,440	-20	755.88	4,540	+10
Mar. 31	848.65	17,710	+270	756.18	4,640	+100
Apr. 30	848.60	17,660	-50	756.00	4,580	-60
May 31	848.48	17,540	-120	755.85	4,530	-50
June 30	848.32	17,380	-160	755.65	4,460	-70
July 31	848.15	17,210	-170	755.54	4,430	-30
Aug. 31	848.10	17,160	-50	755.48	4,400	-30
Sept. 30	849.07	18,130	+970	756.78	4,860	+460
WTR YR 1972	-	-	+1,500	-	-	+590

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03225000 Delaware Lake			03228400 Hoover Reservoir		
Sept. 30	914.46	13,300	-	882.05	40,290	-
Oct. 31	913.70	12,370	-930	878.96	34,210	-6,080
Nov. 30	910.60	9,000	-3,370	875.79	28,640	-5,570
Dec. 31	911.69	10,090	+1,090	878.68	33,700	+5,060
CAL YR 1971	-	-	+1,350	-	-	-7,810
Jan. 31	910.12	8,520	-1,570	880.98	38,080	+4,380
Feb. 29	910.58	8,980	+460	883.17	42,760	+4,680
Mar. 31	910.05	8,450	-530	891.71	64,850	+ 22,090
Apr. 30	916.18	15,550	+7,100	892.94	68,480	+3,630
May 31	915.34	14,440	-1,110	892.42	66,920	+1,560
June 30	915.37	14,480	+40	890.57	61,690	-5,230
July 31	915.03	14,040	-440	889.95	59,990	-1,700
Aug. 31	915.22	14,290	+250	890.51	61,520	+1,530
Sept. 30	918.40	18,600	+4,310	891.00	62,860	+1,340
WTR YR 1972	-	-	+5,300	-	-	+22,570

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03230890 Deer Creek Lake		
Sept. 30	802.43	12,260	-
Oct. 31	795.16	5,830	-6,430
Nov. 30	795.30	5,930	+100
Dec. 31	795.49	6,060	+130
CAL YR 1971	-	-	-890
Jan. 31	795.17	5,840	-220
Feb. 29	795.37	5,980	+140
Mar. 31	795.27	5,910	-70
Apr. 30	810.27	21,380	+15,470
May 31	810.48	21,650	+270
June 30	810.28	21,390	-260
July 31	810.16	21,240	-150
Aug. 31	810.26	21,370	+130
Sept. 30	811.04	22,380	+1,010
WTR YR 1972	-	-	+10,120

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 mile downstream from Brown Run, 0.3 mile upstream from Tucker Run, 0.7 mile upstream from bridge on U.S. Highway 52 at McGaw, 2.7 miles northeast of Buena Vista, and 3.2 miles upstream from mouth.

DRAINAGE AREA.--12.2 sq mi (prior to July 21, 1972 12.8 sq mi).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 543.41 ft above mean sea level. (Ohio Department of Highways bench mark). Prior to July 21, 1972 water-stage recorder at site 0.7 mile downstream at datum 23.41 ft lower.

AVERAGE DISCHARGE.--9 years, 11.5 cfs (12.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,250 cfs Apr. 21, 22 (gage height, 5.80 ft); minimum, 0.03 cfs Aug. 31 to Sept. 3, 5-13.
Period of record: Maximum discharge, 3,500 cfs Mar. 4, 1964 (gage height, 9.7 ft, in gage well, 10.2 ft, from outside highwater mark); no flow for many days most years.
Flood of July 3, 1960 reached a stage of 11.62 ft (discharge, 7,230 cfs), on basis of contracted-opening and flow over road measurement of peak flow.

REMARKS.--Records fair prior to July 21, good thereafter. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	.34	1.4	11	7.6	25	23	11	3.1	4.4	.58	.04
2	2.3	.32	.70	21	7.0	66	22	13	2.1	2.4	.40	.03
3	2.3	.30	.55	23	7.6	72	22	38	1.6	10	.71	.06
4	1.9	.28	.50	30	13	42	53	29	1.2	7.7	7.3	.05
5	1.6	.26	.46	44	10	38	41	21	1.3	5.4	3.9	.04
6	1.4	.24	76	25	7.6	34	34	17	1.4	3.1	2.5	.03
7	1.2	.24	156	18	6.0	30	94	14	1.3	2.1	1.6	.03
8	1.1	.22	42	14	5.2	28	46	21	1.0	1.6	.97	.03
9	1.1	.24	20	62	4.7	25	23	24	.90	1.1	1.8	.03
10	.95	.20	16	47	4.2	23	19	18	.80	.90	1.7	.03
11	.76	.20	18	23	4.0	21	17	16	.70	.70	1.0	.03
12	.76	.18	12	19	5.0	20	17	14	.50	.90	1.3	.03
13	.70	.16	11	16	60	19	86	12	1.0	.70	1.7	.03
14	.65	.15	9.0	12	36	18	65	11	.90	.40	1.6	.05
15	.70	.16	12	10	26	16	43	10	2.4	.60	1.2	.05
16	.65	.15	13	9.2	21	18	53	11	11	.90	.71	.05
17	.55	.15	12	8.8	18	18	26	10	4.4	1.1	.44	.05
18	.55	.14	10	8.4	15	17	20	8.0	2.4	1.1	.33	.09
19	.42	.15	9.0	9.4	12	16	18	6.7	1.9	.90	.25	.09
20	.26	.18	17	22	9.6	14	28	6.1	2.1	.90	.21	.08
21	.26	.22	15	26	8.0	13	274	5.1	2.3	.54	.17	.08
22	.34	.22	13	21	10	41	297	4.4	1.7	.42	.13	.07
23	.34	.24	11	18	18	34	72	3.8	1.4	.36	.12	.21
24	.65	.26	11	16	298	27	45	2.9	1.3	.30	.08	1.5
25	.76	.28	9.8	23	129	22	30	2.4	1.1	.58	.08	2.3
26	.55	.28	9.0	21	137	17	23	1.9	.90	.48	.08	1.7
27	.55	.34	8.2	17	48	15	17	1.6	.70	.36	.07	9.5
28	.46	.38	8.2	13	33	14	14	1.1	.70	3.6	.05	5.4
29	.42	1.1	7.8	11	27	12	12	1.1	.90	2.4	.05	3.3
30	.38	2.5	11	9.6	------	10	11	4.8	7.4	1.4	.05	3.5
31	.32	------	12	8.4	------	16	------	6.1	------	.98	.05	------
TOTAL	27.68	10.08	552.61	616.8	987.5	781	1,545	346.0	60.40	58.32	31.13	28.48
MEAN	.89	.34	17.8	19.9	34.1	25.2	51.5	11.2	2.01	1.88	1.00	.95
MAX	2.8	2.5	156	62	298	72	297	38	11	10	7.3	9.5
MIN	.26	.14	.46	8.4	4.0	10	11	1.1	.50	.30	.05	.03
CFSM	.07	.03	1.39	1.55	2.66	1.97	4.02	.88	.16	.15	.08	.08
IN	.08	.03	1.61	1.79	2.87	2.27	4.49	1.01	.18	.17	.09	.09

CAL YR 1971 TOTAL 3,708.49 MEAN 10.2 MAX 156 MIN .06 CFSM .80 IN 11.78
WTR YR 1972 TOTAL 5,045.00 MEAN 13.8 MAX 298 MIN .03 CFSM 1.09 IN 14.78

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	0200	5.00	880	4-21	2000	5.80	1,250
2-25	2200	4.45	638	4-22	0300	5.80	1,250

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 mile downstream from Cedar Run, 7.0 miles east of West Union, and 7.1 miles upstream from Beasley Fork.

DRAINAGE AREA.--387 sq mi.

PERIOD OF RECORD.--August 1926 to November 1935, September 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 510.6 ft above mean sea level, adjustment of 1912. Prior to Nov. 22, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--41 years, 434 cfs (15.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 14,900 cfs Apr. 8 (gage height, 16.40 ft); minimum, 2.6 cfs Aug. 23, 24.
Period of record: Maximum discharge, 59,200 cfs Mar. 10, 1964 (gage height, 27.91 ft), from rating curve extended above 22,000 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	37	234	300	160	485	216	228	332	78	7.6	11
2	120	37	138	455	170	2,780	225	225	186	84	7.2	8.3
3	103	40	98	632	344	2,870	213	222	130	493	7.4	6.9
4	88	37	82	584	638	1,420	1,730	195	100	405	11	6.3
5	78	37	80	2,500	352	1,530	764	171	84	176	13	5.5
6	69	35	6,500	914	290	764	455	148	75	112	65	4.9
7	60	36	6,240	550	230	614	3,250	135	76	82	35	4.6
8	54	36	1,940	435	200	926	4,650	198	76	62	21	4.1
9	51	40	914	1,220	170	590	980	848	67	50	17	4.4
10	50	41	608	1,870	150	440	656	450	59	42	12	4.4
11	50	39	650	716	140	370	520	256	54	37	9.1	4.0
12	51	36	440	550	140	340	470	195	45	40	7.7	3.8
13	48	36	340	440	1,830	312	1,630	171	53	148	7.3	3.2
14	44	34	280	320	1,980	420	1,160	308	78	140	6.2	3.0
15	41	32	360	220	2,230	356	716	752	180	67	5.5	3.4
16	43	30	638	160	1,210	510	3,670	782	1,110	82	4.9	3.2
17	67	29	370	150	746	1,390	1,820	405	410	53	4.3	3.3
18	94	28	280	190	692	872	818	385	182	40	4.5	3.5
19	64	30	225	244	555	515	572	248	119	34	5.0	4.5
20	53	34	632	288	332	385	1,990	195	92	34	4.7	6.3
21	44	36	614	348	300	336	2,340	171	83	34	4.5	7.9
22	39	41	360	284	375	2,050	6,160	150	78	24	3.9	8.8
23	37	39	276	460	400	1,180	1,440	130	68	18	3.1	9.8
24	71	35	248	788	3,330	662	800	113	64	15	3.0	45
25	108	31	228	836	1,600	485	555	98	60	13	3.8	167
26	110	29	213	470	2,090	390	420	86	57	11	21	194
27	76	32	207	328	1,030	340	340	76	53	11	305	259
28	59	36	222	260	716	308	300	67	47	9.5	130	289
29	51	64	272	210	572	272	256	64	45	9.8	53	227
30	45	638	231	180	------	272	244	159	53	8.9	29	752
31	41	------	620	160	------	231	------	1,230	------	7.9	17	------
TOTAL	2,057	1,685	24,540	17,062	22,972	24,415	39,360	8,861	4,116	2,421.1	828.7	2,058.1
MEAN	66.4	56.2	792	550	792	788	1,312	286	137	78.1	26.7	68.6
MAX	148	638	6,500	2,500	3,330	2,870	6,160	1,230	1,110	493	305	752
MIN	37	28	80	150	140	231	213	64	45	7.9	3.0	3.0
CFSM	.17	.15	2.05	1.42	2.05	2.04	3.39	.74	.35	.20	.07	.18
IN.	.20	.16	2.36	1.64	2.21	2.35	3.78	.85	.40	.23	.08	.20

CAL YR 1971 TOTAL 162,214.0 MEAN 444 MAX 13,900 MIN 15 CFSM 1.15 IN 15.59
WTR YR 1972 TOTAL 150,375.9 MEAN 411 MAX 6,500 MIN 3.0 CFSM 1.06 IN 14.45

PEAK DISCHARGE (BASE, 11,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2015	15.33	12,800	4-8	0145	16.40	14,900

03238500 Whiteoak Creek near Georgetown, Ohio

LOCATION.--Lat 38°50'42", long 83°55'16", Brown County, on left bank at upstream side of bridge on State Highway 221, 600 ft downstream from Opossum Run, 1.8 miles southwest of Georgetown, and 6.5 miles upstream from mouth.

DRAINAGE AREA.--222 sq mi.

PERIOD OF RECORD.--October 1923 to November 1935, October 1939 to current year.

GAGE.--Nonrecording gage read twice daily. Since Nov. 7, 1950 supplementary water-stage recorder for high-water periods when stage exceeds 6.85 ft. Datum of gage is 569.21 ft above mean sea level, adjustment of 1912. Prior to Feb. 8, 1940, and Dec. 9, 1948, to Sept. 30, 1949, nonrecording gage and Feb. 8, 1940, to Dec. 8, 1948, water-stage recorder at same site at datum 8.00 ft higher.

AVERAGE DISCHARGE.--45 years, 242 cfs (14.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,210 cfs Dec. 7 (gage height, 7.05 ft); minimum, 0.9 cfs Sept. 20.
Period of record: Maximum discharge, 22,400 cfs Mar. 10, 1964; maximum gage height, 20.87 ft, present datum, May 14, 1933; no flow at times in 1930, 1940-41, 1943, 1948, 1951-53, 1959, 1969, 1970.

REMARKS.-- Records fair. 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	16	200	218	50	220	86	74	320	123	3.4	1.5
2	54	16	104	264	50	2,240	85	81	133	55	3.7	.63
3	43	15	73	445	81	1,850	85	86	84	85	3.7	1.7
4	37	17	58	632	188	805	1,690	88	60	178	27	1.5
5	32	17	96	2,090	101	1,020	558	66	46	81	7.9	.89
6	26	17	3,090	460	101	302	192	55	48	49	46	.23
7	21	19	5,050	180	82	190	2,230	48	41	41	20	.28
8	20	18	1,480	140	66	260	2,940	130	39	26	11	1.6
9	20	21	470	721	52	208	412	906	32	18	7.9	.75
10	21	21	278	1,460	40	130	230	293	26	16	4.7	.40
11	21	21	314	450	38	112	172	130	21	13	3.5	.51
12	21	20	202	230	36	104	164	86	20	47	3.0	.25
13	21	20	130	160	155	107	1,510	81	21	16	2.6	.28
14	18	19	112	120	730	174	711	608	23	52	2.4	.21
15	17	18	356	84	1,940	172	334	1,410	22	20	2.2	.35
16	18	17	700	50	962	1,180	3,760	953	889	13	2.2	.25
17	27	16	205	44	588	1,950	1,410	278	286	12	1.8	.17
18	25	15	126	50	748	737	305	150	92	9.6	1.8	.19
19	24	16	89	66	485	263	176	109	55	8.6	1.7	.21
20	17	15	185	89	156	164	1,750	84	41	9.2	2.0	.13
21	16	20	402	98	132	130	1,020	70	32	7.3	1.7	.21
22	14	34	200	113	233	2,480	2,450	59	26	5.8	2.0	.17
23	14	28	125	210	202	976	540	49	23	5.3	1.7	.19
24	23	23	98	588	2,240	311	239	41	21	3.9	2.0	12
25	65	18	91	384	954	190	156	32	20	18	1.7	45
26	63	16	81	176	1,910	152	121	30	19	5.8	1.6	101
27	42	18	81	106	588	123	102	21	18	3.7	1.4	173
28	30	20	110	84	314	110	89	21	16	2.6	8.6	710
29	25	472	172	72	281	104	81	321	15	2.6	6.8	137
30	20	915	775	60	------	104	75	679	16	3.4	2.8	1,090
31	18	------	994	52	------	95	------	2,500	------	3.7	1.6	------
TOTAL	882	1,918	16,447	9,896	13,543	16,963	23,673	9,539	2,505	934.5	190.4	2,280.60
MEAN	28.5	63.9	531	319	467	547	789	308	83.5	30.1	6.14	76.0
MAX	69	915	5,050	2,090	2,240	2,480	3,760	2,500	889	178	46	1,090
MIN	14	15	58	44	36	95	75	21	15	2.6	1.4	.13
CFSM	.13	.29	2.39	1.44	2.10	2.46	3.55	1.39	.38	.14	.03	.34
IN.	.15	.32	2.76	1.66	2.27	2.84	3.97	1.60	.42	.16	.03	.38

CAL YR 1971 TOTAL 99,688.30 MEAN 273 MAX 7,430 MIN 2.4 CFSM 1.23 IN 16.70
WTR YR 1972 TOTAL 98,771.50 MEAN 270 MAX 5,050 MIN .13 CFSM 1.22 IN 16.55

PEAK DISCHARGE (BASE, 5,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0630	7.05	6,210	4-16	1300	6.86	5,940
4-7	2300	6.84	5,920				

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 mile downstream from Conner Branch, 0.9 mile upstream from Massies Creek, and 1.3 miles northeast of Oldtown.

DRAINAGE AREA.--129 sq mi.

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.56 ft above mean sea level.

AVERAGE DISCHARGE.--20 years, 99.4 cfs (10.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,830 cfs May 9 (gage height, 6.66 ft); minimum, 12 cfs Nov. 19, 20.
Period of record: Maximum discharge, 14,800 cfs Jan. 21, 1959 (gage height, 12.20 ft), from rating curve extended above 4,400 cfs on basis of slope-area measurement of peak flow; minimum, 5.4 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	46	276	46	117	107	140	110	153	30	17
2	22	21	36	221	50	310	100	136	93	103	28	19
3	17	21	30	201	62	316	92	122	84	84	30	20
4	18	23	28	191	52	221	103	111	82	71	32	19
5	17	17	27	220	46	178	94	105	77	66	31	20
6	14	19	52	179	44	139	91	105	74	59	32	18
7	15	19	249	153	40	132	316	101	76	59	35	17
8	17	20	278	132	38	150	316	215	66	53	48	16
9	17	20	177	147	36	130	239	1,010	66	56	35	18
10	21	19	142	217	34	110	211	886	73	57	29	17
11	20	19	124	192	38	105	184	405	65	66	27	16
12	19	22	102	160	50	105	197	288	63	56	24	27
13	22	14	89	147	69	103	649	295	93	48	25	56
14	25	16	160	121	100	115	355	529	113	46	23	44
15	24	20	396	88	261	107	269	365	89	54	23	30
16	40	19	294	72	265	137	631	285	81	66	23	25
17	29	17	200	90	203	249	601	237	74	59	20	23
18	26	17	148	100	195	227	353	201	69	47	22	21
19	24	14	124	90	140	168	269	177	66	42	20	22
20	25	17	125	79	100	143	249	156	63	41	23	21
21	25	18	125	77	80	134	251	144	59	38	22	20
22	23	17	109	75	72	482	532	133	56	37	20	19
23	25	18	98	83	80	417	388	126	56	39	21	17
24	25	19	94	83	89	270	285	117	60	41	26	23
25	27	17	87	80	78	219	231	110	59	44	26	29
26	26	15	85	66	79	182	194	98	57	38	23	37
27	25	21	81	62	75	165	171	93	48	33	22	62
28	25	18	89	56	74	153	154	91	46	32	22	59
29	22	25	89	50	86	139	149	93	103	31	20	48
30	21	52	408	46	------	127	144	117	255	33	17	103
31	23	------	539	44	------	115	------	135	------	34	17	------
TOTAL	700	594	4,631	3,798	2,582	5,665	7,925	7,126	2,376	1,686	796	883
MEAN	22.6	19.8	149	123	89.0	183	264	230	79.2	54.4	25.7	29.4
MAX	40	52	539	276	265	482	649	1,010	255	153	48	103
MIN	14	14	27	44	34	103	91	91	46	31	17	16
CFSM	.18	.15	1.16	.95	.69	1.42	2.05	1.78	.61	.42	.20	.23
IN.	.20	.17	1.34	1.10	.74	1.63	2.29	2.05	.69	.49	.23	.25

CAL YR 1971 TOTAL 30,301 MEAN 83.0 MAX 1,550 MIN 12 CFSM .64 IN 8.74
WTR YR 1972 TOTAL 38,762 MEAN 106 MAX 1,010 MIN 14 CFSM .82 IN 11.18

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	0115	4.81	904	5-9	2000	6.66	1,830
4-16	2130	4.69	862				

03241500 Massies Creek at Wilberforce, Ohio

LOCATION.--Lat 39°43'22", long 83°52'58", Greene County, on right bank 200 ft downstream from bridge on Wilberforce-Clinton Road, 0.5 mile northwest of Wilberforce, 0.6 mile downstream from unnamed right bank tributary and 1.7 miles upstream from Clark Run.

DRAINAGE AREA.--63.2 sq mi.

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 above mean sea level. Prior to Aug. 4, 1972 at site 150 ft upstream at same datum.

AVERAGE DISCHARGE.--20 years, 54.8 cfs (11.77 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,220 cfs Apr. 12 (gage height, 6.53 ft); minimum, 5.6 cfs Sept. 12. Period of record: Maximum discharge, 7,300 cfs Jan. 21, 1959, Mar. 4, 1963, (gage height, 11.25 ft), from rating curve extended above 2,100 cfs on basis of contracted-opening measurement of peak flow; minimum, 0.3 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	49	154	24	83	54	64	47	34	11	6.6
2	13	16	37	136	28	265	50	61	42	30	11	6.6
3	12	16	31	124	37	231	47	56	37	30	9.9	7.1
4	12	14	28	116	23	156	50	51	35	27	9.9	8.4
5	12	13	25	132	22	119	44	47	32	27	9.5	7.5
6	11	13	71	108	21	89	44	44	32	25	27	6.9
7	11	13	235	90	20	83	189	42	31	24	113	6.4
8	11	12	231	74	19	95	187	195	28	23	56	6.3
9	13	12	154	91	18	80	156	671	29	23	43	6.9
10	14	13	126	138	17	67	144	541	31	24	35	6.6
11	13	12	110	117	20	62	117	233	26	25	21	6.0
12	11	11	94	96	24	60	195	160	25	32	13	14
13	10	11	78	80	35	60	848	195	57	27	9.9	45
14	13	10	129	60	57	65	460	338	89	23	9.5	37
15	11	9.9	255	40	166	62	258	213	62	22	9.4	24
16	17	9.9	191	44	160	85	505	153	59	31	9.4	19
17	19	9.5	136	52	123	151	448	123	49	25	9.4	16
18	19	9.5	100	48	116	133	231	101	42	19	8.9	13
19	18	12	83	44	96	98	169	86	37	38	8.6	12
20	16	12	86	40	60	82	159	77	34	67	9.0	11
21	15	12	88	42	50	83	163	68	34	32	8.4	11
22	16	11	72	42	44	268	290	62	31	24	8.3	11
23	16	9.5	65	48	46	207	201	56	30	20	17	11
24	19	9.5	62	51	49	142	154	51	30	16	22	19
25	23	9.5	55	46	43	117	123	47	28	16	16	26
26	25	9.5	54	38	45	96	102	43	27	13	12	34
27	22	12	50	34	42	88	88	40	34	13	11	65
28	20	13	49	30	44	78	78	38	33	13	9.8	75
29	18	25	45	27	55	70	71	38	29	12	9.0	59
30	17	68	207	25	------	62	66	53	41	11	8.3	155
31	16	------	288	23	------	56	------	59	------	11	7.4	------
TOTAL	477	423.8	3,284	2,190	1,504	3,393	5,691	4,006	1,141	757	562.6	732.3
MEAN	15.4	14.1	106	70.6	51.9	109	190	129	38.0	24.4	18.1	24.4
MAX	25	68	288	154	166	268	848	671	89	67	113	155
MIN	10	9.5	25	23	17	56	44	38	25	11	7.4	6.0
CFSM	.24	.22	1.68	1.12	.82	1.72	3.01	2.04	.60	.39	.29	.39
IN.	.28	.25	1.93	1.29	.89	2.00	3.35	2.36	.67	.45	.33	.43

CAL YR 1971 TOTAL 19,559.1 MEAN 53.6 MAX 1,340 MIN 3.6 CFSM .85 IN 11.51
WTR YR 1972 TOTAL 24,161.7 MEAN 66.0 MAX 848 MIN 6.0 CFSM 1.04 IN 14.22

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-12	2330	6.53	1,220	4-16	2030	5.24	664
4-13	1730	6.20	1,050	5-10	0030	5.54	776

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 mile upstream from unnamed right bank tributary, 2.2 miles southwest of Spring Valley, and 2.8 miles downstream from Glady Run.

DRAINAGE AREA.--366 sq mi.

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 above mean sea level. Prior to Dec. 12, 1939 non-recording gage and Dec. 13, 1939 to Dec. 31, 1951 water-stage recorder at site 2.5 miles upstream at datum 8.6 ft higher.

AVERAGE DISCHARGE.--26 years (1925-35, 1939-51, 1969-72), 367 cfs (13.62 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,090 cfs Apr. 13 (gage height, 10.86 ft); minimum, 76 cfs Sept. 10, 11.
Period of record: Maximum discharge, 18,400 cfs Feb. 26, 1929 (gage height 16.8 ft site and datum then in use); minimum, 23 cfs July 27, 1934.
Flood of Jan. 21, 1959 reached a stage of 18.1 ft (revised) at present site and datum (discharge, 36,400 cfs).

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	108	230	840	190	368	340	452	358	358	119	84
2	99	122	189	712	200	1,090	325	442	310	250	113	103
3	95	119	168	636	220	1,060	313	403	275	230	116	181
4	87	107	157	616	200	732	347	375	258	208	116	122
5	87	104	148	688	190	612	313	351	245	198	112	97
6	82	101	470	576	180	470	301	334	258	186	106	92
7	80	117	1,100	488	170	435	1,530	322	245	178	214	88
8	80	99	972	431	160	470	1,060	1,610	226	174	202	86
9	93	103	664	548	150	421	884	2,460	218	166	163	87
10	124	103	524	668	140	375	728	2,310	220	166	138	83
11	97	99	449	608	150	347	624	1,200	208	175	122	79
12	92	99	382	508	170	344	720	856	200	172	119	172
13	89	98	344	440	255	344	3,500	956	948	169	113	250
14	136	89	872	380	375	365	1,820	1,460	776	160	106	186
15	104	90	1,390	300	756	347	1,160	1,070	414	153	103	147
16	500	95	984	250	808	492	2,380	820	354	181	101	124
17	258	91	656	280	592	764	2,040	696	298	180	98	113
18	177	89	496	300	560	696	1,120	604	265	163	95	104
19	156	104	414	320	496	532	872	532	245	150	93	112
20	138	102	463	301	350	449	844	477	230	187	117	101
21	129	97	438	292	300	435	872	438	222	172	93	97
22	129	91	386	280	270	1,410	1,590	410	212	163	93	93
23	120	91	347	322	300	1,140	1,120	386	206	144	141	89
24	168	91	331	328	310	776	856	358	216	139	130	151
25	169	93	310	307	292	632	708	340	206	166	154	165
26	151	87	298	263	322	536	608	316	196	139	113	198
27	142	103	292	240	301	484	540	292	190	127	127	214
28	132	104	304	220	292	449	492	280	181	122	97	248
29	124	150	286	200	310	421	463	286	200	116	98	224
30	116	228	1,340	190	------	393	470	431	403	113	90	477
31	111	------	1,510	180	------	354	------	456	------	113	87	------
TOTAL	4,166	3,174	16,914	12,712	9,009	17,743	28,940	21,723	8,783	5,318	3,689	4,367
MEAN	134	106	546	410	311	572	965	701	293	172	119	146
MAX	500	228	1,510	840	808	1,410	3,500	2,460	948	358	214	477
MIN	80	87	148	180	140	344	301	280	181	113	87	79
CFSM	.37	.29	1.49	1.12	.85	1.56	2.64	1.92	.80	.47	.33	.40
IN.	.42	.32	1.72	1.29	.92	1.80	2.94	2.21	.89	.54	.37	.44

CAL YR 1971 TOTAL 109,642 MEAN 300 MAX 3,090 MIN 40 CFSM .82 IN 11.14
WTR YR 1972 TOTAL 136,538 MEAN 373 MAX 3,500 MIN 79 CFSM 1.02 IN 13.88

PEAK DISCHARGE (BASE, 3,600 CFS).--Apr. 13 (0930) 4,090 cfs (10.86 ft).

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 mile downstream from unnamed left bank tributary, 4.5 miles south of Xenia, and 7.4 miles upstream from Anderson Fork.

DRAINAGE AREA.--71.4 sq mi.

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 894.18 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 2,220 cfs Apr. 13 (gage height, 10.64 ft); minimum daily, 1.3 cfs Aug. 20, 21.
Period of record: Maximum discharge, 2,820 cfs Apr. 2, 1970 (gage height, 11.86 ft); minimum daily, 0.44 cfs Oct. 9, 1970.

REMARKS.--Records good except those for January and February, which are fair. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee, 7.2 miles upstream, drainage area 10.9 sq mi. (Summer storage is about 1,100 acre-feet 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	100	28	138	24	109	40	52	46	15	3.2	2.2
2	2.4	87	21	148	26	451	37	52	35	13	3.0	2.0
3	2.0	72	18	124	32	242	43	45	30	13	2.9	2.9
4	2.0	57	16	128	26	150	74	39	26	12	3.3	3.4
5	2.0	45	15	156	23	105	30	35	23	12	2.7	2.9
6	2.0	36	131	114	21	72	30	32	22	10	2.5	2.9
7	2.0	30	376	92	19	68	443	31	23	9.4	2.9	2.7
8	2.0	25	239	81	18	85	325	654	19	8.7	3.5	2.4
9	2.8	22	146	164	17	63	222	998	18	9.0	3.1	2.4
10	5.1	20	118	211	16	50	158	451	18	8.4	2.7	2.4
11	5.7	18	97	152	15	46	117	260	17	8.7	2.4	2.2
12	3.6	22	79	117	17	45	201	120	16	16	2.2	52
13	3.2	19	63	86	46	46	1,350	238	218	17	2.0	31
14	3.9	17	233	66	127	56	433	460	180	13	2.0	9.0
15	3.9	16	301	54	341	50	355	225	70	11	1.8	5.9
16	14	14	191	48	182	117	890	114	72	12	1.7	4.3
17	15	12	125	50	128	254	494	87	49	11	1.6	3.8
18	11	12	88	46	110	153	275	73	38	9.4	1.5	3.6
19	8.6	7.8	76	42	80	94	152	62	31	8.4	1.4	3.6
20	7.1	6.9	99	40	60	73	170	54	28	8.4	1.3	3.4
21	6.3	7.3	95	38	50	80	205	48	27	7.5	1.3	3.4
22	6.5	6.6	72	36	44	427	430	42	24	6.6	1.8	3.1
23	6.8	5.9	65	42	42	216	228	37	22	6.3	37	2.9
24	10	5.4	62	46	40	127	135	33	22	6.6	15	4.8
25	15	5.1	63	40	40	139	104	30	20	7.8	9.0	9.0
26	13	4.9	61	34	44	123	84	26	18	6.9	5.3	17
27	12	7.0	55	30	48	72	72	23	16	6.1	4.1	22
28	10	7.9	53	27	50	60	62	22	15	5.6	3.6	6.6
29	9.0	23	47	25	61	54	56	22	17	5.0	2.9	43
30	8.3	45	314	23	------	45	55	63	17	4.3	2.9	275
31	10	------	231	22	------	40	------	70	------	3.8	2.5	------
TOTAL	208.0	756.8	3,578	2,420	1,747	3,712	7,270	4,498	1,177	291.9	133.1	531.8
MEAN	6.71	25.2	115	78.1	60.2	120	242	145	39.2	9.42	4.29	17.7
MAX	15	100	376	211	341	451	1,350	998	218	17	37	275
MIN	2.0	4.9	15	22	15	40	30	22	15	3.8	1.3	2.0
CFSM	.09	.35	1.61	1.09	.84	1.68	3.39	2.03	.55	.13	.06	.25
IN.	.11	.39	1.86	1.26	.91	1.93	3.79	2.34	.61	.15	.07	.28

CAL YR 1971 TOTAL 20,635.8 MEAN 56.5 MAX 1,550 MIN 1.5 CFSM .79 IN 10.75
WTR YR 1972 TOTAL 26,323.6 MEAN 71.9 MAX 1,350 MIN 1.3 CFSM 1.01 IN 13.71

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	0400	10.64	2,220	5-8	1600	9.00	1,410
4-16	1200	8.65	1,270				

03242200 Anderson Fork near New Burlington, Ohio

LOCATION.--Lat 39°33'59", long 83°54'10", Greene (corrected) County, on right bank at downstream side of bridge on Old Winchester Trail, 1.0 mile downstream from Painters Run, 3.4 miles east of New Burlington, and 5.0 miles upstream from mouth.

DRAINAGE AREA.--77.8 sq mi.

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 883.67 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 2,090 cfs Apr. 13 (gage height, 10.98 ft); minimum, 0.42 cfs Sept. 3.
Period of record: Maximum discharge, 2,610 cfs Apr. 2, 1970 (gage height, 12.22 ft); minimum, 0.08 cfs Sept. 24, 25, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	14	47	113	16	106	38	56	77	7.0	2.4	.51
2	9.0	13	32	122	15	419	31	54	58	11	1.9	.46
3	9.0	14	27	112	15	282	26	52	47	9.6	1.8	.61
4	9.0	12	24	109	15	172	44	46	36	7.6	1.9	1.9
5	7.6	12	20	157	14	125	46	40	29	6.4	1.9	1.8
6	7.2	10	178	122	12	84	41	36	30	4.6	1.8	1.2
7	7.6	10	528	93	10	77	614	34	28	4.1	1.6	.77
8	7.6	9.0	356	70	9.0	65	478	310	25	3.6	1.5	.66
9	10	8.6	219	136	8.2	56	326	736	22	3.6	1.3	.66
10	11	9.6	165	225	7.8	50	252	384	16	3.6	1.1	.51
11	9.0	9.6	137	162	9.2	45	171	213	9.6	3.6	.95	.46
12	8.1	8.6	108	120	11	47	234	155	8.2	3.6	.89	29
13	8.1	8.6	84	103	34	46	1,350	209	177	13	.89	26
14	9.0	9.0	116	70	119	61	862	375	283	39	.89	3.1
15	8.6	8.1	197	50	890	56	387	228	183	11	.83	3.1
16	19	7.6	172	46	337	116	883	160	348	5.2	.83	2.2
17	98	8.6	117	42	165	260	544	130	240	3.6	.71	1.7
18	58	8.1	83	38	120	188	280	100	110	3.6	.61	1.3
19	42	8.6	68	36	56	116	199	84	78	3.6	.56	1.0
20	30	10	80	34	38	86	220	74	60	3.6	.56	.80
21	23	10	84	32	34	91	250	66	51	5.8	.61	.70
22	19	8.6	63	32	31	470	526	60	40	3.6	.66	.63
23	19	7.2	59	37	29	273	295	54	34	3.6	.89	.57
24	21	6.8	56	43	34	164	191	48	29	3.6	.95	4.6
25	43	6.4	47	46	42	133	139	42	22	3.6	1.0	9.4
26	40	6.8	49	32	48	101	98	38	18	3.6	1.0	18
27	31	8.1	44	26	51	86	82	33	16	3.6	.95	37
28	26	11	41	23	53	73	72	29	11	3.6	.95	29
29	19	24	34	20	72	64	64	27	17	3.1	.77	18
30	16	70	202	18	------	51	60	81	36	3.1	.61	115
31	15	------	190	17	------	40	------	127	------	3.1	.56	------
TOTAL	649.4	357.9	3,627	2,286	2,295.2	4,003	8,803	4,081	2,138.8	191.2	33.87	310.64
MEAN	20.9	11.9	117	73.7	79.1	129	293	132	71.3	6.17	1.09	10.4
MAX	98	70	528	225	890	470	1,350	736	348	39	2.4	115
MIN	7.2	6.4	20	17	7.8	40	26	27	8.2	3.1	.56	.46
CFSM	.27	.15	1.50	.95	1.02	1.66	3.77	1.70	.92	.08	.01	.13
IN.	.31	.17	1.73	1.09	1.10	1.91	4.21	1.95	1.02	.09	.02	.15

CAL YR 1971 TOTAL 25,136.90 MEAN 68.9 MAX 1,830 MIN 1.8 CFSM .89 IN 12.02
WTR YR 1972 TOTAL 28,777.01 MEAN 78.6 MAX 1,350 MIN .46 CFSM 1.01 IN 13.76

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-15	1530	9.70	1,380	4-13	1100	10.98	2,090
4-12	2230	9.42	1,240	4-16	0930	8.99	1,190

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 mile north of Harveysburg, 2.3 miles downstream from Turkey Run, and 3.1 miles upstream from Jonahs Run.

DRAINAGE AREA.--209 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 781.83 ft above mean sea level. June 19 to Oct. 10, 1962, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--12 years, 190 cfs (12.35 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,250 cfs Apr. 13 (gage height, 10.15 ft); minimum, 2.2 cfs Sept. 12.
Period of record: Maximum discharge, 24,000 cfs May 24, 1968 (gage height 18.70 ft), from rating curve extended above 5,200 cfs 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, from floodmark (discharge, 26,000 cfs), from rating curve extended above 12,000 cfs.

REMARKS.--Records good. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee 20.5 miles upstream, drainage area 10.9 sq mi. (Summer storage is about 1,100 acre-feet 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	77	121	370	70	262	132	176	190	72	9.3	3.4
2	16	116	80	370	76	1,340	121	173	138	53	8.8	3.2
3	15	105	65	350	90	836	110	153	113	49	8.8	4.2
4	14	89	59	330	70	495	175	135	93	46	11	8.2
5	13	74	53	450	60	320	132	121	80	42	9.8	6.3
6	12	63	278	342	54	230	123	108	82	39	7.7	5.4
7	12	54	1,270	278	48	210	1,810	103	80	35	7.1	4.5
8	12	45	902	218	44	200	1,200	1,240	68	33	7.1	3.6
9	12	38	535	385	42	180	800	2,590	65	31	6.3	3.6
10	17	35	405	605	40	160	620	1,200	63	31	6.3	2.8
11	18	34	346	460	38	153	480	640	54	29	6.0	2.6
12	15	33	270	320	36	147	846	405	51	28	5.4	52
13	13	33	218	260	76	144	3,820	520	581	36	5.1	156
14	15	30	447	180	240	176	1,630	1,140	734	67	4.8	36
15	15	29	728	120	900	166	980	640	365	45	4.2	19
16	35	25	545	120	605	310	2,540	405	575	38	3.9	12
17	128	23	360	130	390	758	1,420	314	410	34	3.6	9.8
18	102	20	266	120	260	530	770	262	262	29	3.4	7.7
19	76	22	214	110	180	330	505	218	173	26	3.4	6.6
20	56	19	254	110	150	254	565	187	138	23	3.2	5.7
21	45	18	270	110	130	242	610	166	123	22	3.0	4.8
22	38	17	210	108	120	1,380	1,330	150	105	24	3.4	4.8
23	35	14	180	129	110	758	722	132	91	19	26	4.5
24	44	12	173	138	110	455	470	116	89	18	43	7.0
25	74	11	156	120	110	375	355	105	78	19	22	20
26	86	11	156	94	120	334	294	96	70	18	14	40
27	70	13	147	80	130	246	250	85	63	18	9.8	72
28	61	15	141	70	141	214	214	78	56	14	7.7	87
29	48	34	123	62	170	183	198	74	67	12	6.0	74
30	41	156	695	56	------	159	187	183	74	11	5.1	535
31	37	------	635	60	------	135	------	302	------	9.8	4.2	------
TOTAL	1,193	1,265	10,302	6,655	4,610	11,682	23,409	12,217	5,131	970.8	269.4	1,201.7
MEAN	38.5	42.2	332	215	159	377	780	394	171	31.3	8.69	40.1
MAX	128	156	1,270	605	900	1,380	3,820	2,590	734	72	43	535
MIN	12	11	53	56	36	135	110	74	51	9.8	3.0	2.6
CFSM	.18	.20	1.59	1.03	.76	1.80	3.73	1.89	.82	.15	.04	.19
IN.	.21	.23	1.83	1.18	.82	2.08	4.17	2.17	.91	.17	.05	.21

CAL YR 1971 TOTAL 65,610.3 MEAN 180 MAX 4,450 MIN 7.0 CFSM .86 IN 11.68
WTR YR 1972 TOTAL 78,905.9 MEAN 216 MAX 3,820 MIN 2.6 CFSM 1.03 IN 14.04

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-12	2230	9.35	4,540	4-16	1100	8.09	3,530
4-13	1100	10.15	5,250	5- 8	2000	7.41	3,030

03242350 Caesar Creek near Wellman, Ohio

LOCATION.--Lat 39°28'57", long 84°03'52", Warren County, on downstream side of bridge on O'Neall Road, 0.5 mile downstream from Flat Fork, 1.6 miles west of Wellman, 2.8 miles upstream from mouth, and 3.2 miles southwest of Harveysburg.

DRAINAGE AREA.--239 sq mi.

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

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 730.03 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 214 cfs (12.16 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,020 cfs Apr. 13 (gage height, 14.16 ft); minimum, 2.1 cfs Aug. 21, 22.
Period of record: Maximum discharge, 25,000 cfs May 24, 1968 (gage height, 21.7 ft), from rating curve extended above 4,700 cfs on the basis of slope-conveyance study); minimum, 0.50 cfs Aug. 24, 1965 (gage height, 3.88 ft).
Flood of Jan. 21, 1959 reached a stage of 24.03 ft, from information by Ohio Division of Water (discharge, about 29,000 cfs, from flood study).

REMARKS.--Records good except those for January and February, which are fair. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee 26 miles upstream, drainage area 10.9 sq mi. (Summer storage is about 1,100 acre-feet 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	31	144	460	68	301	124	156	200	64	11	4.3
2	18	97	82	426	76	1,260	114	156	145	53	11	3.7
3	16	91	58	387	84	680	107	131	122	43	11	5.1
4	16	75	44	370	78	560	200	110	104	39	12	8.4
5	16	65	39	560	70	454	147	101	86	38	12	10
6	16	50	252	400	64	271	117	89	89	38	10	7.8
7	15	46	1,310	289	56	235	2,550	84	86	38	9.4	6.4
8	15	42	988	200	52	210	2,340	1,410	74	36	10	6.0
9	16	39	596	382	49	180	1,040	2,590	71	32	8.1	5.7
10	19	37	359	704	46	170	760	1,360	69	31	7.8	4.0
11	20	36	380	568	44	168	544	740	64	32	6.8	2.6
12	19	36	292	440	42	158	440	471	54	34	6.6	42
13	18	36	218	300	74	155	2,460	650	703	39	6.0	164
14	19	34	232	220	310	250	2,410	1,320	780	47	5.3	33
15	19	32	604	160	1,340	180	1,260	704	382	51	4.9	16
16	22	28	616	140	717	359	2,770	450	574	43	4.6	12
17	74	27	373	140	464	884	1,560	331	382	36	4.0	10
18	91	26	256	130	270	648	852	259	212	32	3.7	8.9
19	60	26	196	120	180	404	568	202	143	28	3.2	7.8
20	46	25	256	120	150	286	680	180	113	26	4.0	6.6
21	38	24	268	110	140	242	688	153	101	23	2.2	6.0
22	34	21	205	110	130	1,320	1,490	156	86	27	2.2	5.7
23	32	21	172	174	120	848	856	165	76	20	3.6	5.3
24	39	24	164	158	120	560	513	137	74	19	48	6.0
25	51	24	153	149	120	443	373	120	66	19	24	15
26	67	24	138	102	130	380	286	107	59	17	15	23
27	52	22	135	91	149	274	218	95	52	18	11	58
28	46	21	131	80	153	228	194	88	46	16	9.1	72
29	41	62	127	72	198	188	176	88	77	13	7.8	58
30	34	160	647	66	------	166	166	159	67	11	6.4	350
31	32	------	770	60	------	137	------	335	------	11	4.9	------
TOTAL	1,021	1,282	10,205	7,688	5,494	12,599	26,003	13,097	5,157	974	285.6	963.3
MEAN	32.9	42.7	329	248	189	406	867	422	172	31.4	9.21	32.1
MAX	91	160	1,310	704	1,340	1,320	2,770	2,590	780	64	48	350
MIN	15	21	39	60	42	137	107	84	46	11	2.2	2.6
CFSM	.14	.18	1.38	1.04	.79	1.70	3.63	1.77	.72	.13	.04	.13
IN.	.16	.20	1.59	1.20	.86	1.96	4.05	2.04	.80	.15	.04	.15

CAL YR 1971 TOTAL 71,750.0 MEAN 197 MAX 3,960 MIN 6.2 CFSM .82 IN 11.17
WTR YR 1972 TOTAL 84,768.9 MEAN 232 MAX 2,770 MIN 2.2 CFSM .97 IN 13.19

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	1300	12.65	4,090	4-16	1200	13.15	4,680
4-13	2000	14.16	6,020	5- 8	2000	11.96	3,400

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 mile downstream from Lick Run, 1.6 miles southeast of Roachester, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--219 sq mi.

PERIOD OF RECORD.--September 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 679.40 ft above mean sea level.

AVERAGE DISCHARGE.--20 years, 209 cfs.

EXTREMES.--Current year: Maximum discharge, about 7,600 cfs Apr. 13 (gage height, 14.3 ft from flood mark); minimum, 0.55 cfs Sept. 1, 2.
Period of record: Maximum discharge, 25,500 cfs Jan. 21, 1959 (gage height, 19.50 ft), from rating curve extended above 12,000 cfs 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 poor. Some regulation by Cowan Lake on Cowan Creek, 17.2 miles upstream (capacity, 12,000 acre-ft). 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	22	400	420	70	1,200	140	160	240	151	8.2	.60
2	32	26	360	360	80	1,600	120	141	158	101	7.8	1.1
3	28	38	320	320	74	1,100	110	124	118	77	8.2	10
4	25	34	280	290	68	460	180	104	94	66	9.7	23
5	22	30	240	460	62	300	140	91	78	56	12	12
6	20	36	350	320	58	220	120	81	66	48	17	7.8
7	18	30	1,500	200	54	180	1,900	74	78	39	16	5.1
8	17	24	800	150	52	170	1,500	2,010	58	35	10	4.1
9	20	20	360	180	50	160	1,100	1,910	48	32	6.9	3.3
10	26	18	280	460	48	150	850	830	45	29	6.0	2.3
11	24	17	240	400	46	140	660	425	40	28	4.6	2.3
12	22	16	200	300	44	130	500	288	31	27	4.1	2.3
13	24	15	170	200	42	120	3,400	624	940	26	3.6	95
14	36	14	220	160	110	130	1,500	935	1,120	24	3.1	47
15	54	14	600	120	850	150	900	488	1,170	25	2.8	31
16	110	13	420	100	600	200	2,500	428	4,090	25	2.3	18
17	76	13	330	110	400	500	1,500	303	845	24	2.0	16
18	52	13	240	100	300	420	700	238	392	24	1.8	11
19	40	16	170	96	220	320	404	181	260	21	1.6	8.4
20	34	14	130	92	180	240	564	149	195	19	1.6	7.0
21	30	13	180	90	160	340	556	129	160	43	1.3	6.0
22	30	13	230	90	140	1,500	1,500	112	132	44	1.3	5.1
23	36	13	180	96	120	1,000	660	97	106	31	1.5	4.1
24	42	12	160	100	110	540	404	83	94	24	1.6	5.7
25	36	12	140	140	110	400	285	67	90	22	4.8	11
26	32	12	130	120	140	320	215	61	79	18	4.6	26
27	30	13	120	110	240	280	176	57	68	16	4.1	33
28	28	18	110	100	350	240	151	49	57	14	2.6	48
29	26	50	100	90	900	200	135	46	66	12	2.0	56
30	24	200	320	76	------	180	141	504	187	11	1.6	221
31	23	------	660	60	------	160	------	520	------	9.3	.94	------
TOTAL	1,055	779	9,940	5,910	5,678	13,050	23,011	11,309	11,105	1,121.3	155.64	723.20
MEAN	34.0	26.0	321	191	196	421	767	365	370	36.2	5.02	24.1
MAX	110	200	1,500	460	900	1,600	3,400	2,010	4,090	151	17	221
MIN	17	12	100	60	42	120	110	46	31	9.3	.94	.60

CAL YR 1971 TOTAL 65,279.10 MEAN 179 MAX 7,360 MIN 4.0
WTR YR 1972 TOTAL 83,837.14 MEAN 229 MAX 4,090 MIN .60

PEAK DISCHARGE (BASE, 4,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	unknown	14.3	about 7,600	6-16	0230	13.50	6,440
6-13	2200	12.07	4,540				

03245500 Little Miami River at Milford, Ohio

LOCATION.--Lat 39°10'17", long 84°17'53", Clermont County, on right bank 500 ft downstream from Wooster Pike Bridge on U.S. Highway 50 in Milford, 1.2 miles upstream from East Fork, and 6.4 miles downstream from North Branch Creek.

DRAINAGE AREA.--1,203 sq mi.

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 above mean sea level, adjustment of 1912. June 22, 1915, to May 14, 1920, nonrecording gage at site 4 miles upstream at different datum. Mar. 11, 1925, to Aug. 16, 1928, nonrecording gage at bridge 500 ft upstream at datum 0.72 ft higher.

AVERAGE DISCHARGE.--47 years, (1915-17, 1925-36, 1938-72), 1,187 cfs (13.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 22,000 cfs Apr. 13 (gage height, 9.13 ft); minimum, 114 cfs Sept. 2.
Period of record: Maximum discharge, 84,100 cfs Jan. 22, 1959 (gage height, 22.30 ft), from rating curve extended above 60,000 cfs on basis of slope-area measurement of peak flow; minimum observed, 27 cfs Sept. 18, 1954.
Flood in March 1913 reached a stage of 25.5 ft, present datum, from information by Corps of Engineers.

REMARKS.--Records good. Some regulation since 1948 by Cowan Lake (capacity, 12,000 acre-ft) 45 miles upstream on Cowan Creek, tributary to Todd Fork. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	244	988	2,580	380	1,610	916	1,350	1,410	543	168	123
2	225	261	872	2,100	460	6,780	858	1,200	988	711	184	120
3	203	329	809	2,160	634	5,120	809	1,080	802	549	291	239
4	187	324	767	2,000	781	2,820	1,560	940	690	495	483	187
5	174	291	683	3,240	525	2,350	1,390	858	614	483	349	221
6	168	278	2,570	2,080	450	1,670	1,020	788	575	424	203	152
7	160	278	6,020	1,550	380	1,380	5,800	739	581	370	181	139
8	149	265	4,910	1,290	340	1,520	9,140	9,500	562	375	222	135
9	160	233	2,680	2,400	300	1,410	4,800	10,900	513	339	261	136
10	184	229	2,000	3,180	280	1,150	3,210	6,220	441	329	214	129
11	203	229	1,910	2,390	340	1,010	2,520	4,100	424	329	184	126
12	203	218	1,430	1,780	420	948	2,060	2,610	397	310	168	119
13	187	210	1,190	1,470	627	924	12,700	3,420	549	287	158	269
14	197	214	1,560	1,310	1,450	1,200	10,500	5,760	5,260	282	152	548
15	214	210	4,000	980	3,900	1,140	4,460	3,810	2,080	282	149	309
16	310	203	3,730	562	3,620	2,270	11,800	2,850	11,400	282	144	230
17	1,230	200	2,140	697	2,330	4,150	8,570	2,180	3,210	282	140	188
18	739	197	1,560	932	2,330	3,080	4,370	1,830	1,500	282	140	163
19	531	210	1,240	964	1,960	2,060	3,070	1,520	1,080	282	135	154
20	424	210	1,320	900	1,100	1,560	4,280	1,300	830	282	133	145
21	349	229	1,560	851	880	1,510	3,330	1,150	1,010	282	135	138
22	310	207	1,380	809	920	7,430	6,540	1,030	662	282	131	131
23	291	203	1,180	964	900	4,820	4,480	916	568	282	122	127
24	306	193	1,010	1,300	1,560	2,920	3,070	837	555	261	129	176
25	408	193	924	1,210	1,380	2,170	2,280	760	549	244	182	243
26	459	210	865	872	1,690	1,840	1,820	704	483	225	231	363
27	413	261	886	669	1,420	1,560	1,540	648	435	207	173	355
28	360	329	816	580	1,240	1,380	1,340	601	435	203	160	400
29	320	501	767	480	1,270	1,240	1,210	581	391	197	145	516
30	291	1,110	3,060	400	------	1,160	1,200	1,110	1,090	171	131	799
31	265	------	4,670	340	------	1,010	------	2,620	------	171	127	------
TOTAL	9,885	8,269	59,497	43,040	33,867	71,192	120,643	73,912	40,084	10,043	5,725	7,080
MEAN	319	276	1,919	1,388	1,168	2,297	4,021	2,384	1,336	324	185	236
MAX	1,230	1,110	6,020	3,240	3,900	7,430	12,700	10,900	11,400	711	483	799
MIN	149	193	683	340	280	924	809	581	391	171	122	119
CFSM	.27	.23	1.60	1.15	.97	1.91	3.34	1.98	1.11	.27	.15	.20
IN.	.31	.26	1.84	1.33	1.05	2.20	3.73	2.29	1.24	.31	.18	.22

CAL YR 1971 TOTAL 390,305 MEAN 1,069 MAX 27,400 MIN 105 CFSM .89 IN 12.07
WTR YR 1972 TOTAL 483,237 MEAN 1,320 MAX 12,700 MIN 119 CFSM 1.10 IN 14.94

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	2300	7.92	17,000	5- 8	1800	8.13	18,000
4-13	1600	9.13	22,000	6-16	Unknown	-	About 17,000
4-16	1600	8.18	18,200				

03246200 East Fork Little Miami River near Marathon, Ohio

LOCATION.--Lat 39°06'52", long 84°01'29", Clermont County, on right bank at downstream side of bridge on Blue Sky Park Road, 500 ft upstream from Fivemile Creek, 1.0 mile downstream from Sixmile Creek, and 2.3 miles southwest of Marathon.

DRAINAGE AREA.--195 sq mi.

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 842.32 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 8,290 cfs June 16 (gage height, 16.35 ft); minimum, 2.2 cfs Sept. 9, 10.
Period of record: Maximum discharge, 11,400 cfs Apr. 2, 1970 (gage height, 18.57 ft in gage well, about 19.8 ft outside); minimum, 0.50 cfs Oct. 15, 16, 17, 1969.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	20	178	290	50	371	81	72	240	156	7.8	5.9
2	47	18	90	335	46	2,460	78	73	129	81	6.9	4.6
3	40	20	62	398	60	1,270	73	75	84	79	9.8	3.9
4	35	20	49	365	110	383	1,060	70	60	144	190	4.0
5	31	26	45	1,130	90	371	395	53	47	87	253	3.7
6	27	26	1,950	333	80	208	194	43	38	54	90	3.1
7	24	24	3,240	194	70	155	1,630	38	34	39	39	2.8
8	21	23	1,110	158	60	234	1,740	550	32	31	23	2.4
9	22	23	401	410	52	200	546	1,230	29	26	17	2.2
10	23	25	290	800	48	129	280	419	24	22	12	2.3
11	22	24	341	400	44	106	208	194	22	20	9.3	2.6
12	27	24	216	240	42	100	173	124	20	19	8.3	2.6
13	26	24	162	180	75	106	1,860	236	18	18	7.3	2.5
14	24	24	240	130	328	216	1,130	1,130	965	16	6.5	2.5
15	23	22	865	100	1,550	165	359	1,540	612	15	6.1	30
16	38	21	696	74	1,230	365	2,670	776	6,200	15	5.7	19
17	172	21	258	64	550	1,100	1,140	278	760	19	5.0	11
18	79	19	174	58	648	469	275	178	200	18	4.7	7.3
19	45	21	128	64	401	222	198	131	135	20	4.4	5.5
20	35	24	212	72	178	153	1,030	97	102	19	3.2	4.5
21	28	36	320	79	144	268	760	76	82	20	3.8	3.5
22	24	37	198	89	194	2,680	1,800	64	69	30	4.7	2.9
23	23	30	140	160	167	720	422	53	60	19	4.1	2.7
24	27	26	121	532	895	288	251	44	53	14	5.6	3.6
25	82	22	113	431	473	214	169	38	50	13	6.9	7.0
26	76	27	105	194	940	165	122	33	46	9.8	6.1	12
27	48	31	105	113	401	135	95	29	41	9.8	6.5	23
28	37	41	129	90	310	121	78	26	36	9.8	12	122
29	30	134	171	74	338	105	66	24	32	14	12	101
30	25	423	1,930	64	------	113	66	341	202	11	12	181
31	21	------	1,670	56	------	98	------	1,130	------	9.3	8.2	------
TOTAL	1,240	1,256	15,709	7,677	9,574	13,690	18,949	9,165	10,422	1,057.7	790.9	581.1
MEAN	40.0	41.9	507	248	330	442	632	296	347	34.1	25.5	19.4
MAX	172	423	3,240	1,130	1,550	2,680	2,670	1,540	6,200	156	253	181
MIN	21	18	45	56	42	98	66	24	18	9.3	3.2	2.2
CFSM	.21	.21	2.60	1.27	1.69	2.27	3.24	1.52	1.78	.17	.13	.10
IN.	.24	.24	3.00	1.46	1.83	2.61	3.61	1.75	1.99	.20	.15	.11

CAL YR 1971 TOTAL 87,672.6 MEAN 240 MAX 7,740 MIN 9.6 CFSM 1.23 IN 16.73
WTR YR 1972 TOTAL 90,111.7 MEAN 246 MAX 6,200 MIN 2.2 CFSM 1.26 IN 17.19

PEAK DISCHARGE (BASE, 3,000 CFS REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 6	2230	12.58	4,140	4- 7	2030	12.17	3,820
12-30	2200	12.27	3,900	4-13	2230	12.04	3,710
3- 2	2030	11.30	3,120	4-16	2100	12.46	4,050
3-22	1130	11.95	3,640	6-16	1800	16.35	8,290

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 miles upstream from Todd Run, and 2.4 miles downstream from Crane Run.

DRAINAGE AREA.--237 sq mi.

PERIOD OF RECORD.--March 1949 to September 1953, July 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 784.09 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 258 cfs (14.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,200 cfs June 16 (gage height, 11.16 ft); minimum, 1.0 cfs Aug. 22.
Period of record: Maximum discharge, 19,800 cfs Mar. 10, 1964 (gage height, 15.23 ft), from rating curve extended above 14,000 cfs 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, from information by local resident (discharge, 14,000 cfs).

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	21	247	402	64	420	98	87	298	187	5.4	7.9
2	49	22	122	398	60	3,320	93	89	129	87	4.4	6.1
3	42	20	87	555	72	2,020	91	91	93	66	4.1	8.1
4	37	20	73	475	145	545	1,260	87	73	117	70	5.9
5	33	21	69	1,560	162	500	615	73	61	91	348	3.5
6	30	28	2,710	495	111	270	233	64	57	54	89	3.1
7	27	28	4,860	236	88	174	1,990	59	49	41	41	2.6
8	24	26	1,680	184	74	243	2,640	438	47	33	23	2.3
9	24	25	575	485	64	250	742	1,800	45	28	15	2.1
10	24	26	371	1,240	58	147	348	632	38	23	9.9	1.7
11	23	28	434	575	56	120	243	243	35	23	6.7	1.5
12	22	28	278	314	54	113	208	142	33	22	4.7	1.7
13	26	28	187	220	90	117	1,860	233	109	17	4.1	1.7
14	26	28	229	190	407	258	1,900	1,640	1,170	15	3.7	1.9
15	23	27	1,080	120	1,830	205	490	2,040	2,280	14	3.0	1.9
16	24	25	954	90	1,790	605	3,300	1,180	7,320	15	2.8	27
17	122	24	344	78	775	1,560	1,960	398	461	15	2.4	22
18	93	23	208	70	870	725	375	212	191	17	2.2	15
19	51	25	147	80	555	278	222	153	122	17	2.0	9.3
20	38	28	254	91	236	174	1,310	113	93	17	2.4	6.8
21	31	34	411	94	162	366	1,080	94	76	15	2.2	4.4
22	27	41	247	102	229	3,680	2,470	81	62	20	1.3	3.5
23	24	36	159	162	212	1,080	643	72	52	20	1.6	3.9
24	27	32	132	621	1,240	384	326	63	46	16	2.7	38
25	47	28	124	555	720	250	198	56	40	16	4.3	66
26	80	27	115	270	1,310	191	142	51	36	8.8	6.7	21
27	52	34	113	120	585	150	113	46	34	7.2	5.8	124
28	38	43	137	100	375	134	96	41	32	6.3	5.1	100
29	32	147	194	86	398	120	85	43	36	5.4	11	140
30	28	540	2,240	76	------	120	85	429	100	8.2	11	286
31	24	------	2,410	70	------	115	------	1,700	------	6.7	11	------
TOTAL	1,210	1,463	21,191	10,114	12,792	18,634	25,216	12,450	13,218	1,028.6	706.5	918.9
MEAN	39.0	48.8	684	326	441	601	841	402	441	33.2	22.8	30.6
MAX	122	540	4,860	1,560	1,830	3,680	3,300	2,040	7,320	187	348	286
MIN	22	20	69	70	54	113	85	41	32	5.4	1.3	1.5
CFSM	.16	.21	2.89	1.38	1.86	2.54	3.55	1.70	1.86	.14	.10	.13
IN.	.19	.23	3.33	1.59	2.01	2.92	3.96	1.95	2.07	.16	.11	.14

CAL YR 1971 TOTAL 107,763.5 MEAN 295 MAX 9,170 MIN 2.4 CFSM 1.24 IN 16.91
WTR YR 1972 TOTAL 118,942.0 MEAN 325 MAX 7,320 MIN 1.3 CFSM 1.37 IN 18.67

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 6	2300	8.30	5,850	4-14	0100	7.38	4,610
12-31	0300	7.55	4,830	4-16	1800	7.82	5,210
3-22	1200	7.57	4,860	6-16	1230	11.16	11,200
4- 7	2130	8.20	5,740				

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 upstream from unnamed right bank tributary, 1,400 ft upstream from Lucy Run, and 1.3 miles south of Batavia.

DRAINAGE AREA.--352 sq mi, includes that of unnamed tributary.

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

GAGE.--Water-stage recorder. Datum of gage is 571.68 ft above mean sea level. Prior to July 17, 1968, non-recording gage 1,100 ft downstream at same datum.

AVERAGE DISCHARGE.--7 years, 345 cfs (13.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,700 cfs Apr. 7 (gage height, 15.29 ft); minimum, 1.3 cfs Sept. 17, 18.
Period of record: Maximum discharge, 28,700 cfs Apr. 2, 1970 (gage height 20.31 ft); minimum, 0.14 cfs Sept. 23, 27, 1967.
Flood of March 1964 reached a stage of 21.46 ft, from information by local resident (discharge, about 32,000 cfs, from flood study).

REMARKS.--Records good except those for the winter period, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	29	358	634	94	532	151	131	571	275	8.1	8.7
2	69	26	158	508	100	4,220	137	131	256	203	8.1	8.7
3	58	25	100	725	110	2,810	134	128	161	131	7.5	6.6
4	49	22	77	627	200	872	1,270	122	119	122	49	5.7
5	43	21	69	2,030	170	753	1,020	113	95	199	322	6.1
6	37	23	3,670	824	140	484	388	98	85	119	300	5.7
7	34	37	6,860	406	120	305	3,400	85	83	79	137	4.1
8	28	37	2,410	290	100	328	3,940	290	67	60	73	3.2
9	26	32	824	599	90	388	920	1,860	60	48	48	2.8
10	31	31	526	1,470	84	247	526	808	60	41	29	2.5
11	32	32	532	808	78	191	382	388	51	35	19	2.3
12	28	34	436	496	72	172	358	229	43	31	14	2.2
13	25	34	285	346	140	187	1,760	364	41	32	10	2.0
14	29	32	242	280	700	412	2,390	1,600	550	25	7.0	1.8
15	32	34	864	170	2,110	358	760	2,170	538	22	5.7	1.8
16	31	32	1,130	130	2,070	1,240	4,580	1,590	4,800	26	4.8	1.6
17	28	29	538	110	904	2,030	2,600	557	3,210	38	4.1	1.3
18	168	28	316	110	1,000	1,100	599	316	418	34	3.5	2.9
19	88	31	224	120	753	484	364	211	247	29	3.4	19
20	60	37	370	130	360	300	1,390	158	172	25	3.1	11
21	46	40	571	158	230	418	1,400	128	134	21	2.6	7.5
22	40	46	412	165	260	4,850	3,180	110	110	21	2.5	5.1
23	34	56	265	242	300	1,610	952	98	93	18	2.6	3.9
24	35	49	203	676	1,920	599	490	85	85	32	3.2	18
25	38	44	179	725	1,160	388	322	79	73	25	4.1	502
26	85	38	168	466	1,910	300	233	71	67	25	5.7	179
27	90	38	161	224	904	238	179	63	63	20	17	310
28	63	53	191	165	508	203	151	58	58	12	14	436
29	49	100	285	130	484	187	134	58	53	9.3	7.0	247
30	41	532	1,730	110	------	175	131	224	58	7.0	4.8	1,020
31	34	------	3,160	94	------	172	------	2,100	------	6.1	5.7	------
TOTAL	1,541	1,602	27,314	13,968	17,071	26,553	34,241	14,423	12,421	1,770.4	1,125.5	2,828.5
MEAN	49.7	53.4	881	451	589	857	1,141	465	414	57.1	36.3	94.3
MAX	168	532	6,860	2,030	2,110	4,850	4,580	2,170	4,800	275	322	1,020
MIN	25	21	69	94	72	172	131	58	41	6.1	2.5	1.3
CFSM	.14	.15	2.50	1.28	1.67	2.43	3.24	1.32	1.18	.16	.10	.27
IN.	.16	.17	2.89	1.48	1.80	2.81	3.62	1.52	1.31	.19	.12	.30

CAL YR 1971 TOTAL 143,630.1 MEAN 394 MAX 13,600 MIN 1.6 CFSM 1.12 IN 15.18
WTR YR 1972 TOTAL 154,858.4 MEAN 423 MAX 6,860 MIN 1.3 CFSM 1.20 IN 16.37

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1030	14.13	8,680	4-16	1130	13.68	7,760
4-7	2100	15.29	11,700	6-17	0131	14.35	9,220

03247400 Shayler Run near Perintown, Ohio

LOCATION.--Lat 39°06'46", long 84°13'24", Clermont County, on left bank 0.7 mile upstream from Norfolk and Western railroad bridge, 1.9 miles southeast of Perintown, and 2.2 miles upstream from mouth.

DRAINAGE AREA.--11.8 sq mi.

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder and V-notch weir. Altitude of gage is 575 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 678 cfs Dec. 30, Apr. 7 (gage height, 4.67 ft); from rating curve extended above 240 cfs on basis of slope-area measurement at gage height 6.6 ft; minimum, 0.42 cfs Aug. 23, Sept. 2, 18, 21, 22.
Period of record: Maximum discharge, 2,400 cfs Apr. 2, 1970 (gage height, 7.40 ft), from rating curve extended above 240 cfs on basis of slope-area measurement at gage height 6.6 ft; minimum daily discharge, 0.36 cfs Sept. 22, 1969.

REMARKS.--Records good. Records include discharge from sewage treatment plant 2.8 miles upstream from station. Plant discharge includes about 0.4 mgd of water imported into basin from wells near the Ohio River. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 2108: 1968, 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	1.7	8.8	17	3.2	47	6.3	5.5	5.8	1.6	.75	.72
2	3.0	1.8	5.8	35	4.2	138	5.8	5.5	4.3	4.0	.72	.69
3	2.5	1.8	4.1	19	13	54	5.8	5.1	3.4	4.0	1.1	.94
4	2.5	1.6	3.8	54	7.5	28	57	4.4	2.6	2.4	6.7	.75
5	2.3	1.6	3.6	57	5.6	25	18	3.9	2.3	1.9	2.2	.78
6	2.1	1.7	121	20	4.4	14	12	3.6	2.6	1.6	1.4	.72
7	1.9	2.5	121	11	3.8	13	173	3.2	2.2	1.4	1.2	.72
8	1.9	2.3	45	8.5	3.2	16	67	97	1.5	1.2	1.0	.78
9	3.2	2.2	24	53	2.8	10	23	74	1.4	1.1	.92	.75
10	3.0	3.0	20	34	2.6	9.0	15	21	1.4	1.1	.84	.72
11	2.5	2.9	22	18	2.4	7.9	12	12	1.1	1.3	.81	.72
12	2.1	2.8	12	11	3.8	7.9	17	7.9	1.0	1.2	.84	.75
13	2.0	2.8	11	7.5	20	18	84	82	1.0	1.0	.78	.69
14	2.3	2.7	20	5.2	74	32	26	73	1.0	1.0	.75	.75
15	2.0	2.7	48	4.3	78	16	47	118	72	1.0	.78	.69
16	2.3	2.5	30	3.7	28	61	182	57	45	1.3	.72	.69
17	2.5	2.3	16	4.2	21	87	40	28	8.9	1.9	.72	.66
18	2.1	1.9	10	4.8	24	32	18	47	5.5	1.4	.72	.66
19	2.0	2.7	9.2	5.4	14	18	20	16	4.3	1.1	.72	.69
20	1.7	2.8	35	6.7	9.6	14	74	10	3.0	1.0	.72	.60
21	1.7	2.5	20	9.0	10	43	59	7.0	2.6	1.0	.63	.54
22	1.8	2.2	12	7.9	16	115	83	6.0	2.3	.88	.69	.63
23	1.8	1.9	10	9.0	20	37	24	4.9	2.0	.78	.66	.63
24	3.6	1.9	9.8	13	80	20	15	4.2	2.1	1.8	1.0	24
25	4.0	1.9	8.6	13	37	14	11	3.5	1.8	2.0	.81	14
26	2.7	1.8	8.1	6.1	73	10	8.4	3.0	1.8	1.2	1.0	12
27	2.5	3.4	8.1	5.2	23	9.0	7.0	2.4	1.6	1.2	.84	7.0
28	2.2	3.8	8.6	4.4	17	7.9	6.3	2.0	1.6	1.0	.81	4.9
29	2.1	25	8.6	3.8	14	8.4	5.8	2.8	2.4	.88	.78	11
30	2.0	16	172	3.2	------	7.9	6.0	29	2.5	.81	.69	42
31	1.9	------	39	2.8	------	7.0	------	12	------	.78	.63	------
TOTAL	74.0	106.7	875.1	456.7	615.1	927.0	1,128.4	750.9	191.0	44.83	32.93	131.17
MEAN	2.39	3.56	28.2	14.7	21.2	29.9	37.6	24.2	6.37	1.45	1.06	4.37
MAX	4.0	25	172	57	80	138	182	118	72	4.0	6.7	42
MIN	1.7	1.6	3.6	2.8	2.4	7.0	5.8	2.0	1.0	.78	.63	.54
CFSM	.20	.30	2.39	1.25	1.80	2.53	3.19	2.05	.54	.12	.09	.37
IN.	.23	.34	2.76	1.44	1.94	2.92	3.56	2.37	.60	.14	.10	.41

CAL YR 1971 TOTAL 4,756.93 MEAN 13.0 MAX 239 MIN .71 CFSM 1.10 IN 15.00
WTR YR 1972 TOTAL 5,333.83 MEAN 14.6 MAX 182 MIN .54 CFSM 1.24 IN 16.82

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1200	4.67	678	5-13	1500	3.10	278
4- 7	1700	4.67	678	5-14	2330	3.20	292
4-16	0745	4.63	662	6-15	1900	3.85	412

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 miles downstream from Sugarcamp Run, and 5 miles upstream from mouth.

DRAINAGE AREA.--476 sq mi.

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 above mean sea level. Prior to Feb. 6, 1940, non-recording gage, at same site and datum.

AVERAGE DISCHARGE.--49 years (1915-17, 1925-72), 531 cfs (15.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,300 cfs Apr. 7 (gage height, 14.99 ft); minimum, 5.9 cfs Sept. 19.
Period of record: Maximum discharge, 42,400 cfs Mar. 10, 1964 (gage height, 23.84 ft); minimum, 0.3 cfs July 24, 1930; minimum gage height, -0.18 ft Oct. 3-7, 1917.

REMARKS.--Records good. Occasional regulation by Stonelick Lake on Stonelick Creek 14 miles upstream. Surface area at spillway level, 171 acres. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	46	565	915	110	868	201	183	849	230	14	11
2	107	44	254	700	120	5,590	182	181	328	224	15	14
3	87	43	158	980	183	3,970	176	172	200	156	17	16
4	74	42	124	945	273	1,330	1,800	162	144	126	403	15
5	65	41	109	2,860	220	1,100	1,530	147	113	155	277	13
6	57	42	4,250	1,240	170	682	537	129	101	123	297	12
7	51	46	8,550	547	150	421	3,960	113	100	76	133	12
8	47	50	3,450	379	130	454	5,710	1,310	79	55	71	11
9	51	48	1,210	962	120	504	1,450	2,770	69	45	44	9.8
10	54	47	725	2,140	110	336	778	1,170	66	40	32	8.7
11	50	46	745	1,170	100	256	529	530	59	38	25	8.1
12	46	46	579	664	96	228	461	298	52	35	22	8.0
13	43	47	358	440	285	254	2,420	866	48	30	19	7.5
14	45	46	386	320	1,150	696	3,250	2,370	400	28	17	7.3
15	47	46	1,270	220	3,150	521	1,160	3,210	1,190	26	16	7.1
16	53	45	1,630	160	2,650	1,720	6,310	2,480	4,710	25	13	6.7
17	69	43	745	120	1,320	3,110	3,640	926	4,070	35	13	6.3
18	150	41	397	130	1,470	1,710	893	700	477	32	12	6.2
19	123	45	279	140	1,090	699	571	352	255	30	10	6.2
20	81	51	444	160	500	417	2,440	256	173	25	10	13
21	63	57	740	204	300	512	2,220	202	140	23	11	13
22	55	58	520	211	350	6,340	4,340	167	113	23	12	11
23	49	62	321	297	400	2,470	1,490	142	89	21	10	10
24	52	62	248	840	2,630	890	687	123	81	27	17	79
25	73	57	216	1,070	1,740	533	439	105	71	40	16	469
26	85	52	202	615	2,710	401	318	91	62	26	17	214
27	121	56	190	291	1,370	316	256	79	56	24	25	125
28	88	72	209	216	715	270	216	71	52	21	20	491
29	69	226	312	150	642	251	191	67	55	18	19	218
30	58	774	2,900	120	------	235	185	276	142	16	14	1,170
31	51	------	4,250	110	------	223	------	2,560	------	15	12	------
TOTAL	2,204	2,381	36,336	19,316	24,254	37,307	48,340	22,208	14,344	1,788	1,633	2,998.9
MEAN	71.1	79.4	1,172	623	836	1,203	1,611	716	478	57.7	52.7	100
MAX	150	774	8,550	2,860	3,150	6,340	6,310	3,210	4,710	230	403	1,170
MIN	43	41	109	110	96	223	176	67	48	15	10	6.2
CFSM	.15	.17	2.46	1.31	1.76	2.53	3.38	1.50	1.00	.12	.11	.21
IN.	.17	.19	2.84	1.51	1.90	2.92	3.78	1.74	1.12	.14	.13	.23

CAL YR 1971 TOTAL 196,842.0 MEAN 539 MAX 18,700 MIN 14 CFSM 1.13 IN 15.38
WTR YR 1972 TOTAL 213,109.9 MEAN 582 MAX 8,550 MIN 6.2 CFSM 1.22 IN 16.65

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1300	13.45	10,200	4-16	1400	13.29	10,000
4-7	2330	14.99	12,300				

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 mile upstream from West Fork Mill Creek, and 13.0 miles upstream from mouth.

DRAINAGE AREA.--73.0 sq mi.

PERIOD OF RECORD.--October 1938 to April 1939, June 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 527.00 ft 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 higher. Oct. 1, 1951, to Apr. 25, 1954, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum discharge, 2,460 cfs May 8 (gage height, 11.87 ft); minimum, 7.4 cfs Nov. 26. Period of record: Maximum discharge, 5,780 cfs Mar. 6, 1945 (gage height, 20.00 ft present datum); no flow for days in 1940-41, 1944, 1951.

REMARKS.--Records fair. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	11	22	45	15	87	35	68	32	19	11	23
2	16	26	18	81	19	526	32	65	24	13	36	11
3	13	18	16	53	54	163	37	45	21	24	32	15
4	15	15	14	126	62	92	132	39	19	15	121	11
5	15	14	12	139	24	68	56	35	16	15	18	11
6	15	18	309	71	17	58	45	31	32	13	11	11
7	13	18	354	56	15	50	611	28	22	11	13	12
8	13	14	134	49	13	75	440	1,190	16	9.6	13	28
9	27	16	71	219	12	51	177	411	15	9.2	12	15
10	16	14	68	121	11	46	119	133	15	11	12	11
11	14	12	58	82	13	41	91	77	11	13	13	11
12	13	13	40	58	20	38	87	58	11	13	11	21
13	15	9.6	37	40	62	39	697	411	26	13	9.6	15
14	43	8.2	155	26	122	46	203	286	26	13	11	13
15	17	11	231	20	149	38	160	107	488	11	11	12
16	71	13	107	17	89	231	1,080	93	133	15	11	11
17	28	12	64	20	72	223	347	64	30	14	11	11
18	20	13	43	24	54	93	151	49	19	12	12	12
19	17	28	39	43	36	61	172	42	17	22	12	14
20	15	14	75	34	28	53	288	35	17	19	9.2	12
21	16	11	51	38	25	146	279	31	302	14	11	12
22	16	11	49	33	23	578	366	30	43	12	13	13
23	15	11	53	52	32	136	164	28	28	9.6	14	13
24	41	12	29	48	64	89	103	24	26	13	13	105
25	27	9.6	25	38	51	65	76	22	21	25	13	62
26	22	8.2	25	28	77	53	60	21	19	13	22	89
27	19	49	26	22	51	51	51	15	18	49	11	46
28	16	11	42	19	49	47	46	13	17	21	11	27
29	14	83	26	17	47	62	46	26	46	13	11	59
30	11	47	243	15	------	51	65	234	53	9.2	11	174
31	9.2	------	65	13	------	40	------	83	------	11	11	------
TOTAL	625.2	550.6	2,501	1,647	1,306	3,397	6,216	3,794	1,563	474.6	530.8	880
MEAN	20.2	18.4	80.7	53.1	45.0	110	207	122	52.1	15.3	17.1	29.3
MAX	71	83	354	219	149	578	1,080	1,190	488	49	121	174
MIN	9.2	8.2	12	13	11	38	32	13	11	9.2	9.2	11

CAL YR 1971 TOTAL 22,043.1 MEAN 60.4 MAX 2,140 MIN 5.6
WTR YR 1972 TOTAL 23,485.2 MEAN 64.2 MAX 1,190 MIN 8.2

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	1200	10.16	1,740	5- 8	1330	11.87	2,460
4-16	1000	11.11	2,160	6-15	1930	11.06	2,110

03256500 West Fork Mill Creek Lake near Greenhills, Ohio
(Formerly published as West Fork Mill Creek Reservoir near Greenhills, Ohio)

LOCATION.--Lat 39°15'34", long 84°29'41", in SE 1/4 sec.17, T.3, T.1, Hamilton County, in gate house of dam on West Fork Mill Creek, 1.2 miles east of Greenhills.

DRAINAGE AREA.--29.9 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft 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, 3,040 acre-ft May 9 (elevation, 681.79 ft); minimum, 980 acre-ft Dec. 22, Jan. 11 (elevation, 671.98 ft).
Period of record: Maximum contents, 9,680 acre-ft Jan. 22, 1959 (elevation, 698.95 ft); minimum, 729 acre-ft Feb. 26, 1964 (elevation, 670.00 ft).

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 between elevations 655.0 ft (lowest outlet) and 702.0 ft (crest of spillway) of which 1,470 acre-ft is in conservation pool. Dead storage below elevation 655.0 ft, 65 acre-ft. 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 GAGE HEIGHT AND CONTENTS AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	675.10	1,490	-
Oct. 31	675.11	1,490	0
Nov. 30	675.16	1,500	+ 10
Dec. 31	672.19	1,010	-490
CAL YR 1971	-	-	+ 20
Jan. 31	672.05	990	-20
Feb. 29	675.05	1,480	+ 490
Mar. 31	675.09	1,480	0
Apr. 30	675.26	1,520	+ 40
May 31	675.40	1,540	+ 20
June 30	675.23	1,510	-30
July 31	675.06	1,480	-30
Aug. 31	674.96	1,460	-20
Sept. 30	675.51	1,560	+ 100
WTR YR 1972	-	-	+ 70

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 mile upstream from small left bank tributary, 1.9 miles downstream from West Fork Mill Creek Dam, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--32.2 sq mi.

PERIOD OF RECORD.--December 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 570.00 ft above mean sea level, adjustment of 1912 (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--19 years (1953-72), 29.4 cfs.

EXTREMES.--Current year: Maximum discharge, 890 cfs May 9 (gage height, 4.61 ft); no flow many days June, July, August, September.
Period of record: Maximum discharge, 2,000 cfs Apr. 4, 1956 (gage height, 6.82 ft); no flow for many days in most years.

REMARKS.--Records good. Flow regulated by West Fork Mill Creek Reservoir 1.9 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	.63	113	15	3.3	21	7.6	23	24	14	0	0
2	6.2	14	119	31	6.1	259	10	22	7.2	.20	1.9	0
3	4.3	22	3.5	34	18	85	13	17	2.8	2.8	15	0
4	5.0	16	2.3	38	24	37	76	13	2.8	9.9	89	0
5	2.5	18	3.7	92	18	35	19	12	2.6	8.4	10	0
6	.71	21	39	31	5.6	33	19	8.1	5.4	3.2	0	0
7	4.3	21	159	27	5.0	17	204	5.9	8.7	3.2	0	0
8	.80	21	174	16	5.4	17	303	47	7.8	.30	0	0
9	5.6	20	105	144	5.6	16	87	359	5.2	0	0	8.4
10	2.1	20	19	64	5.6	14	27	353	3.4	0	0	10
11	.90	8.6	21	19	4.8	13	24	26	.65	.10	0	.10
12	3.8	2.3	19	13	7.1	13	26	16	.20	0	0	0
13	11	1.8	12	18	31	13	313	49	1.6	0	0	1.1
14	40	3.3	48	16	20	13	170	317	3.6	0	0	.40
15	25	3.5	102	10	3.9	13	69	102	23	0	0	0
16	49	3.5	109	5.0	2.2	53	246	18	143	0	0	.50
17	42	3.6	24	5.4	1.8	158	544	20	1.7	4.4	0	1.9
18	17	3.0	18	6.3	9.1	38	109	18	.40	8.1	0	2.0
19	17	7.6	18	16	17	34	41	13	.30	4.6	0	1.7
20	17	9.1	30	15	17	24	168	9.9	.20	.65	0	1.7
21	8.6	6.5	36	13	12	28	125	5.7	6.9	0	0	1.4
22	1.5	5.2	25	13	3.3	326	216	5.7	8.7	0	0	0
23	1.8	4.5	6.2	19	9.1	39	35	5.4	8.7	0	0	0
24	38	3.2	16	21	27	34	27	5.2	5.9	0	0	16
25	48	2.4	15	11	35	25	22	5.0	3.0	25	0	104
26	18	2.4	5.7	2.3	35	17	19	4.8	.40	35	0	96
27	.50	3.4	13	4.7	28	16	18	3.0	.10	14	0	18
28	.45	4.5	10	7.3	20	13	13	.95	0	7.2	0	12
29	.45	20	6.0	9.1	20	20	16	.80	4.6	3.0	0	24
30	1.1	52	135	8.2	------	27	29	21	24	.65	0	102
31	.45	------	78	12	------	12	------	86	------	0	0	------
TOTAL	379.26	324.03	1,484.4	736.3	399.9	1,463	2,995.6	1,592.45	306.85	144.70	115.9	401.20
MEAN	12.2	10.8	47.9	23.8	13.8	47.2	99.9	51.4	10.2	4.67	3.74	13.4
MAX	49	52	174	144	35	326	544	359	143	35	89	104
MIN	.45	.63	2.3	2.3	1.8	12	7.6	.80	0	0	0	0

CAL YR 1971 TOTAL 12,618.99 MEAN 34.6 MAX 921 MIN .01
WTR YR 1972 TOTAL 10,343.59 MEAN 28.3 MAX 544 MIN 0

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 downstream from Anthony Wayne Avenue Bridge in Carthage, 1.0 mile downstream from West Fork Mill Creek, and 11.0 miles upstream from mouth.

DRAINAGE AREA.--115 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 512.00 ft above mean sea level, Ohio River datum. Prior to Oct. 1, 1954 at site 100 ft upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 3,410 cfs May 8 (gage height, 9.51 ft); minimum, 9.6 cfs Nov. 1, 14, 15.
Period of record: Maximum discharge, 8,900 cfs Jan. 21, 1959 (gage height, 16.17 ft), from rating curve extended above 2,800 cfs on basis of slope-area measurement of peak flow; no flow many days in 1947-48.

REMARKS.--Records good except those for the winter period, which are fair. 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 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	11	129	59	18	133	36	105	68	43	13	21
2	22	37	161	120	22	887	34	98	39	15	49	13
3	17	40	20	90	92	255	51	74	26	36	43	19
4	19	29	16	175	72	140	187	59	23	24	239	12
5	17	29	14	257	34	125	63	52	20	26	40	11
6	15	37	437	104	24	94	56	43	46	17	15	11
7	15	40	593	88	20	80	1,020	36	32	14	15	11
8	14	33	327	67	17	86	733	1,460	25	13	14	31
9	34	34	175	418	15	61	243	856	23	13	14	18
10	21	31	90	191	14	56	129	542	19	13	14	20
11	14	25	76	104	18	50	105	129	15	14	14	12
12	13	13	57	74	26	47	110	95	15	15	14	23
13	27	11	47	50	100	51	1,200	539	30	14	14	16
14	83	9.8	217	34	155	54	421	612	31	14	13	11
15	46	12	374	26	172	47	224	263	542	14	13	11
16	132	14	230	22	92	299	1,560	129	328	19	13	11
17	74	14	82	26	80	390	996	103	51	15	13	11
18	36	13	54	36	60	123	267	86	22	22	13	11
19	34	39	52	57	50	91	217	69	20	32	14	13
20	31	21	98	51	42	75	443	57	20	22	14	11
21	28	15	80	50	36	222	378	43	313	15	13	11
22	17	14	71	47	34	946	616	42	62	14	13	11
23	16	14	56	72	44	191	191	38	42	13	13	10
24	76	14	39	69	91	118	141	35	38	25	13	157
25	76	11	38	49	89	87	115	31	25	42	13	193
26	45	10	26	40	116	64	95	27	22	56	41	216
27	21	24	34	30	81	63	86	19	21	74	13	78
28	16	14	49	24	67	55	70	15	21	31	11	40
29	14	118	29	20	65	77	73	36	55	15	11	97
30	11	110	493	17	------	72	107	313	83	14	11	299
31	10	------	155	15	------	47	------	187	------	14	11	------
TOTAL	1,025	836.8	4,319	2,482	1,746	5,086	9,967	6,193	2,077	708	754	1,409
MEAN	33.1	27.9	139	80.1	60.2	164	332	200	69.2	22.8	24.3	47.0
MAX	132	118	593	418	172	946	1,560	1,460	542	74	239	299
MIN	10	9.8	14	15	14	47	34	15	15	13	11	10

CAL YR 1971 TOTAL 39,515.0 MEAN 108 MAX 3,320 MIN 7.9
WTR YR 1972 TOTAL 36,602.8 MEAN 100 MAX 1,560 MIN 9.8

03260700 Bokengehelas 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 miles downstream from Bluejacket Creek, 2.8 miles northeast of De Graff, and 4 miles upstream from mouth.

DRAINAGE AREA.--36.3 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--15 years, 30.6 cfs (11.45 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,230 cfs Apr. 13 (gage height, 6.13 ft); minimum, 4.6 cfs Oct. 3. Period of record: Maximum discharge, 1,780 cfs Jan. 21, 1959 (gage height, 6.83 ft); minimum, 2.0 cfs Sept. 29, 30, Oct. 1, 8, 1963.

REMARKS.--Records good. Diurnal fluctuation caused by municipal plant operation in Bellefontaine, 9.8 miles 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 graph and 10 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	5.5	8.1	55	17	55	37	59	80	30	16	10
2	5.8	6.5	7.4	49	16	265	35	56	57	27	19	9.8
3	5.2	6.2	7.1	41	16	123	35	52	48	165	35	12
4	5.5	5.8	6.5	45	16	79	40	50	42	73	21	9.8
5	5.8	6.2	6.2	44	15	58	35	47	39	55	20	10
6	5.8	6.2	13	35	15	48	34	45	39	39	19	9.8
7	5.5	5.8	30	31	14	44	315	42	38	35	18	9.8
8	5.8	5.5	30	26	14	45	141	83	35	32	17	9.8
9	11	6.5	18	43	13	35	98	414	35	28	17	9.4
10	6.5	6.8	14	71	13	31	87	199	35	78	17	8.6
11	5.5	6.8	12	50	13	30	71	123	32	45	16	9.0
12	5.5	6.5	10	38	13	32	71	93	32	34	14	18
13	5.5	6.2	9.4	31	13	45	903	83	79	30	12	12
14	13	5.5	77	26	15	88	289	147	61	28	12	30
15	7.1	5.8	246	24	48	58	165	570	66	26	12	17
16	6.8	6.2	110	23	42	62	206	256	73	96	12	12
17	6.2	6.2	67	22	35	62	176	170	46	47	12	11
18	6.2	6.2	46	24	32	50	122	131	39	36	15	12
19	6.8	8.5	37	23	28	42	103	103	37	32	14	12
20	6.5	6.5	39	22	25	37	505	86	35	28	13	11
21	6.8	6.2	37	22	21	35	245	74	43	24	12	11
22	7.8	5.8	30	25	21	50	349	66	38	22	12	10
23	8.1	5.8	26	32	20	49	188	60	37	21	12	27
24	7.1	5.5	24	27	20	40	139	55	34	20	12	26
25	7.1	5.5	20	25	18	37	111	50	31	23	12	18
26	7.1	5.2	20	23	26	34	92	46	30	20	12	34
27	7.1	6.8	22	20	18	46	80	43	30	21	11	141
28	6.5	6.5	20	19	24	62	72	41	28	20	11	55
29	6.2	8.1	18	18	32	54	66	42	45	19	11	39
30	5.8	11	154	17	------	50	61	66	41	18	10	127
31	5.5	------	95	17	------	40	------	83	------	17	10	------
TOTAL	207.6	191.8	1,259.7	968	613	1,786	4,871	3,435	1,305	1,189	456	731.0
MEAN	6.70	6.39	40.6	31.2	21.1	57.6	162	111	43.5	38.4	14.7	24.4
MAX	13	11	246	71	48	265	903	570	80	165	35	141
MIN	5.2	5.2	6.2	17	13	30	34	41	28	17	10	8.6
CFSM	.18	.18	1.12	.86	.58	1.59	4.46	3.06	1.20	1.06	.41	.67
IN.	.21	.20	1.29	.99	.63	1.83	4.99	3.52	1.34	1.22	.47	.75

CAL YR 1971 TOTAL 8,467.8 MEAN 23.2 MAX 302 MIN 4.4 CFSM .64 IN 8.68
WTR YR 1972 TOTAL 17,013.1 MEAN 46.5 MAX 903 MIN 5.2 CFSM 1.28 IN 17.43

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0100	4.37	374	4-22	0830	4.78	460
12-30	1630	4.13	326	5-9	1400	4.94	502
3-2	1400	4.33	366	5-15	0500	5.50	750
4-7	1230	5.05	538	7-3	1400	4.06	312
4-13	0630	6.13	1,230	9-27	1030	4.05	310
4-20	1000	5.36	670				

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 mile downstream from Lee Creek, 1.5 miles south of De Graff, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--59.1 sq mi.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 967.54 ft above mean sea level.

AVERAGE DISCHARGE.--15 years, 47.3 cfs (10.87 inches per year).

EXTREMES.--Current year: Maximum discharge, 798 cfs Apr. 7 (gage height, 7.85 ft); minimum, 10 cfs Oct. 3,4. Period of record: Maximum discharge, 2,770 cfs Jan. 22, 1959 (gage height, 9.39 ft); maximum gage height, 11.48 ft Jan. 22, 1959 (backwater from Great Miami River); minimum, 4.0 cfs Sept. 27, 1963.

REMARKS.--Records good except those for the winter period, which are fair. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph and 9 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	19	89	28	77	50	72	84	33	20	15
2	12	13	17	72	29	328	47	68	65	30	22	15
3	11	13	16	60	25	215	44	64	56	67	47	17
4	11	13	15	68	20	130	48	60	50	56	31	16
5	11	13	15	72	16	80	45	57	46	45	26	15
6	11	13	26	50	16	58	43	55	45	38	24	14
7	11	13	57	44	17	54	585	55	44	34	24	14
8	11	13	60	40	16	50	347	91	40	33	22	14
9	16	13	44	68	16	46	206	479	41	31	21	14
10	15	13	38	104	15	43	152	311	41	94	20	13
11	13	13	34	74	15	40	117	174	37	59	19	13
12	12	12	30	58	16	42	108	119	36	43	19	47
13	12	13	27	45	16	54	403	105	53	37	18	36
14	23	12	102	40	22	116	229	172	53	32	17	47
15	17	12	266	35	105	85	146	535	51	31	19	39
16	18	12	164	32	78	84	220	368	56	96	17	29
17	19	12	94	31	50	92	214	224	45	66	17	26
18	16	11	64	34	44	72	137	149	40	47	31	25
19	15	16	52	32	40	58	108	116	37	45	26	24
20	13	15	51	32	36	52	369	100	35	37	24	21
21	13	14	49	32	33	49	263	90	55	32	20	20
22	15	13	42	36	30	72	405	80	44	29	21	19
23	16	18	39	45	28	82	264	72	41	27	21	42
24	16	13	37	43	27	63	174	65	39	27	19	55
25	15	12	34	40	27	56	130	60	37	30	19	43
26	15	12	34	36	28	51	106	55	34	27	19	73
27	14	15	34	33	27	61	92	52	31	26	19	121
28	14	14	33	30	30	84	84	51	30	25	18	91
29	13	18	32	28	42	69	78	51	36	24	17	64
30	13	22	174	27	------	60	74	75	38	22	16	158
31	13	------	155	27	------	53	------	96	------	21	15	------
TOTAL	437	409	1,854	1,457	892	2,476	5,288	4,121	1,340	1,244	668	1,140
MEAN	14.1	13.6	59.8	47.0	30.8	79.9	176	133	44.7	40.1	21.5	38.0
MAX	23	22	266	104	105	328	585	535	84	96	47	158
MIN	11	11	15	27	15	40	43	51	30	21	15	13
CFSM	.24	.23	1.01	.80	.52	1.35	2.98	2.25	.76	.68	.36	.64
IN.	.28	.26	1.17	.92	.56	1.56	3.33	2.59	.84	.78	.42	.72

CAL YR 1971 TOTAL 14,010.9 MEAN 38.4 MAX 521 MIN 8.7 CFSM .65 IN 8.82
WTR YR 1972 TOTAL 21,326.0 MEAN 58.3 MAX 585 MIN 11 CFSM .99 IN 13.42

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	1130	6.53	384	4-22	0800	6.89	467
4-7	1330	7.85	798	5-9	1300	7.20	570
4-13	1030	7.07	524	5-15	0600	7.37	630
4-20	0830	6.80	440				

03261500 Great Miami River at Sidney, Ohio

LOCATION.--Lat 40°17'13", long 84°09'00", Shelby County, on right bank 50 ft upstream from North Street Bridge in Sidney, and 0.5 mile downstream from Tawawa Creek.

DRAINAGE AREA.--541 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Sept. 18, 1919, nonrecording gage at site 50 ft downstream at datum 1.76 ft higher. Sept. 18, 1919, to Aug. 1925, nonrecording gage at site 50 ft downstream at present datum.

AVERAGE DISCHARGE.--47 years (1925-72), 464 cfs.

EXTREMES.--Current year: Maximum discharge, 5,390 cfs Apr. 22 (gage height 8.48 ft); minimum, 34 cfs Oct. 7, 8.
Period of record: Maximum discharge, 20,700 cfs Mar. 20, 1927 (gage height, 14.4 ft), from rating curve extended above 6,900 cfs on basis of velocity-area studies; maximum gage height, 15.91 ft Jan. 21, 1959; minimum discharge, 1.5 cfs Aug. 13, 1963, result of temporary storage behind dam upstream; minimum daily discharge, 8.0 cfs Sept. 23, 1935.
Flood of Mar. 25, 1913 reached a stage of 19.6 ft, present datum (discharge, 44,000 cfs, computed by Miami Conservancy District).

REMARKS.--Records good except those for January and February, which are fair. Water supply for city of Sidney is pumped from the Great Miami River 1,200 feet upstream and from wells adjacent to Great Miami River upstream from station. The pumpage averaged 3.9 cfs in 1972 and is returned as sewage 1.2 miles downstream from the station. Some regulation by Indian Lake 28 miles upstream, (capacity, 45,900 acre-ft). Water diverted into Miami and Erie Canal at Port Jefferson (2.8 miles upstream) prior to 1926 bypassed station; amount of diversion not published. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph and 12 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	47	301	1,910	150	845	419	478	706	246	87	54
2	43	57	276	1,340	150	3,210	375	422	470	202	85	49
3	40	56	266	990	160	2,880	331	393	354	803	134	57
4	40	55	223	890	140	2,120	363	369	290	1,580	156	66
5	38	56	128	965	120	1,390	378	346	276	1,240	137	63
6	37	59	131	760	120	850	340	282	238	805	106	57
7	36	59	304	642	130	638	3,810	274	233	492	98	51
8	37	57	611	535	120	638	3,870	439	202	348	94	48
9	54	58	446	750	110	580	2,850	2,800	184	292	93	49
10	65	67	312	1,660	110	460	2,250	3,190	200	540	87	50
11	60	70	317	1,330	121	357	1,700	2,170	233	410	80	49
12	54	70	406	875	122	279	1,280	1,540	162	282	76	125
13	55	70	384	674	133	427	3,240	1,170	195	228	74	182
14	62	71	839	531	166	1,550	3,940	1,240	635	200	76	138
15	76	69	2,580	320	550	1,310	2,990	3,720	611	176	76	221
16	76	67	2,340	230	760	980	2,880	3,490	755	550	76	150
17	74	69	1,530	230	430	985	2,970	2,410	527	495	74	105
18	67	75	950	350	330	706	2,440	1,750	372	314	71	93
19	60	83	652	310	250	464	1,850	1,230	295	266	104	105
20	56	92	551	270	180	366	4,230	905	238	228	92	96
21	54	92	575	270	200	340	4,280	656	484	184	79	83
22	54	99	531	290	190	488	5,160	515	825	164	72	71
23	55	106	478	450	170	820	4,490	439	559	154	75	189
24	60	89	453	700	166	616	3,530	360	396	142	74	527
25	60	83	425	500	160	450	2,540	323	279	129	72	474
26	58	82	419	340	168	369	1,870	301	230	135	67	680
27	56	128	422	250	166	396	1,310	258	195	126	66	1,590
28	54	250	422	210	166	895	895	236	176	122	64	1,390
29	51	263	425	180	295	825	660	230	258	121	63	930
30	50	287	1,830	160	------	634	527	276	357	108	59	1,840
31	49	------	2,630	140	------	499	------	622	------	96	55	------
TOTAL	1,679	2,786	22,157	19,052	6,033	27,367	67,768	32,834	10,935	11,178	2,622	9,582
MEAN	54.2	92.9	715	615	208	883	2,259	1,059	365	361	84.6	319
MAX	76	287	2,630	1,910	760	3,210	5,160	3,720	825	1,580	156	1,840
MIN	36	47	128	140	110	279	331	230	162	96	55	48

CAL YR 1971 TOTAL 119,430 MEAN 327 MAX 3,760 MIN 33
WTR YR 1972 TOTAL 213,993 MEAN 585 MAX 5,160 MIN 36

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-7	1430	8.27	5,160	4-22	0730	8.48	5,390
4-14	0230	7.43	4,230	5-15	2230	7.31	4,100

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 miles northwest of Newport, 3 miles south of Fort Loramie, and 3 miles downstream from Mile Creek.

DRAINAGE AREA.--152 sq mi.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 927.00 ft above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--8 year, 112 cfs.

EXTREMES.--Current year: Maximum discharge, 2,160 cfs Apr. 21 (gage height, 11.81 ft); minimum, 0.66 cfs Sept. 8, 11.
Period of record: Maximum discharge, 2,350 cfs May 8, 1967 (gage height, 12.50 ft); minimum, 0.10 cfs several days in August 1965 and September 1966.
Flood of Mar. 25, 1913 reached a stage of 17.0 ft and flood of Jan. 21, 1959 a stage of 14.2 ft (from flood profile furnished by Miami Conservancy District).

REMARKS.--Records good. Some regulation by Lake Loramie 5 miles upstream (capacity, 13,000 acre-ft). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph and 12 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WRD Ohio 1971: 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	7.1	38	1,090	25	169	122	30	134	31	2.2	.94
2	10	6.5	28	516	25	1,340	88	35	83	17	2.2	1.7
3	7.7	7.7	21	428	27	1,630	71	34	55	304	7.4	2.2
4	5.7	5.7	16	383	22	803	79	32	41	592	4.7	3.2
5	4.8	3.7	14	240	20	303	74	27	28	287	3.0	2.2
6	3.9	3.1	34	186	19	170	72	21	23	140	2.4	1.7
7	3.3	3.5	214	144	20	100	1,220	24	21	76	2.2	1.1
8	2.8	3.0	363	105	16	74	1,800	79	14	51	2.1	.71
9	3.9	11	217	192	14	54	1,080	346	12	34	2.1	.71
10	5.2	11	133	580	12	44	543	370	18	46	1.8	.71
11	3.7	3.5	109	495	12	44	317	188	10	41	1.7	.66
12	3.0	2.5	85	333	13	48	216	112	6.7	22	1.7	34
13	2.7	2.4	59	300	18	100	1,100	92	19	16	2.0	115
14	14	2.2	229	190	39	279	1,460	287	72	16	1.6	104
15	21	2.1	1,200	33	212	226	797	928	67	12	1.8	132
16	20	1.8	1,260	25	174	195	705	722	87	46	2.1	33
17	27	1.8	716	26	84	176	1,220	354	58	36	2.1	13
18	19	1.5	271	29	48	126	654	196	31	20	2.1	13
19	14	2.6	147	35	38	88	311	126	22	100	2.1	80
20	11	3.3	144	41	32	69	1,560	86	17	92	2.7	20
21	9.8	3.1	171	54	28	60	1,940	60	88	31	2.0	6.0
22	17	3.0	133	102	25	82	1,950	48	180	17	2.0	4.4
23	28	2.5	116	177	23	115	1,700	36	105	12	3.6	165
24	27	2.4	112	110	22	96	942	30	64	8.5	3.4	662
25	22	2.4	102	92	21	78	400	25	43	7.4	2.4	357
26	20	2.2	103	74	22	61	220	19	31	5.6	1.7	582
27	20	6.6	100	60	18	109	152	14	24	4.4	1.5	1,100
28	18	9.8	98	45	20	303	116	12	18	3.9	1.1	823
29	12	14	93	37	40	234	75	10	18	3.2	1.0	419
30	9.5	33	758	32	------	219	30	44	48	2.7	1.0	916
31	9.1	------	1,680	28	------	172	------	148	------	2.4	.94	------
TOTAL	388.1	165.0	8,764	6,182	1,089	7,567	21,014	4,535	1,437.7	2,077.1	70.64	5,594.23
MEAN	12.5	5.50	283	199	37.6	244	700	146	47.9	67.0	2.28	186
MAX	28	33	1,680	1,090	212	1,630	1,950	928	180	592	7.4	1,100
MIN	2.7	1.5	14	25	12	44	30	10	6.7	2.4	.94	.66

CAL YR 1971 TOTAL 33,199.80 MEAN 91.0 MAX 1,680 MIN .88
WTR YR 1972 TOTAL 58,883.77 MEAN 161 MAX 1,950 MIN .66

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-31	0900	11.01	1,760	4-14	0430	10.59	1,540
3-3	0100	11.28	1,890	4-21	0200	11.81	2,160
4-8	0230	11.49	1,990				

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 downstream from Lockington Dam, 0.5 mile northwest of Lockington, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--257 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 800.03 ft above mean sea level, adjustment of 1912. Prior to July 3, 1924 nonrecording gage at same site at datum 75.96 ft 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 higher.

AVERAGE DISCHARGE.--57 years, 202 cfs.

EXTREMES.--Current year: Maximum discharge, 4,080 cfs Apr. 7 (gage height, 83.18 ft); minimum discharge, 7.2 cfs Nov. 21; minimum gage height, 77.30 ft Sept. 10, 11.
Period of record: Maximum discharge, 10,400 cfs May 7, 1916 (gage height, 86.4 ft, present datum), from rating curve extended above 5,400 cfs; minimum, 2.0 cfs Aug. 19, 1931.
Flood of March 25, 1913 reached a stage of 91.6 ft, present datum (discharge, 25,600 cfs, at site upstream from Turtle Creek, drainage area, 211 sq mi, computed by Miami Conservancy District).

REMARKS.--Records good. Slight regulation by Lake Loramie (capacity, 13,000 acre-ft) 18 miles upstream. 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 graph and 10 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	13	39	1,350	54	478	196	90	216	77	16	8.0
2	21	12	36	768	50	2,190	148	88	146	52	16	8.0
3	17	11	29	584	48	1,850	120	82	97	347	17	8.8
4	14	10	24	600	46	1,100	130	76	72	688	18	9.1
5	11	11	22	456	43	488	127	69	62	424	18	9.4
6	9.9	11	25	290	40	244	120	61	52	196	17	9.6
7	8.5	9.6	227	228	37	196	2,950	56	50	114	16	8.8
8	7.7	8.8	472	168	34	173	2,300	234	46	80	15	8.5
9	8.5	8.5	319	370	32	130	1,450	1,040	38	65	15	8.2
10	9.1	9.1	194	800	31	103	808	696	35	92	14	8.0
11	9.6	14	141	680	30	90	512	362	38	86	13	7.7
12	9.6	12	120	464	30	88	355	217	33	60	13	26
13	8.8	9.9	92	392	34	167	882	168	32	48	13	100
14	10	8.8	685	312	64	552	1,260	429	57	38	13	98
15	17	8.5	2,170	76	332	400	984	1,050	88	36	13	164
16	27	8.2	1,680	68	290	318	1,250	1,140	110	212	12	92
17	27	8.2	1,020	64	160	297	1,340	640	96	112	11	46
18	29	8.0	488	64	98	222	904	355	66	67	11	32
19	24	8.5	262	71	76	155	496	222	52	82	11	33
20	20	8.0	200	76	80	127	2,740	160	43	149	11	87
21	18	7.4	238	103	70	112	2,340	124	40	80	11	33
22	16	8.4	200	190	62	165	3,230	98	158	50	12	21
23	17	8.2	164	378	55	244	2,180	82	134	38	11	282
24	24	8.2	155	262	50	182	1,220	68	88	31	11	880
25	26	8.2	141	150	49	144	656	61	66	27	11	568
26	24	8.0	138	110	57	124	379	56	56	24	11	712
27	22	8.8	144	92	52	153	254	49	47	22	11	1,170
28	20	9.9	144	76	49	448	196	44	40	20	9.9	992
29	19	13	134	62	79	362	168	40	102	18	9.4	552
30	17	26	1,580	54	------	318	100	48	147	17	8.8	1,140
31	14	------	1,710	50	------	255	------	224	------	16	8.2	------
TOTAL	532.7	304.2	12,993	9,408	2,132	11,875	29,795	8,129	2,307	3,368	397.3	7,122.1
MEAN	17.2	10.1	419	303	73.5	383	993	262	76.9	109	12.8	237
MAX	29	26	2,170	1,350	332	2,190	3,230	1,140	216	688	18	1,170
MIN	7.7	7.4	22	50	30	88	100	40	32	16	8.2	7.7

CAL YR 1971 TOTAL 49,934.0 MEAN 137 MAX 2,170 MIN 5.7
WTR YR 1972 TOTAL 88,363.3 MEAN 241 MAX 3,230 MIN 7.4

03262700 Great Miami River at Troy, Ohio

LOCATION.--Lat 40°02'25", long 84°11'52", Miami County, 400 ft downstream from B and O Railroad bridge, 1,300 ft downstream from bridge on State Highway 55 at Troy, 1.2 miles upstream from small left bank tributary, and 2.3 miles downstream from Spring Creek.

DRAINAGE AREA.--926 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--10 years, 680 cfs.

EXTREMES.--Current year: Maximum discharge, 10,000 cfs Apr. 7 (gage height, 10.77 ft); minimum, 13 cfs Aug. 19 (gage height, 2.69 ft), result of temporary storage due to dam closure upstream; minimum daily discharge, 52 cfs Oct. 8.
Period of record: Maximum discharge, 17,300 cfs Mar. 6, 1963 (gage height, 14.66 ft); minimum, 0.50 cfs July 12, 13, 1963 (gage height, 2.37 ft), result of temporary storage during repair of dam upstream; minimum daily discharge, 16 cfs July 13, Oct. 7, 1963.
Flood of June 11, 1958 reached a stage of 16.4 ft (discharge 21,000 cfs).

REMARKS.--Records good. Flood flow regulated by retarding basin on Loramie Creek, 18 miles upstream. Low and medium flow slightly regulated by Indian Lake (capacity, 45,900 acre-ft) 54 miles upstream. Water supply for city of Troy is pumped from wells adjacent to the Great Miami River upstream from the station. The pumpage averaged 3.5 cfs in 1972 and is returned as sewage 1 mile downstream from the station. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph and 13 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	76	341	3,720	240	878	690	779	1,090	409	120	67
2	107	74	375	2,480	275	5,300	586	722	779	311	108	72
3	96	77	360	1,860	260	5,450	502	658	594	760	163	77
4	86	74	259	1,610	230	4,200	474	610	488	2,530	187	82
5	81	72	194	1,720	160	2,690	554	586	418	2,040	173	91
6	72	75	194	1,200	150	1,560	474	502	411	1,220	150	75
7	91	81	338	900	180	1,150	6,260	460	348	764	138	68
8	52	77	990	800	160	1,020	7,280	658	330	549	133	65
9	78	76	864	840	160	968	5,000	4,340	300	405	132	70
10	97	79	539	2,480	150	788	4,100	5,060	300	527	111	71
11	100	85	375	2,100	150	722	3,010	3,400	324	658	102	71
12	88	90	430	1,600	160	570	2,110	2,200	300	440	110	224
13	84	81	420	1,100	180	650	4,130	1,570	276	330	113	303
14	122	76	604	750	210	2,270	5,600	1,830	516	297	108	375
15	91	75	4,660	500	666	2,250	5,140	5,090	806	263	112	402
16	149	82	4,660	350	1,200	1,540	4,630	5,620	977	618	110	377
17	133	82	3,050	420	913	1,460	5,410	4,100	806	798	107	225
18	129	81	1,600	553	620	1,220	4,390	2,690	578	498	98	173
19	116	102	1,000	424	480	860	2,980	1,800	439	462	86	150
20	107	86	890	424	350	666	6,310	1,340	384	444	130	197
21	103	84	800	426	370	602	6,730	1,040	384	349	109	161
22	98	84	740	485	370	682	9,230	815	995	282	96	112
23	94	107	700	939	345	1,160	7,630	706	824	233	96	275
24	95	112	660	938	338	1,000	5,710	618	618	210	110	1,840
25	104	99	633	795	318	762	4,160	546	453	186	107	1,330
26	105	90	626	550	315	634	2,840	502	467	166	103	1,370
27	97	91	626	410	326	602	1,960	460	321	173	96	3,400
28	93	168	618	350	303	1,190	1,420	390	278	168	83	3,320
29	88	281	596	300	366	1,330	1,120	366	264	164	75	1,920
30	83	294	2,550	250	------	1,020	987	432	704	158	76	3,170
31	80	------	4,930	200	------	842	------	722	------	142	71	------
TOTAL	3,031	3,011	35,612	31,474	9,945	46,036	111,317	50,612	15,772	16,554	3,513	20,133
MEAN	97.8	100	1,149	1,015	343	1,485	3,711	1,633	526	534	113	671
MAX	149	294	4,930	3,720	1,200	5,450	9,230	5,620	1,090	2,530	187	3,400
MIN	52	72	194	200	150	570	474	366	264	142	71	65

CAL YR 1971 TOTAL 203,581 MEAN 558 MAX 6,960 MIN 45
WTR YR 1972 TOTAL 347,010 MEAN 948 MAX 9,230 MIN 52

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 downstream from Taylorsville Dam, 0.8 mile north of Taylorsville, and 9.5 miles upstream from Stillwater River.

DRAINAGE AREA.--1,149 sq mi.

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 above mean sea level, adjustment of 1912. Prior to October 1921, nonrecording gage at site 1.8 miles upstream at different datum. Jan. 1, 1922, to Nov. 11, 1925, nonrecording gage at site 600 ft upstream at outlet works of Taylorsville Dam at present datum.

AVERAGE DISCHARGE.--54 years, 969 cfs (11.45 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,600 cfs Apr. 8 (gage height, 70.50 ft); minimum, 60 cfs Oct. 9. Period of record: Maximum discharge, 31,400 cfs Jan. 22, 1959 (gage height, 75.44 ft); minimum, 30 cfs Jan. 2, 1945.
Flood in March 1913 reached a stage of 25.4 ft at site at Tadmor (discharge, 127,000 cfs, 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 miles upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake 64 miles upstream from station, and by Lake Loramie 47 miles upstream from station on Loramie Creek (combined capacity, 58,900 acre-ft). Water-quality records for the current year are published for station 03263110 in Part 2 of this report.

COOPERATION.--Gage-height graph 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	114	391	4,190	320	786	934	1,010	1,320	600	176	96
2	125	118	404	2,980	300	5,170	812	934	1,110	431	155	96
3	110	116	383	2,230	320	6,860	712	854	854	500	206	125
4	100	121	363	1,880	280	4,710	712	788	702	2,250	200	114
5	94	114	308	2,120	260	2,830	746	746	600	2,170	230	114
6	87	114	319	1,630	290	1,800	712	674	595	1,490	206	110
7	83	123	585	1,290	280	1,330	4,920	610	535	983	181	98
8	85	118	1,230	1,100	270	1,180	10,500	746	485	702	178	92
9	89	116	1,200	1,000	260	1,100	6,710	3,520	444	535	197	90
10	125	121	824	2,440	260	914	4,460	5,650	485	516	168	92
11	125	121	620	2,690	266	818	3,100	3,530	440	800	148	92
12	121	129	575	1,990	270	690	2,370	2,490	458	590	148	210
13	108	127	610	1,400	298	685	3,480	1,980	633	431	153	304
14	134	118	807	1,000	371	2,020	5,860	2,170	764	371	146	413
15	141	116	4,670	760	838	2,450	5,250	6,630	1,120	359	146	375
16	181	121	5,560	640	1,470	1,940	4,460	7,760	1,240	520	146	431
17	226	125	3,600	680	1,150	1,890	6,240	4,710	1,130	1,000	141	294
18	186	125	2,160	1,300	934	1,650	4,460	3,070	818	668	134	233
19	170	150	1,380	884	830	1,180	3,100	2,300	630	545	125	230
20	153	160	1,140	615	540	920	5,240	1,760	555	498	170	194
21	141	146	1,050	570	550	818	8,150	1,420	498	454	146	230
22	138	143	1,030	585	526	1,000	9,450	1,160	1,010	359	155	170
23	136	148	896	983	426	1,430	9,860	997	1,100	301	146	146
24	138	173	836	1,190	413	1,350	6,980	878	836	276	138	1,540
25	150	160	782	1,010	387	1,050	4,250	776	646	262	146	1,590
26	153	146	746	758	379	884	2,930	702	516	223	143	1,260
27	150	153	746	575	375	800	2,240	646	444	220	143	2,880
28	141	176	752	480	367	1,150	1,700	575	400	223	125	3,270
29	136	327	729	420	387	1,560	1,370	535	383	208	112	2,230
30	129	375	1,930	380	------	1,290	1,140	641	724	208	106	2,270
31	118	------	6,070	360	------	1,100	------	941	------	192	104	------
TOTAL	4,114	4,414	42,696	40,130	13,617	53,355	122,848	61,203	21,475	18,885	4,818	19,389
MEAN	133	147	1,377	1,295	470	1,721	4,095	1,974	716	609	155	646
MAX	226	375	6,070	4,190	1,470	6,860	10,500	7,760	1,320	2,250	230	3,270
MIN	83	114	308	360	260	685	712	535	383	192	104	90
CFSM	.12	.13	1.20	1.13	.41	1.50	3.56	1.72	.62	.53	.13	.56
IN.	.13	.14	1.38	1.30	.44	1.73	3.98	1.98	.70	.61	.16	.63

CAL YR 1971 TOTAL 254,908 MEAN 698 MAX 10,000 MIN 60 CFSM .61 IN 8.25
WTR YR 1972 TOTAL 406,944 MEAN 1,112 MAX 10,500 MIN 83 CFSM .97 IN 13.18

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 mile downstream from small left bank tributary, 1.8 miles south of Bradford, and 6 miles upstream from mouth.

DRAINAGE AREA.--193 sq mi.

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 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 downstream at same datum.

AVERAGE DISCHARGE.--42 years, 166 cfs (11.68 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,830 cfs Apr. 22 (gage height 5.53 ft); minimum, 13 cfs Oct. 3. Period of record: Maximum discharge, 9,320 cfs May 14, 1933 (gage height, 9.2 ft); maximum gage height, 10.31 ft Mar. 5, 1963, from high-water mark in well (ice jam); minimum discharge, 4.8 cfs Sept. 17, 1963. Flood in March 1913 reached a stage of 12.1 ft (discharge, 18,200 cfs, at site with drainage area of 213 sq mi, computed by Miami Conservancy District).

REMARKS.--Records good. Some diurnal fluctuation caused by mill 8 miles 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 graph and 11 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	23	35	412	62	226	99	203	246	90	32	21
2	16	27	30	299	70	957	94	184	179	74	28	19
3	14	26	27	266	62	809	91	161	148	93	40	22
4	17	24	27	241	55	386	104	148	128	87	49	26
5	16	23	26	287	50	255	100	135	115	78	38	29
6	16	24	34	214	50	182	95	124	115	66	32	21
7	16	24	78	170	50	150	992	122	112	59	32	18
8	16	26	124	140	49	130	1,140	159	99	61	35	20
9	24	24	104	150	47	120	643	337	98	64	39	20
10	27	26	80	391	45	120	478	290	97	58	42	18
11	22	29	70	306	46	110	357	203	82	57	34	16
12	21	25	61	210	50	110	306	172	80	54	40	42
13	20	25	54	160	62	120	1,020	172	393	66	36	42
14	39	26	120	110	76	237	607	226	1,460	51	33	46
15	34	23	754	80	176	203	358	344	736	52	47	42
16	35	25	673	90	206	182	768	371	901	66	40	26
17	32	26	351	100	130	215	1,170	277	476	63	31	22
18	27	23	227	110	110	202	544	218	297	54	30	20
19	25	26	161	129	95	168	354	181	232	53	27	24
20	22	29	142	112	85	146	560	160	193	51	34	23
21	22	22	128	110	85	142	618	152	171	53	32	19
22	23	21	115	134	80	163	1,540	144	150	45	27	18
23	29	24	108	189	74	146	1,290	137	133	37	27	108
24	34	19	103	174	70	131	662	129	132	37	31	286
25	34	24	91	150	68	120	420	122	118	41	31	143
26	41	24	89	100	66	115	311	115	112	40	27	159
27	33	31	87	92	66	118	254	106	102	33	22	349
28	29	30	83	86	72	115	216	104	91	34	23	190
29	29	31	75	80	76	120	198	95	94	33	24	132
30	28	37	478	74	------	112	185	152	94	27	23	352
31	26	------	940	68	------	99	------	367	------	28	20	------
TOTAL	785	767	5,475	5,234	2,233	6,409	15,574	5,810	7,384	1,705	1,006	2,273
MEAN	25.3	25.6	177	169	77.0	207	519	187	246	55.0	32.5	75.8
MAX	41	37	940	412	206	957	1,540	371	1,460	93	49	352
MIN	14	19	26	68	45	99	91	95	80	27	20	16
CFSM	.13	.13	.92	.88	.40	1.07	2.69	.97	1.27	.29	.17	.39
IN.	.15	.15	1.06	1.01	.43	1.24	3.00	1.12	1.42	.33	.19	.44

CAL YR 1971 TOTAL 44,154.9 MEAN 121 MAX 1,990 MIN 5.6 CFSM .63 IN 8.51
WTR YR 1972 TOTAL 54,655.0 MEAN 149 MAX 1,540 MIN 14 CFSM .77 IN 10.53

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	2300	5.53	1,830	6-14	1300	5.31	1,680

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 mile northwest of Pleasant Hill, 2 miles downstream from Painter Creek, and 2 miles upstream from Canyon Run.

DRAINAGE AREA.--503 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Dec. 23, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years, 432 cfs (11.66 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,730 cfs Apr. 8 (gage height, 10.18 ft); minimum, 25 cfs Sept. 8, 10.

Period of record: Maximum discharge, 26,400 cfs Jan. 14, 1937, from rating curve extended above 14,000 cfs on basis of velocity-area study; maximum gage height, 17.98 ft Jan. 21, 1959; minimum discharge observed, 4 cfs Oct. 17, 1920, July 12, 22, Aug. 30, 1921.

Flood of January 25, 1913 reached a discharge of 51,400 cfs (gage height, 17.5 ft) at site about 3 miles upstream, 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 graph and 13 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	42	62	1,130	140	606	228	436	470	149	51	28
2	48	38	55	787	150	3,900	208	405	331	131	49	29
3	41	42	50	787	130	2,910	190	345	263	144	59	32
4	37	41	46	690	120	1,170	208	308	217	409	74	39
5	34	40	45	878	113	756	216	272	175	223	66	41
6	31	41	56	550	110	507	208	240	174	158	57	37
7	30	43	120	430	110	436	4,170	228	175	130	53	31
8	31	44	348	330	100	400	5,030	441	166	117	52	27
9	40	45	258	430	95	340	2,010	1,680	160	113	56	27
10	49	45	177	1,210	90	290	1,370	1,190	184	107	55	28
11	45	45	145	871	95	267	990	666	187	101	49	33
12	38	46	133	600	100	272	780	485	145	95	48	111
13	38	42	115	400	123	375	1,850	452	410	94	55	506
14	53	42	246	260	156	920	1,220	758	2,250	92	46	411
15	58	42	2,990	150	405	666	768	1,710	1,110	87	49	442
16	59	41	2,320	160	513	546	1,930	1,870	1,370	122	58	201
17	61	42	1,020	180	300	612	3,030	1,020	776	143	51	118
18	51	42	618	240	220	552	1,260	684	495	118	42	90
19	45	50	415	260	180	425	829	508	376	112	47	88
20	42	48	340	250	160	355	2,330	405	314	125	52	78
21	40	49	299	272	170	330	2,290	355	277	117	47	75
22	46	41	272	375	150	400	4,960	303	243	131	43	64
23	47	40	236	726	140	380	3,470	267	217	84	39	353
24	63	42	224	552	140	312	1,530	236	207	82	38	2,620
25	77	40	197	360	140	276	976	208	190	99	41	1,030
26	71	43	186	260	141	258	720	182	172	77	37	1,070
27	71	52	186	220	141	258	582	176	158	74	35	2,050
28	60	56	179	190	138	294	485	174	143	65	32	806
29	54	56	165	170	197	294	425	171	154	61	31	509
30	52	60	1,480	160	------	290	395	201	156	57	30	1,430
31	47	------	3,180	150	------	249	------	576	------	50	30	------
TOTAL	1,513	1,340	16,163	14,028	4,767	19,646	44,658	16,952	11,665	3,667	1,472	12,404
MEAN	48.8	44.7	521	453	164	634	1,489	547	389	118	47.5	413
MAX	77	60	3,180	1,210	513	3,900	5,030	1,870	2,250	409	74	2,620
MIN	30	38	45	150	90	249	190	171	143	50	30	27
CFSM	.10	.09	1.04	.90	.33	1.26	2.96	1.09	.77	.23	.09	.82
IN.	.11	.10	1.20	1.04	.35	1.45	3.30	1.25	.86	.27	.11	.92

CAL YR 1971 TOTAL 107,937 MEAN 296 MAX 4,920 MIN 10 CFSM .59 IN 7.98
WTR YR 1972 TOTAL 148,275 MEAN 405 MAX 5,030 MIN 27 CFSM .81 IN 10.97

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-8	0330	10.18	6,730	4-22	1600	9.05	5,500

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 downstream from Englewood Dam, 1 mile southeast of Englewood, and 8.5 miles upstream from mouth.

DRAINAGE AREA.--650 sq mi.

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 above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--47 years, 561 cfs (11.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,280 cfs Apr. 8 (gage height, 77.49 ft); minimum, 32 cfs Oct. 8 (gage height 71.85 ft).
Period of record: Maximum discharge, 9,980 cfs June 15, 1958 (gage height, 80.88 ft); minimum, 3.7 cfs Sept. 30, Oct. 1, 1944 (gage height, 71.36 ft).
Flood of March 1913 reached a discharge of 85,400 cfs at site one mile 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 graph and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	57	67	2,260	170	372	326	662	774	205	69	39
2	59	57	69	1,020	160	2,850	308	601	525	190	69	40
3	51	52	68	977	170	4,370	279	521	406	198	81	52
4	45	48	63	826	160	2,650	282	446	337	363	83	46
5	39	48	61	1,060	150	1,220	287	395	286	391	89	47
6	38	50	84	839	160	786	286	354	270	245	81	48
7	36	52	123	605	150	630	2,260	330	264	195	76	47
8	34	52	268	504	150	567	5,070	385	244	171	69	42
9	47	51	381	440	150	495	4,620	1,960	225	160	79	39
10	50	51	253	1,130	143	419	2,670	2,120	239	156	74	36
11	51	52	197	1,320	145	378	1,490	1,100	238	148	71	36
12	50	52	170	862	145	371	1,110	754	227	140	69	59
13	48	53	155	664	165	384	2,250	666	454	138	64	235
14	51	51	210	538	199	987	2,160	998	2,480	130	66	508
15	56	52	1,910	290	356	1,010	1,220	2,860	2,080	129	60	465
16	75	51	3,240	200	608	779	1,590	3,020	1,710	139	61	348
17	73	48	1,570	230	490	823	3,810	2,070	1,340	165	69	183
18	72	48	830	339	419	847	2,700	1,190	780	170	63	125
19	64	57	542	349	340	650	1,290	847	562	160	59	102
20	58	56	442	325	220	536	1,640	662	461	145	62	93
21	53	56	368	307	250	487	3,260	561	399	157	62	84
22	54	53	327	356	240	564	3,620	491	349	149	59	78
23	53	50	286	720	218	609	4,740	427	308	143	61	72
24	57	48	265	729	220	510	3,530	376	285	112	52	1,950
25	62	49	251	580	212	437	1,510	341	265	109	50	1,850
26	74	47	228	408	204	399	1,040	304	243	118	53	924
27	74	56	223	295	194	380	817	276	223	100	52	2,290
28	76	58	220	250	197	383	679	253	206	95	50	1,330
29	68	68	207	230	210	411	592	242	207	85	44	670
30	63	71	635	210	------	396	546	297	218	68	41	1,090
31	61	------	3,410	190	------	361	------	632	------	75	40	------
TOTAL	1,764	1,594	17,123	19,053	6,595	26,061	55,982	26,141	16,605	4,949	1,978	12,928
MEAN	56.9	53.1	552	615	227	841	1,866	843	554	160	63.8	431
MAX	76	71	3,410	2,260	608	4,370	5,070	3,020	2,480	391	89	2,290
MIN	34	47	61	190	143	361	279	242	206	68	40	36
CFSM	.09	.08	.85	.95	.35	1.29	2.87	1.30	.85	.25	.10	.66
IN.	.10	.09	.98	1.09	.38	1.49	3.20	1.50	.95	.28	.11	.74

CAL YR 1971 TOTAL 130,872 MEAN 359 MAX 5,260 MIN 23 CFSM .55 IN 7.49
WTR YR 1972 TOTAL 190,773 MEAN 521 MAX 5,070 MIN 34 CFSM .80 IN 10.92

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 mile upstream from Sugar Creek, and 1 mile north of Zanesfield.

DRAINAGE AREA.--7.31 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,208.28 ft above mean sea level.

AVERAGE DISCHARGE.--26 year, 7.66 cfs (14.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,100 cfs Apr. 13 (gage height, 9.54 ft in gage house), from rating curve extended above 220 cfs on basis of critical-depth measurement of peak flow; minimum, 0.75 cfs Oct. 31.
Period of record: Maximum discharge, 2,100 cfs Apr. 13, 1972 (gage height, 9.54 ft in gage house), from rating curve extended above 220 cfs on basis of critical-depth measurement of peak flow; minimum, 0.30 cfs Jan. 16, 1966 (gage height, 0.58 ft), result of freezeup.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.5	2.5	9.2	2.7	35	12	11	9.6	6.3	3.3	1.9
2	1.2	1.7	1.7	7.8	2.7	69	12	11	7.8	7.7	6.8	1.9
3	1.1	1.8	1.5	6.0	2.6	26	11	9.8	7.0	75	8.6	2.4
4	1.0	1.8	1.4	7.9	2.5	16	13	9.5	6.4	25	5.1	2.1
5	1.0	1.6	1.5	7.1	2.6	10	11	9.0	5.9	16	4.0	1.8
6	1.1	1.8	4.1	6.9	2.6	8.0	11	8.5	6.2	9.9	3.9	1.7
7	1.1	1.9	9.0	4.9	2.6	7.2	82	8.7	5.7	7.9	3.9	1.7
8	1.1	1.7	5.6	4.5	2.5	9.0	29	31	5.3	7.2	3.6	1.7
9	2.2	1.9	3.7	11	2.5	7.2	23	108	5.6	6.2	3.4	1.6
10	1.8	2.0	3.1	14	2.4	6.2	21	37	5.5	18	3.1	1.5
11	1.4	2.0	2.8	8.7	2.5	5.8	16	23	5.0	8.8	3.0	1.5
12	1.2	2.0	2.5	6.7	2.9	6.8	74	17	4.7	6.9	3.0	2.4
13	1.4	1.8	2.2	6.0	3.3	15	300	19	12	6.0	2.8	1.9
14	2.5	1.6	43	5.2	3.4	27	100	107	8.0	5.1	2.6	6.6
15	1.7	1.7	45	4.7	9.3	15	50	90	12	5.7	2.6	4.4
16	1.7	1.6	16	4.8	7.4	19	40	51	9.8	55	2.4	3.4
17	1.5	1.5	8.6	4.6	6.8	17	70	37	6.7	12	2.4	3.0
18	1.4	1.5	5.8	4.5	6.0	12	24	25	5.8	8.1	16	3.4
19	1.3	2.3	4.9	4.9	5.2	11	28	18	5.3	6.5	8.6	3.2
20	1.1	2.2	5.8	4.8	5.0	13	121	15	4.9	5.7	5.0	2.9
21	1.1	1.5	5.8	4.5	5.6	14	60	13	5.2	5.2	3.7	2.8
22	1.4	1.4	4.6	4.7	6.4	31	84	12	5.2	4.8	3.4	2.7
23	1.3	1.4	4.0	5.0	5.0	21	45	10	5.1	4.5	3.1	7.1
24	1.6	1.4	3.9	4.6	4.6	16	32	9.6	4.9	7.2	2.8	6.4
25	1.3	1.4	3.5	4.2	5.1	14	22	8.9	5.4	5.7	2.6	4.9
26	1.2	1.4	3.9	3.7	6.3	12	19	8.3	4.9	4.7	2.7	19
27	1.0	2.0	4.3	3.3	6.7	16	16	7.9	4.0	5.1	2.6	56
28	.85	2.1	4.3	3.0	10	21	14	7.6	3.6	4.6	2.6	17
29	.85	2.7	4.1	2.9	13	20	13	7.5	21	4.5	2.2	13
30	.85	3.3	47	2.8	------	17	12	12	9.4	4.0	2.1	59
31	.88	------	17	2.7	------	13	------	11	------	3.5	1.9	------
TOTAL	40.33	54.5	273.1	175.6	140.2	530.2	1,365	753.3	207.9	352.8	123.8	238.9
MEAN	1.30	1.82	8.81	5.66	4.83	17.1	45.5	24.3	6.93	11.4	3.99	7.96
MAX	2.5	3.3	47	14	13	69	300	108	21	75	16	59
MIN	.85	1.4	1.4	2.7	2.4	5.8	11	7.5	3.6	3.5	1.9	1.5
CFSM	.18	.25	1.21	.77	.66	2.34	6.22	3.32	.95	1.56	.55	1.09
IN.	.21	.28	1.39	.89	.71	2.70	6.95	3.83	1.06	1.80	.63	1.22

CAL YR 1971 TOTAL 1,976.83 MEAN 5.42 MAX 100 MIN .85 CFSM .74 IN 10.06
WTR YR 1972 TOTAL 4,255.63 MEAN 11.6 MAX 300 MIN .85 CFSM 1.59 IN 21.66

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	Unknown	9.54	2,100	7-16	0145	2.57	280
4-20	0300	2.79	329	9-27	0615	2.31	223
5-14	2115	3.74	538				

NOTE.--No gage height record Apr. 13-17.

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 miles upstream from Dugan Run, 1.8 miles downstream from Muddy Creek, and 2.5 miles west of Urbana.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--September 1925 to September 1931, August 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 985.22 ft 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 downstream at datum 0.36 ft lower. Aug. 1 to Sept. 25, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--39 years, 137 cfs (11.48 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,830 cfs Apr. 7 (gage height, 6.09 ft); minimum, 44 cfs Nov. 22, 23.
Period of record: Maximum discharge, 8,000 cfs Jan. 22, 1959 (gage height, 12.05 ft), from rating curve extended above 4,000 cfs on basis of estimate of peak flow based on contracted-opening measurement at site 3 miles downstream with drainage area of 235 sq mi adjusted to gage site by 0.8 power of the drainage-area ratio; minimum, 2.1 cfs Jan. 21, 1963 (gage height, 2.33 ft), result of freezeup; minimum daily, 24 cfs 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 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	49	62	196	78	130	136	190	180	123	101	75
2	49	53	57	171	78	417	131	180	170	117	104	75
3	51	49	55	157	72	237	127	180	160	234	166	78
4	49	49	53	164	64	169	129	170	150	189	121	77
5	48	49	53	175	70	139	124	160	150	150	109	74
6	48	49	66	145	72	122	122	150	140	134	106	75
7	48	48	131	136	68	126	921	150	140	124	106	75
8	48	48	152	127	66	135	505	170	130	124	106	74
9	55	49	111	147	64	116	343	688	130	120	105	73
10	57	48	100	214	62	111	320	396	120	148	100	73
11	53	49	90	164	66	109	287	299	120	141	97	72
12	49	49	87	142	70	111	264	254	130	127	97	105
13	49	49	82	120	77	115	916	244	140	122	93	104
14	57	48	146	100	83	172	409	319	150	118	91	103
15	57	48	426	88	218	139	323	951	140	118	92	103
16	57	48	264	100	171	152	475	516	140	281	89	89
17	59	48	162	105	129	192	458	387	130	182	90	85
18	55	48	128	107	110	152	337	300	130	145	96	82
19	53	51	117	113	92	132	306	260	120	129	148	82
20	51	49	117	108	80	122	598	230	120	123	100	81
21	51	49	114	108	88	122	396	210	120	119	89	77
22	53	48	105	107	100	283	665	200	120	115	88	77
23	51	46	100	119	86	237	444	190	120	114	88	81
24	51	49	97	112	82	172	320	180	120	114	85	106
25	51	49	95	104	86	157	270	170	120	120	84	91
26	53	48	95	94	91	145	240	160	110	111	82	129
27	53	51	95	90	84	148	220	150	110	111	82	276
28	51	51	92	84	91	187	210	140	110	108	81	189
29	49	55	90	80	106	167	200	140	180	105	77	141
30	49	62	445	78	------	157	190	160	160	104	75	346
31	49	------	317	76	------	141	------	190	------	102	74	------
TOTAL	1,605	1,486	4,104	3,831	2,604	5,014	10,386	8,084	4,060	4,172	3,022	3,168
MEAN	51.8	49.5	132	124	89.8	162	346	261	135	135	97.5	106
MAX	59	62	445	214	218	417	921	951	180	281	166	346
MIN	48	46	53	76	62	109	122	140	110	102	74	72
CFSM	.32	.31	.81	.77	.55	1.00	2.14	1.61	.83	.83	.60	.65
IN.	.37	.34	.94	.88	.60	1.15	2.38	1.86	.93	.96	.69	.73

CAL YR 1971 TOTAL 37,816 MEAN 104 MAX 1,480 MIN 39 CFSM .64 IN 8.68
WTR YR 1972 TOTAL 51,536 MEAN 141 MAX 951 MIN 46 CFSM .87 IN 11.83

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-7	1230	6.09	1,830	5-15	0430	5.88	1,690
4-13	1400	5.51	1,430				

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 upstream from Chapman Creek, 0.8 mile southeast of Tremont City, and 1.3 miles downstream from Storms Creek.

DRAINAGE AREA.--264 sq mi.

PERIOD OF RECORD.--July 1931 to March 1933, October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 926.40 ft above mean sea level. July 23, 1931, to Mar. 31, 1933, nonrecording gage at same site at datum 2.92 ft higher.

AVERAGE DISCHARGE.--8 years (1932, 1966-72) 231 cfs.

EXTREMES.--Current year: Maximum discharge, 4,470 cfs May 15 (gage height, 11.64); minimum, 94 cfs Oct. 8, 9.
Period of record: Maximum discharge, 11,900 cfs, June 26, 1971 (gage height 16.12 ft), from rating curve extended above 2,200 cfs; minimum, 69 cfs Jan. 27, Feb. 1, 1971, result of freezeup.
Flood in March 1913 reached a stage of 19.2 ft, 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.

REVISIONS (WATER YEARS).--WRD Ohio 1969: 1966(M) 1967(P) 1968.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	106	142	372	150	241	218	330	322	208	157	112
2	117	114	129	330	150	671	211	317	300	200	157	112
3	112	112	123	304	160	410	204	304	284	292	200	112
4	109	109	117	335	140	317	208	292	275	271	174	112
5	103	106	114	339	140	240	200	288	267	225	164	109
6	100	103	222	275	140	210	197	275	267	208	164	106
7	97	103	490	255	130	220	2,030	271	263	200	160	103
8	97	114	353	236	130	220	764	296	255	200	160	106
9	114	123	255	284	140	200	550	1,020	252	197	167	103
10	126	117	218	390	142	190	490	616	248	214	154	103
11	114	117	197	304	148	190	430	440	236	214	151	97
12	106	117	187	263	148	204	395	376	233	200	148	138
13	103	112	170	259	157	214	1,090	386	252	194	145	138
14	142	106	465	220	177	296	534	620	259	187	142	142
15	129	103	742	170	450	259	430	2,290	240	190	142	145
16	164	106	420	180	326	308	849	896	244	328	138	126
17	170	109	279	200	240	362	528	644	233	255	132	123
18	145	109	214	204	210	284	475	534	225	214	138	123
19	132	114	194	214	180	240	430	470	222	200	180	126
20	120	114	197	208	170	229	818	430	218	190	142	129
21	114	112	200	208	180	229	610	405	218	183	135	123
22	117	106	177	211	170	528	1,130	381	218	177	132	126
23	117	106	164	233	174	405	732	357	214	174	138	129
24	126	114	157	225	174	308	566	339	214	177	132	160
25	129	109	148	190	164	279	475	322	211	183	129	148
26	123	106	148	170	167	259	430	308	208	170	129	174
27	120	112	151	160	157	255	395	300	204	167	123	332
28	114	112	154	150	160	279	372	292	200	167	120	236
29	112	126	151	150	180	263	348	292	218	160	117	187
30	109	157	981	140	------	255	339	322	229	157	114	446
31	109	------	588	140	------	229	------	357	------	157	112	------
TOTAL	3,722	3,374	8,247	7,319	5,154	8,794	16,448	14,770	7,229	6,259	4,496	4,426
MEAN	120	112	266	236	178	284	548	476	241	202	145	148
MAX	170	157	981	390	450	671	2,030	2,290	322	328	200	446
MIN	97	103	114	140	130	190	197	271	200	157	112	97

CAL YR 1971 TOTAL 73,404 MEAN 201 MAX 3,440 MIN 81
WTR YR 1972 TOTAL 90,238 MEAN 247 MAX 2,290 MIN 97

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-7	1030	10.80	3,500	5-15	0200	11.64	4,470

03267700 Moore Run near Eagle City, Ohio

LOCATION.--Lat 39°59'24", long 83°49'03", in SE 1/4 sec. 3, R.10, T.4, Clark County, on right bank at downstream side of bridge on River Road, 0.8 mile upstream from mouth, 1.3 miles northeast of Eagle City, and 1.8 miles southeast of Tremont City.

DRAINAGE AREA.--18.2 sq mi.

PERIOD OF RECORD.--October 1965 to September 1972 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 926.03 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 19.4 cfs.

EXTREMES.--Current year: Maximum discharge, 961 cfs Dec. 30 (gage height, 8.61 ft) from rating curve extended above 55 cfs; minimum daily, 12 cfs Nov. 14, 15.
Period of record: Maximum discharge, 1,370 cfs May 12, 1970 (gage height, 9.81 ft) from rating curve extended above 55 cfs; minimum, 1.2 cfs Aug. 10, 1970.

REMARKS.--Records fair. Water supply for city of Springfield is pumped from wells, adjacent to Mad River, beginning about 0.9 mile downstream from station. Recharge to the well field is largely by induced infiltration from Mad River and Moore Run. See REMARKS for station 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	16	15	23	17	21	18	25	22	16	17	17
2	17	18	14	23	17	24	18	25	20	15	17	17
3	16	16	14	22	18	20	19	25	20	17	19	17
4	16	16	14	24	16	18	19	25	19	15	15	17
5	17	16	14	22	17	18	19	24	18	15	15	17
6	17	15	26	20	16	17	19	22	20	15	14	17
7	16	14	34	20	15	18	151	22	20	15	14	17
8	16	14	22	20	15	18	33	34	20	15	15	16
9	22	15	20	22	16	17	28	66	20	16	17	15
10	17	15	19	20	15	17	26	32	20	20	15	15
11	16	14	19	20	15	17	25	29	19	16	15	16
12	16	14	17	20	15	16	25	27	19	16	15	25
13	16	13	17	20	17	17	26	43	25	15	14	18
14	17	12	37	19	19	17	24	36	18	15	14	22
15	16	12	34	18	30	16	23	52	19	30	14	17
16	33	13	24	19	21	22	46	41	18	20	14	17
17	19	14	21	18	20	20	30	35	17	16	14	16
18	18	14	20	19	19	18	28	32	16	15	14	18
19	16	15	19	18	18	17	33	30	16	15	14	15
20	16	14	20	19	17	18	40	28	16	15	14	14
21	17	14	19	18	18	22	38	26	16	14	14	14
22	18	14	19	18	17	35	49	26	16	14	14	14
23	17	14	19	18	18	24	35	26	16	14	32	14
24	19	14	18	18	18	21	31	25	16	22	52	14
25	16	13	17	18	17	20	30	25	15	16	20	14
26	17	13	18	18	17	19	28	24	16	15	42	20
27	16	14	17	17	17	19	26	23	16	14	21	17
28	16	13	18	17	17	19	26	22	16	14	18	15
29	16	18	19	17	18	19	25	24	18	15	17	16
30	16	15	157	17	------	19	25	31	17	16	17	36
31	14	------	27	17	------	18	------	25	------	17	17	------
TOTAL	537	432	768	599	510	601	963	930	544	503	564	517
MEAN	17.3	14.4	24.8	19.3	17.6	19.4	32.1	30.0	18.1	16.2	18.2	17.2
MAX	33	18	157	24	30	35	151	66	25	30	52	36
MIN	14	12	14	17	15	16	18	22	15	14	14	14

CAL YR 1971 TOTAL 7,624.0 MEAN 20.9 MAX 358 MIN 9.0
WTR YR 1972 TOTAL 7,468.0 MEAN 20.4 MAX 157 MIN 12

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1100	8.61	961	8-26	1700	6.07	295
4- 7	0500	7.82	706				

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 mile southeast of Eagle City, 1.1 miles downstream from Moore Run, 3.1 miles upstream from Buck Creek, and 3.3 miles south of Tremont City.

DRAINAGE AREA.--310 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 904.66 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 266 cfs.

EXTREMES.--Current year: Maximum discharge, 4,840 cfs May 15 (gage height, 12.06 ft); minimum, 97 cfs Oct. 7, 8.
Period of record: Maximum discharge, 9,700 cfs June 26, 1971 (gage height 16.00 ft), from rating curve extended above 2,200 cfs; minimum, 91 cfs Sept. 19, 1966.
Flood of March 1913 reached a stage of 19.8 ft, from data furnished by Miami Conservancy District. Flood of Jan. 21, 1959 reached a stage of 15.7 ft.

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 filtration from Mad River and Moore Run. The pumpage averaged 23.3 cfs in 1972 and is returned as sewage 1.4 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	114	152	448	160	304	260	398	362	218	166	124
2	117	123	141	397	170	820	251	392	329	208	164	123
3	110	121	133	365	170	494	248	371	311	292	215	124
4	105	115	123	404	170	373	253	356	299	278	188	126
5	102	114	119	410	160	280	242	347	285	240	170	121
6	102	115	231	331	170	250	239	332	285	222	166	121
7	100	115	556	303	160	240	2,550	323	278	210	166	117
8	100	121	430	278	150	250	1,060	368	268	210	168	115
9	121	137	298	337	160	240	685	1,360	260	205	172	115
10	137	128	258	462	150	220	600	795	260	228	158	112
11	124	128	230	359	160	220	508	548	250	230	152	112
12	115	128	214	311	160	235	448	464	250	210	152	166
13	110	126	199	296	180	246	1,320	504	290	202	148	156
14	156	117	584	250	203	339	668	858	280	195	144	162
15	142	114	1,030	210	542	296	524	2,780	255	212	146	158
16	192	112	644	230	407	365	1,090	1,180	258	345	138	142
17	192	110	413	248	300	444	905	820	245	272	136	136
18	162	108	325	235	260	348	600	648	238	232	140	136
19	150	119	290	242	220	296	544	556	232	212	177	136
20	141	121	298	235	200	273	1,070	492	230	202	154	130
21	133	115	296	237	200	278	790	460	232	195	144	126
22	135	110	268	237	200	676	1,530	431	232	186	148	124
23	133	110	251	273	200	525	995	401	230	183	164	126
24	142	117	242	250	190	387	705	383	228	198	162	160
25	144	114	228	220	190	348	592	365	222	208	148	150
26	137	110	230	200	180	320	528	347	220	186	160	181
27	133	117	232	200	180	311	476	329	212	181	144	360
28	126	115	237	190	190	328	444	323	208	179	138	296
29	121	137	230	180	210	314	422	320	228	175	132	242
30	117	168	1,370	170	------	300	410	359	248	172	128	542
31	115	------	720	160	------	276	------	401	------	168	126	------
TOTAL	4,046	3,599	10,972	8,668	5,992	10,596	20,957	18,011	7,725	6,654	4,814	4,939
MEAN	131	120	354	280	207	342	699	581	258	215	155	165
MAX	192	168	1,370	462	542	820	2,550	2,780	362	345	215	542
MIN	100	108	119	160	150	220	239	320	208	168	126	112

CAL YR 1971 TOTAL 87,161 MEAN 239 MAX 3,300 MIN 96
WTR YR 1972 TOTAL 106,973 MEAN 292 MAX 2,780 MIN 100

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1230	9.75	2,700	5-15	0130	12.06	4,840
4-7	0700	11.44	4,220				

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 upstream from East Fork Buck Creek, 1.7 miles northeast of New Moorefield, and 2.6 miles downstream from Dugan Ditch.

DRAINAGE AREA.--30.5 sq mi.

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage 1,025.10 ft above mean sea level. Prior to May 23, 1967 non-recording gage at same site and datum.

AVERAGE DISCHARGE.--5 years, 24.2 cfs (10.77 inches per year).

EXTREMES.--Current year: Maximum discharge, 720 cfs Apr. 7 (gage height, 7.74 ft); minimum, 7.9 cfs Oct. 6. Period of record: Maximum discharge, 1,190 cfs May 25, 1970 (gage height, 9.09 ft) from rating extended above 140 cfs; minimum, 6.2 cfs Feb. 17, 1968, result of freezeup.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	10	11	31	15	19	20	42	32	16	17	14
2	9.8	11	9.9	29	16	45	20	41	31	16	17	14
3	9.6	10	9.4	27	16	27	19	40	30	17	20	14
4	9.2	9.8	9.2	30	15	22	20	39	29	17	17	14
5	8.9	10	9.0	31	15	20	18	39	28	15	17	14
6	8.7	9.8	13	26	15	18	18	38	28	15	17	14
7	8.4	9.6	26	25	16	19	242	38	26	15	16	14
8	8.8	9.5	24	24	15	18	55	44	26	15	16	14
9	11	10	18	27	15	17	46	131	26	14	17	14
10	11	9.8	17	34	14	16	43	54	25	16	16	14
11	11	9.8	15	26	14	16	40	46	23	15	15	14
12	11	9.9	14	23	14	16	39	42	23	15	15	26
13	11	9.9	13	22	16	17	57	44	25	15	15	22
14	11	9.5	34	21	19	18	40	55	23	14	15	22
15	11	9.4	49	18	67	17	38	121	22	17	15	20
16	13	9.0	30	19	35	28	65	59	21	20	14	19
17	12	9.1	22	20	28	32	51	50	21	16	14	19
18	12	9.3	19	21	24	23	41	47	21	16	14	19
19	11	10	17	22	21	20	52	43	21	16	14	19
20	11	9.9	18	21	20	19	96	42	20	15	14	18
21	10	9.5	17	20	19	20	62	41	20	16	13	18
22	10	9.3	16	22	18	77	107	38	20	16	14	18
23	10	9.3	16	24	17	37	60	38	20	17	17	18
24	10	9.5	16	21	17	27	50	37	20	20	17	21
25	10	9.4	15	20	16	24	46	36	19	21	16	21
26	10	9.1	15	18	16	22	44	36	17	20	16	23
27	9.9	9.8	15	17	16	22	43	34	17	19	15	25
28	10	9.6	15	17	16	21	42	33	17	19	15	23
29	10	11	15	17	16	21	42	33	18	18	14	24
30	10	12	148	16	------	20	42	36	17	17	14	51
31	10	------	45	15	------	20	------	34	------	17	13	------
TOTAL	319.2	293.8	710.5	704	561	738	1,558	1,451	686	515	479	580
MEAN	10.3	9.79	22.9	22.7	19.3	23.8	51.9	46.8	22.9	16.6	15.5	19.3
MAX	13	12	148	34	67	77	242	131	32	21	20	51
MIN	8.4	9.0	9.0	15	14	16	18	33	17	14	13	14
CFSM	.34	.32	.75	.74	.63	.78	1.70	1.53	.75	.54	.51	.63
IN.	.39	.36	.87	.86	.68	.90	1.90	1.77	.84	.63	.58	.71

CAL YR 1971 TOTAL 7,027.1 MEAN 19.3 MAX 398 MIN 8.2 CFSM .63 IN 8.57
WTR YR 1972 TOTAL 8,595.5 MEAN 23.5 MAX 242 MIN 8.4 CFSM .77 IN 10.48

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1400	6.66	410	4-22	0545	5.33	195
4-7	0745	7.74	720	5-9	0500	5.49	220
4-20	0530	5.74	261	5-15	0330	5.68	249

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 upstream from mouth, 0.6 mile downstream from unnamed left bank tributary, and 1.6 miles northeast of New Moorefield.

DRAINAGE AREA.--28.7 sq mi.

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage 1,022.71 ft above mean sea level. Prior to May 23, 1967, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--5 years, 31.9 cfs (15.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,010 cfs Dec. 30 (gage height, 9.60 ft); minimum, 10 cfs Oct. 3, 4, 5, 6, 7, 8.
Period of record: Maximum discharge, 1,180 cfs Aug. 9, 1969 (gage height, 9.98 ft), from rating curve extended above 290 cfs; minimum, 6.2 cfs June 13, 14, 15, 21, July 19, 20, 21, 22, 24, Aug. 1, 2, 3, 5, 6, 7, 11, 1971.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	15	52	16	41	28	39	33	21	15	13
2	12	13	14	49	17	82	27	39	32	21	15	13
3	11	13	13	42	18	42	26	38	31	22	17	13
4	11	13	13	51	18	35	27	38	30	21	15	13
5	11	13	13	46	17	29	25	37	29	21	14	13
6	11	13	25	35	17	26	25	36	28	19	15	12
7	11	13	84	31	17	27	290	36	27	19	14	12
8	11	13	43	29	17	32	81	61	27	19	15	12
9	12	13	31	48	16	25	61	378	26	18	15	12
10	12	13	27	50	14	23	53	94	26	20	14	12
11	12	12	24	38	15	23	46	67	25	19	13	12
12	12	12	22	33	17	23	42	55	25	18	13	25
13	12	12	20	32	20	31	48	91	28	18	13	19
14	12	12	88	29	34	39	39	100	26	17	13	18
15	11	11	67	25	108	29	37	89	25	23	13	16
16	14	11	42	19	40	66	135	79	25	27	12	15
17	14	11	32	21	33	61	76	65	24	21	12	15
18	14	11	27	22	28	41	52	59	23	19	12	15
19	12	12	25	23	25	33	59	50	23	22	12	15
20	12	12	28	23	23	31	105	46	23	20	12	14
21	12	12	26	22	23	35	96	44	23	18	11	14
22	13	12	23	23	23	174	168	42	23	17	12	14
23	13	12	22	25	22	66	84	40	23	17	15	15
24	14	11	22	25	22	48	63	39	22	18	16	17
25	13	11	21	22	21	41	53	38	22	18	16	18
26	13	11	21	20	22	36	48	37	22	17	19	20
27	12	12	21	19	23	36	44	36	21	17	20	22
28	12	12	22	18	24	33	42	35	21	16	15	21
29	12	15	20	17	25	32	41	36	25	15	14	22
30	12	16	296	17	------	31	40	35	25	15	14	71
31	11	------	82	16	------	28	------	34	------	15	13	------
TOTAL	376	368	1,229	922	715	1,299	1,961	1,913	763	588	439	523
MEAN	12.1	12.3	39.6	29.7	24.7	41.9	65.4	61.7	25.4	19.0	14.2	17.4
MAX	14	16	296	52	108	174	290	378	33	27	20	71
MIN	11	11	13	16	14	23	25	34	21	15	11	12
CFSM	.42	.43	1.38	1.03	.86	1.46	2.28	2.15	.89	.66	.49	.61
IN.	.49	.48	1.59	1.20	.93	1.68	2.54	2.48	.99	.76	.57	.68

CAL YR 1971 TOTAL 8,566.5 MEAN 23.5 MAX 342 MIN 8.5 CFSM .82 IN 11.10
WTR YR 1972 TOTAL 11,096.0 MEAN 30.3 MAX 378 MIN 11 CFSM 1.06 IN 14.38

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1300	9.60	1,010	4-7	0830	8.85	822
3-22	0300	6.64	358	5-9	0230	8.68	780

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 downstream from Rock Run, 300 ft downstream from bridge on Lower Valley Pike, 2 miles downstream from Buck Creek, and 3 miles west of Springfield.

DRAINAGE AREA.--490 sq mi.

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 above mean sea level, adjustment of 1912. Jan. 1, 1904, to Mar. 31, 1906, nonrecording gage at site 0.3 mile downstream at different datum. Feb. 1, 1914, to Feb. 29, 1924, nonrecording gage at site 1.8 miles upstream at datum 6.39 ft higher. Mar. 1, 1924, to July 31, 1925, nonrecording gage at site 300 ft upstream at same datum.

AVERAGE DISCHARGE.--59 years (1904-05, 1914-72), 475 cfs (13.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,740 cfs Apr. 7 (gage height, 7.48 ft); minimum daily, 182 cfs Nov. 22.

Period of record: Maximum discharge, 30,500 cfs Jan. 21, 1959 (gage height, 15.76 ft), from rating curve extended above 14,000 cfs on basis of slope-area and contracted-opening measurements of peak flow; minimum, 30 cfs Sept. 15, 1904.

Flood of March 25, 1913 reached a stage of 16.9 ft, present datum (discharge, 55,400 cfs, 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 graph and 8 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	206	265	794	281	424	407	586	514	375	261	228
2	200	249	231	682	281	1,230	390	563	470	345	265	214
3	189	220	234	594	330	802	390	528	446	402	374	224
4	186	206	220	666	269	586	418	507	424	424	295	214
5	186	206	210	674	261	470	380	488	412	365	265	210
6	186	210	539	521	285	402	380	470	418	345	261	206
7	186	203	1,240	458	269	412	3,330	458	407	325	265	206
8	186	206	837	412	257	458	1,650	706	396	325	281	206
9	238	228	500	523	261	385	1,070	2,840	407	320	290	203
10	231	228	446	698	249	350	936	1,500	402	355	261	200
11	224	224	390	556	257	335	786	972	375	360	249	203
12	210	224	350	482	261	340	738	786	375	325	245	624
13	210	217	335	464	320	375	1,610	900	539	310	238	335
14	245	210	594	412	370	470	972	1,330	464	305	234	345
15	234	210	1,700	285	963	440	762	3,110	424	407	238	300
16	417	210	1,040	325	770	650	1,720	1,640	407	500	231	261
17	305	206	634	365	542	846	1,500	1,180	380	424	231	245
18	261	189	482	375	549	626	972	990	370	360	231	281
19	238	269	434	370	440	494	846	828	365	345	265	257
20	228	257	464	360	335	452	1,510	730	360	325	242	242
21	220	214	452	355	355	494	1,240	682	360	315	234	242
22	220	182	402	402	355	1,440	2,240	634	355	300	238	242
23	217	200	380	412	325	1,030	1,480	586	370	285	373	242
24	242	203	365	380	320	698	1,100	556	350	330	388	315
25	238	189	340	380	310	602	900	521	345	335	285	305
26	231	190	340	315	305	532	794	488	340	300	364	424
27	228	200	345	295	290	514	706	470	325	295	315	507
28	220	190	355	320	300	528	658	458	320	285	261	440
29	214	269	335	277	325	494	618	464	739	277	242	385
30	210	295	2,610	281	------	470	602	586	534	269	238	1,020
31	206	------	1,510	269	------	434	------	594	------	269	228	------
TOTAL	7,026	6,510	18,579	13,702	10,435	17,783	31,105	27,151	12,393	10,502	8,388	9,326
MEAN	227	217	599	442	360	574	1,037	876	413	339	271	311
MAX	417	295	2,610	794	963	1,440	3,330	3,110	739	500	388	1,020
MIN	186	182	210	269	249	335	380	458	320	269	228	200
CFSM	.46	.44	1.22	.90	.73	1.17	2.12	1.79	.84	.69	.55	.63
IN.	.53	.49	1.41	1.04	.79	1.35	2.36	2.06	.94	.80	.64	.71

CAL YR 1971 TOTAL 143,405 MEAN 393 MAX 5,910 MIN 160 CFSM .80 IN 10.89
WTR YR 1972 TOTAL 172,900 MEAN 472 MAX 3,330 MIN 182 CFSM .96 IN 13.13

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1030	6.66	4,090	5-15	0730	7.05	4,400
4-7	1430	7.48	4,740				

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 upstream from Huffman Dam, 2.3 miles downstream from Mud Run, and 6.2 miles northeast of Dayton.

DRAINAGE AREA.--635 sq mi.

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 (corrected) above mean sea level, adjustment of 1912. Jan. 21, 1959 to Dec. 14, 1967, at site 900 ft downstream, at datum 77.01 ft lower. See WSP 1725 for history of changes prior to Jan. 21, 1959.

AVERAGE DISCHARGE.--58 years, 608 cfs (13.01 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,720 cfs Dec. 30 (gage height, 10.57 ft); minimum, 214 cfs Sept. 10, 11.
Period of record: Maximum discharge, 21,200 cfs Jan. 22, 1959 (based on Huffman retarding basin outflow records); maximum gage height, 87.9 ft Feb. 26, 1929 at site and datum then in use; minimum discharge, 91 cfs 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, original site and datum (discharge, 75,700 cfs, computed by Miami Conservancy District).

REMARKS.--Records good. Flood flows affected by backwater from Huffman retarding dam beginning in 1921. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph and 8 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	247	316	1,270	330	493	535	742	684	495	280	258
2	244	249	283	984	340	1,310	515	730	624	409	279	252
3	232	289	274	871	350	1,250	499	692	584	428	382	267
4	223	255	268	850	340	840	536	661	556	526	385	253
5	223	241	260	1,020	320	711	494	637	540	432	309	243
6	220	241	441	790	320	578	478	611	544	396	289	237
7	220	250	1,190	695	330	574	2,800	593	540	374	286	233
8	220	245	1,220	628	330	618	2,770	797	516	357	287	227
9	241	239	728	661	320	562	1,490	2,830	504	358	342	226
10	289	254	617	921	325	510	1,220	2,390	560	373	292	220
11	261	256	549	818	332	484	1,030	1,360	484	417	277	214
12	250	257	485	697	334	474	981	1,060	476	367	270	594
13	238	251	448	600	401	500	1,810	1,050	680	341	262	464
14	250	249	892	520	505	606	1,400	1,690	688	326	256	361
15	285	240	2,150	440	1,040	622	1,020	3,320	552	365	268	350
16	368	237	1,730	420	1,170	767	1,890	2,410	544	590	263	296
17	500	233	971	420	759	1,110	2,270	1,620	496	563	259	274
18	372	232	719	470	727	875	1,360	1,290	464	436	258	285
19	332	254	613	496	638	694	1,090	1,060	448	397	285	322
20	299	253	615	466	471	619	1,620	916	440	394	296	274
21	282	244	617	465	504	597	1,560	844	432	364	266	268
22	271	238	559	455	475	1,580	2,940	788	432	339	256	271
23	264	229	513	493	440	1,460	2,070	736	428	320	395	262
24	275	232	491	528	435	959	1,510	700	444	324	388	335
25	299	235	457	440	414	815	1,190	668	412	446	446	401
26	292	227	448	400	408	724	1,010	636	400	345	414	486
27	282	233	444	380	392	663	899	608	388	318	577	588
28	268	237	471	370	389	668	829	580	382	309	339	613
29	264	267	448	360	414	644	796	580	541	304	302	480
30	256	336	2,430	350	------	620	770	720	884	293	279	994
31	249	------	2,840	340	------	574	------	788	------	283	264	------
TOTAL	8,516	7,450	24,487	18,618	13,553	23,501	39,382	34,107	15,667	11,989	9,751	10,548
MEAN	275	248	790	601	467	758	1,313	1,100	522	387	315	352
MAX	500	336	2,840	1,270	1,170	1,580	2,940	3,320	884	590	577	994
MIN	220	227	260	340	320	474	478	580	382	283	256	214
CFSM	.43	.39	1.24	.95	.74	1.19	2.07	1.73	.82	.61	.50	.55
IN.	.50	.44	1.43	1.09	.79	1.38	2.31	2.00	.92	.70	.57	.62

CAL YR 1971 TOTAL 182,477 MEAN 500 MAX 4,940 MIN 187 CFSM .79 IN 10.69
WTR YR 1972 TOTAL 217,569 MEAN 594 MAX 3,320 MIN 214 CFSM .94 IN 12.75

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 downstream from Main Street Bridge in Dayton, 0.7 mile upstream from Wolf Creek, and 0.8 mile downstream from Mad River.

DRAINAGE AREA.--2,511 sq mi.

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 above mean sea level, adjustment of 1912. Prior to Oct. 1, 1921 nonrecording gage at Main Street Bridge at datum 23.73 ft higher. Oct. 1, 1921, to July 24, 1931, nonrecording gage at Main Street Bridge at datum 21.00 ft higher.

AVERAGE DISCHARGE.--43 years (1929-72), 2,039 cfs.

EXTREMES.--Current year: Maximum discharge, 19,000 cfs Apr. 8 (gage height, 28.81 ft); minimum, 266 cfs Oct. 9.
Period of record: Maximum discharge, 60,900 cfs Jan. 22, 1959 (gage height, 35.45 ft in gage well, from graph based on gage readings; 36.0 ft, from outside floodmarks); minimum, 78 cfs Sept. 26, 1941.
Flood of Mar. 26, 1913 reached a stage of 29.0 ft, site and datum then in use (discharge, 250,000 cfs, 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 miles upstream, on Stillwater River 10.5 miles upstream, on Great Miami River 11.5 miles upstream, and on Loramie Creek 40 miles upstream. Also see REMARKS for station No. 03261500 and 03261950. Water is diverted 6 miles 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 graph and 10 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1385: 1917. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	467	347	767	8,390	960	1,500	1,850	2,500	2,770	1,370	503	323
2	400	415	727	5,550	940	8,210	1,670	2,400	2,280	1,090	486	348
3	351	372	658	4,420	1,000	12,400	1,530	2,140	1,820	1,080	682	507
4	330	345	636	3,880	940	8,960	1,560	1,930	1,540	2,720	703	478
5	308	334	583	4,460	860	5,510	1,540	1,790	1,350	3,150	568	393
6	295	348	847	3,560	900	3,550	1,530	1,650	1,350	2,240	531	334
7	277	361	1,780	2,780	900	2,760	8,630	1,500	1,270	1,560	529	321
8	286	360	2,650	2,370	840	2,490	18,200	2,090	1,170	1,170	512	337
9	347	376	2,430	2,300	800	2,270	13,600	7,410	1,140	1,010	571	332
10	401	390	1,770	4,390	780	1,960	9,300	11,100	1,230	998	510	314
11	372	390	1,360	5,130	750	1,710	6,350	6,740	1,100	1,340	471	320
12	365	390	1,170	3,810	720	1,560	5,100	4,750	1,110	1,110	462	887
13	349	386	1,160	2,990	894	1,580	7,330	4,110	2,190	852	451	1,020
14	401	362	1,950	2,530	1,090	3,270	9,690	5,130	3,900	780	444	1,270
15	426	362	7,660	1,870	2,110	4,460	8,200	12,300	3,960	919	445	1,220
16	646	355	10,600	1,670	3,370	3,870	8,280	13,700	3,370	1,130	436	1,160
17	721	353	6,740	2,590	2,620	4,080	12,600	9,420	3,020	1,660	434	767
18	551	360	4,120	1,930	2,200	3,730	9,540	6,280	2,070	1,320	420	668
19	482	433	2,730	1,640	1,900	2,760	6,270	4,720	1,630	1,050	426	743
20	440	427	2,270	1,440	1,330	2,160	7,380	3,660	1,420	946	472	555
21	411	389	2,010	1,360	1,340	1,950	13,000	2,960	1,280	923	441	574
22	413	380	1,880	1,360	1,270	3,140	15,400	2,530	1,540	789	487	502
23	386	372	1,680	1,990	1,110	3,700	17,300	2,210	1,790	721	584	452
24	444	401	1,530	2,580	1,070	3,120	13,100	1,980	1,520	722	623	2,640
25	435	390	1,430	2,180	1,040	2,490	8,060	1,780	1,280	845	726	4,220
26	436	368	1,350	1,680	1,010	2,110	5,670	1,610	1,130	699	692	2,760
27	427	403	1,350	1,310	976	1,890	4,410	1,480	1,010	561	866	5,170
28	408	411	1,390	1,220	963	2,140	3,500	1,350	914	580	573	5,590
29	388	632	1,320	1,100	990	2,700	2,960	1,290	1,080	545	445	3,760
30	363	777	5,040	1,100	------	2,430	2,630	1,820	1,740	531	332	4,060
31	350	------	12,100	1,000	------	2,100	------	2,290	------	515	320	------
TOTAL	12,676	11,989	83,688	84,580	35,673	106,560	226,180	126,620	52,974	34,926	16,145	42,025
MEAN	409	400	2,700	2,728	1,230	3,437	7,539	4,085	1,766	1,127	521	1,401
MAX	721	777	12,100	8,390	3,370	12,400	18,200	13,700	3,960	3,150	866	5,590
MIN	277	334	583	1,000	720	1,500	1,530	1,290	914	515	320	314

CAL YR 1971 TOTAL 562,997 MEAN 1,542 MAX 20,100 MIN 213
WTR YR 1972 TOTAL 834,036 MEAN 2,279 MAX 18,200 MIN 277

03270800 Wolf Creek at Trotwood, Ohio

LOCATION.--Lat 39°47'39", long 84°18'36", Montgomery County, on right bank 350 ft downstream from Union Road Bridge, 700 ft downstream from unnamed right bank tributary, 0.2 mile south of Trotwood, and 0.3 mile upstream from confluence with North Branch.

DRAINAGE AREA.--22.7 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 826.28 ft above mean sea level.

AVERAGE DISCHARGE.--10 years, 18.1 cfs (10.83 inches per year).

EXTREMES.--Current year: Maximum discharge, 888 cfs Dec. 30 (gage height, 3.53 ft); minimum, 0.04 cfs Aug. 31, Sept. 1.
Period of record: Maximum discharge, 2,970 cfs May 24, 1968 (gage height, 6.47 ft); 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 cfs (gage height, 8.0 ft), computed by Miami Conservancy District on basis of estimate of peak flow based on contracted-opening measurement at site 1.1 miles downstream with drainage area of 48.2 sq mi, adjusted to gage site by 0.8 power of the drainage-area ratio. Flood of March 1913 reached a stage of 9.4 ft (computed by Miami Conservancy District).

REMARKS.--Records good except those for January and February, which are fair. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph and 12 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	1.2	1.4	31	5.2	65	7.0	14	14	4.0	1.3	5.3
2	.47	1.2	1.0	34	6.0	186	6.0	12	11	4.0	.90	6.2
3	.47	.72	.86	26	8.0	67	5.5	10	10	6.2	1.7	10
4	.47	.57	.86	37	7.2	47	7.0	9.0	9.6	4.4	.74	4.1
5	.36	.57	1.0	37	6.2	30	5.0	8.5	8.5	4.4	.18	1.8
6	.36	1.0	10	23	5.8	21	5.5	8.0	11	3.6	.18	1.3
7	.47	1.8	22	16	5.4	17	229	8.0	8.5	3.2	.36	1.1
8	.47	2.1	10	13	5.0	14	84	52	7.5	3.6	.12	.90
9	3.6	1.8	5.4	35	4.8	12	60	183	7.0	3.6	.26	.74
10	2.1	1.8	4.1	43	4.6	11	43	55	7.0	2.8	.26	.60
11	.47	2.1	3.7	28	4.5	9.6	29	32	6.0	2.0	.26	.48
12	.26	1.8	3.0	19	4.5	9.0	47	24	5.0	1.3	.48	7.1
13	4.3	2.1	2.4	14	14	12	120	91	177	.74	1.3	2.4
14	1.7	1.8	65	10	42	32	39	134	74	.36	.48	1.3
15	.57	1.4	64	9.0	35	20	28	244	48	2.3	.48	1.3
16	1.6	1.0	34	8.4	26	35	182	88	60	2.2	.90	.90
17	.86	1.2	20	8.0	20	54	72	49	26	1.5	.60	.90
18	.18	1.4	13	7.8	17	30	37	34	17	.60	.60	1.7
19	.12	4.6	11	7.6	14	21	28	24	12	2.0	1.1	2.8
20	.12	3.0	16	7.6	12	16	34	21	11	.90	1.5	1.1
21	.36	1.6	14	8.0	11	15	65	18	11	.60	.90	.91
22	.72	1.2	11	9.4	10	41	124	15	8.5	1.3	2.8	1.3
23	1.0	1.0	9.5	15	10	28	51	13	8.5	.90	1.0	1.3
24	1.8	1.0	9.5	19	10	21	35	11	9.0	1.1	.74	14
25	1.6	.86	7.8	13	8.0	18	25	10	7.5	1.1	.07	7.2
26	.72	.86	7.8	9.4	8.0	14	20	9.0	6.0	1.1	.47	14
27	.72	1.8	7.8	8.2	7.5	13	16	8.5	5.0	1.3	1.0	7.5
28	.72	1.6	7.8	7.0	8.0	11	14	8.0	4.8	1.1	.12	4.8
29	.72	2.5	6.8	6.0	10	10	13	8.0	4.4	1.1	.07	4.4
30	.86	3.4	202	5.2	------	8.5	14	25	4.4	1.1	.05	13
31	1.0	------	57	5.6	------	7.5	------	23	------	1.3	.04	------
TOTAL	29.53	48.98	629.72	520.2	329.7	895.6	1,445.0	1,249.0	599.2	65.70	20.96	120.43
MEAN	.95	1.63	20.3	16.8	11.4	28.9	48.2	40.3	20.0	2.12	.68	4.01
MAX	4.3	4.6	202	43	42	186	229	244	177	6.2	2.8	14
MIN	.12	.57	.86	5.2	4.5	7.5	5.0	8.0	4.4	.36	.04	.48
CFSM	.04	.07	.89	.74	.50	1.27	2.12	1.78	.88	.09	.03	.18
IN.	.05	.08	1.03	.85	.54	1.47	2.37	2.05	.98	.11	.03	.20

CAL YR 1971 TOTAL 5,320.07 MEAN 14.6 MAX 474 MIN .04 CFSM .64 IN 8.72
WTR YR 1972 TOTAL 5,954.02 MEAN 16.3 MAX 244 MIN .04 CFSM .72 IN 9.76

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1030	3.53	888	6-13	1500	3.36	786

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 downstream from bridge on State Highway 725 at Miamisburg, 0.3 mile downstream from Bear Creek, and 3.2 miles upstream from Crains Run.

DRAINAGE AREA.--2,711 sq mi.

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 above mean sea level, adjustment of 1912. Mar. 16, 1916 to Sept. 30, 1920, nonrecording gage at site 6.7 miles 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 miles downstream at datum 677.06 ft above mean sea level.

AVERAGE DISCHARGE.--35 years, 2,283 cfs (11.44 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,500 cfs Apr. 8 (gage height, 11.39 ft); minimum, 440 cfs Nov. 26. Period of record: Maximum discharge, 61,800 cfs Jan. 21, 22, 1959 (gage height, 20.65 ft, in gage well, from graph based on gage readings; 21.3 ft, from outside floodmarks); minimum daily, 148 cfs Sept. 7, 1925. Flood of March 26, 1913 reached a discharge of 257,000 cfs, computed by Miami Conservancy District.

REMARKS.--Records fair. Diurnal fluctuation caused by powerplant 0.4 mile upstream from station. Flood flow regulated by retarding dams beginning in 1920 on Mad River 19 miles upstream, on Stillwater River 23 miles upstream, on Great Miami River 23 miles upstream and on Loramie Creek 52 miles upstream. Also see REMARKS for station No. 03261500. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639	535	804	8,920	1,230	1,540	1,980	2,620	2,790	1,710	667	510
2	570	641	776	5,840	1,190	7,240	1,800	2,530	2,450	1,360	664	530
3	511	587	703	4,570	1,310	12,500	1,680	2,280	2,010	1,310	771	771
4	514	543	665	4,110	1,200	9,470	1,750	2,080	1,730	2,370	893	650
5	501	533	605	4,560	900	5,640	1,650	1,940	1,560	3,250	691	584
6	495	539	1,060	3,870	1,000	3,690	1,690	1,830	1,570	2,500	656	551
7	474	541	1,840	3,070	960	2,920	7,780	1,670	1,510	1,900	744	540
8	475	527	2,390	2,640	920	2,640	17,900	3,080	1,390	1,450	645	562
9	549	569	2,240	2,610	860	2,410	14,100	7,480	1,350	1,270	676	551
10	576	558	1,760	4,080	820	2,150	9,640	11,000	1,420	1,200	652	530
11	558	568	1,320	5,280	820	1,880	6,400	6,920	1,320	1,510	605	551
12	553	555	1,080	4,040	880	1,740	5,940	4,810	1,350	1,430	604	1,000
13	543	538	1,080	3,200	1,000	1,750	8,640	4,390	3,430	1,100	576	1,220
14	625	492	2,060	2,750	1,360	2,970	9,830	5,300	3,980	1,010	579	1,270
15	614	503	6,310	2,020	2,200	4,380	8,570	10,900	4,100	1,160	608	1,300
16	914	504	10,100	1,220	3,420	4,150	9,630	13,500	3,440	1,360	598	1,240
17	896	500	6,990	1,470	2,880	4,350	12,700	9,700	3,240	1,740	608	914
18	767	506	4,230	2,000	2,380	3,850	9,930	6,270	2,330	1,550	586	815
19	668	577	2,840	1,940	2,090	2,940	6,450	4,740	1,910	1,230	599	881
20	645	552	2,460	1,700	1,520	2,360	6,610	3,710	1,690	1,100	631	727
21	606	492	2,170	1,610	1,510	2,190	12,900	3,040	1,550	1,060	636	727
22	626	494	2,040	1,580	1,460	3,370	15,200	2,650	1,640	930	641	694
23	570	497	1,860	1,990	1,310	3,740	17,000	2,340	2,040	825	827	639
24	665	507	1,700	2,760	1,230	3,230	13,500	2,130	1,800	886	813	2,120
25	638	489	1,580	2,390	1,230	2,630	8,370	1,940	1,560	999	930	4,140
26	640	466	1,500	1,970	1,200	2,250	5,720	1,780	1,410	863	896	2,970
27	631	497	1,510	1,580	1,130	2,050	4,460	1,620	1,300	721	1,000	4,570
28	614	483	1,550	1,400	1,140	2,120	3,570	1,480	1,200	714	719	5,350
29	583	679	1,460	1,320	1,150	2,730	3,060	1,440	1,350	686	646	3,840
30	550	826	5,720	1,250	------	2,530	2,780	2,190	1,860	663	523	3,840
31	523	------	11,900	1,170	------	2,220	------	2,360	------	666	506	------
TOTAL	18,733	16,298	84,303	88,910	40,300	109,630	231,230	129,720	60,280	40,523	21,190	44,587
MEAN	604	543	2,719	2,868	1,390	3,536	7,708	4,185	2,009	1,307	684	1,486
MAX	914	826	11,900	8,920	3,420	12,500	17,900	13,500	4,100	3,250	1,000	5,350
MIN	474	466	605	1,170	820	1,540	1,650	1,440	1,200	663	506	510
CFSM	.22	.20	1.00	1.06	.51	1.30	2.84	1.54	.74	.48	.25	.55
IN.	.26	.22	1.16	1.22	.55	1.50	3.17	1.78	.83	.56	.29	.61

CAL YR 1971 TOTAL 627,094 MEAN 1,718 MAX 20,200 MIN 360 CFSM .63 IN 8.60
WTR YR 1972 TOTAL 885,704 MEAN 2,420 MAX 17,900 MIN 466 CFSM .89 IN 12.15

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 mile downstream from Bantas Fork, 1.4 miles west of Ingomar, and 4.8 miles upstream from Aukerman Creek.

DRAINAGE AREA.--197 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--10 years, 170 cfs (11.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,580 cfs Apr. 12 (gage height, 7.55 ft); minimum, 4.8 cfs Oct. 6, 7, 8, 9.
Period of record: Maximum discharge, 19,300 cfs Mar. 4, 1963 (gage height, 14.40 ft), from rating curve extended above 4,000 cfs on basis of contracted-opening measurement at gage height 18.8 ft; minimum daily, 2.5 cfs Sept. 12-14, 1964.
Flood of Jan. 21, 1959 reached a stage of 18.8 ft (discharge, 30,300 cfs, computed by Miami Conservancy District). Flood of Mar. 25, 1913 reached a stage of 28.0 ft.

REMARKS.--Records good except those for the winter period, which are fair. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph and 9 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	8.8	16	242	56	360	95	155	194	55	13	5.9
2	5.9	9.8	14	224	54	2,300	90	160	135	46	12	6.6
3	5.4	8.8	13	206	50	760	85	133	107	46	13	19
4	5.4	8.8	13	213	50	390	92	113	93	49	16	12
5	5.0	8.8	12	276	48	280	85	99	80	47	14	9.8
6	5.2	9.3	22	150	44	230	85	90	78	40	14	7.8
7	4.8	9.8	65	120	44	210	1,890	88	75	35	14	7.0
8	4.8	9.3	67	100	42	210	1,100	368	65	33	13	6.6
9	5.9	9.8	44	186	41	186	798	1,690	64	32	12	6.6
10	7.4	9.8	36	419	40	150	560	641	59	30	12	6.6
11	8.3	9.8	31	273	50	130	379	339	52	29	12	6.6
12	7.0	10	28	191	62	130	1,040	239	48	27	13	6.2
13	7.0	9.8	24	162	80	130	2,410	313	651	25	12	7.0
14	7.8	9.8	235	117	250	260	871	2,330	1,100	23	12	8.8
15	6.6	10	643	80	170	220	495	2,110	481	25	11	8.3
16	8.8	9.8	419	100	120	366	1,850	1,180	497	28	10	7.4
17	13	9.8	185	120	100	530	1,350	575	248	30	10	7.0
18	12	9.8	117	120	85	350	575	363	168	28	9.8	7.0
19	9.8	12	90	85	72	260	379	259	133	28	9.8	7.4
20	8.8	12	93	75	76	190	411	206	113	24	9.8	7.4
21	8.3	12	95	72	72	170	541	172	101	22	9.8	7.0
22	8.8	11	78	70	72	280	1,590	148	86	20	10	6.6
23	8.8	10	67	158	76	280	749	125	78	18	9.3	7.0
24	12	11	64	178	72	220	427	111	75	17	8.8	13
25	12	11	56	130	74	180	290	101	68	17	8.3	17
26	12	10	55	74	70	160	221	90	62	16	7.8	23
27	11	12	55	68	72	140	182	81	56	15	8.3	24
28	9.8	13	51	62	82	130	160	75	52	14	7.8	24
29	9.3	15	46	60	180	121	148	73	56	14	7.4	25
30	8.8	17	934	60	------	117	142	141	59	13	6.6	28
31	8.8	------	555	58	------	97	------	331	------	13	6.2	------
TOTAL	255.2	317.8	4,223	4,449	2,304	9,537	19,090	12,899	5,134	859	332.7	335.6
MEAN	8.23	10.6	136	144	79.4	308	636	416	171	27.7	10.7	11.2
MAX	13	17	934	419	250	2,300	2,410	2,330	1,100	55	16	28
MIN	4.8	8.8	12	58	40	97	85	73	48	13	6.2	5.9
CFSM	.04	.05	.69	.73	.40	1.56	3.23	2.11	.87	.14	.05	.06
IN.	.05	.06	.80	.84	.44	1.80	3.60	2.44	.97	.16	.06	.06

CAL YR 1971 TOTAL 45,413.5 MEAN 124 MAX 4,230 MIN 4.8 CFSM .63 IN 8.58
WTR YR 1972 TOTAL 59,736.3 MEAN 163 MAX 2,410 MIN 4.8 CFSM .83 IN 11.28

PEAK DISCHARGE (BASE, 4,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	Unknown	7.32	5,280	4-12	2030	7.55	5,580

NOTE.--No gage-height record Feb. 10 to Mar. 28.

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 mile downstream from Germantown Dam, 1.5 miles northwest of Germantown, and 3 miles upstream from Little Twin Creek.

DRAINAGE AREA.--275 sq mi.

PERIOD OF RECORD.--April 1914 to December 1923, December 1926 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.24 ft above mean sea level, adjustment of 1912. Prior to Dec. 18, 1926 nonrecording gage at site 1 mile downstream at datum 12.49 ft higher.

AVERAGE DISCHARGE.--54 years (1914-23, 1927-72), 257 cfs (12.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,210 cfs Apr. 13 (gage height, 25.06 ft); minimum, 8.0 cfs Oct. 7, 8, 9.

Period of record: Maximum discharge, 9,390 cfs July 8, 1915 (gage height, 11.7 ft, from graph based on gage readings, site and datum then in use); maximum gage height, 29.19 ft Jan. 22, 1959; minimum discharge, 1.5 cfs Sept. 25, 1941.

Flood of Mar. 25, 1913 reached a stage of 18.3 ft, original site and datum (discharge, 66,000 cfs, computed by Miami Conservancy District).

REMARKS.--Records good except those for January and February, which are fair. Flood flow regulated by Germantown retarding basin, 0.3 miles upstream beginning in 1920. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph and 12 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	15	23	408	110	302	138	210	267	69	20	10
2	10	16	21	355	90	2,580	131	222	185	61	20	9.5
3	10	17	19	334	80	1,320	123	190	148	59	28	19
4	9.0	17	18	324	70	730	129	165	129	59	24	28
5	8.5	15	18	437	80	501	121	146	112	62	22	17
6	8.5	16	28	280	72	334	117	131	106	55	22	14
7	8.5	16	110	200	68	285	2,000	125	104	50	22	12
8	8.5	16	122	180	64	282	1,430	314	91	47	21	11
9	10	16	77	240	60	240	985	1,900	88	45	20	10
10	12	16	61	533	58	201	735	796	83	44	18	10
11	13	16	53	408	58	178	529	465	76	42	17	9.0
12	15	16	46	288	70	175	746	334	69	40	17	11
13	14	16	41	246	100	178	3,340	438	286	38	18	10
14	16	16	262	185	160	404	1,110	812	1,180	36	16	10
15	16	14	720	110	380	344	760	2,210	469	35	16	13
16	16	15	590	120	300	429	2,280	1,170	561	42	16	13
17	19	16	288	150	180	670	1,720	670	320	41	14	12
18	21	15	185	170	150	517	780	457	219	41	13	12
19	20	16	142	165	130	348	541	341	156	39	13	12
20	18	17	142	119	110	270	557	273	142	37	13	12
21	16	16	140	114	120	243	680	234	125	34	12	11
22	17	16	123	110	110	376	1,830	198	112	30	13	10
23	16	15	108	163	108	372	930	170	99	26	20	10
24	19	15	101	234	112	285	594	153	96	26	16	13
25	22	15	92	198	106	246	437	138	89	26	15	21
26	22	15	88	136	108	219	341	123	82	24	13	25
27	20	16	86	110	99	204	279	112	74	24	13	31
28	20	17	82	100	101	188	240	103	69	24	13	29
29	20	20	76	100	101	172	222	101	68	23	12	30
30	18	24	1,430	100	------	165	219	174	74	21	12	33
31	16	------	825	100	------	144	------	376	------	20	10	------
TOTAL	471.0	486	6,117	6,717	3,355	12,902	24,044	13,251	5,679	1,220	519	467.5
MEAN	15.2	16.2	197	217	116	416	801	427	189	39.4	16.7	15.6
MAX	22	24	1,430	533	380	2,580	3,340	2,210	1,180	69	28	33
MIN	8.5	14	18	100	58	144	117	101	68	20	10	9.0
CFSM	.06	.06	.72	.79	.42	1.51	2.91	1.55	.69	.14	.06	.06
IN.	.06	.07	.83	.91	.45	1.75	3.25	1.79	.77	.17	.07	.06

CAL YR 1971 TOTAL 63,147.5 MEAN 173 MAX 3,870 MIN 7.0 CFSM .63 IN 8.54
WTR YR 1972 TOTAL 75,228.5 MEAN 206 MAX 3,340 MIN 8.5 CFSM .75 IN 10.18

03272800 Sevenmile Creek at Collinsville, Ohio

LOCATION.--Lat 39°31'23", long 84°36'39", in SE 1/4 sec. 14, T.5N., R.2E., Butler County, on left bank at downstream, side of bridge, 0.3 mile north of Collinsville, 1.0 mile downstream from Ninemile Creek, and 5.5 miles upstream from mouth.

DRAINAGE AREA.--120 sq mi.

PERIOD OF RECORD.--July 1960 to September 1972 (discontinued as a continuous-record station; converted to a crest-stage partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 691.96 ft above mean sea level.

AVERAGE DISCHARGE.--12 years, 103 cfs (11.66 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,970 cfs Dec. 30 (gage height, 5.34 ft); minimum, 4.9 cfs Oct. 5, 6.
Period of record: Maximum discharge, 16,800 cfs May 24, 1968, (gage height 11.12 ft); minimum, 0.8 cfs Sept. 5, 1960.
Flood of March 1913 reached a stage of 14.6 ft, from information by local resident. Flood of Jan. 21, 1959 reached a stage of 11.08 ft, from floodmarks (discharge, 16,600 cfs, result of contracted-opening measurement of peak flow).

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

COOPERATION.--Gage-height graph and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	11	12	205	40	303	66	135	93	26	6.6	6.6
2	5.8	11	11	188	39	992	64	130	70	24	6.6	7.0
3	5.2	11	10	158	42	437	59	128	58	22	7.0	13
4	5.2	10	10	180	42	305	70	125	52	21	7.5	16
5	4.9	10	10	205	40	229	59	108	47	21	8.5	9.5
6	5.2	10	21	149	38	167	58	64	46	19	7.5	8.5
7	5.2	10	61	122	45	170	1,000	59	47	17	7.5	7.5
8	5.2	9.5	56	103	38	184	514	132	39	16	7.0	7.5
9	6.2	9.5	34	152	36	161	378	868	37	16	6.6	7.0
10	7.4	9.5	28	209	34	146	295	315	36	15	6.3	7.0
11	7.4	9.5	27	170	32	135	233	217	34	14	6.3	6.6
12	6.8	9.5	24	135	30	115	221	161	31	13	6.3	7.0
13	6.5	9.1	23	110	30	103	1,050	218	108	12	6.3	6.6
14	8.2	8.6	198	80	35	152	373	320	236	11	6.3	7.0
15	7.1	8.6	310	70	200	132	373	536	107	12	5.9	7.0
16	11	8.6	237	64	160	210	1,210	300	217	14	5.9	7.0
17	10	18	149	60	120	258	556	225	110	13	5.5	7.0
18	8.6	28	112	56	94	202	310	198	72	12	5.5	6.6
19	7.8	32	94	54	74	158	241	170	59	11	5.2	6.3
20	7.4	19	100	56	60	132	263	143	50	11	5.5	6.3
21	7.4	12	94	59	58	122	393	120	47	9.5	5.5	6.3
22	8.2	10	78	58	58	228	702	107	42	9.0	5.2	5.9
23	8.2	9.5	72	68	53	174	351	91	37	9.0	6.3	5.9
24	10	9.5	68	91	59	135	254	65	36	8.5	5.9	7.5
25	12	9.1	62	77	54	115	225	59	33	9.0	5.9	14
26	57	9.1	60	56	66	105	217	56	32	8.5	5.5	12
27	57	10	58	53	56	99	194	49	28	9.0	6.6	12
28	57	10	57	49	58	91	170	47	26	8.0	7.5	12
29	56	11	50	46	68	84	155	45	34	8.0	7.0	12
30	26	13	866	44	------	81	143	94	34	8.0	7.0	13
31	13	------	340	42	------	70	------	143	------	7.0	7.0	------
TOTAL	448.7	355.6	3,332	3,169	1,759	5,995	10,197	5,428	1,898	413.5	199.2	257.6
MEAN	14.5	11.9	107	102	60.7	193	340	175	63.3	13.3	6.43	8.59
MAX	57	32	866	209	200	992	1,210	868	236	26	8.5	16
MIN	4.9	8.6	10	42	30	70	58	45	26	7.0	5.2	5.9
CFSM	.12	.10	.89	.85	.51	1.61	2.83	1.46	.53	.11	.05	.07
IN.	.14	.11	1.03	.98	.55	1.86	3.16	1.68	.59	.13	.06	.08

CAL YR 1971 TOTAL 29,130.9 MEAN 79.8 MAX 2,140 MIN 4.9 CFSM .67 IN 9.03
WTR YR 1972 TOTAL 33,452.6 MEAN 91.4 MAX 1,210 MIN 4.9 CFSM .76 IN 10.37

PEAK DISCHARGE (BASE, 2,500 CFS).--Dec. 30 (1100) 2,970 cfs (5.34 ft).

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 downstream from Columbia Bridge at Hamilton, 3 miles downstream from Four Mile Creek, and 4.3 miles upstream from Pleasant Run.

DRAINAGE AREA.--3,630 sq mi.

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 mile 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 above mean sea level, adjustment of 1912. Prior to Apr. 12, 1927, nonrecording gages at site 0.7 mile upstream at datum 64.65 ft higher.

AVERAGE DISCHARGE.--41 years (1931-72), 3,128 cfs (11.70 inches per year).

EXTREMES.--Current year: Maximum discharge, 26,000 cfs Apr. 16 (gage height, 66.75 ft); minimum, 396 cfs Oct. 4. Period of record: Maximum discharge, 352,000 cfs Mar. 26, 1913 (gage height, 38.5 ft, site and datum then in use, computed by Miami Conservancy District); minimum, 100 cfs Sept. 26, 27, 1941; minimum gage height, 55.73 ft 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 miles upstream from gage for municipal supply of Hamilton. Diversion averaged 1.5 cfs in 1972 and is returned as sewage 1.4 miles downstream from the station. The Miami and Erie Canal diverted water from the basin 1.7 miles 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 graph 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	705	566	1,140	11,300	1,530	2,140	2,520	3,660	3,540	2,040	726	519
2	654	578	1,060	7,880	1,500	10,200	2,300	3,530	3,290	1,650	717	538
3	572	668	967	6,070	1,610	15,600	2,150	3,180	2,640	1,470	749	566
4	505	595	883	5,550	1,660	12,700	2,270	2,820	2,250	1,800	970	818
5	521	572	829	6,110	1,300	8,540	2,170	2,580	1,990	3,410	821	617
6	500	572	1,480	5,370	1,330	5,550	2,140	2,390	1,930	2,910	724	573
7	489	602	3,170	4,190	1,350	4,150	11,900	2,200	1,890	2,190	770	531
8	484	572	3,390	3,400	1,230	3,890	21,900	4,470	1,730	1,700	755	541
9	500	583	3,010	3,600	1,190	3,410	18,400	11,200	1,660	1,450	696	535
10	602	615	2,490	4,640	1,140	3,040	13,200	13,900	1,640	1,310	734	503
11	566	615	2,010	6,630	1,130	2,630	9,350	9,760	1,600	1,450	684	468
12	560	640	1,630	5,370	1,160	2,450	7,170	6,780	1,500	1,650	645	501
13	566	647	1,530	4,250	1,410	2,330	17,400	6,460	2,620	1,340	638	1,370
14	634	628	3,310	3,570	1,980	2,990	13,400	8,730	6,620	1,150	604	1,140
15	628	589	7,920	2,760	3,290	5,540	11,800	12,300	5,660	1,070	622	1,380
16	1,380	628	12,400	1,740	4,240	6,200	19,100	16,400	4,780	1,490	615	1,280
17	1,280	628	9,670	1,590	4,030	7,080	17,400	13,000	4,420	1,580	596	1,130
18	967	660	6,070	2,210	3,350	5,960	13,600	8,840	3,190	1,810	592	831
19	812	712	4,010	2,400	2,890	4,490	9,620	6,590	2,440	1,510	586	891
20	735	829	3,450	2,140	2,210	3,460	8,260	5,140	2,120	1,330	599	838
21	675	752	2,900	2,000	1,920	3,040	14,000	4,140	2,800	1,230	571	697
22	660	690	2,580	1,910	1,960	5,600	19,500	3,550	1,870	1,160	602	721
23	660	712	2,340	2,120	1,830	5,390	19,800	3,120	2,190	1,020	831	646
24	683	712	2,150	3,110	1,740	4,620	16,600	2,770	2,150	998	788	757
25	812	728	1,970	2,960	1,730	3,750	11,500	2,530	1,860	1,140	863	4,330
26	744	675	1,860	2,450	1,810	3,150	8,030	2,340	1,670	1,060	858	3,210
27	744	712	1,840	2,010	1,680	2,800	6,310	2,140	1,570	960	1,090	3,620
28	720	752	1,880	1,780	1,630	2,660	5,080	1,970	1,430	797	880	5,760
29	690	803	1,820	1,690	1,670	3,220	4,230	1,850	1,620	756	729	4,450
30	647	1,220	8,770	1,560	------	3,280	3,970	2,770	2,050	735	631	3,720
31	583	------	13,300	1,450	------	2,820	------	3,640	------	709	542	------
TOTAL	21,278	20,255	111,829	113,810	55,500	152,680	315,070	174,750	76,720	44,875	22,228	43,481
MEAN	686	675	3,607	3,671	1,914	4,925	10,500	5,637	2,557	1,448	717	1,449
MAX	1,380	1,220	13,300	11,300	4,240	15,600	21,900	16,400	6,620	3,410	1,090	5,760
MIN	484	566	829	1,450	1,130	2,140	2,140	1,850	1,430	709	542	468
CFSM	.19	.19	.99	1.01	.53	1.36	2.89	1.55	.70	.40	.20	.40
IN.	.22	.21	1.15	1.17	.57	1.56	3.23	1.79	.79	.46	.23	.45

CAL YR 1971 TOTAL 872,574 MEAN 2,391 MAX 29,800 MIN 405 CFSM .66 IN 8.94
WTR YR 1972 TOTAL 1,152,476 MEAN 3,149 MAX 21,900 MIN 468 CFSM .87 IN 11.81

PEAK DISCHARGE (BASE, 24,000 CFS).--Apr. 16 (1400) 26,000 cfs (66.75 ft).

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 mile downstream from East Fork Whitewater River, and 1.1 miles south of Brookville.

DRAINAGE AREA.--1,224 sq mi.

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 above mean sea level. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--51 years (1915-17, 1923-72), 1,247 cfs (13.84 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,600 cfs Apr. 16 (gage height, 12.92 ft); minimum daily, 140 cfs Sept. 22.
Period of record: Maximum discharge, 81,800 cfs Jan. 21, 1959 (gage height, 27.78 ft), from rating curve extended above 45,000 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 60 cfs July 27, 1934.
Flood of Mar. 25, 1913, reached a stage of 39.0 ft, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	256	320	2,150	470	2,450	686	1,850	1,790	649	205	145
2	205	250	286	1,790	460	7,390	668	1,560	1,290	509	200	155
3	195	250	268	1,590	450	5,310	660	1,340	1,040	465	205	170
4	188	235	265	1,560	440	2,930	769	1,210	895	448	229	241
5	178	232	256	1,870	430	2,170	720	1,100	798	423	223	182
6	178	232	510	1,460	420	1,620	673	1,010	765	393	218	162
7	172	235	1,190	1,340	400	1,480	7,150	958	789	373	215	155
8	172	229	1,050	1,170	390	1,450	6,880	1,240	688	362	212	158
9	180	223	793	1,450	370	1,230	3,970	3,290	648	348	205	152
10	210	220	683	1,800	370	1,110	2,920	1,910	644	349	198	150
11	198	218	737	1,720	380	1,030	2,340	1,440	602	339	195	148
12	188	215	611	1,420	400	991	2,110	1,230	556	330	195	142
13	195	210	550	1,260	460	995	7,850	1,590	573	323	198	145
14	262	208	2,840	900	702	1,280	4,320	2,410	1,260	317	192	158
15	271	202	4,540	700	1,950	1,190	3,660	3,360	1,060	313	185	160
16	265	202	3,450	580	1,660	1,520	13,100	3,590	1,870	347	185	155
17	301	202	2,010	670	1,190	1,810	7,480	2,260	1,340	352	182	152
18	259	200	1,430	770	1,140	1,510	3,930	1,790	958	330	178	148
19	241	215	1,160	888	800	1,270	2,860	1,490	793	312	180	148
20	238	256	1,140	841	700	1,120	3,350	1,280	702	299	213	150
21	232	235	1,070	838	750	1,040	4,310	1,140	653	293	192	145
22	320	223	926	822	798	1,180	7,990	1,040	623	289	180	140
23	462	215	835	949	694	1,120	5,580	934	565	286	178	142
24	457	218	786	995	734	982	3,540	853	530	286	172	215
25	611	218	730	913	693	910	2,620	795	510	285	170	328
26	439	215	695	660	898	860	2,140	736	495	281	165	342
27	373	235	677	580	818	830	1,850	690	470	353	162	398
28	328	289	665	520	811	813	1,640	647	448	279	158	442
29	295	289	623	490	857	784	1,500	632	470	232	155	382
30	280	345	5,210	470	------	779	1,520	1,180	606	218	152	460
31	271	------	4,060	460	------	715	------	2,630	------	212	150	------
TOTAL	8,382	6,972	40,366	33,626	20,635	49,869	108,786	47,185	24,431	10,595	5,847	6,170
MEAN	270	232	1,302	1,085	712	1,609	3,626	1,522	814	342	189	206
MAX	611	345	5,210	2,150	1,950	7,390	13,100	3,590	1,870	649	229	460
MIN	172	200	256	460	370	715	660	632	448	212	150	140
CFSM	.22	.19	1.06	.89	.58	1.31	2.96	1.24	.67	.28	.15	.17
IN.	.25	.21	1.23	1.02	.63	1.52	3.31	1.43	.74	.32	.18	.19

CAL YR 1971 TOTAL 375,349 MEAN 1,028 MAX 20,900 MIN 148 CFSM .84 IN 11.41
WTR YR 1972 TOTAL 362,864 MEAN 991 MAX 13,100 MIN 140 CFSM .81 IN 11.03

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	2200	10.74	14,100	4-16	1500	12.92	17,600
4-13	1600	10.21	13,400				

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 downstream from county bridge on Indiana-Ohio State line road, 2 miles east of New Corydon, 2.8 miles downstream from Beaver Creek, and at mile 465.6.

DRAINAGE AREA.--262 sq mi.

PERIOD OF RECORD.--April 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 830.10 ft above mean sea level. Prior to June 24, 1953, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--21 years, 181 cfs (9.38 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,010 cfs Apr. 20 (gage height, 18.45 ft); minimum daily, 6.0 cfs Nov. 16.
Period of record: Maximum discharge, 8,720 cfs Jan. 22, 1959 (gage height, 20.47 ft, from floodmarks); minimum daily, 0.8 cfs Dec. 22, 23, 1963.

REMARKS.--Records poor. Occasional regulation by Grand Lake, diversion from or into St. Mary River basin, and into Miami and Erie Canal. Water-quality records for the current year are published in WRD Indiana, 1972, Part 2.

REVISIONS (WATER YEARS).--WSP 1555: 1957(P). WSP 1909: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	23	573	251	138	96	366	248	35	19	12
2	15	11	63	345	251	1,400	82	356	200	122	17	12
3	12	10	110	283	241	941	72	330	150	409	16	16
4	10	9.9	113	260	226	336	78	280	140	430	32	19
5	9.7	8.8	110	240	180	163	84	260	130	233	15	14
6	9.3	8.0	138	220	130	106	78	250	120	187	14	13
7	9.3	8.0	416	200	100	98	1,660	250	120	162	13	13
8	8.8	8.0	618	248	90	88	1,580	324	110	120	12	14
9	9.7	7.3	360	378	80	74	623	420	100	80	11	14
10	13	7.5	267	773	70	63	355	492	85	65	11	12
11	12	8.0	470	510	70	62	242	404	70	50	9.7	12
12	9.5	7.5	344	366	70	62	185	350	60	45	10	272
13	8.2	7.1	238	323	70	358	2,140	300	143	45	11	260
14	10	6.9	428	283	179	375	1,270	418	173	127	9.3	742
15	14	6.4	2,050	220	225	190	466	953	157	141	17	550
16	12	6.0	1,380	170	216	146	582	828	162	262	13	157
17	9.9	6.2	590	140	185	126	1,030	583	130	175	9.7	109
18	8.6	7.5	376	130	177	105	438	478	110	144	8.8	104
19	7.5	9.7	266	130	140	89	293	422	85	287	10	123
20	7.7	11	242	170	110	79	2,800	330	65	272	28	103
21	8.8	11	248	220	80	72	2,610	280	147	181	18	90
22	18	9.7	242	324	60	70	2,770	250	157	149	16	82
23	86	8.8	219	398	50	71	2,090	230	145	110	16	629
24	79	8.8	164	270	45	65	1,160	210	110	80	15	1,760
25	69	9.7	180	180	40	59	649	200	90	60	14	570
26	50	10	193	150	37	54	519	190	65	45	14	1,870
27	37	11	207	144	37	59	450	180	45	35	14	3,020
28	29	14	214	185	37	158	397	180	40	30	12	974
29	21	14	216	249	46	156	366	170	50	26	12	714
30	16	18	1,580	258	------	177	350	258	70	23	13	1,510
31	14	------	1,830	250	------	120	------	295	------	21	13	------
TOTAL	644.0	280.8	13,895	8,590	3,493	6,060	25,515	10,837	3,477	4,151	443.5	13,790
MEAN	20.8	9.36	448	277	120	195	851	350	116	134	14.3	460
MAX	86	18	2,050	773	251	1,400	2,800	953	248	430	32	3,020
MIN	7.5	6.0	23	130	37	54	72	170	40	21	8.8	12
CFSM	.08	.04	1.71	1.06	.46	.74	3.25	1.34	.44	.51	.05	1.76
IN.	.09	.04	1.97	1.22	.50	.86	3.62	1.54	.49	.59	.06	1.96

CAL YR 1971 TOTAL 56,100.7 MEAN 154 MAX 2,390 MIN 5.0 CFSM .59 IN 7.97
WTR YR 1972 TOTAL 91,176.3 MEAN 249 MAX 3,020 MIN 6.0 CFSM .95 IN 12.95

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	2100	16.88	2,760	4-20	2100	18.45	4,010
4- 7	2100	17.67	2,680	9-26	2400	16.50	3,840
4-13	1000	17.42	2,600				

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 miles northeast of Newville and 6.5 miles northwest of Hicksville, Ohio.

DRAINAGE AREA.--610 sq mi.

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 is 795.40 ft above mean sea level. Prior to Oct. 22, 1947, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 489 cfs (10.89 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,340 cfs Mar. 18 (gage height, 11.37 ft); maximum gage height, 12.11 ft Sept. 14; minimum daily discharge, 37 cfs Oct. 5, 6.
Period of record: Maximum discharge, 9,710 cfs Apr. 6, 1950 (gage height, 17.05 ft); minimum daily, 14 cfs Sept. 10, 16, 1964.

REMARKS.--Records good. Water-quality records for the current year at site 0.5 mile downstream (04178100 St. Joseph River at Indiana-Ohio State line) are published in WRD Indiana, 1972, Part 2.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	59	71	1,120	200	250	683	512	193	101	74	62
2	48	55	66	1,040	180	550	617	665	188	125	69	58
3	44	53	61	888	165	900	560	938	178	120	69	55
4	40	52	60	660	155	750	564	1,070	171	106	76	55
5	37	52	69	535	145	650	625	1,050	191	96	68	64
6	37	51	83	300	135	550	641	877	174	87	63	62
7	39	49	107	350	130	420	621	674	151	82	71	57
8	42	47	206	357	125	300	570	581	133	82	63	53
9	48	46	223	339	120	290	536	630	120	77	64	49
10	49	48	203	323	115	260	517	741	109	83	78	47
11	52	49	197	340	110	232	500	790	100	79	87	46
12	56	50	216	318	110	218	467	701	91	75	80	54
13	55	50	400	290	115	572	484	582	88	70	73	72
14	52	50	321	252	135	1,490	757	554	91	74	67	1,680
15	48	50	455	150	160	1,710	1,000	911	131	92	63	1,830
16	47	51	885	120	200	2,010	1,390	1,030	157	126	60	1,300
17	59	52	770	170	250	2,270	1,990	980	145	176	61	956
18	59	54	549	207	220	2,330	1,980	833	133	199	64	777
19	88	56	378	198	205	2,220	1,800	663	114	191	246	684
20	89	57	284	211	200	2,060	1,780	535	103	222	183	606
21	78	52	242	270	195	1,830	1,770	437	95	178	122	596
22	70	50	230	342	185	1,850	1,880	359	95	149	113	506
23	63	49	209	652	170	1,880	1,870	303	115	126	156	366
24	59	49	179	731	150	1,740	1,750	267	117	123	172	275
25	55	49	179	760	140	1,550	1,530	242	106	113	120	227
26	60	50	179	663	130	1,350	1,270	216	97	109	106	338
27	88	52	186	521	120	1,030	951	191	93	110	103	556
28	100	60	213	400	125	791	725	168	88	95	91	585
29	125	70	212	350	130	663	588	153	87	97	84	558
30	100	80	412	290	------	723	509	154	86	94	76	645
31	70	------	1,070	240	------	741	------	165	------	83	68	------
TOTAL	1,916	1,592	8,915	13,387	4,520	34,180	30,925	17,972	3,740	3,540	2,890	13,219
MEAN	61.8	53.1	288	432	156	1,103	1,031	580	125	114	93.2	441
MAX	125	80	1,070	1,120	250	2,330	1,990	1,070	193	222	246	1,830
MIN	37	46	60	120	110	218	467	153	86	70	60	46
CFSM	.10	.09	.47	.71	.26	1.81	1.69	.95	.20	.19	.15	.72
IN.	.12	.10	.54	.82	.28	2.08	1.89	1.10	.23	.22	.18	.81

CAL YR 1971 TOTAL 128,645 MEAN 352 MAX 4,130 MIN 20 CFSM .58 IN 7.85
WTR YR 1972 TOTAL 136,796 MEAN 374 MAX 2,330 MIN 37 CFSM .61 IN 8.34

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 downstream from bridge on U.S. Highway 27, 0.5 mile upstream from Holthouse ditch, and 1.3 miles north of Decatur.

DRAINAGE AREA.--621 sq mi.

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 mile upstream January 1932 to November 1954, and at present site thereafter are contained in reports of U.S. Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft above mean sea level. Prior to July 27, 1948, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 478 cfs (10.45 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,470 cfs Apr. 23 (gage height, 22.42 ft); minimum daily, 18 cfs Sept. 1.
Period of record: Maximum discharge, 11,300 cfs Feb. 10, 11, 1959; maximum gage height, 24.22 ft Feb. 10, 1959 (ice jam); minimum daily discharge, 5.4 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	403	84	86	1,400	170	238	596	412	641	128	37	18
2	284	82	73	1,140	150	2,140	562	336	434	67	39	26
3	170	78	89	1,460	130	2,250	502	273	366	179	57	31
4	134	67	120	1,510	120	1,560	548	230	302	731	41	36
5	136	59	119	1,280	110	1,540	464	199	217	596	35	29
6	86	54	229	933	95	1,580	372	170	165	629	40	25
7	63	50	1,430	797	90	1,550	2,250	151	135	618	47	24
8	51	46	2,370	651	82	1,120	3,220	142	105	466	47	26
9	50	45	2,030	744	80	656	3,220	308	264	291	43	24
10	52	45	1,650	1,400	77	440	3,330	513	363	166	37	23
11	51	43	1,690	1,080	74	323	3,280	384	116	108	32	27
12	46	42	1,460	847	73	257	2,710	450	80	80	30	37
13	43	41	1,170	863	80	913	3,690	547	87	80	27	61
14	42	39	1,320	700	88	1,640	3,820	595	79	411	27	197
15	40	38	2,790	500	100	1,270	3,600	815	76	990	31	253
16	38	37	3,010	420	150	1,350	3,710	798	69	2,260	74	158
17	36	37	2,400	500	140	1,360	4,040	610	59	1,900	66	99
18	37	35	1,800	643	180	1,100	3,340	691	66	1,180	51	440
19	48	38	1,630	600	220	825	2,340	869	78	1,980	45	397
20	56	38	1,460	598	246	616	3,690	811	82	2,050	48	206
21	52	39	1,120	556	189	485	5,170	601	128	1,110	55	118
22	253	38	794	602	150	414	6,720	434	114	521	47	78
23	975	36	562	876	118	334	7,280	283	79	310	47	99
24	640	34	459	722	96	262	5,820	196	79	203	49	274
25	435	32	384	540	93	243	4,460	156	151	145	45	276
26	313	33	345	470	78	231	3,280	127	150	104	39	1,240
27	241	38	329	400	70	235	2,050	107	115	81	32	2,240
28	187	41	352	340	75	406	1,110	92	87	66	28	1,940
29	143	49	296	270	87	507	737	84	73	55	24	1,310
30	114	70	977	230	------	995	538	497	112	46	21	1,570
31	100	------	2,110	200	------	702	------	1,300	------	40	19	------
TOTAL	5,319	1,408	34,654	23,272	3,411	27,542	86,449	13,181	4,872	17,591	1,260	11,282
MEAN	172	46.9	1,118	751	118	888	2,882	425	162	567	40.6	376
MAX	975	84	3,010	1,510	246	2,250	7,280	1,300	641	2,260	74	2,240
MIN	36	32	73	200	70	231	372	84	59	40	19	18
CFSM	.28	.08	1.80	1.21	.19	1.43	4.64	.68	.26	.91	.07	.61
IN.	.32	.08	2.08	1.39	.20	1.65	5.18	.79	.29	1.05	.08	.68

CAL YR 1971 TOTAL 146,580 MEAN 402 MAX 3,540 MIN 19 CFSM .65 IN 8.78
WTR YR 1972 TOTAL 230,241 MEAN 629 MAX 7,280 MIN 18 CFSM 1.01 IN 13.79

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0100	16.43	3,100	4-17	0700	18.83	4,120
4-11	0030	17.21	3,380	4-23	0400	22.42	7,470
4-13	2000	18.41	3,900				

04183000 Maumee River at New Haven, Ind.

LOCATION (REVISED).--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 upstream from bridge on Landin Road, 1,400 ft upstream from the Wabash Railroad bridge, 1.1 miles northwest of New Haven, 2.8 miles upstream from Sixmile Creek.

DRAINAGE AREA.--1,967 sq mi.

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 above mean sea level. Prior to Sept. 7, 1956, non-recording gage and Sept. 7, 1956, to Sept. 14, 1965, water-stage recorder at site 500 ft downstream at same datum.

AVERAGE DISCHARGE.--16 years (1956-72), 1,478 cfs (10.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,500 cfs Apr. 23 (gage height, 17.14 ft); minimum daily, 129 cfs Oct. 17, 18.
Period of record: Maximum discharge, 19,100 cfs Feb. 16, 1950 (gage height, 21.4 ft at site then in use); minimum daily, 48 cfs Oct. 6, 13, 1963.

REMARKS.--Records good. Flow regulated by hydro-powerplant on the St. Joseph River 10.3 miles upstream from station. Flow slightly regulated by upstream reservoirs.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	528	224	204	4,240	690	558	2,130	2,430	1,640	296	235	161
2	448	247	222	3,100	646	2,400	1,860	1,830	977	250	169	147
3	621	205	215	2,840	555	4,220	1,730	1,570	852	316	261	188
4	656	190	213	2,950	486	3,540	2,100	1,720	821	417	269	146
5	223	180	238	2,610	440	2,690	2,030	1,730	656	808	222	146
6	232	175	405	1,870	380	2,110	1,750	1,630	582	715	190	154
7	184	184	1,300	1,240	340	2,560	4,470	1,430	482	745	908	164
8	179	374	3,360	1,230	310	2,190	5,640	1,200	488	720	866	209
9	262	144	3,430	1,420	280	1,480	5,500	1,270	451	555	403	180
10	168	147	3,600	2,140	260	855	5,520	1,630	901	402	331	140
11	155	157	3,680	2,300	240	877	5,280	1,650	469	349	247	143
12	156	148	3,110	1,820	255	741	5,000	1,550	328	258	265	422
13	151	147	2,460	1,580	275	2,840	7,610	1,520	427	307	238	908
14	145	157	2,220	1,400	300	5,360	7,310	2,210	452	979	209	6,270
15	139	150	5,610	1,000	472	5,290	6,310	3,540	2,010	1,810	247	7,780
16	134	150	6,230	800	514	5,280	7,050	3,300	1,000	3,810	160	6,680
17	129	156	5,280	1,050	613	5,620	9,580	2,630	547	3,760	184	4,430
18	129	154	3,910	1,150	607	5,140	9,450	2,230	444	2,830	210	3,360
19	132	166	2,920	981	585	4,310	7,820	2,080	409	3,670	505	3,530
20	136	170	2,480	874	664	3,900	7,810	1,910	352	3,640	680	2,500
21	154	165	2,060	941	558	3,490	8,500	1,660	327	2,810	409	1,910
22	546	158	1,540	1,140	576	3,780	10,200	1,250	359	1,460	260	1,600
23	703	150	1,170	2,000	381	3,560	11,300	1,070	329	834	825	1,330
24	1,200	172	947	2,360	437	3,020	11,300	752	350	651	527	1,120
25	763	161	835	2,120	357	2,640	10,400	688	313	574	406	1,100
26	553	157	743	1,730	353	2,250	8,370	600	366	516	348	2,410
27	415	201	769	1,230	329	2,230	5,800	468	365	594	265	4,110
28	333	178	742	1,020	310	1,860	3,490	474	281	211	252	4,020
29	359	214	753	950	377	2,230	2,330	543	344	285	229	3,710
30	317	228	2,060	860	------	3,070	1,850	1,020	206	274	174	3,830
31	247	------	4,320	780	------	2,690	------	1,630	------	252	180	------
TOTAL	10,497	5,409	67,026	51,726	12,590	92,781	179,490	49,215	17,528	35,098	10,674	62,798
MEAN	339	180	2,162	1,669	434	2,993	5,983	1,588	584	1,132	344	2,093
MAX	1,200	374	6,230	4,240	690	5,620	11,300	3,540	2,010	3,810	908	7,780
MIN	129	144	204	780	240	558	1,730	468	206	211	160	140
CFSM	.17	.09	1.10	.85	.22	1.52	3.04	.81	.30	.58	.17	1.06
IN.	.20	.10	1.27	.98	.24	1.75	3.39	.93	.33	.66	.20	1.19

CAL YR 1971 TOTAL 425,867 MEAN 1,167 MAX 10,200 MIN 105 CFSM .59 IN 8.05
WTR YR 1972 TOTAL 594,832 MEAN 1,625 MAX 11,300 MIN 129 CFSM .83 IN 11.25

PEAK DISCHARGE (BASE, 9,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-17	1945	15.71	9,780	4-23	1930	17.14	11,500

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 downstream from bridge on State Highway 49, 1 mile north of Antwerp, 7 miles downstream from Indiana State line, and 10 miles upstream from Marie DeLarme Creek.

DRAINAGE AREA.--2,129 sq mi.

PERIOD OF RECORD.--September 1921 to December 1935, April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 694.90 ft above mean sea level. Prior to Sept. 13, 1925, nonrecording gage at site 400 ft upstream at same datum.

AVERAGE DISCHARGE.--47 years, 1,642 cfs (10.48 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,100 cfs Apr. 24 (gage height, 14.52 ft); minimum, 133 cfs Oct. 19.
Period of record: Maximum discharge, 26,200 cfs May 20, 1943 (gage height, 20.29 ft); minimum, 24 cfs Oct. 17, 1930, June 21, 22, 1933 (gage height, 0.32 ft).
Flood of Mar. 27, 1913, estimated as 40,000 cfs.

REMARKS.--Records good except those for January and February, which are fair. Low flow slightly regulated by powerplant at Fort Wayne, Indiana, 32 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	606	270	245	4,570	750	460	2,330	2,300	1,830	245	278	199
2	525	248	203	3,540	660	990	1,900	2,230	1,330	301	259	179
3	455	264	219	2,760	600	3,510	1,730	1,740	960	281	193	163
4	674	229	216	2,750	550	3,870	1,860	1,620	915	325	276	198
5	586	213	211	2,630	500	2,830	2,130	1,650	785	504	284	167
6	256	200	242	2,210	440	2,210	1,870	1,630	658	770	248	158
7	253	193	472	1,640	400	2,080	3,260	1,510	610	710	298	162
8	208	208	2,220	1,330	360	2,260	6,010	1,370	486	750	1,080	177
9	219	374	3,230	1,260	320	1,780	5,820	1,210	483	706	758	218
10	284	173	3,230	1,710	290	1,210	5,790	1,380	865	535	420	191
11	198	161	3,780	2,280	260	875	5,540	1,600	955	409	338	167
12	173	168	3,190	1,970	250	845	5,230	1,510	497	357	273	172
13	173	164	2,590	1,640	250	1,510	6,640	1,450	392	292	281	482
14	168	161	2,030	1,480	300	4,920	8,230	1,520	500	642	264	5,940
15	164	168	4,290	1,010	400	6,010	6,910	2,990	1,110	950	248	10,100
16	154	164	6,730	835	520	5,630	6,750	3,230	2,420	2,830	278	8,470
17	147	159	5,960	1,100	600	5,920	9,780	2,750	1,020	3,940	190	6,070
18	140	166	4,510	1,160	660	5,620	10,400	2,260	622	3,270	198	3,810
19	135	166	3,130	1,210	590	4,820	9,250	1,960	504	2,990	267	4,040
20	138	168	2,490	1,220	540	3,970	8,290	1,870	448	3,800	890	3,150
21	140	173	2,130	1,200	640	3,510	8,880	1,710	406	3,300	690	2,210
22	216	171	1,710	1,240	600	3,640	10,200	1,410	360	2,120	437	1,770
23	567	164	1,320	1,950	560	3,690	11,600	1,200	385	1,220	378	1,510
24	885	154	1,080	2,350	500	3,150	12,100	960	374	815	936	1,290
25	1,080	168	920	2,270	420	2,600	11,800	746	371	654	550	1,150
26	718	168	810	2,000	380	2,300	10,200	670	341	606	432	1,720
27	539	166	762	1,700	360	2,120	7,640	567	392	518	364	4,240
28	420	195	770	1,400	350	1,920	4,490	483	378	602	289	4,400
29	350	195	746	1,100	380	1,780	2,750	490	304	253	270	4,260
30	371	211	1,170	980	------	3,020	2,050	718	347	304	248	4,230
31	331	------	3,740	860	------	2,870	------	1,210	------	301	197	------
TOTAL	11,273	5,782	64,346	55,355	13,430	91,920	191,430	47,944	21,048	35,300	12,112	70,993
MEAN	364	193	2,076	1,786	463	2,965	6,381	1,547	702	1,139	391	2,366
MAX	1,080	374	6,730	4,570	750	6,010	12,100	3,230	2,420	3,940	1,080	10,100
MIN	135	154	203	835	250	460	1,730	483	304	245	190	158
CFSM	.17	.09	.98	.84	.22	1.39	3.00	.73	.33	.54	.18	1.11
IN.	.20	.10	1.12	.97	.23	1.61	3.34	.84	.37	.62	.21	1.24

CAL YR 1971 TOTAL 471,729 MEAN 1,292 MAX 12,000 MIN 113 CFSM .61 IN 8.24
WTR YR 1972 TOTAL 620,933 MEAN 1,697 MAX 12,100 MIN 135 CFSM .80 IN 10.85

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0500	11.89	8,570	4-24	1200	14.52	12,100
4-18	0300	13.35	10,500	9-15	0600	13.32	10,400

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 mile east of Powers, 2.2 miles upstream from Iron Creek, 3 miles downstream from Silver Creek, and 5.2 miles east of Fayette.

DRAINAGE AREA.--206 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 722.57 ft above mean sea level. Prior to Jan. 18, 1941, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 157 cfs (10.35 inches per year).

EXTREMES.--Current year: Maximum discharge, 972 cfs Apr. 17 (gage height 7.01 ft); minimum daily, 12 cfs Oct. 4.
Period of record: Maximum discharge, 4,250 cfs Apr. 29, 1956 (gage height, 13.82 ft); minimum, 5.0 cfs Aug. 9, 1964.

REMARKS.--Records poor prior to March, good thereafter. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	23	25	290	80	70	188	276	76	52	21	20
2	14	25	23	234	72	220	176	653	67	44	20	22
3	13	26	23	187	66	190	164	489	93	40	20	25
4	12	27	23	130	62	170	182	351	89	37	21	25
5	13	25	23	110	58	150	213	278	71	35	20	21
6	14	23	26	96	56	140	195	231	61	33	21	21
7	15	21	43	90	54	120	180	212	53	31	28	20
8	15	20	49	86	52	100	158	248	46	32	32	20
9	16	20	52	84	50	90	148	339	42	32	32	19
10	15	20	60	90	49	78	149	319	38	31	31	19
11	14	21	86	96	48	66	146	259	36	29	29	20
12	14	22	95	94	47	72	138	216	34	27	28	24
13	14	21	80	90	48	70	140	184	36	28	27	21
14	15	20	74	84	50	811	139	175	40	34	26	55
15	14	19	79	76	60	680	195	225	51	45	28	133
16	14	19	102	68	74	752	429	255	52	58	23	115
17	13	19	110	64	90	704	901	238	43	49	24	85
18	13	19	94	60	100	526	750	198	38	42	27	142
19	13	21	74	94	92	384	640	164	36	45	32	276
20	15	23	66	120	84	309	792	140	34	48	33	230
21	20	24	60	150	76	282	678	122	39	39	31	181
22	32	23	56	184	70	582	620	107	49	35	30	135
23	44	22	52	284	66	627	583	93	52	32	26	101
24	48	20	54	302	62	421	449	84	46	29	27	83
25	49	18	52	291	58	314	348	76	44	27	27	72
26	46	18	50	226	54	261	290	68	56	26	25	118
27	40	20	48	190	52	232	247	61	63	29	25	205
28	36	26	48	160	50	213	212	56	50	29	23	135
29	32	34	55	130	48	192	187	53	47	28	22	112
30	28	38	90	110	------	194	166	61	64	25	21	155
31	25	------	361	92	------	193	------	86	------	23	24	------
TOTAL	681	677	2,133	4,362	1,828	9,213	9,803	6,317	1,546	1,094	804	2,610
MEAN	22.0	22.6	68.8	141	63.0	297	327	204	51.5	35.3	25.9	87.0
MAX	49	38	361	302	100	811	901	653	93	58	33	276
MIN	12	18	23	60	47	66	138	53	34	23	20	19
CFSM	.11	.11	.33	.68	.31	1.44	1.59	.99	.25	.17	.13	.42
IN.	.12	.12	.39	.79	.33	1.66	1.77	1.14	.28	.20	.15	.47

CAL YR 1971 TOTAL 46,071.4 MEAN 126 MAX 2,700 MIN 6.0 CFSM .61 IN 8.32
WTR YR 1972 TOTAL 41,068.0 MEAN 112 MAX 901 MIN 12 CFSM .54 IN 7.42

PEAK DISCHARGE (BASE 1,200 CFS).--No peak above base.

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 mile downstream from bridge on State Highway 191 at west edge of Stryker, 0.6 mile upstream from Penn Central bridge, and 1.6 miles downstream from Leatherwood Creek.

DRAINAGE AREA.--410 sq mi.

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 above mean sea level. Prior to Sept. 30, 1928, nonrecording gage at site 3.5 miles 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 mile downstream at same datum.

AVERAGE DISCHARGE.--39 years, 303 cfs (10.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,770 cfs Mar. 17 (gage height, 11.64 ft); minimum daily, 16 cfs Oct. 2, 3, 5.
Period of record: Maximum discharge, 6,640 cfs Apr. 25, 1950; maximum gage height, 16.16 ft May 1, 1956; minimum discharge, 3.6 cfs Aug. 30, 31, 1953.
Flood in March 1913 reached a stage of 16.0 ft, from floodmarks (discharge, 7,600 cfs). Flood in 1937 reached a stage of 15.0 ft, from information by local resident (discharge, 6,000 cfs).

REMARKS.--Records good. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	28	42	594	120	155	358	304	265	129	38	33
2	16	29	33	601	110	305	332	406	209	103	38	32
3	16	30	32	490	100	439	303	582	180	82	37	32
4	17	31	33	369	96	428	310	670	275	70	38	32
5	16	29	35	275	92	348	364	609	257	62	37	33
6	19	28	39	227	86	269	381	452	182	56	36	34
7	19	27	58	194	82	214	356	353	140	52	38	33
8	23	28	84	195	78	211	318	318	113	54	40	33
9	24	28	88	198	74	181	301	334	97	56	45	33
10	24	29	96	217	72	152	301	379	87	52	47	32
11	25	31	132	244	70	147	295	395	76	48	43	32
12	23	30	163	238	72	157	274	349	68	45	41	32
13	23	29	143	222	76	338	288	295	71	43	39	33
14	24	25	112	202	84	800	354	269	73	45	41	181
15	23	24	143	150	96	1,090	426	279	155	54	55	473
16	22	23	205	110	120	1,540	693	328	332	65	56	432
17	21	23	222	94	171	1,760	1,160	361	244	77	40	248
18	20	24	181	86	181	1,730	1,360	341	151	71	38	140
19	20	29	133	92	150	1,500	1,570	290	109	62	41	139
20	21	30	107	130	130	1,190	1,470	240	90	65	46	215
21	22	33	97	194	120	890	1,320	205	89	72	51	259
22	28	31	87	252	110	842	1,510	180	122	60	45	215
23	37	29	74	410	110	887	1,590	160	111	50	43	159
24	45	26	79	469	100	989	1,470	142	102	46	45	115
25	51	28	74	475	94	1,000	1,240	127	87	44	44	92
26	53	29	71	402	90	792	941	113	80	41	42	90
27	47	31	70	318	86	567	646	102	99	43	40	166
28	37	33	76	250	88	425	439	92	106	48	39	310
29	34	38	79	206	98	372	349	86	102	45	38	261
30	31	41	176	171	------	371	302	93	104	42	36	261
31	29	------	435	140	------	376	------	196	------	40	35	------
TOTAL	829	874	3,399	8,215	2,556	20,465	21,021	9,050	4,176	1,822	1,292	4,180
MEAN	26.7	29.1	110	265	102	660	701	292	139	58.8	41.7	139
MAX	53	41	435	601	181	1,760	1,590	670	332	129	56	473
MIN	16	23	32	86	70	147	274	86	68	40	35	32
CFSM	.07	.07	.27	.65	.25	1.61	1.71	.71	.34	.14	.10	.34
IN.	.08	.08	.31	.75	.27	1.86	1.91	.82	.38	.17	.12	.38

CAL YR 1971 TOTAL 78,736.7 MEAN 216 MAX 2,910 MIN 7.0 CFSM .53 IN 7.14
WTR YR 1972 TOTAL 78,279.0 MEAN 214 MAX 1,760 MIN 16 CFSM .52 IN 7.10

PEAK DISCHARGE (BASE, 1,850 CFS).--No peak above base.

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 upstream from bridge on U.S. Highway 224, 3.5 miles northeast of Fort Jennings, 6 miles upstream from Ottawa River, and 7.3 miles downstream from Jennings Creek.

DRAINAGE AREA.--332 sq mi.

PERIOD OF RECORD.--August 1921 to December 1935, October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 713.6 ft above mean sea level. Prior to Oct. 6, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--46 years, 278 cfs.

EXTREMES.--Current year: Maximum discharge, 5,910 cfs Apr. 22 (gage height, 15.00 ft); minimum, 19 cfs Nov. 5, 6, 8.
Period of record: Maximum discharge, about 12,000 cfs Jan. 23, 1959; maximum gage height, 20.30 ft Jan. 23, 1959, from floodmark (ice jam); minimum discharge, 4.5 cfs Oct. 7, 1956, minimum gage height, 0.75 ft Aug. 28, 1932.

REMARKS.--Records good except those for January and February, which are fair. Beginning Jan. 4, 1971, water was diverted at a point 24.3 miles 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 142 million gallons, equivalent to a mean withdrawal of 0.6 cfs. 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 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	27	70	1,320	130	97	228	193	432	231	25	21
2	51	27	61	578	120	1,330	188	181	306	119	25	22
3	42	27	45	482	110	2,780	163	169	200	113	36	24
4	38	24	46	350	100	2,190	168	150	155	496	62	27
5	35	21	43	300	92	668	198	132	121	373	142	23
6	34	20	48	260	84	380	197	119	102	217	128	22
7	34	21	493	230	80	279	1,100	107	94	146	85	22
8	31	20	1,610	210	74	224	3,370	91	80	104	56	24
9	36	22	1,030	220	70	185	3,540	248	76	82	44	29
10	43	24	491	854	68	167	1,410	1,280	77	65	37	31
11	38	23	463	1,020	66	145	830	1,270	63	58	33	26
12	37	22	493	543	64	136	534	454	57	51	31	30
13	35	24	265	366	62	450	1,770	292	108	48	30	31
14	39	24	244	272	66	1,290	4,270	271	95	121	28	161
15	39	24	1,550	210	84	1,290	3,860	685	110	221	28	169
16	45	25	2,080	190	120	752	1,120	1,290	143	815	27	72
17	49	25	1,200	170	170	518	1,840	740	102	565	26	57
18	41	25	508	160	180	382	2,180	400	80	245	26	97
19	38	25	311	170	140	274	881	277	64	375	26	80
20	35	27	238	200	110	217	2,220	213	58	341	25	56
21	32	25	218	220	94	199	5,350	178	285	175	24	57
22	35	24	235	231	82	196	5,810	158	534	96	25	94
23	45	22	216	325	70	204	5,000	137	344	63	26	60
24	58	24	206	384	62	194	3,110	120	204	54	26	51
25	67	24	194	361	58	166	962	106	154	45	23	45
26	70	24	168	325	54	148	522	94	122	37	24	171
27	56	27	138	260	52	142	377	78	100	33	21	564
28	47	32	144	230	50	162	290	72	82	31	21	470
29	41	37	137	200	52	276	238	68	79	30	22	460
30	34	51	303	170	------	304	209	114	334	27	21	808
31	27	------	1,660	150	------	295	------	370	------	26	21	------
TOTAL	1,303	767	14,908	10,961	2,564	16,040	51,935	10,057	4,761	5,403	1,174	3,804
MEAN	42.0	25.6	481	354	88.4	517	1,731	324	159	174	37.9	127
MAX	70	51	2,080	1,320	180	2,780	5,810	1,290	534	815	142	808
MIN	27	20	43	150	50	97	163	68	57	26	21	21

CAL YR 1971 TOTAL 86,723 MEAN 238 MAX 3,280 MIN 15
WTR YR 1972 TOTAL 123,677 MEAN 338 MAX 5,810 MIN 20

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	2000	11.51	3,030	4-14	1800	13.72	4,760
4-9	0100	13.03	4,180	4-22	1700	15.00	5,910

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 mile downstream from Kessler Run, and 1.5 miles upstream from McBride Ditch.

DRAINAGE AREA.--160 sq mi.

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 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 downstream at same datum.

AVERAGE DISCHARGE.--41 years, 121 cfs (10.27 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,150 cfs Apr. 20 (gage height, 8.92 ft); minimum, 13 cfs Nov. 25 (gage height 2.46 ft).
Period of record: Maximum discharge, 7,740 cfs Jan. 22, 1959 (gage height, 10.88 ft), from rating curve extended above 4,800 cfs; minimum, 1.4 cfs June 28, 29, 1933.
Flood of Mar. 15, 1939, reached a stage of 10.1 ft (discharge, 6,160 cfs) and flood of May 1943 a stage of about 10 ft (discharge about 6,000 cfs).

REMARKS.--Records good except those for the winter period, which are fair. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	22	28	99	32	83	70	85	195	39	33	25
2	28	25	26	64	31	1,240	72	72	106	35	33	25
3	26	24	24	54	30	1,020	70	61	84	208	77	35
4	25	24	22	48	29	527	87	52	60	158	44	26
5	25	24	21	42	28	326	75	44	54	66	32	27
6	25	24	61	38	26	119	58	42	50	39	30	29
7	25	26	147	36	25	110	1,750	37	38	38	38	29
8	25	23	74	36	24	95	1,270	95	31	36	36	29
9	43	23	44	121	23	79	579	962	32	33	38	25
10	30	25	44	430	22	65	423	1,180	41	34	35	23
11	26	23	127	244	23	57	262	443	31	34	33	23
12	27	22	48	103	28	64	175	166	31	33	33	36
13	27	22	37	50	41	226	2,030	124	71	33	31	36
14	49	22	143	40	60	842	1,020	195	43	44	30	133
15	33	22	378	34	82	644	371	884	55	52	40	76
16	31	24	238	32	77	339	709	745	44	52	32	49
17	29	23	74	31	42	293	1,170	370	34	39	31	30
18	28	23	54	30	36	195	475	185	30	40	31	143
19	28	30	37	35	32	151	313	112	30	79	31	897
20	25	21	44	42	30	113	3,160	84	33	43	28	438
21	26	20	39	50	28	82	2,640	72	183	46	29	91
22	48	20	44	57	26	124	2,760	44	60	36	34	34
23	28	21	46	93	25	136	2,150	41	45	40	34	55
24	29	18	44	105	24	116	774	38	41	39	34	52
25	28	17	42	110	23	77	430	34	35	35	34	46
26	28	16	44	56	22	82	250	36	32	36	33	228
27	25	42	48	44	22	124	166	29	35	35	31	509
28	27	27	44	40	21	100	119	29	36	33	29	325
29	26	35	41	38	23	110	99	30	49	34	30	353
30	26	44	326	36	------	136	83	282	44	32	29	693
31	23	------	384	34	------	90	------	442	------	32	27	------
TOTAL	898	732	2,773	2,272	935	7,765	23,610	7,015	1,653	1,533	1,060	4,520
MEAN	29.0	24.4	89.5	73.3	32.2	250	787	226	55.1	49.5	34.2	151
MAX	49	44	384	430	82	1,240	3,160	1,180	195	208	77	897
MIN	23	16	21	30	21	57	58	29	30	32	27	23
CFSM	.18	.15	.56	.46	.20	1.56	4.92	1.41	.34	.31	.21	.94
IN.	.21	.17	.64	.53	.22	1.81	5.49	1.63	.38	.36	.25	1.05

CAL YR 1971 TOTAL 36,955 MEAN 101 MAX 1,880 MIN 16 CFSM .63 IN 8.59
WTR YR 1972 TOTAL 54,766 MEAN 150 MAX 3,160 MIN 16 CFSM .94 IN 12.73

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 7	1615	7.32	2,380	4-20	1645	8.92	4,150
4-13	1300	7.61	2,630	4-22	1330	7.96	2,980

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 miles west of Findlay, 3 miles downstream from Eagle Creek, and 3 miles upstream from Aurand Run.

DRAINAGE AREA.--346 sq mi.

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 above mean sea level. Prior to July 24, 1930, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 235 cfs (9.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,850 cfs Apr. 23 (gage height, 12.04 ft); minimum daily discharge, 9.0 cfs Nov. 21, 25, 26, Dec. 5.
Period of record: Maximum discharge, 15,000 cfs Feb. 11, 1959 (gage height, 16.76 ft); minimum, 0.4 cfs Aug. 26, 27, Sept. 3, 1934.
Flood in March 1913 reached a stage of 18.5 ft (discharge, 22,000 cfs, from rating curve extended above 10,000 cfs).

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	14	195	27	76	80	179	232	169	20	21
2	11	18	12	152	33	1,060	95	172	177	108	25	19
3	10	17	11	97	64	1,500	95	157	143	86	62	28
4	12	17	10	56	52	1,170	115	136	124	197	40	21
5	14	16	9.0	42	48	415	93	117	110	279	22	21
6	14	16	46	36	34	226	106	111	90	124	21	20
7	13	15	76	31	33	190	648	111	80	56	28	19
8	14	15	50	28	28	90	1,350	140	68	108	30	18
9	27	16	34	45	25	70	1,190	1,500	60	124	28	16
10	13	16	48	174	23	54	739	2,640	54	108	22	14
11	12	16	40	285	23	44	451	2,100	50	78	20	15
12	13	15	24	203	25	36	322	784	46	56	19	18
13	13	14	20	70	50	334	1,190	361	110	58	17	128
14	16	13	70	54	68	2,010	1,540	319	177	117	36	2,130
15	12	15	95	44	119	1,760	1,230	1,360	187	195	80	2,510
16	11	15	84	38	164	1,060	735	1,320	285	240	28	1,030
17	10	13	111	32	150	641	1,620	774	174	160	104	409
18	12	13	91	29	100	382	1,340	415	110	122	229	655
19	14	17	56	27	60	216	693	254	100	169	251	1,060
20	15	11	44	25	36	157	2,090	184	90	91	108	448
21	15	9.0	33	32	56	136	3,680	174	80	66	70	221
22	20	10	28	48	54	160	5,230	157	72	46	133	122
23	16	11	23	117	42	174	4,610	133	64	34	205	122
24	15	10	22	182	36	136	2,440	117	58	86	128	115
25	16	9.0	21	150	32	108	826	100	54	62	80	155
26	17	9.0	21	120	28	86	451	88	50	37	56	932
27	18	17	20	119	26	102	325	78	46	36	42	2,640
28	18	13	20	74	24	93	246	72	40	31	40	2,150
29	17	17	20	46	22	70	218	64	80	24	36	1,410
30	16	20	84	34	------	100	190	130	148	20	30	2,340
31	14	------	119	25	------	86	------	208	------	20	24	------
TOTAL	450	429.0	1,356.0	2,610	1,482	12,742	33,938	14,455	3,159	3,107	2,034	18,807
MEAN	14.5	14.3	43.7	84.2	51.1	411	1,131	466	105	100	65.6	627
MAX	27	20	119	285	164	2,010	5,230	2,640	285	279	251	2,640
MIN	10	9.0	9.0	25	22	36	80	64	40	20	17	14
CFSM	.04	.04	.13	.24	.15	1.19	3.27	1.35	.30	.29	.19	1.81
IN.	.05	.05	.15	.28	.16	1.37	3.65	1.55	.34	.33	.22	2.02

CAL YR 1971 TOTAL 55,164.5 MEAN 151 MAX 3,210 MIN 8.7 CFSM .44 IN 5.93
WTR YR 1972 TOTAL 94,569.0 MEAN 258 MAX 5,230 MIN 9.0 CFSM .75 IN 10.17

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-23	0030	12.04	5,850	9-27	1530	8.24	2,920
5-10	0330	8.24	2,920	9-30	2000	7.34	2,470
9-15	0230	8.47	3,040				

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 downstream from dam of Toledo Edison Co., 0.2 mile upstream from Jackson ditch, and 3 miles south of Defiance.

DRAINAGE AREA.--2,318 sq mi.

PERIOD OF RECORD.--May to August 1903 (gage 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 above mean sea level. May 20 to Aug. 8, 1903, nonrecording gage at site 1.8 miles 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 higher. Auxiliary tailwater staff gage near right bank on downstream side of dam at present datum.

AVERAGE DISCHARGE.--57 years, 1,662 cfs.

EXTREMES.--Current year: Maximum discharge, 26,500 cfs Apr. 23 (gage height, 18.86 ft); minimum, 20 cfs Oct. 5 result of gate operation.
Period of record: Maximum discharge, 52,500 cfs Feb. 16, 1950, Feb. 12, 1959 (gage height, 26.4 ft, from graph based on hourly powerplant tailwater-gage readings and gage readings, respectively); maximum gage height, 27.65 ft Feb. 13, 1959, from floodmark (ice jam); minimum daily discharge, 0.5 cfs Oct. 13, 14, 1952 (during repairs to powerplant dam).
Flood in March 1913 reached a stage of 38.8 ft, from reading on powerplant tailwater gage at present datum (discharge, 120,000 cfs, from rating curve extended above 51,000 cfs).

REVISIONS.--The maximum discharge for the water year 1966 has been revised to 9,560 cfs May 13, 1966 (gage height, 11.43 ft) superseding figure published in WRD Ohio 1966.

REMARKS.--Records good. Flow regulated by dam at former powerplant 125 ft upstream from station (reservoir capacity, 9,800 acre-ft), 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 miles 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	31	161	6,200	478	384	1,190	1,240	3,790	2,320	182	140
2	225	42	201	3,650	412	5,280	1,010	1,150	2,370	1,330	178	134
3	195	45	208	2,340	385	11,100	813	1,050	1,430	819	154	140
4	2,000	52	186	1,790	358	11,500	804	932	1,150	767	169	137
5	184	74	180	1,370	323	6,310	1,040	804	1,210	1,090	270	134
6	21	78	188	935	312	2,600	1,300	704	951	857	349	132
7	22	77	330	825	276	2,080	2,780	576	746	692	398	124
8	24	70	2,700	795	247	1,560	11,000	551	614	654	367	102
9	24	80	5,170	792	223	1,090	12,000	738	505	629	322	96
10	24	92	3,390	2,000	199	760	9,670	4,370	660	521	268	100
11	98	74	2,320	4,570	185	696	4,740	5,840	790	437	241	111
12	176	85	1,880	3,740	177	641	4,610	3,700	668	367	218	117
13	161	78	618	2,450	186	4,470	7,400	3,690	517	318	189	222
14	144	88	284	1,610	224	10,500	11,400	2,460	565	491	175	9,300
15	137	85	3,650	828	373	11,400	12,700	3,090	648	1,260	132	9,520
16	134	82	7,150	597	597	11,100	8,260	3,270	689	7,210	143	8,460
17	133	84	6,570	528	813	8,120	7,420	5,080	820	5,600	196	6,150
18	130	95	3,340	530	853	5,350	10,300	3,740	841	2,570	254	5,710
19	128	101	2,200	601	713	3,420	7,090	2,360	673	3,760	242	5,320
20	127	95	1,590	823	520	1,250	6,980	1,560	520	2,360	441	5,480
21	123	58	1,190	992	418	1,340	14,600	1,130	464	2,210	865	4,460
22	81	72	350	1,050	381	1,310	23,500	994	1,030	1,430	892	2,310
23	27	78	29	1,360	342	1,280	25,800	834	1,150	842	645	887
24	27	82	275	1,780	290	1,210	23,500	682	786	649	447	865
25	28	86	492	2,130	267	1,040	14,000	585	577	593	410	748
26	30	79	497	1,400	267	838	6,240	524	471	426	393	2,810
27	30	93	497	1,150	244	722	3,750	467	398	390	311	6,810
28	30	83	453	995	240	686	2,410	411	345	345	239	10,100
29	30	109	456	869	256	790	1,700	374	325	281	192	10,300
30	31	137	898	699	------	949	1,370	474	1,250	235	163	11,700
31	31	------	4,370	555	------	1,150	------	2,080	------	206	148	------
TOTAL	4,855	2,385	51,823	49,954	10,559	110,926	239,377	55,460	26,953	41,659	9,593	102,619
MEAN	157	79.5	1,672	1,611	364	3,578	7,979	1,789	898	1,344	309	3,421
MAX	2,000	137	7,150	6,200	853	11,500	25,800	5,840	3,790	7,210	892	11,700
MIN	21	31	29	528	177	384	804	374	325	206	132	96

CAL YR 1971 TOTAL 462,730 MEAN 1,268 MAX 13,500 MIN 21
WTR YR 1972 TOTAL 706,163 MEAN 1,929 MAX 25,800 MIN 21

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 8	1330	14.36	14,600	4-23	2000	18.86	26,500
4-15	0700	13.68	13,100	9-14	1200	13.98	13,800

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 upstream from Independence Dam, 4 miles downstream from Auglaize River, and 4.5 miles east of Defiance.

DRAINAGE AREA.--5,545 sq mi.

PERIOD OF RECORD.--October 1924 to December 1935, March 1939 to current year.

GAGE.--Water-stage recorder upstream from concrete dam. Datum of gage is 658.56 ft (revised) above mean sea level. Prior to Nov. 13, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 3,963 cfs.

EXTREMES.--Current year: Maximum discharge, 41,100 cfs Apr. 23 (gage height, 7.74 ft); minimum, 223 cfs Nov. 21 (gage height, 1.57 ft).
Period of record: Maximum discharge, 87,100 cfs Feb. 16, 1950 (gage height, 13.70 ft); maximum gage height, 13.77 ft Feb. 11, 1959 (ice jam); minimum discharge, 2 cfs Sept. 3, 1925; minimum gage height, 1.09 ft Sept. 26, 1928.

REMARKS.--Records good. Flow affected by occasional regulation of Auglaize River at hydroelectric plant of Toledo Edison Company, (operation of plant discontinued Jan. 10, 1963) 7 miles upstream. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,080	415	388	12,800	1,400	1,060	5,090	5,050	6,540	2,880	520	396
2	865	385	476	10,100	1,300	7,020	4,200	5,530	5,890	2,030	479	390
3	750	330	449	7,160	1,200	13,800	3,480	4,300	4,040	1,520	439	367
4	2,380	323	421	5,920	1,100	16,900	3,460	3,660	2,810	1,190	398	325
5	1,430	338	437	5,270	950	11,800	4,240	3,550	2,830	1,550	494	302
6	629	339	454	4,060	820	7,020	4,560	3,370	2,350	1,520	641	311
7	326	322	705	3,400	740	4,980	5,600	2,980	1,860	1,640	1,320	294
8	293	296	3,220	2,610	680	4,580	16,600	2,640	1,570	1,620	1,200	286
9	314	311	8,850	2,870	620	3,750	20,000	2,710	1,260	1,580	1,620	281
10	291	458	8,380	4,250	580	2,730	17,900	6,420	1,350	1,390	1,200	309
11	378	332	7,730	7,790	540	2,120	13,800	9,560	2,040	1,110	808	326
12	440	285	6,940	7,320	520	1,830	11,400	6,990	1,900	887	703	342
13	401	283	4,740	5,400	500	7,380	14,100	6,190	1,290	831	614	547
14	397	306	3,130	3,910	520	17,600	20,800	4,940	1,110	978	556	17,200
15	392	286	8,540	2,400	890	21,500	23,000	6,320	1,570	2,190	520	27,100
16	391	275	15,500	1,500	1,230	21,200	20,100	8,070	3,780	8,950	549	24,800
17	388	283	15,100	1,260	1,560	19,000	22,400	9,480	3,780	11,800	618	16,700
18	374	284	11,200	1,470	1,800	16,000	24,400	7,580	2,500	8,100	780	12,900
19	360	304	7,680	1,810	1,710	10,000	21,000	5,600	1,740	7,960	1,140	12,000
20	347	303	5,450	2,260	1,420	8,200	18,900	4,400	1,320	7,350	1,010	11,400
21	333	255	4,360	2,600	1,160	7,000	25,300	3,640	1,100	6,410	2,010	9,560
22	369	248	3,000	3,000	1,180	7,000	36,400	3,160	1,490	4,920	1,900	6,260
23	318	259	1,860	4,320	1,110	7,200	40,700	2,600	1,830	2,960	1,370	3,010
24	624	277	1,700	5,400	1,010	6,600	39,400	2,200	1,450	1,940	1,110	2,800
25	988	273	1,750	6,400	775	5,920	31,000	1,790	1,160	1,680	1,460	2,290
26	1,090	255	1,660	5,200	798	5,120	22,000	1,530	986	1,220	1,110	4,900
27	782	308	1,570	3,800	735	4,380	15,200	1,400	848	1,070	850	12,000
28	607	283	1,470	3,000	695	3,970	10,600	1,250	822	944	668	16,300
29	504	313	1,460	2,400	735	3,590	6,820	1,100	834	932	544	16,200
30	437	382	3,040	1,990	------	4,240	4,810	1,230	1,360	607	478	18,600
31	444	------	9,190	1,600	------	5,540	------	3,160	------	514	444	------
TOTAL	18,722	9,311	140,850	133,270	28,278	259,030	507,260	132,400	63,410	90,273	27,553	218,496
MEAN	604	310	4,544	4,299	975	8,356	16,910	4,271	2,114	2,912	889	7,283
MAX	2,380	458	15,500	12,800	1,800	21,500	40,700	9,560	6,540	11,800	2,010	27,100
MIN	291	248	388	1,260	500	1,060	3,460	1,100	822	514	398	281

CAL YR 1971 TOTAL 1,142,259 MEAN 3,129 MAX 31,400 MIN 165
WTR YR 1972 TOTAL 1,628,853 MEAN 4,450 MAX 40,700 MIN 248

PEAK DISCHARGE (BASE, 23,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15	0500	5.77	23,500	4-23	1900	7.74	41,100
4-18	0700	5.95	24,900	9-15	1400	6.41	28,800

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 miles downstream from Tontogany Creek, and 21.1 miles upstream from mouth.

DRAINAGE AREA.--6,330 sq mi.

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 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.--47 years (1921-35, 1939-72) 4,677 cfs (10.03 inches per year) (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, 47,900 cfs Apr. 23 (gage height, 10.50 ft); minimum daily, 214 cfs Nov. 22.

Period of record: Maximum discharge, 94,000 cfs Feb. 16, 1950 (gage height, 14.52 ft); maximum gage height, 16.17 ft 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 cfs Oct. 23, 24, 1964 (gage height, 1.29 ft).

Flood in March 1913 reached a stage of 19.9 ft, from information by local resident (estimated discharge, 180,000 cfs, from rating curve extended above 94,000 cfs).

REMARKS.--Records good except those for the winter period, which are fair. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,500	405	450	14,300	1,700	880	5,680	5,360	5,500	4,000	614	468
2	1,050	628	400	13,200	1,500	6,360	4,940	6,200	6,840	3,420	586	426
3	848	394	500	9,420	1,400	15,500	4,160	5,400	5,680	2,600	544	436
4	884	317	460	7,440	1,300	19,500	4,190	4,420	4,190	2,080	455	416
5	2,880	259	450	6,440	1,200	14,800	4,700	4,060	3,570	1,610	480	375
6	1,130	383	520	5,820	1,100	9,550	5,120	4,000	3,160	1,730	544	332
7	614	443	800	5,220	1,000	5,960	5,120	3,270	2,490	1,710	1,980	345
8	306	250	2,230	4,060	900	5,150	11,400	3,180	2,050	1,850	2,200	317
9	350	268	7,640	3,480	800	4,640	20,800	3,570	1,570	1,830	1,800	292
10	339	455	10,800	4,670	740	3,940	19,700	5,080	1,320	1,710	1,700	293
11	328	418	9,280	7,800	660	3,040	16,500	9,510	1,660	1,430	1,180	349
12	339	405	8,380	9,150	620	2,330	11,800	8,520	2,130	1,110	880	391
13	405	317	6,920	6,760	580	5,190	12,500	6,170	1,930	920	715	529
14	443	295	4,260	5,000	640	19,200	19,100	5,850	1,500	1,110	763	8,560
15	383	430	7,000	3,000	860	24,600	24,500	5,780	1,500	1,450	909	30,300
16	394	350	16,300	2,300	1,500	24,900	23,000	8,740	3,020	6,640	786	31,500
17	394	328	18,200	1,800	2,000	22,500	25,700	9,060	4,800	15,400	678	21,700
18	443	383	14,100	1,600	2,100	18,700	26,100	8,520	3,630	13,000	688	16,200
19	405	558	9,960	1,900	1,800	15,000	23,400	6,320	2,490	7,800	1,290	15,600
20	394	394	7,080	2,400	1,600	11,700	19,700	5,120	1,850	9,420	1,200	13,700
21	383	360	5,610	3,600	1,400	8,430	23,300	4,320	1,800	6,840	2,300	11,800
22	493	214	4,540	3,690	1,300	8,520	38,400	3,510	1,590	6,060	2,100	8,530
23	505	232	3,020	5,220	1,200	8,290	46,900	3,180	2,030	4,350	1,500	4,730
24	443	290	2,200	7,000	1,100	7,760	44,400	2,570	1,950	2,740	1,300	3,930
25	902	320	2,000	7,880	1,000	6,480	36,200	2,100	1,500	2,280	1,700	3,150
26	1,390	370	1,900	6,000	900	5,820	25,500	1,730	1,230	1,800	1,200	4,130
27	1,170	370	1,800	4,500	820	5,150	18,000	1,520	1,070	1,390	1,000	13,400
28	866	350	1,700	3,400	760	4,480	12,400	1,430	920	1,210	800	18,800
29	642	340	1,700	2,600	800	4,290	8,250	1,250	1,050	1,070	600	18,700
30	544	380	2,100	2,200	------	4,450	5,990	1,280	2,200	956	544	21,900
31	544	------	7,320	1,900	------	5,330	------	2,000	------	702	481	------
TOTAL	21,711	10,906	159,620	163,750	33,280	302,440	547,450	143,020	76,220	110,218	33,517	251,599
MEAN	700	364	5,149	5,282	1,148	9,756	18,250	4,614	2,541	3,555	1,081	8,387
MAX	2,880	628	18,200	14,300	2,100	24,900	46,900	9,510	6,840	15,400	2,300	31,500
MIN	306	214	400	1,600	580	880	4,160	1,250	920	702	455	292
CFSM	.11	.06	.81	.83	.18	1.54	2.88	.73	.40	.56	.17	1.33
IN.	.13	.06	.94	.96	.20	1.78	3.22	.84	.45	.65	.20	1.48

CAL YR 1971 TOTAL 1,311,775 MEAN 3,594 MAX 38,900 MIN 170 CFSM .57 IN 7.71
WTR YR 1972 TOTAL 1,853,731 MEAN 5,065 MAX 46,900 MIN 214 CFSM .80 IN 10.89

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 downstream from unnamed right bank tributary, and 10.3 miles upstream from Sugar Creek.

DRAINAGE AREA.--428 sq mi.

PERIOD OF RECORD.--July 1928 to December 1935, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.75 ft 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).--40 years, 297 cfs (9.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,160 cfs July 17 (gage height, 11.26 ft); minimum, 9.3 cfs Nov. 25, 26.
Period of record: Maximum discharge, 11,500 cfs Feb. 15, 1950 (gage height, 14.51 ft); minimum, 0.3 cfs Aug. 28, 1931.
Flood in March 1913 reached a stage of 17 ft, from information by local residents (discharge, 17,000 cfs, from rating curve extended above 11,500 cfs).

REMARKS.--Records good. Flow supplemented by water imported from Maumee River basin for municipal supply for city of Bowling Green 16 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	24	52	930	90	70	136	185	422	578	41	25
2	28	22	42	522	82	1,610	127	276	276	154	37	23
3	23	19	39	422	82	2,860	114	294	208	130	39	23
4	17	19	29	333	94	1,030	138	208	321	100	125	20
5	16	20	25	240	90	490	267	152	240	76	109	18
6	14	19	32	150	86	253	288	125	156	70	74	18
7	15	16	190	160	82	200	264	112	120	80	171	16
8	17	15	534	170	78	160	250	114	101	100	387	17
9	22	16	373	140	74	130	288	785	81	90	235	16
10	42	16	245	910	70	120	345	1,700	70	74	150	16
11	43	17	245	975	66	120	359	765	60	59	104	16
12	30	18	195	598	64	130	282	426	55	46	75	15
13	22	20	138	419	62	935	288	309	55	41	61	19
14	19	20	110	288	90	3,160	297	297	144	55	51	735
15	17	17	582	160	120	2,720	359	720	138	213	675	2,730
16	18	17	1,070	140	240	2,130	498	985	115	4,280	1,070	2,170
17	18	15	594	120	200	1,730	1,670	586	102	6,800	422	770
18	17	11	315	110	160	1,080	1,140	380	81	3,990	243	486
19	15	12	190	110	130	690	634	267	60	1,330	680	1,280
20	15	12	152	120	100	482	638	208	51	855	602	720
21	14	13	138	160	90	408	1,660	171	122	454	294	356
22	17	14	117	230	80	429	2,370	146	127	253	162	213
23	24	13	93	360	70	482	3,660	120	90	156	114	142
24	30	11	90	400	60	345	1,850	99	73	107	117	110
25	33	10	84	538	52	258	820	85	61	264	96	98
26	29	10	80	401	46	228	514	73	54	300	71	118
27	28	14	74	320	44	200	366	63	59	152	59	1,060
28	26	18	70	240	42	183	276	55	54	115	47	1,730
29	26	33	66	160	54	165	225	48	176	82	37	1,160
30	25	46	486	130	------	167	195	55	660	64	33	1,820
31	25	------	1,700	100	------	158	------	140	------	50	29	------
TOTAL	723	527	8,150	10,056	2,598	23,123	20,318	9,949	4,332	21,118	6,410	15,940
MEAN	23.3	17.6	263	324	89.6	746	677	321	144	681	207	531
MAX	43	46	1,700	975	240	3,160	3,660	1,700	660	6,800	1,070	2,730
MIN	14	10	25	100	42	70	114	48	51	41	29	15
(✓)	5.37	4.71	4.24	4.78	4.82	4.38	4.78	5.16	4.54	4.54	5.22	5.79
MEAN ≠	17.9	12.9	259	319	84.8	742	672	316	139	677	202	525
CFSM ≠	.04	.03	.61	.75	.20	1.73	1.57	.74	.32	1.58	.47	1.23
IN ≠	.05	.03	.70	.86	.21	2.00	1.75	.85	.36	1.82	.54	1.37

CAL YR 1971	TOTAL	82,966.5	MEAN 227	MAX 3,660	MIN 6.4	(✓)	4.87	MEAN ≠ 222	CFSM ≠ .52	IN ≠ 7.05		
WTR YR 1972	TOTAL	123,244	MEAN 337	MAX 6,800	MIN 10	(✓)	4.86	MEAN ≠ 332	CFSM ≠ .78	IN ≠ 10.55		

PEAK DISCHARGE (BASE, 3,500 CFS).--Apr. 23 (0800) 4,460 cfs (8.68 ft); July 17 (0700) 7,160 cfs (11.26 ft).
(✓) Diversion from Maumee River basin for municipal supply of city of Bowling Green, equivalent in cubic feet per second.
(≠) Adjusted for diversion.

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 mile upstream from unnamed left bank tributary, 1.5 miles west of Bucyrus, and 12 miles downstream from Loss Creek.

DRAINAGE AREA.--88.8 sq mi.

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 above mean sea level. Prior to May 11, 1940, non-recording gage, and May 12, 1940, to December 31, 1951, water-stage recorder, at same site and datum.

AVERAGE DISCHARGE.--31 years (1925-35, 1938-51, 1964-72), 81.1 cfs (12.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,090 cfs Apr. 20 (gage height, 8.81 ft); minimum, 0.82 cfs Nov. 13.
Period of record: Maximum discharge observed, 5,800 cfs Dec. 14, 1927 (gage height, 9.15 ft); minimum, 0.4 cfs Sept. 29, 1941, July 16, 1942.
Flood of Mar. 23, 1913 reached a stage of 14.5 ft, from floodmarks. Flood of Jan. 22, 1959 reached a stage of 11.9 ft, from floodmarks (discharge, 13,500 cfs, on basis of contracted-opening measurement of peak flow at site 2.8 miles upstream with drainage area of 85.4 sq mi, adjusted to gage site by 0.8 power of drainage-area ratio).

REMARKS.--Records good except January and February, which are fair. Low flow slightly affected by operation of reservoirs 5.3 to 6.0 miles 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(M), 1928(M), 1931, 1932(M), 1934-35(M), 1939, 1940(M), 1946(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	6.2	19	136	17	122	44	47	62	60	10	5.0
2	3.3	7.1	9.7	88	20	801	41	45	41	30	9.7	7.2
3	3.5	3.7	6.5	84	33	440	39	41	32	78	11	8.9
4	3.3	2.1	3.9	77	37	189	40	37	24	138	9.4	6.8
5	3.9	2.5	3.1	82	32	117	37	32	20	54	8.1	4.0
6	4.9	3.1	24	64	26	72	40	29	18	32	7.8	7.1
7	4.9	3.7	54	56	23	70	330	26	17	24	9.4	7.0
8	4.4	2.5	96	43	19	80	262	45	15	28	8.4	6.4
9	22	2.3	52	70	16	75	123	585	15	28	4.4	5.7
10	8.7	2.5	30	430	15	68	115	440	13	24	3.5	4.9
11	13	2.5	26	212	14	60	97	154	12	36	7.5	5.5
12	4.9	2.1	30	110	15	84	79	92	12	25	6.5	5.7
13	3.9	1.5	28	76	19	714	591	74	64	77	5.7	6.0
14	6.8	2.3	45	59	28	732	368	120	228	124	14	60
15	5.7	3.1	144	32	112	336	172	678	83	62	12	88
16	6.8	3.9	160	26	330	338	274	394	45	126	7.1	31
17	6.0	2.5	71	22	150	455	624	174	30	87	24	15
18	6.2	3.1	45	18	100	200	214	108	20	45	46	17
19	5.2	14	30	24	65	130	130	76	15	44	36	11
20	4.7	5.4	30	28	46	98	1,550	58	12	43	26	6.3
21	4.4	4.4	32	34	32	96	1,530	48	10	21	16	4.3
22	7.1	3.7	37	40	22	603	1,060	41	10	14	44	9.1
23	5.2	5.7	29	59	16	388	552	34	10	9.4	65	19
24	4.7	5.5	25	74	14	165	252	29	9.1	10	33	13
25	3.7	4.4	22	61	12	124	153	26	8.4	16	20	17
26	3.7	3.7	22	45	10	96	107	23	10	22	14	38
27	6.0	13	24	27	9.0	81	81	20	14	14	8.7	129
28	6.2	5.5	27	23	8.5	72	65	17	13	9.4	8.1	128
29	4.7	15	32	18	20	61	56	17	19	6.8	7.1	99
30	3.3	14	266	15	------	56	49	37	138	9.7	6.4	799
31	2.7	------	458	13	------	48	------	66	------	10	4.3	------
TOTAL	177.5	151.0	1,881.2	2,146	1,260.5	6,971	9,075	3,613	1,019.5	1,307.3	493.1	1,563.9
MEAN	5.73	5.03	60.7	69.2	43.5	225	303	117	34.0	42.2	15.9	52.1
MAX	22	15	458	430	330	801	1,550	678	228	138	65	799
MIN	2.7	1.5	3.1	13	8.5	48	37	17	8.4	6.8	3.5	4.0
CFSM	.06	.06	.68	.78	.49	2.53	3.41	1.32	.38	.48	.18	.59
IN.	.07	.06	.79	.90	.53	2.92	3.80	1.51	.43	.55	.21	.66

CAL YR 1971 TOTAL 24,413.7 MEAN 66.9 MAX 1,260 MIN 1.5 CFSM .75 IN 10.23
WTR YR 1972 TOTAL 29,659.0 MEAN 81.0 MAX 1,550 MIN 1.5 CFSM .91 IN 12.42

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	2200	8.81	3,090	9-30	2330	6.04	1,200
4-22	1930	6.41	1,380				

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 mile downstream from unnamed right bank tributary, 0.8 mile upstream from Rock Run, and 2 miles northeast of Upper Sandusky.

DRAINAGE AREA.--298 sq mi.

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Gage-height records collected at site 3 miles upstream since 1912 (fragmentary) are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 792.25 ft above mean sea level. Prior to Sept. 14, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 235 cfs (10.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,420 cfs Apr. 22 (gage height, 9.64 ft); minimum, 3.3 cfs Oct. 6. Period of record: Maximum discharge, about 10,000 cfs Jan. 22, 1959; maximum gage height, 15.00 ft in gage well, 15.55 ft from outside floodmark, Jan. 22, 1959 (ice jam); minimum discharge, 0.50 cfs Oct. 2, 1963. Flood in June 1937 reached a stage of 14.3 ft, from high-water marks in gage well.

REMARKS.--Records good except those for January and February, which are fair. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	12	26	604	36	118	138	160	200	207	17	16
2	11	11	24	289	35	1,230	130	152	110	103	20	14
3	12	11	25	190	42	2,060	120	138	90	298	22	15
4	10	8.8	21	160	50	840	115	122	70	565	23	18
5	7.0	12	17	130	48	300	110	108	61	319	20	18
6	3.7	12	24	110	46	210	110	96	56	158	20	15
7	4.1	12	42	110	44	190	571	85	51	104	20	13
8	4.9	12	94	120	42	180	948	98	49	102	17	11
9	15	10	122	110	40	210	501	858	44	99	20	12
10	25	10	77	460	38	170	433	1,350	40	90	17	12
11	36	12	50	750	36	150	373	724	38	87	16	12
12	18	13	41	290	35	150	289	409	35	77	17	11
13	22	12	35	180	42	700	1,020	287	47	58	16	11
14	22	13	45	130	60	2,400	1,590	283	214	104	15	85
15	13	13	87	100	90	1,790	692	1,660	250	176	13	259
16	12	12	236	80	200	1,070	716	1,930	173	116	18	258
17	14	11	240	68	700	1,320	1,790	892	121	165	19	120
18	14	11	120	60	380	834	1,130	514	99	116	31	70
19	14	16	76	52	240	497	574	344	71	78	70	50
20	12	16	64	66	160	337	2,980	249	56	64	68	41
21	10	24	58	100	110	293	5,520	195	49	68	52	32
22	12	18	53	110	70	856	4,560	160	45	45	52	25
23	12	12	53	140	54	1,520	3,000	134	43	36	99	26
24	13	11	48	160	46	680	1,180	115	41	40	181	37
25	21	10	42	130	38	429	678	100	41	37	106	53
26	14	10	40	110	32	337	473	89	38	31	66	61
27	13	14	40	90	28	268	353	79	34	36	45	222
28	12	12	39	76	27	231	268	71	33	35	35	535
29	11	20	40	64	30	200	218	65	60	27	26	400
30	10	23	189	52	------	177	185	73	68	22	22	1,500
31	11	------	970	42	------	152	------	120	------	18	18	------
TOTAL	417.5	393.8	3,038	5,133	2,799	19,899	30,765	11,660	2,327	3,481	1,181	3,952
MEAN	13.5	13.1	98.0	166	96.5	642	1,026	376	77.6	112	38.1	132
MAX	36	24	970	750	700	2,400	5,520	1,930	250	565	181	1,500
MIN	3.7	8.8	17	42	27	118	110	65	33	18	13	11
CFSM	.05	.04	.33	.56	.32	2.15	3.44	1.26	.26	.38	.13	.44
IN.	.05	.05	.38	.64	.35	2.48	3.84	1.46	.29	.43	.15	.49

CAL YR 1971 TOTAL 75,884.8 MEAN 208 MAX 3,200 MIN 3.7 CFSM .70 IN 9.47
WTR YR 1972 TOTAL 85,046.3 MEAN 232 MAX 5,520 MIN 3.7 CFSM .78 IN 10.62

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1930	6.11	2,550	4-22	0130	9.64	6,420

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 mile northwest of Crawford, 1.5 miles downstream from Lick Run, 2.7 miles upstream from Little Tymochtee Creek, and 3 miles southeast of Carey.

DRAINAGE AREA.--229 sq mi.

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 above mean sea level. Oct. 1, 1960, to May 31, 1964, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--8 years, 161 cfs (9.54 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,580 cfs Apr. 21 (gage height, 8.82 ft); minimum, 0.09 cfs Oct. 9, 10.
Period of record: Maximum discharge, 6,040 cfs Apr. 22, 1964 (gage height, 9.82 ft); maximum gage height, 11.21 ft Mar. 6, 1963 (backwater from ice); no flow Aug. 10, Sept. 13-18, Oct. 23 to Nov. 4, 1964, Aug. 23-26, 1965.
Flood of January 1959 reached a stage of 12.9 ft, from information by local resident.

REMARKS.--Records good except those for the winter period, which are fair. Beginning Mar. 9, 1972 water was diverted at a point 29.4 miles upstream from station into Killdeer Reservoir. Storage is available for low-flow augmentation. Diversion totaled 1,580 million gallon during the period. No releases were made from the reservoir. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	2.8	2.8	574	18	37	43	75	74	326	8.4	5.1
2	.55	2.8	2.4	326	16	695	42	62	76	214	7.6	4.5
3	.75	2.8	2.3	130	18	1,120	41	54	60	286	6.8	4.5
4	.55	2.4	2.1	100	24	1,320	42	49	46	715	6.0	4.0
5	.30	2.4	1.9	80	22	780	40	40	32	780	5.1	4.0
6	.16	2.4	2.6	60	20	280	41	30	25	402	6.8	4.0
7	.10	2.0	6.0	60	19	150	414	24	21	160	8.4	3.2
8	.10	1.6	7.6	70	18	110	928	26	19	126	7.6	2.8
9	.55	1.6	10	60	17	90	1,230	695	21	135	6.8	2.8
10	1.6	2.0	26	160	16	75	785	1,260	20	67	5.1	2.0
11	1.6	2.0	26	478	15	62	478	1,880	17	43	6.0	1.6
12	1.6	2.0	18	410	15	54	304	898	13	31	6.8	2.0
13	1.6	2.0	12	150	17	498	595	322	45	25	6.0	4.0
14	3.2	2.0	12	110	35	1,070	1,080	235	77	29	4.5	170
15	2.4	2.4	18	70	64	1,220	1,820	780	90	23	4.0	152
16	2.0	2.0	28	50	102	1,080	1,020	1,330	104	20	3.6	111
17	2.4	1.6	155	40	176	770	1,100	1,840	60	19	3.6	90
18	2.8	2.4	124	34	100	635	1,520	991	47	19	4.0	48
19	2.8	2.4	60	30	78	358	1,180	370	35	18	5.1	32
20	2.4	1.3	37	26	60	211	1,460	217	23	15	4.5	23
21	2.4	.75	24	30	46	145	3,820	142	17	22	6.8	17
22	2.8	.75	18	50	36	182	3,950	100	14	24	7.6	11
23	2.8	.55	14	90	28	430	2,560	72	13	14	6.8	9.2
24	2.8	.55	13	150	23	378	1,920	54	11	13	17	11
25	2.8	.75	12	100	20	193	910	43	10	26	27	14
26	2.8	1.3	8.4	70	19	130	418	34	9.2	20	20	117
27	2.4	2.0	6.8	50	18	98	262	31	9.2	16	13	238
28	2.4	2.0	6.0	40	19	75	173	24	9.2	16	8.4	262
29	2.4	2.4	5.1	32	21	65	124	20	24	13	6.8	223
30	2.4	2.4	17	24	------	58	93	46	338	9.2	4.5	695
31	2.4	------	202	20	------	49	------	76	------	8.4	5.1	------
TOTAL	56.26	56.35	880.0	3,674	1,080	12,418	28,393	11,820	1,359.6	3,634.6	239.7	2,267.7
MEAN	1.81	1.88	28.4	119	37.2	401	946	381	45.3	117	7.73	75.6
MAX	3.2	2.8	202	574	176	1,320	3,950	1,880	338	780	27	695
MIN	.10	.55	1.9	20	15	37	40	20	9.2	8.4	3.6	1.6
CFSM	.008	.008	.12	.52	.16	1.75	4.13	1.66	.20	.51	.03	.33
IN.	.009	.009	.14	.60	.18	2.02	4.61	1.92	.22	.59	.04	.37

CAL YR 1971 TOTAL 39,723.02 MEAN 109 MAX 1,860 MIN .10 CFSM .48 IN 6.45
WTR YR 1972 TOTAL 65,879.21 MEAN 180 MAX 3,950 MIN .10 CFSM .79 IN 10.70

PEAK DISCHARGE (BASE, 1,880 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15	1045	6.48	2,030	5-11	0630	6.54	2,090
4-21	2000	8.82	4,580	5-17	0430	6.48	2,030

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 miles upstream from Honey Creek, 4.2 miles north of Mexico, 4.9 miles south of Tiffin, and 8.3 miles downstream from Mile Run.

DRAINAGE AREA.--774 sq mi.

PERIOD OF RECORD.--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 above mean sea level, adjustment of 1912. Prior to Aug. 15, 1929, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--46 years, 558 cfs (9.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,900 cfs Apr. 23 (gage height, 17.77 ft); minimum, 13 cfs Oct. 5, 6.
Period of record: Maximum discharge, 18,900 cfs Jan. 23, 1959 (gage height, 22.43 ft, from floodmark); minimum, 1.8 cfs Oct. 31, 1942 (during repairs to small dam upstream from station).
Flood in June 1937 reached a stage of 22.5 ft, from information by local residents (discharge, 19,000 cfs).

REMARKS.--Records good except those for January and February, which are 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	26	49	1,460	110	140	274	396	341	571	51	45
2	17	26	47	1,010	90	1,790	248	351	315	552	50	46
3	17	24	50	567	120	3,790	232	314	276	343	53	54
4	15	24	47	380	150	3,310	235	279	223	1,050	52	46
5	14	25	47	300	160	2,150	238	249	177	1,260	48	41
6	14	26	53	260	140	1,200	224	221	148	968	47	40
7	14	29	74	240	130	700	523	196	129	467	52	37
8	14	31	108	280	120	480	2,100	190	116	318	56	36
9	19	31	145	296	120	400	2,060	1,660	109	344	52	35
10	21	30	165	522	110	360	1,830	3,650	105	277	48	33
11	21	29	139	1,340	110	340	1,280	3,290	97	202	44	32
12	32	29	108	1,290	100	310	912	2,520	88	167	44	32
13	41	29	86	803	100	1,150	1,790	1,170	108	140	44	180
14	34	29	83	539	110	4,150	3,240	761	232	144	41	1,610
15	41	31	122	340	180	4,480	2,980	2,530	387	205	40	1,740
16	36	31	309	260	380	3,720	2,590	4,050	394	250	35	847
17	29	30	494	200	650	3,110	3,680	3,690	311	220	41	548
18	24	31	443	170	911	2,520	3,690	2,730	228	232	45	322
19	22	34	285	150	560	1,530	2,820	1,350	184	190	57	218
20	21	34	182	140	450	957	3,670	756	143	164	96	163
21	22	36	139	190	320	696	6,260	539	120	125	103	128
22	26	36	115	220	240	1,100	9,290	416	108	123	89	103
23	31	42	103	517	190	2,380	11,200	335	102	104	114	87
24	38	40	98	610	150	2,070	7,910	277	99	88	162	83
25	32	36	91	500	130	1,080	4,630	233	91	93	253	93
26	28	33	83	340	110	731	1,810	199	88	97	178	263
27	30	33	78	280	90	571	1,040	171	85	85	120	1,080
28	31	36	75	240	82	471	742	154	80	79	90	1,350
29	28	43	74	200	76	403	572	139	165	79	72	1,140
30	28	43	93	160	------	360	461	170	395	69	58	2,460
31	29	------	624	130	------	312	------	352	------	58	50	------
TOTAL	787	957	4,609	13,934	6,189	46,761	78,531	33,338	5,444	9,064	2,285	12,892
MEAN	25.4	31.9	149	449	213	1,508	2,618	1,075	181	292	73.7	430
MAX	41	43	624	1,460	911	4,480	11,200	4,050	395	1,260	253	2,460
MIN	14	24	47	130	76	140	224	139	80	58	35	32
CFSM	.03	.04	.19	.58	.28	1.95	3.38	1.39	.23	.38	.10	.56
IN.	.04	.05	.22	.67	.30	2.25	3.77	1.60	.26	.44	.11	.62

CAL YR 1971 TOTAL 163,783 MEAN 449 MAX 6,610 MIN 11 CFSM .58 IN 7.87
WTR YR 1972 TOTAL 214,791 MEAN 587 MAX 11,200 MIN 14 CFSM .76 IN 10.32

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-15	0800	10.98	4,550	5-16	1800	10.54	4,200
4-23	0500	17.77	11,900				

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 miles upstream from Ballville diversion dam, 2.5 miles downstream from Wolf Creek, and 3.5 miles southwest of Fremont.

DRAINAGE AREA.--1,251 sq mi.

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 above mean sea level, adjustment of 1912. Nov. 18, 1898, to Mar. 10, 1901, nonrecording gage at site 4 miles downstream at different datum. Nov. 8, 1923, to Sept. 5, 1930, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--46 years (1923-35, 1938-72), 920 cfs (9.99 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,300 cfs Apr. 23 (gage height, 8.28 ft); minimum, 28 cfs Oct. 7, 8 (gage height, 0.90 ft).
Period of record: Maximum discharge, about 28,000 cfs Feb. 10, 1959; maximum gage height, 15.20 ft Feb. 10, 1959, from floodmark (ice jam); minimum discharge, 4.4 cfs Feb. 29, 1964 (result of freezup); minimum gage height, 0.78 ft Oct. 20, 1963.

REMARKS.--Records good except those for the winter period, which are fair. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	39	62	1,640	180	190	440	660	600	834	80	68
2	39	41	62	1,610	160	2,610	392	640	526	749	74	61
3	37	41	57	940	180	6,380	361	553	473	600	83	59
4	35	39	55	630	240	5,120	369	473	415	640	101	67
5	33	37	55	520	300	3,460	384	415	490	1,430	89	62
6	31	33	62	460	250	1,900	384	369	384	1,250	80	61
7	28	35	97	500	230	1,100	392	323	281	761	86	56
8	29	37	172	560	210	740	1,790	316	223	465	83	52
9	35	37	187	399	200	600	2,590	3,050	187	399	83	50
10	51	39	235	808	190	500	2,290	6,430	172	392	80	49
11	47	41	223	1,850	180	540	1,830	4,990	156	295	74	47
12	37	39	177	2,160	170	499	1,320	3,700	141	229	68	48
13	37	39	141	1,450	170	1,880	1,430	2,160	482	187	65	62
14	53	39	129	840	240	7,700	3,940	1,250	738	204	62	1,190
15	55	41	267	600	340	7,620	4,020	3,000	1,200	323	59	3,800
16	49	41	465	440	500	6,190	3,630	5,740	1,610	834	57	2,120
17	51	41	703	360	900	5,120	5,400	5,320	969	590	65	1,380
18	49	41	715	300	1,500	4,090	5,300	4,190	670	424	71	846
19	45	45	526	270	1,100	2,760	4,190	2,460	482	440	80	523
20	41	47	353	250	700	1,710	4,880	1,300	369	954	141	384
21	37	45	248	300	460	1,210	8,660	886	288	482	166	281
22	35	45	193	400	360	1,380	12,300	670	235	302	182	207
23	37	45	161	600	280	3,460	16,500	535	210	229	166	158
24	39	45	141	1,000	240	3,390	12,600	440	193	166	182	137
25	45	49	137	700	200	2,020	7,400	369	177	166	261	126
26	47	47	129	500	180	1,250	3,510	309	172	150	304	179
27	43	49	125	420	160	940	1,830	267	182	161	209	1,510
28	41	53	113	360	150	761	1,260	235	150	137	154	3,100
29	41	51	109	300	140	640	940	217	235	113	123	2,390
30	41	62	172	240	------	562	749	260	726	105	96	3,990
31	39	------	499	200	------	499	------	482	------	89	78	------
TOTAL	1,268	1,283	6,770	21,607	10,110	76,821	111,081	52,009	13,136	14,100	3,502	23,063
MEAN	40.9	42.8	218	697	349	2,478	3,703	1,678	438	455	113	769
MAX	55	62	715	2,160	1,500	7,700	16,500	6,430	1,610	1,430	304	3,990
MIN	28	33	55	200	140	190	361	217	141	89	57	47
CFSM	.03	.03	.17	.56	.28	1.98	2.96	1.34	.35	.36	.09	.61
IN.	.04	.04	.20	.64	.30	2.28	3.30	1.55	.39	.42	.10	.69

CAL YR 1971 TOTAL 314,072 MEAN 860 MAX 19,900 MIN 28 CFSM .69 IN 9.34
WTR YR 1972 TOTAL 334,750 MEAN 915 MAX 16,500 MIN 28 CFSM .73 IN 9.95

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 3	0600	4.87	7,000	4-23	0930	8.28	17,300
3-14	1700	5.44	8,570	5-10	0330	4.90	7,080

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 downstream from bridge on U.S. Highway 250, 0.2 mile northwest of Milan and 2.0 miles downstream from confluence of East and West Branches.

DRAINAGE AREA.--371 sq mi.

PERIOD OF RECORD.--March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 573.26 ft above mean sea level. Prior to July 29, 1953, nonrecording gage at site of former highway bridge 45 ft upstream at same datum.

AVERAGE DISCHARGE.--22 years, 279 cfs (10.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,650 cfs Sept. 30 (gage height, 16.15 ft); minimum, 6.3 cfs Oct. 3, 4.
Period of record: Maximum discharge, 49,600 cfs July 5, 1969 (gage height, 31.1 ft, from floodmark) from rating curve extended above 18,000 cfs on basis of contracted-opening measurement of peak flow; minimum, 2.2 cfs Sept. 10, 15, 19, 20, 21, 1955.

REMARKS.--Records good. Water-quality records for the current year at the monitor station 4.2 miles downstream are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	24	33	328	36	181	168	160	125	445	33	58
2	7.7	28	29	199	32	3,140	156	172	104	255	31	49
3	6.3	19	23	175	36	2,020	144	148	88	214	31	48
4	7.7	18	25	165	42	622	152	123	229	242	52	48
5	8.2	15	27	141	50	378	144	106	372	196	48	50
6	10	15	37	128	44	236	129	96	174	150	39	48
7	11	18	75	110	40	238	138	102	111	121	54	41
8	9.6	14	114	101	36	220	172	116	82	100	57	36
9	19	16	134	141	32	208	178	1,630	67	92	49	35
10	19	20	92	1,020	30	168	194	1,220	58	88	42	31
11	19	19	75	700	28	158	188	526	45	75	37	31
12	18	19	67	402	26	172	176	332	41	83	34	33
13	18	20	65	200	30	2,110	228	250	1,000	236	33	81
14	38	19	66	120	40	3,460	455	298	2,050	280	45	1,790
15	20	19	263	95	352	1,260	603	1,240	712	262	27	2,560
16	17	19	494	80	646	937	766	1,150	874	268	23	664
17	15	16	245	70	450	1,170	1,560	658	452	210	503	722
18	15	17	139	65	260	721	760	395	250	142	2,040	1,770
19	15	21	100	70	210	493	450	292	180	1,250	742	532
20	19	21	89	80	190	372	1,320	230	142	520	438	312
21	19	23	81	95	170	320	1,730	194	123	206	228	214
22	19	24	75	130	156	1,330	2,840	180	119	208	254	160
23	19	20	65	170	192	1,200	1,920	132	245	74	739	130
24	21	21	62	240	129	508	751	118	380	78	355	127
25	24	19	52	210	101	388	460	102	300	111	310	125
26	19	19	50	130	89	312	342	88	335	79	469	404
27	21	24	48	90	90	262	270	75	320	72	305	1,180
28	19	24	48	70	86	228	222	67	222	53	162	1,460
29	19	29	46	60	101	218	190	63	452	42	116	652
30	18	42	227	50	------	212	168	110	808	35	88	3,810
31	16	------	788	42	------	186	------	148	------	30	70	------
TOTAL	515.6	622	3,734	5,677	3,724	23,428	16,974	10,521	10,460	6,217	7,454	17,201
MEAN	16.6	20.7	120	183	128	756	566	339	349	201	240	573
MAX	38	42	788	1,020	646	3,460	2,840	1,630	2,050	1,250	2,040	3,810
MIN	6.3	14	23	42	26	158	129	63	41	30	23	31
CFSM	.04	.06	.32	.49	.35	2.04	1.53	.91	.94	.54	.65	1.54
IN.	.05	.06	.37	.57	.37	2.35	1.70	1.05	1.05	.62	.75	1.72

CAL YR 1971 TOTAL 64,980.2 MEAN 178 MAX 4,660 MIN 6.0 CFSM .48 IN 6.52
WTR YR 1972 TOTAL 106,527.6 MEAN 291 MAX 3,810 MIN 6.3 CFSM .78 IN 10.68

PEAK DISCHARGE (BASE, 4,700 CFS).--Sept. 30 (1830) 5,650 cfs (16.15 ft).

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 downstream from bridge on North Ridge Road, 3.5 miles southeast of Vermilion and 4.5 miles upstream from mouth.

DRAINAGE AREA.--262 sq mi.

PERIOD OF RECORD.--March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 595.14 ft above mean sea level. Prior to Aug. 3, 1953, non-recording gage at site 40 ft upstream at same datum.

AVERAGE DISCHARGE.--22 years, 226 cfs (11.72 inches per year).

EXTREMES.--Current record: Maximum discharge, 3,270 cfs Mar. 14; maximum gage height, 5.86 ft Feb. 16 (backwater from ice); minimum discharge, 1.6 cfs Oct. 5, 6.
Period of record: Maximum discharge, 40,800 cfs July 6, 1969 (gage height, 17.14 ft), from rating curve extended above 9,800 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.7	15	542	46	310	130	111	65	330	15	18
2	2.5	2.6	13	295	40	2,120	115	140	60	173	13	16
3	2.1	2.7	19	224	44	1,870	105	118	52	248	13	16
4	1.8	3.0	15	197	55	658	109	100	47	370	12	16
5	1.7	2.9	8.5	180	60	392	107	96	161	188	15	13
6	1.8	3.1	11	160	55	252	105	85	115	130	15	12
7	3.8	3.5	62	140	46	212	111	74	68	90	26	11
8	3.2	4.0	85	130	42	248	115	74	46	73	31	10
9	4.4	3.9	64	212	38	398	167	798	36	66	17	9.9
10	8.6	4.0	74	602	36	224	158	1,260	28	53	15	8.7
11	5.9	3.9	59	693	34	167	146	482	23	46	12	7.9
12	4.3	4.0	41	392	32	179	133	264	21	41	11	7.9
13	3.7	4.1	32	268	50	1,260	173	185	33	70	10	9.5
14	8.9	4.1	38	160	135	2,940	375	212	191	70	9.5	295
15	7.0	4.6	199	120	300	1,510	1,300	335	256	73	7.9	852
16	4.9	4.9	271	100	750	924	816	560	135	80	6.9	476
17	3.7	5.2	232	85	600	1,350	1,300	488	128	54	12	335
18	3.0	4.7	121	85	430	834	843	285	92	85	17	1,350
19	2.6	6.1	72	90	300	530	404	191	59	416	567	345
20	2.4	7.6	55	100	250	370	637	138	41	109	220	176
21	2.2	7.7	50	130	200	295	1,950	107	34	63	100	118
22	2.3	6.1	44	191	190	780	1,650	87	35	49	155	81
23	3.1	7.2	47	228	230	1,180	1,770	73	609	44	176	59
24	3.1	5.6	36	290	170	542	679	62	355	57	109	56
25	2.9	5.4	33	320	130	370	386	52	220	28	81	49
26	3.0	5.2	30	182	110	285	272	44	173	32	260	102
27	3.1	6.1	31	120	100	228	204	38	232	46	123	204
28	3.0	7.4	33	85	110	194	161	34	176	39	68	644
29	2.7	7.7	30	70	120	170	133	31	194	28	43	500
30	2.9	14	275	60	------	155	115	59	440	22	30	1,390
31	2.9	------	617	50	------	140	------	70	------	18	22	------
TOTAL	110.6	154.0	2,712.5	6,501	4,703	21,087	14,669	6,653	4,125	3,191	2,212.3	7,187.9
MEAN	3.57	5.13	87.5	210	162	680	489	215	138	103	71.4	240
MAX	8.9	14	617	693	750	2,940	1,950	1,260	609	416	567	1,390
MIN	1.7	2.6	8.5	50	32	140	105	31	21	18	6.9	7.9
CFSM	.01	.02	.33	.80	.62	2.60	1.87	.82	.53	.39	.27	.92
IN.	.02	.02	.39	.92	.67	2.99	2.08	.94	.59	.45	.31	1.02

CAL YR 1971 TOTAL 54,707.68 MEAN 150 MAX 3,400 MIN .90 CFSM .57 IN 7.77
WTR YR 1972 TOTAL 73,306.30 MEAN 200 MAX 2,940 MIN 1.7 CFSM .76 IN 10.41

PEAK DISCHARGE (BASE, 3,200 CFS).--Mar. 14 (0800) 3,270 cfs (5.77 ft).

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 mile downstream from confluence of East and West Branches.

DRAINAGE AREA.--396 sq mi.

PERIOD OF RECORD.--October 1944 to current year. Records for May 1903 to July 1960 (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 above mean sea level.

AVERAGE DISCHARGE.--28 years, 304 cfs (10.43 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,100 cfs Sept. 18 (gage height, 11.60 ft); minimum, 6.0 cfs Oct. 24.
Period of record: Maximum discharge, 51,700 cfs July 6, 1969 (gage height, 26.4 ft, from floodmark), from rating curve extended above 13,000 cfs 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	10	38	992	58	585	185	157	59	628	22	45
2	18	15	33	397	50	2,720	159	171	53	265	20	33
3	25	11	32	335	68	2,670	149	165	44	249	19	34
4	22	12	22	283	75	1,020	155	165	37	559	19	27
5	17	14	15	253	86	400	151	145	33	288	15	25
6	22	11	52	195	74	240	145	118	31	175	18	25
7	24	8.8	208	187	70	277	155	96	28	123	72	22
8	12	9.6	348	165	65	604	163	165	25	88	53	22
9	29	12	388	230	58	716	189	1,370	29	77	31	20
10	29	13	189	890	52	360	201	1,880	22	74	25	15
11	24	14	147	922	48	249	193	778	16	64	20	16
12	22	15	120	514	42	275	171	345	18	52	17	20
13	28	11	99	310	51	2,390	193	225	44	43	14	75
14	25	8.4	122	237	75	4,540	392	235	26	158	16	755
15	19	14	680	163	175	2,430	3,020	418	50	145	20	2,070
16	13	14	866	130	508	1,390	1,580	454	41	104	28	1,110
17	10	16	526	120	649	2,020	1,770	370	31	75	500	885
18	11	15	265	106	628	1,560	1,110	277	24	171	251	4,930
19	11	23	173	113	582	803	520	195	23	351	690	2,240
20	10	11	145	138	406	535	1,150	143	23	163	684	862
21	9.2	12	169	171	308	378	2,650	111	20	106	330	340
22	8.8	12	157	179	265	979	2,360	92	31	65	235	203
23	8.8	14	123	275	298	1,660	2,090	78	979	53	259	155
24	7.6	12	90	397	265	866	846	67	826	50	167	129
25	11	14	65	360	195	550	445	57	454	41	131	116
26	12	13	59	181	155	415	310	49	275	35	507	236
27	14	17	65	140	147	322	241	39	167	48	529	1,190
28	14	12	82	110	147	269	195	33	109	43	205	1,430
29	13	24	86	96	217	237	155	31	344	32	116	1,010
30	8.4	44	685	80	------	215	134	57	846	25	78	2,980
31	7.6	------	1,520	65	------	201	------	64	------	24	58	------
TOTAL	499.4	431.8	7,569	8,734	5,817	31,876	21,177	8,550	4,708	4,374	5,149	21,020
MEAN	16.1	14.4	244	282	201	1,028	706	276	157	141	166	701
MAX	29	44	1,520	992	649	4,540	3,020	1,880	979	628	690	4,930
MIN	7.6	8.4	15	65	42	201	134	31	16	24	14	15
CFSM	.04	.04	.62	.71	.51	2.60	1.78	.70	.40	.36	.42	1.77
IN.	.05	.04	.71	.82	.55	2.99	1.99	.80	.44	.41	.48	1.97

CAL YR 1971 TOTAL 82,172.7 MEAN 225 MAX 5,530 MIN 5.4 CFSM .57 IN 7.72
WTR YR 1972 TOTAL 119,905.2 MEAN 328 MAX 4,930 MIN 7.6 CFSM .83 IN 11.26

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	2000	8.63	3,440	4-15	1130	10.08	4,680
3-14	1000	10.18	4,770	9-18	1100	11.60	6,100

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 miles northwest of Berea.

DRAINAGE AREA.--267 sq mi.

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 above mean sea level (Cuyahoga County bench mark). Prior to Sept. 30, 1935, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--41 years, 252 cfs (12.82 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,670 cfs June 29 (gage height, 6.27 ft); minimum, 2.4 cfs June 12.
Period of record: Maximum discharge, 21,400 cfs Jan. 22, 1959 (gage height, 14.10 ft), from rating curve extended above 11,000 cfs on basis of contracted-opening measurement of peak flow; maximum gage height, 18.6 ft June 29, 1924 (backwater caused by tornado); minimum discharge, 0.2 cfs Sept. 2, 1932, Aug. 18, 19, 27, 28, 30, 31, 1933.
Flood of March 1913 reached a stage of 20.9 ft.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	17	284	435	50	1,380	163	197	82	681	29	46
2	29	18	130	317	44	3,180	150	295	211	367	25	37
3	20	16	85	344	55	1,300	138	306	99	1,230	27	58
4	15	20	54	256	65	595	167	235	34	799	30	46
5	13	17	50	220	75	373	167	167	17	467	27	30
6	14	18	218	190	65	216	138	131	11	588	25	25
7	68	19	1,040	184	60	262	193	105	9.5	355	105	24
8	48	17	908	135	55	1,090	221	154	6.2	226	71	25
9	102	19	316	251	50	448	180	1,220	5.1	202	60	24
10	250	20	198	807	46	262	171	975	7.3	251	46	22
11	141	19	218	501	44	207	154	409	6.2	240	39	20
12	60	20	214	289	42	415	123	202	3.2	146	30	36
13	35	21	136	207	50	2,750	251	146	17	112	27	150
14	26	21	244	180	120	2,880	339	216	25	135	48	450
15	21	22	1,640	140	550	1,320	4,180	311	66	119	262	1,400
16	20	23	884	110	938	1,130	1,950	256	150	95	105	750
17	17	23	311	95	409	1,620	1,730	193	74	216	610	600
18	15	22	187	90	422	965	739	150	20	295	474	3,400
19	15	39	140	100	428	543	461	105	8.4	714	467	1,480
20	16	31	169	120	226	355	2,020	69	3.6	171	588	508
21	17	36	330	160	197	317	1,340	46	6.2	71	188	250
22	18	40	226	221	391	1,300	1,800	32	22	44	573	184
23	17	32	133	361	367	1,240	1,170	30	2,560	44	391	142
24	20	29	108	391	207	573	588	18	1,330	48	180	142
25	20	28	92	300	131	480	397	20	1,120	39	105	163
26	20	26	102	138	142	409	295	17	673	32	251	765
27	20	42	152	112	127	379	231	13	322	48	367	1,800
28	19	75	202	79	146	284	180	8.4	180	50	221	790
29	19	119	190	74	657	216	150	4.0	3,450	46	119	501
30	17	385	1,290	65	------	245	135	20	2,720	39	79	3,500
31	16	------	1,600	55	------	211	------	44	------	32	60	------
TOTAL	1,188	1,234	11,851	6,927	6,159	26,945	19,921	6,094.4	13,238.7	7,902	5,629	17,368
MEAN	38.3	41.1	382	223	212	869	664	197	441	255	182	579
MAX	250	385	1,640	807	938	3,180	4,180	1,220	3,450	1,230	610	3,500
MIN	13	16	50	55	42	207	123	4.0	3.2	32	25	20
CFSM	.14	.15	1.43	.84	.79	3.25	2.49	.74	1.65	.96	.68	2.17
IN.	.17	.17	1.65	.97	.86	3.75	2.78	.85	1.84	1.10	.78	2.42

CAL YR 1971 TOTAL 77,988.8 MEAN 214 MAX 4,560 MIN 8.6 CFSM .80 IN 10.87
WTR YR 1972 TOTAL 124,457.1 MEAN 340 MAX 4,180 MIN 3.2 CFSM 1.27 IN 17.34

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	1800	4.78	4,150	6-29	1800	6.27	6,670
4-15	1300	6.14	6,430	9-30	1300	5.02	4,530
6-23	1500	5.05	4,580				

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 mile downstream from Black Brook.

DRAINAGE AREA.--151 sq mi.

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 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 miles downstream at different datum. Oct. 20, 1944, to Oct. 22, 1946, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--36 years, 196 cfs (17.63 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,900 cfs Mar. 4 (gage height, 5.75 ft); minimum, 18 cfs Oct. 5. Period of record: Maximum discharge, 3,670 cfs Jan. 23, 1959 (gage height, 8.11 ft), from rating curve extended above 2,600 cfs; minimum, 5.1 cfs Sept. 2, 1933.

REMARKS.--Records good. Flow regulated by East Branch Reservoir (usable capacity, 4,140 acre-ft) 14.6 miles upstream since 1939 and by LaDue Reservoir (usable capacity, 18.110 acre-ft) 9.8 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	40	209	446	110	277	208	164	106	333	24	55
2	28	39	235	524	96	646	200	164	54	277	32	52
3	25	39	235	479	95	1,420	195	178	44	241	48	51
4	21	42	209	402	117	1,770	193	183	39	210	56	52
5	19	48	177	333	100	1,320	190	178	35	185	58	51
6	25	54	202	284	110	1,040	190	166	34	173	56	50
7	67	59	347	235	120	686	190	160	31	162	56	48
8	98	68	533	218	110	668	180	148	42	154	64	47
9	116	71	646	178	110	619	170	208	50	142	76	47
10	140	71	605	173	100	637	164	271	52	128	89	48
11	145	73	515	180	100	547	158	354	60	117	98	49
12	143	74	418	188	110	479	150	336	64	107	98	50
13	135	74	340	195	116	511	150	294	73	109	92	58
14	127	70	287	198	128	731	154	253	84	102	84	81
15	113	70	358	180	150	1,050	247	220	101	104	73	96
16	89	70	406	170	170	1,160	398	195	128	125	66	109
17	68	68	450	150	200	1,120	765	166	138	126	63	156
18	51	65	450	130	198	1,010	935	144	138	128	60	253
19	42	65	394	128	208	845	845	130	126	142	58	195
20	33	72	340	142	215	673	718	119	107	150	58	168
21	27	87	294	162	198	529	592	106	82	152	60	142
22	25	107	256	180	195	462	547	94	56	148	58	112
23	24	118	223	205	205	442	542	81	68	138	61	84
24	31	116	208	215	173	442	542	94	106	128	62	58
25	40	100	200	229	168	438	502	123	152	114	62	48
26	44	87	185	220	164	406	426	117	247	95	62	63
27	46	85	175	213	210	358	343	114	422	73	61	121
28	45	105	185	193	148	315	280	109	493	53	63	126
29	43	129	198	170	166	277	232	104	458	40	64	142
30	41	183	262	150	------	250	190	107	394	34	63	315
31	41	------	354	130	------	226	------	110	------	28	60	------
TOTAL	1,923	2,349	9,896	7,000	4,290	21,354	10,596	5,190	3,984	4,218	1,985	2,927
MEAN	62.0	78.3	319	226	148	689	353	167	133	136	64.0	97.6
MAX	145	183	646	524	215	1,770	935	354	493	333	98	315
MIN	19	39	175	128	95	226	150	81	31	28	24	47
MEAN+	55.6	85.7	429	232	146	683	353	156	145	133	39.6	131
CFSM+	.37	.57	2.84	1.54	.97	4.52	2.34	1.03	.96	.88	.26	.87
IN.+	.42	.63	3.28	1.77	1.04	5.21	2.60	1.19	1.07	1.01	.30	.97

CAL YR 1971 TOTAL 72,403 MEAN 198 MAX 2,010 MIN 19 MEAN+ 198 CFSM+ 1.31 IN.+ 17.79
WTR YR 1972 TOTAL 75,712 MEAN 207 MAX 1,770 MIN 19 MEAN+ 217 CFSM+ 1.44 IN.+ 19.52

+ Adjusted for change in contents of East Branch and LaDue Reservoirs.

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 downstream from Mogadore Reservoir, 0.8 mile upstream from Wingfoot Lake Outlet, and 0.8 mile north of Mogadore.

DRAINAGE AREA.--17.3 sq mi, includes unnamed tributary 0.2 mile downstream.

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

GAGE.--Water-stage recorder. Datum of gage is 1,058.74 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--26 years, 12.9 cfs.

EXTREMES.--Current year: Maximum discharge, 149 cfs Apr. 20 (gage height, 4.25 ft); minimum, 1.0 cfs Aug. 8, 9. Period of record: Maximum discharge, 167 cfs Mar. 10, 1964 (gage height, 3.75 ft); maximum gage height, 4.30 ft Jan. 21, 1959 (backwater from aquatic growth); minimum discharge, 0.10 cfs Oct. 29, 30, 31, 1967.

REMARKS.--Records fair. Flow regulated by Mogadore Reservoir (usable capacity, 6,540 acre-ft). 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	5.8	23	35	7.2	32	26	24	9.1	10	5.5	4.2
2	12	6.4	22	32	7.2	48	24	24	11	9.8	6.8	3.9
3	13	6.4	20	30	8.7	41	24	25	9.8	24	8.3	3.9
4	12	5.2	20	29	9.8	37	22	23	8.7	22	8.7	7.9
5	9.4	4.5	20	29	8.3	34	22	21	8.3	24	15	11
6	8.7	4.5	42	25	8.3	30	20	20	7.9	24	14	7.9
7	9.8	5.2	65	22	8.7	34	26	19	6.8	22	1.5	5.5
8	8.7	3.9	71	20	7.9	41	24	24	6.4	21	1.2	4.2
9	11	3.6	59	20	7.5	34	20	51	6.4	21	1.0	3.1
10	16	3.6	51	22	7.2	33	19	36	6.8	27	2.2	2.4
11	11	3.6	44	20	6.8	31	18	31	5.8	23	3.9	1.7
12	9.4	3.6	40	18	6.8	33	17	28	5.5	22	4.8	2.2
13	9.1	3.6	35	18	10	74	68	26	8.7	21	5.2	7.5
14	8.7	3.3	38	16	12	89	51	27	8.3	21	5.2	19
15	8.3	3.6	64	15	15	71	79	24	8.3	24	5.2	12
16	8.3	3.6	49	13	14	76	83	20	9.8	40	4.8	9.1
17	7.9	3.9	42	12	12	74	79	19	8.7	33	6.8	8.7
18	7.9	4.2	38	12	12	61	65	18	8.3	28	6.1	18
19	7.5	5.8	34	12	12	51	57	16	7.9	26	7.2	13
20	6.8	5.8	35	12	12	45	105	15	7.5	24	6.1	11
21	6.8	6.8	32	12	12	42	83	15	7.5	22	5.5	7.9
22	6.8	12	29	12	16	51	87	13	7.5	20	5.2	9.1
23	7.2	14	26	15	12	44	84	12	14	19	5.5	9.8
24	7.5	14	24	13	12	41	55	12	12	18	4.8	11
25	8.7	15	23	13	12	38	48	11	17	17	4.2	9.8
26	7.9	15	23	11	15	35	39	9.4	13	16	6.1	25
27	7.5	17	24	9.4	13	33	32	8.3	12	17	5.5	23
28	6.8	20	26	9.8	16	30	27	7.9	11	15	5.2	17
29	6.8	23	23	9.1	22	30	24	7.5	12	22	4.5	16
30	6.4	32	70	8.7	------	30	24	9.8	12	14	4.2	66
31	6.1	------	49	7.9	------	28	------	10	------	10	4.2	------
TOTAL	281.0	258.9	1,161	532.9	323.4	1,371	1,352	606.9	278.0	656.8	174.4	350.8
MEAN	9.06	8.63	37.5	17.2	11.2	44.2	45.1	19.6	9.27	21.2	5.63	11.7
MAX	17	32	71	35	22	89	105	51	17	40	15	66
MIN	6.1	3.3	20	7.9	6.8	28	17	7.5	5.5	9.8	1.0	1.7

CAL YR 1971 TOTAL 5,169.8 MEAN 14.2 MAX 91 MIN 1.0
WTR YR 1972 TOTAL 7,347.1 MEAN 20.1 MAX 105 MIN 1.0

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 downstream from bridge on Massillon Road in Akron and 250 ft upstream from Springfield Lake Outlet.

DRAINAGE AREA.--31.6 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,005.20 ft above mean sea level (city of Akron bench mark).

AVERAGE DISCHARGE.--26 years, 26.6 cfs.

EXTREMES.--Current year: Maximum discharge, 246 cfs Apr. 20 (gage height, 1.94 ft); minimum, 5.8 cfs Nov. 15 (gage height, 0.39 ft).
Period of record: Maximum discharge, 891 cfs Jan. 21, 1959 (gage height, 3.99 ft); minimum, 1.6 cfs Oct. 3, 19, 1963; minimum gage height, 0.16 ft Sept. 24, 1964, July 16, 1965.

REMARKS.--Records good. Flow regulated by Mogadore Reservoir 4.5 miles upstream (usable capacity, 6,540 acre-ft) and Wingfoot Lake 7.2 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.0	28	58	20	58	39	39	27	18	13	7.9
2	12	10	23	55	21	91	38	39	28	17	14	7.7
3	11	8.8	21	50	27	68	37	43	20	82	15	8.0
4	12	7.7	19	49	24	56	37	38	16	53	16	9.2
5	11	7.6	19	50	21	48	34	35	15	47	16	15
6	12	8.0	62	42	21	43	30	33	15	45	24	11
7	15	8.1	93	37	21	49	43	30	14	35	13	8.8
8	10	7.6	83	32	20	69	36	44	14	38	11	8.2
9	21	7.5	66	35	21	50	31	111	17	39	10	8.7
10	21	7.2	58	40	20	47	30	64	15	59	11	7.6
11	15	7.5	51	38	19	44	29	49	12	43	12	7.2
12	12	6.9	45	33	20	52	27	42	12	38	12	11
13	11	6.6	39	31	30	139	99	41	29	35	12	49
14	10	6.3	50	30	31	142	65	46	19	37	12	79
15	9.9	6.6	89	25	36	105	105	42	19	51	11	30
16	14	6.9	63	23	31	127	105	38	22	103	9.2	18
17	14	7.2	51	23	27	127	105	37	16	71	16	18
18	15	7.2	44	23	28	99	75	35	15	58	11	62
19	10	9.4	40	26	25	81	66	32	15	50	18	30
20	8.6	9.4	41	25	22	71	179	30	14	44	11	24
21	8.7	11	41	25	27	68	117	29	17	38	9.6	17
22	8.6	12	34	29	34	91	133	29	16	34	9.4	17
23	13	14	30	33	26	78	93	27	38	31	10	19
24	13	15	27	31	24	68	73	25	30	29	9.9	22
25	11	16	26	30	24	63	62	24	37	26	9.2	18
26	9.8	16	26	24	34	58	53	22	26	23	14	78
27	9.1	19	29	23	29	53	49	18	21	28	9.9	61
28	8.6	22	33	23	32	50	43	17	22	23	9.5	33
29	8.7	31	28	22	48	49	39	16	34	38	9.0	28
30	8.0	48	121	21	------	50	37	30	22	22	8.5	173
31	7.8	------	81	21	------	45	------	24	------	14	8.1	------
TOTAL	365.8	358.5	1,461	1,007	763	2,239	1,909	1,129	617	1,269	374.3	886.3
MEAN	11.8	12.0	47.1	32.5	26.3	72.2	63.6	36.4	20.6	40.9	12.1	29.5
MAX	21	48	121	58	48	142	179	111	38	103	24	173
MIN	7.8	6.3	19	21	19	43	27	16	12	14	8.1	7.2

CAL YR 1971 TOTAL 9,293.7 MEAN 25.5 MAX 173 MIN 4.8
WTR YR 1972 TOTAL 12,378.9 MEAN 33.8 MAX 179 MIN 6.3

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 miles downstream from Springfield Lake in Akron, and 0.3 mile upstream from mouth.

DRAINAGE AREA.--9.72 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,015.34 ft above mean sea level (city of Akron bench mark).

AVERAGE DISCHARGE.--26 years, 5.49 cfs.

EXTREMES.--Current year: Maximum discharge, 100 cfs Apr. 13 (gage height, 2.26 ft); maximum gage height, 2.28 ft Jan. 16 (backwater from ice); minimum discharge, 0.20 cfs Oct. 30 (gage height, 1.11 ft).
Period of record: Maximum discharge, 519 cfs Jan. 21, 1959 (gage height, 3.42 ft), from rating curve extended above 95 cfs; maximum gage height, 3.57 ft, probably occurred Feb. 5, 1971 (backwater from ice); no flow at times in 1953-54, 1961-67, 1970.

REMARKS.--Records good. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	.25	3.8	6.6	2.4	13	9.8	11	7.7	2.0	5.4	2.1
2	.56	.86	2.2	6.9	2.8	22	9.8	10	7.7	1.5	5.4	2.1
3	.49	.36	1.6	5.4	3.2	13	9.0	13	5.6	36	5.4	2.1
4	.42	.30	1.4	5.6	2.8	10	9.0	16	4.6	11	5.1	2.1
5	.36	.25	1.4	6.2	2.5	8.1	8.1	9.4	4.1	9.0	4.8	1.8
6	.49	.49	1.1	4.6	2.5	6.6	7.7	8.1	3.8	6.9	4.8	1.6
7	1.1	.56	17	4.2	2.5	9.8	12	8.1	3.8	5.4	4.8	1.6
8	.56	.30	9.4	4.0	2.4	15	9.0	12	3.4	6.6	4.8	1.6
9	3.3	.42	5.1	4.8	2.2	9.0	7.7	30	3.8	7.2	4.6	1.6
10	2.4	.56	4.1	5.4	2.2	7.7	7.7	15	1.8	14	4.6	1.5
11	1.1	.64	3.6	5.1	2.1	7.7	7.3	11	1.4	9.0	3.6	1.5
12	.92	.64	2.6	4.6	2.0	10	6.9	9.0	1.4	11	2.6	2.6
13	.64	.64	2.2	4.0	1.8	42	44	7.7	5.4	9.8	2.4	12
14	.64	.73	7.0	3.4	1.5	34	19	10	2.4	9.8	2.4	21
15	.56	.82	16	3.0	7.3	23	30	8.5	4.5	13	2.6	5.4
16	.49	.56	6.6	2.8	9.0	31	26	7.7	4.1	30	2.2	3.8
17	.36	.49	4.1	2.8	6.9	30	23	7.7	2.2	15	5.7	3.4
18	.36	.49	3.0	3.0	5.0	23	15	6.9	1.6	13	2.8	13
19	.30	1.8	2.6	3.2	3.8	19	13	6.9	1.4	12	6.7	4.6
20	.30	.92	3.0	3.4	3.3	16	44	6.6	1.2	11	3.0	3.4
21	.25	1.8	3.0	3.6	4.5	16	25	6.2	2.8	10	2.6	2.8
22	.36	1.4	2.2	3.8	4.0	23	29	5.6	2.2	9.8	2.4	2.2
23	.36	1.4	2.0	3.8	3.7	19	20	5.4	7.3	9.8	2.6	3.0
24	.49	1.2	2.1	3.6	3.6	16	16	5.4	4.4	9.4	2.4	3.4
25	.49	1.6	2.0	3.0	4.0	14	14	5.4	5.6	8.1	2.2	2.8
26	.30	1.4	2.2	2.8	4.6	13	12	4.8	3.4	7.7	3.9	17
27	.30	2.4	2.4	2.7	5.1	12	11	4.1	2.4	9.8	2.4	9.8
28	.25	2.4	3.8	2.7	6.2	11	10	4.1	3.4	7.3	2.4	5.9
29	.25	4.1	2.6	3.0	9.4	11	9.8	3.8	7.7	6.2	2.2	4.8
30	.25	7.7	29	1.8	------	10	9.8	9.3	2.4	5.9	2.1	44
31	.25	------	11	2.4	------	9.4	------	5.6	------	5.6	2.1	------
TOTAL	19.54	37.48	160.1	122.2	113.3	504.3	474.6	274.3	113.5	322.8	111.0	184.5
MEAN	.63	1.25	5.16	3.94	3.91	16.3	15.8	8.85	3.78	10.4	3.58	6.15
MAX	3.3	7.7	29	6.9	9.4	42	44	30	7.7	36	6.7	44
MIN	.25	.25	1.1	1.8	1.5	6.6	6.9	3.8	1.2	1.5	2.1	1.5

CAL YR 1971 TOTAL 1,485.89 MEAN 4.07 MAX 55 MIN .12
WTR YR 1972 TOTAL 2,437.62 MEAN 6.66 MAX 44 MIN .25

04206000 Cuyahoga River at Old Portage, Ohio

LOCATION.--Lat 41°08'08", long 81°32'50", Summit County, on right bank 230 ft upstream from North Portage Path bridge at Old Portage, 1.2 miles downstream from Little Cuyahoga River, and 4 miles northwest of Akron City Hall.

DRAINAGE AREA.--404 sq mi.

PERIOD OF RECORD.--September 1921 to December 1935, March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 740.11 ft above mean sea level, unadjusted. Prior to Dec. 21, 1923, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--47 years, 404 cfs.

EXTREMES.--Current year: Maximum discharge, 3,280 cfs June 28 (gage height, 8.74 ft); minimum, 50 cfs Nov. 18. Period of record: Maximum discharge, 6,500 cfs Jan. 21, 1959 (gage height, 11.54 ft), from rating curve extended above 3,900 cfs on basis of contracted-opening estimate of peak flow at site with drainage area of 488 sq mi adjusted to gaging station by drainage-area relation; minimum, 14 cfs Aug. 27, 1944.

REMARKS.--Records good. Natural flow of stream affected by diversions, storage reservoirs and power plants. At Lake Rockwell, 17.7 miles upstream from gage, an average of 75 cfs was diverted for municipal supply of city of Akron. Sewage from city enters river 2.9 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	72	476	1,050	208	746	485	449	225	589	126	79
2	133	88	395	976	199	1,400	476	431	235	488	124	81
3	126	81	371	1,000	230	1,540	473	470	184	784	124	79
4	91	77	359	932	240	1,610	458	452	155	554	133	72
5	77	69	332	828	182	1,980	440	416	144	561	113	81
6	75	66	599	652	216	1,800	404	380	148	506	111	75
7	97	81	1,220	522	233	1,480	473	356	139	446	115	71
8	79	74	1,340	470	211	1,460	425	437	124	458	133	69
9	159	69	1,230	449	201	1,260	401	872	141	467	119	69
10	161	72	1,190	449	194	1,060	395	848	141	519	148	64
11	115	71	1,130	443	192	1,020	362	694	107	401	139	61
12	107	69	968	416	196	1,060	314	673	101	335	95	111
13	107	66	780	407	270	1,510	690	624	218	290	90	389
14	146	63	768	407	311	1,850	526	631	161	285	103	533
15	144	64	1,100	332	341	1,860	1,420	589	182	413	103	258
16	144	61	1,150	248	377	2,080	2,170	568	225	554	109	161
17	144	61	912	238	377	2,270	1,790	482	240	494	213	159
18	141	60	852	245	404	2,040	1,580	419	230	428	159	1,040
19	137	86	820	265	383	1,690	1,560	359	230	470	225	876
20	133	77	772	263	332	1,450	2,070	326	211	540	155	458
21	130	97	697	275	368	1,220	1,710	305	206	561	107	335
22	128	113	599	298	416	1,240	1,580	295	189	485	117	273
23	90	144	485	377	377	1,170	1,500	189	341	422	133	270
24	84	166	422	407	401	996	1,300	161	323	401	117	285
25	84	180	392	413	371	912	1,100	155	395	335	113	250
26	107	189	392	344	395	864	960	148	383	263	182	645
27	86	192	380	332	341	796	812	135	401	265	122	529
28	67	204	416	314	389	694	718	122	832	213	113	404
29	72	308	386	273	506	627	589	115	1,030	189	99	359
30	74	467	1,050	253	------	592	491	206	697	155	86	1,450
31	74	------	1,260	230	------	522	------	199	------	137	81	------
TOTAL	3,453	3,487	23,243	14,108	8,861	40,799	27,672	12,506	8,338	13,008	3,907	9,586
MEAN	111	116	750	455	306	1,316	922	403	278	420	126	320
MAX	161	467	1,340	1,050	506	2,270	2,170	872	1,030	784	225	1,450
MIN	67	60	332	230	182	522	314	115	101	137	81	61

CAL YR 1971 TOTAL 135,461 MEAN 371 MAX 2,890 MIN 52
WTR YR 1972 TOTAL 168,968 MEAN 462 MAX 2,270 MIN 60

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 miles upstream from mouth.

DRAINAGE AREA.--83.9 sq mi.

PERIOD OF RECORD.--November 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 876.18 ft above mean sea level.

AVERAGE DISCHARGE.--9 years (1963-72), 108 cfs (17.49 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,170 cfs June 23 (gage height, 6.64 ft); minimum, 11 cfs Sept. 11. Period of record: Maximum discharge, 7,220 cfs July 20, 1969 (gage height, 10.10 ft) from rating curve extended above 3,400 cfs on the basis of contracted-opening measurement of peak flow; minimum, 5.2 cfs Aug. 19, 1963.

REMARKS.--Records good except for 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 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	19	170	290	30	724	79	102	40	129	19	18
2	20	21	120	210	28	1,060	81	133	49	74	19	16
3	16	20	95	180	46	739	81	121	34	98	19	23
4	16	20	85	170	59	506	104	104	26	78	18	18
5	16	20	80	160	55	264	88	76	22	183	16	17
6	26	22	200	150	42	140	73	59	20	124	16	16
7	119	27	480	120	45	205	88	62	19	73	52	16
8	37	24	460	100	42	352	82	174	16	52	58	16
9	226	24	310	110	40	313	72	900	20	74	26	16
10	160	22	250	130	38	185	68	542	17	119	23	14
11	82	22	230	140	38	131	67	352	14	62	19	15
12	45	20	180	110	38	144	60	135	15	45	18	52
13	31	20	160	90	120	605	91	88	78	48	16	78
14	27	18	190	80	140	858	81	98	87	67	18	230
15	24	20	490	58	274	802	941	88	231	62	21	96
16	21	22	310	55	243	746	1,200	76	177	109	18	53
17	19	20	220	50	209	512	893	68	119	112	102	69
18	19	20	190	47	180	475	460	60	56	99	40	618
19	19	24	160	55	140	274	212	50	47	224	106	374
20	18	30	150	75	109	169	379	40	36	108	42	378
21	17	32	160	70	112	142	310	35	38	54	34	190
22	18	36	140	71	172	397	640	36	44	40	163	76
23	26	44	120	118	133	360	387	32	903	64	85	52
24	21	46	100	120	107	316	271	26	937	74	40	63
25	25	50	85	110	89	215	151	24	501	38	29	54
26	24	55	90	64	86	172	115	21	285	30	26	358
27	22	60	95	58	70	151	89	18	163	33	30	296
28	22	80	110	43	130	125	73	16	91	29	108	236
29	20	120	100	39	369	109	62	16	480	24	29	151
30	20	240	250	36	------	111	56	65	208	21	22	685
31	19	------	340	32	------	91	------	50	------	19	20	------
TOTAL	1,198	1,198	6,120	3,141	3,184	11,393	7,354	3,667	4,773	2,366	1,252	4,294
MEAN	38.6	39.9	197	101	110	368	245	118	159	76.3	40.4	143
MAX	226	240	490	290	369	1,060	1,200	900	937	224	163	685
MIN	16	18	80	32	28	91	56	16	14	19	16	14
CFSM	.46	.48	2.35	1.20	1.31	4.39	2.92	1.41	1.90	.91	.48	1.70
IN.	.53	.53	2.71	1.39	1.41	5.05	3.26	1.63	2.12	1.05	.56	1.90

CAL YR 1971 TOTAL 37,313 MEAN 102 MAX 1,370 MIN 11 CFSM 1.22 IN 16.54
WTR YR 1972 TOTAL 49,940 MEAN 136 MAX 1,200 MIN 14 CFSM 1.62 IN 22.14

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-16	1400	6.27	1,670	6-29	1430	6.69	1,770
6-23	1100	6.64	2,170				

NOTE.--No gage-height record Nov. 9 to Jan. 14.

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 mile upstream from Rockside Road and 0.8 mile 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 above mean sea level. Prior to Dec. 9, 1946, nonrecording gage, or water-stage recorder at site 0.4 mile 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 cfs 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 miles 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	30	72	77	60	84	70	58	64	83	71	67
2	50	32	68	75	60	95	69	62	67	78	70	66
3	49	34	66	75	63	85	69	60	66	87	71	66
4	49	42	66	74	65	80	70	59	63	83	72	66
5	50	53	66	74	62	78	69	58	62	82	74	66
6	51	53	69	71	61	78	68	57	62	83	73	67
7	49	54	74	70	62	78	71	56	63	76	74	67
8	26	54	64	68	62	85	70	58	62	74	75	67
9	30	54	75	70	61	76	69	81	62	74	74	67
10	36	54	74	75	62	74	68	68	64	64	73	67
11	29	55	74	71	62	72	68	60	62	68	74	67
12	27	54	71	69	62	74	67	57	62	70	71	68
13	27	55	69	69	70	81	72	56	65	76	70	75
14	27	55	75	69	77	84	72	57	70	75	69	83
15	28	55	90	66	81	91	79	56	72	78	70	82
16	28	55	84	61	77	83	72	56	79	84	70	75
17	29	55	78	60	71	80	89	54	71	88	77	74
18	28	55	74	63	72	88	79	53	69	84	76	90
19	29	57	73	67	69	85	76	52	68	97	77	84
20	29	57	74	66	66	82	76	50	68	84	76	83
21	29	58	75	66	65	80	68	49	67	83	70	78
22	29	60	72	65	70	89	94	48	68	82	72	75
23	29	59	70	70	66	85	85	48	66	79	80	73
24	28	61	68	69	65	80	78	59	61	82	72	77
25	28	61	67	68	65	78	70	61	81	77	70	76
26	29	62	67	65	66	77	67	61	73	75	72	88
27	30	64	69	64	64	76	63	60	67	75	75	95
28	31	65	70	63	67	75	61	60	66	75	71	87
29	31	67	69	62	76	73	60	59	94	74	69	82
30	32	80	88	62	------	74	58	61	61	72	68	85
31	30	------	83	62	------	71	------	66	------	70	68	------
TOTAL	1,048	1,650	2,254	2,106	1,929	2,491	2,147	1,800	2,025	2,432	2,244	2,263
MEAN	33.8	55.0	72.7	67.9	66.5	80.4	71.6	58.1	67.5	78.5	72.4	75.4
MAX	51	80	90	77	81	95	94	81	94	97	80	95
MIN	26	30	64	60	60	71	58	48	61	64	68	66

CAL YR 1971 TOTAL 23,463.6 MEAN 64.3 MAX 112 MIN 2.2
WTR YR 1972 TOTAL 24,389.0 MEAN 66.6 MAX 97 MIN 26

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 downstream from bridge on Old Rockside Road, 0.8 mile northeast of Independence, and 3.0 miles downstream from Tinkers Creek.

DRAINAGE AREA.--707 sq mi.

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 above mean sea level. Sept. 21, 1903, to July 21, 1906, nonrecording gage at bridge 240 ft upstream at present datum. Sept. 28, 1921, to May 30, 1923, nonrecording gage at bridge 240 ft upstream at datum 2.42 ft 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 upstream and at present datum.

AVERAGE DISCHARGE.--41 years, (1921-22, 1927-35, 1940-72), 752 cfs (not including flow in Ohio Canal).

EXTREMES.--Current year: Maximum discharge, 8,750 cfs Apr. 15 (gage height, 15.05 ft); minimum, 61 cfs Sept. 10, 11.
Period of record: Maximum discharge, 24,800 cfs Jan. 22, 1959 (gage height, 22.41 ft), from rating curve extended above 17,000 cfs on basis of contracted-opening measurement of peak flow; minimum, 14 cfs Nov. 30, 1930; minimum daily, 21 cfs Aug. 28, 1933; minimum combined daily discharge of river and canal, 55 cfs 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 miles above station, bypasses station. These records do not include flow in canal except above about 15,000 cfs, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	338	198	1,290	2,060	413	2,610	951	859	386	1,340	198	129
2	289	230	998	1,640	398	4,560	949	989	627	914	192	118
3	261	237	792	1,560	534	3,290	901	1,000	428	1,660	195	115
4	237	198	682	1,480	659	2,720	942	894	343	1,210	182	103
5	205	182	646	1,430	455	2,480	859	787	289	1,290	172	95
6	198	169	2,290	1,160	436	2,400	792	699	283	1,280	142	115
7	521	216	4,050	986	457	2,210	964	669	275	854	195	110
8	310	185	3,770	838	435	3,010	867	768	247	755	300	105
9	700	185	2,440	921	407	2,180	782	3,390	238	734	198	105
10	1,020	189	1,970	1,190	389	1,730	767	2,240	306	1,230	175	90
11	489	185	1,930	1,050	383	1,480	744	1,620	222	763	209	76
12	358	179	1,570	883	400	1,590	647	1,210	192	595	151	205
13	307	172	1,270	857	791	3,570	1,140	1,050	413	516	129	595
14	307	163	1,580	834	1,130	4,910	1,060	1,110	468	514	118	1,520
15	318	185	4,060	647	1,510	3,790	6,090	997	692	547	163	895
16	307	189	2,560	570	1,380	3,580	5,160	996	1,050	998	139	425
17	300	179	1,900	550	1,130	4,210	4,610	879	564	1,040	498	416
18	289	169	1,470	550	1,060	3,480	2,910	769	432	824	342	3,510
19	300	244	1,270	714	973	2,740	2,340	666	377	1,640	561	2,380
20	286	258	1,330	623	757	2,160	3,820	590	391	825	358	1,480
21	279	293	1,360	614	754	1,850	3,320	543	343	750	216	873
22	282	374	1,120	598	1,120	2,780	4,230	512	388	660	471	578
23	289	370	901	926	873	2,300	2,960	462	4,260	595	552	449
24	237	395	757	902	834	1,850	2,290	354	2,430	750	265	591
25	244	426	677	933	775	1,710	1,820	322	1,900	498	212	477
26	251	444	727	697	800	1,540	1,530	296	1,100	408	307	1,770
27	261	605	779	605	697	1,480	1,290	272	819	399	310	2,100
28	230	775	907	574	812	1,310	1,120	244	787	358	314	1,200
29	205	1,030	784	505	1,620	1,180	971	222	5,340	296	209	865
30	212	2,080	2,810	455	------	1,250	844	362	3,270	251	163	4,740
31	202	------	2,880	415	------	1,060	------	598	------	209	145	------
TOTAL	10,032	10,704	51,570	27,767	22,382	77,010	57,670	26,369	28,860	24,703	7,781	26,230
MEAN	324	357	1,664	896	772	2,484	1,922	851	962	797	251	874
MAX	1,020	2,080	4,060	2,060	1,620	4,910	6,090	3,390	5,340	1,660	561	4,740
MIN	198	163	646	415	383	1,060	647	222	192	209	118	76

CAL YR 1971 TOTAL 295,673 MEAN 810 MAX 6,610 MIN 139
WTR YR 1972 TOTAL 371,078 MEAN 1,014 MAX 6,090 MIN 76

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 downstream from city waterworks dam, 800 ft downstream from East Branch, 1.0 mile southeast of Willoughby, and 5.0 miles upstream from mouth.

DRAINAGE AREA.--246 sq mi.

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 594.24 ft above mean sea level. Prior to Dec. 20, 1939, non-recording gage 150 ft upstream at datum 7 ft higher.

AVERAGE DISCHARGE.--43 years, 315 cfs (17.39 inches per year) adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 9,720 cfs June 23 (gage height, 11.68 ft); minimum, 10 cfs Sept. 6 (temporary regulation).
Period of record: Maximum discharge, 28,000 cfs Mar. 22, 1948 (gage height, 17.95 ft, from high-water mark in well), from rating curve extended above 14,000 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 3.0 cfs July 25, 26, 1934.
Flood in March 1913 reached a stage of 10.3 ft, from floodmark, former site and datum (discharge, 24,500 cfs).

REMARKS.--Records good. Water diverted at dam just above 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	52	679	574	95	2,740	220	195	195	405	55	49
2	67	52	390	470	90	4,830	238	690	145	250	57	49
3	63	57	311	420	226	1,700	275	415	121	279	62	55
4	57	90	262	345	415	768	345	275	98	279	55	53
5	55	99	246	320	258	470	311	213	85	476	66	49
6	58	99	1,800	238	180	311	246	185	80	514	46	44
7	274	133	3,510	210	150	481	246	178	83	262	1,100	39
8	164	113	2,080	180	120	1,520	227	266	75	209	355	42
9	261	124	882	292	100	630	209	2,720	93	178	171	48
10	705	121	608	558	90	405	202	936	106	262	130	48
11	259	174	618	448	80	385	185	437	83	209	106	49
12	159	127	470	302	90	613	167	293	73	178	80	90
13	118	98	365	274	330	1,540	275	238	227	238	73	181
14	107	83	525	306	635	2,950	227	311	234	174	66	726
15	93	83	2,280	167	744	1,470	2,560	284	181	167	68	234
16	95	90	1,020	140	738	1,150	2,180	275	390	330	60	121
17	92	85	542	130	525	1,420	1,590	234	171	405	60	98
18	78	80	375	120	448	792	744	227	115	284	73	786
19	71	127	302	150	365	531	509	199	93	1,580	73	432
20	67	167	385	170	242	432	997	164	109	395	68	167
21	63	262	459	220	270	355	768	151	90	213	55	109
22	64	302	325	292	448	1,170	1,460	139	133	164	55	85
23	72	195	238	591	320	954	972	127	4,890	160	199	78
24	76	167	216	476	284	547	536	115	4,150	145	100	103
25	78	167	206	552	238	487	360	106	2,780	109	71	93
26	81	178	320	258	230	476	266	90	990	93	60	481
27	75	284	426	190	202	405	230	83	547	85	83	1,050
28	67	531	437	160	227	288	202	78	330	80	133	400
29	60	602	355	130	624	250	185	75	1,030	75	98	220
30	54	1,530	2,470	110	------	311	167	136	1,440	71	64	2,220
31	51	------	1,260	100	------	250	------	213	------	60	53	------
TOTAL	3,661	6,272	24,362	8,893	8,764	30,631	17,099	10,048	19,137	8,329	3,795	8,199
MEAN	118	209	786	287	302	988	570	324	638	269	122	273
MAX	705	1,530	3,510	591	744	4,830	2,560	2,720	4,890	1,580	1,100	2,220
MIN	51	52	206	100	80	250	167	75	73	60	46	39
MEAN+	122	213	790	291	306	992	573	328	642	273	127	277
CFSM+	.50	.87	3.21	1.18	1.24	4.03	2.33	1.33	2.61	1.11	.52	1.13
IN.+	.57	.97	3.70	1.36	1.34	4.65	2.60	1.54	2.91	1.28	.59	1.26

CAL YR 1971 TOTAL 117,794 MEAN 323 MAX 4,800 MIN 27 MEAN+ 327 CFSM+ 1.33 IN.+ 18.04
WTR YR 1972 TOTAL 149,190 MEAN 408 MAX 4,890 MIN 39 MEAN+ 412 CFSM+ 1.67 IN.+ 22.77

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2330	7.42	4,060	6-23	1130	11.68	9,720
12-7	1830	8.30	5,030	6-24	1800	11.04	8,760
12-30	1400	8.23	4,950	6-29	2330	7.85	4,540
3-2	0330	8.86	5,720	8-7	0930	7.50	4,060

+ Adjusted for municipal supply diversion to city of Willoughby.

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 miles northwest of Jefferson, and 3.5 miles downstream from Griggs Creek.

DRAINAGE AREA.--82.0 sq mi.

PERIOD OF RECORD.--March 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 822.59 ft 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 mile upstream.

AVERAGE DISCHARGE.--30 years, 106 cfs (17.56 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 3,900 cfs Mar. 2 (gage height, 9.58 ft); minimum daily discharge, 0.10 cfs many days.
Period of record: Maximum discharge, 9,810 cfs Jan. 22, 1959 (gage height, 12.50 ft), from rating curve extended above 3,700 cfs on basis of contracted-opening measurement of peak flow; no flow at times.

REMARKS.--Records good except those below 1 cfs which are fair. Water diverted 0.2 mile upstream from station for part of municipal supply of city of Jefferson. Mean diversion for 1972 water year, 0.17 cfs. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.10	372	267	24	583	40	17	16	51	.38	.10
2	1.3	.10	168	144	21	2,940	37	80	14	29	.18	.10
3	1.3	.10	107	123	37	1,030	35	156	19	34	.10	.10
4	1.3	.10	78	104	135	412	42	115	61	104	.10	.10
5	1.3	11	68	88	158	198	56	58	28	60	.10	.10
6	1.3	13	315	55	156	100	48	36	15	188	.10	.10
7	3.1	24	1,040	42	124	162	42	26	7.5	160	25	.10
8	1.4	22	1,030	33	100	758	41	25	4.5	68	28	.10
9	9.2	20	395	32	82	430	36	311	3.7	36	15	.10
10	36	19	205	108	67	183	36	398	3.1	44	8.0	.10
11	19	35	176	195	56	104	34	138	2.4	69	4.3	.10
12	11	30	142	140	50	160	27	60	8.0	38	3.1	.10
13	4.9	20	95	94	64	398	176	35	9.8	27	2.2	.10
14	2.6	14	74	69	130	845	176	29	30	19	1.7	25
15	1.7	8.7	416	30	230	502	358	29	107	28	.66	22
16	1.2	5.5	578	30	310	376	790	43	251	61	.38	21
17	.38	3.6	235	28	339	686	933	53	254	20	.38	14
18	.10	2.4	120	26	251	333	284	56	87	161	.38	9.4
19	.10	3.6	76	232	172	180	122	45	38	599	.38	4.9
20	.10	9.4	84	329	124	126	209	31	21	178	.18	3.1
21	.10	86	215	235	98	90	365	21	14	61	.10	2.2
22	.10	143	176	164	124	244	225	16	16	27	.10	2.0
23	.10	88	80	341	132	445	287	12	1,110	14	.10	1.5
24	.10	55	59	305	99	189	153	8.7	1,840	6.5	.10	2.0
25	.10	43	46	405	75	148	87	6.5	1,800	3.7	.10	1.7
26	.10	50	131	216	61	134	52	4.9	844	2.5	.10	11
27	.10	83	243	116	49	128	36	3.9	359	2.0	.10	33
28	.10	178	225	69	45	93	25	3.4	144	1.0	.10	52
29	.10	186	182	46	64	65	19	3.0	74	.66	.10	38
30	.10	507	495	37	------	56	16	8.7	83	.66	.10	496
31	.10	------	800	29	------	51	------	10	------	.38	.10	------
TOTAL	99.88	1,660.60	8,426	4,132	3,377	12,149	4,787	1,839.1	7,264.0	2,093.40	91.72	740.10
MEAN	3.22	55.4	272	133	116	392	160	59.3	242	67.5	2.96	24.7
MAX	36	507	1,040	405	339	2,940	933	398	1,840	599	28	496
MIN	.10	.10	46	26	21	51	16	3.0	2.4	.38	.10	.10
CFSM	.04	.68	3.32	1.62	1.41	4.78	1.95	.72	2.95	.82	.04	.30
IN.	.05	.75	3.82	1.87	1.53	5.51	2.17	.83	3.30	.95	.04	.34

CAL YR 1971 TOTAL 31,592.58 MEAN 86.6 MAX 1,040 MIN .05 CFSM 1.06 IN 14.33
WTR YR 1972 TOTAL 46,659.80 MEAN 127 MAX 2,940 MIN .10 CFSM 1.55 IN 21.17

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	1430	9.58	3,900	6-25	0430	8.21	2,230
6-24	0300	8.11	2,140				

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 upstream from State Highway 528, 0.8 mile upstream from Griswold Creek and 2.1 miles south of Madison.

DRAINAGE AREA.--581 sq mi.

PERIOD OF RECORD.--July 1922 to December 1935, February 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 674.47 ft above mean sea level, adjustment of 1912. Prior to Jan. 20, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--47 years, 654 cfs (15.29 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,900 cfs Mar. 2 (gage height , 10.96 ft); minimum, 9.0 cfs Oct. 25.
Period of record: Maximum discharge, 21,100 cfs Jan. 22, 1959 (gage height, 14.73 ft), from rating curve extended above 12,200 cfs on basis of estimates of peak flow over dam at site about 8 miles upstream with drainage area of 559 sq mi 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 except those for February which are poor. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	73	2,160	2,590	220	2,800	397	280	136	414	45	15
2	35	72	1,320	1,650	210	9,380	369	372	205	318	41	14
3	35	68	900	1,540	240	9,000	354	555	207	221	45	13
4	32	92	682	1,340	300	4,980	381	590	205	251	41	12
5	22	125	519	984	315	3,540	433	492	203	272	37	13
6	16	110	1,040	716	318	2,450	418	411	148	369	34	12
7	19	125	3,760	555	300	1,890	381	351	110	560	240	11
8	19	151	5,400	453	270	3,020	348	315	87	437	336	10
9	32	154	4,000	418	250	3,040	336	773	80	318	300	11
10	122	145	2,640	496	240	2,040	339	2,040	80	318	126	10
11	186	170	2,280	734	250	1,510	325	1,600	76	253	87	10
12	199	201	1,920	837	300	1,470	308	1,090	73	421	68	11
13	229	168	1,360	752	400	2,080	622	758	90	360	56	17
14	177	125	872	630	500	4,280	1,120	488	126	270	47	1,020
15	112	92	1,370	414	700	4,230	1,060	366	239	482	39	585
16	71	73	2,960	250	1,000	3,590	3,660	336	908	806	31	262
17	45	62	2,340	280	1,200	4,380	5,720	351	1,370	524	28	168
18	36	54	1,660	240	1,200	3,690	3,730	422	758	1,120	26	122
19	31	50	1,430	550	1,100	2,580	2,490	425	378	2,180	24	107
20	22	58	1,170	1,540	950	1,920	2,050	381	241	764	22	107
21	17	130	1,030	1,240	850	1,220	2,270	325	172	348	20	132
22	14	400	907	956	800	1,060	1,860	280	140	275	22	96
23	13	453	682	1,400	750	1,730	2,200	241	2,690	213	20	68
24	11	360	546	1,550	700	1,480	1,800	211	6,190	153	19	64
25	9.5	318	429	1,690	650	1,230	1,320	161	7,380	112	19	55
26	23	308	433	1,370	600	1,020	977	118	5,230	84	17	155
27	74	369	710	740	550	837	645	100	2,580	72	17	734
28	74	570	858	478	1,600	666	429	86	1,110	66	19	837
29	78	886	851	363	1,500	519	348	76	560	58	13	550
30	92	1,980	1,760	292	------	453	300	74	461	50	19	1,890
31	82	------	3,860	250	------	433	------	86	------	48	18	------
TOTAL	1,946.5	7,942	51,849	27,298	18,263	82,518	36,990	14,154	32,233	12,137	1,876	7,111
MEAN	62.8	265	1,673	881	630	2,662	1,233	457	1,074	392	60.5	237
MAX	229	1,980	5,400	2,590	1,600	9,380	5,720	2,040	7,380	2,180	336	1,890
MIN	9.5	50	429	240	210	433	300	74	73	48	13	10
CFSM	.11	.46	2.88	1.52	1.08	4.58	2.12	.79	1.85	.67	.10	.41
IN.	.12	.51	3.32	1.75	1.17	5.28	2.37	.91	2.06	.78	.12	.46

CAL YR 1971 TOTAL 218,412.23 MEAN 598 MAX 8,080 MIN .91 CFSM 1.03 IN 13.98
WTR YR 1972 TOTAL 294,317.50 MEAN 804 MAX 9,380 MIN 9.5 CFSM 1.38 IN 18.84

PEAK DISCHARGE (BASE, 5,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	0930	7.88	5,660	4-17	0700	8.10	6,060
3-2	2400	10.96	11,900	6-24	1500	9.32	8,420

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 miles upstream from Hubbard Run, 1.3 miles southeast of Ashtabula, and 5.5 miles upstream from mouth.

DRAINAGE AREA.--121 sq mi.

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 above mean sea level, unadjusted. Prior to Aug. 27, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--41 years, 149 cfs (16.73 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,610 cfs Mar. 2 (gage height, 6.62 ft); maximum gage height, unknown, Mar. 1 (backwater from ice); minimum discharge, 1.6 cfs Sept. 8, 11, 12.
Period of record: Maximum discharge, 11,600 cfs Jan. 22, 1959 (gage height, 11.03 ft), from rating curve extended above 4,600 cfs; no flow at times during most years.

REMARKS.--Records good except those for February which are poor. 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 CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.3	506	400	50	1,000	107	24	25	66	9.0	4.6
2	12	5.3	250	212	55	4,650	97	158	28	52	9.0	3.4
3	8.2	6.4	178	189	150	1,970	94	299	24	66	8.4	3.0
4	5.8	45	132	152	200	800	120	184	17	137	7.2	3.0
5	3.9	132	132	148	250	486	194	91	11	94	6.0	2.8
6	3.4	81	379	107	240	275	140	54	7.8	204	5.5	2.0
7	13	108	1,350	102	200	287	107	37	5.5	194	28	1.8
8	14	105	1,550	79	180	1,430	97	36	3.8	97	91	1.8
9	14	92	559	74	150	740	79	403	3.8	68	54	1.8
10	142	89	287	216	130	342	79	449	4.6	332	36	1.8
11	114	159	260	348	120	220	72	168	3.4	216	25	1.6
12	68	146	225	212	120	305	57	74	3.0	99	19	2.4
13	43	108	148	148	160	810	215	39	4.6	68	16	5.5
14	29	76	120	137	260	1,720	435	36	9.1	47	13	16
15	20	57	745	110	500	970	604	200	97	42	99	72
16	14	43	920	80	700	689	1,400	281	216	74	92	42
17	11	32	348	65	650	1,370	1,840	180	202	50	41	24
18	9.6	26	184	60	600	676	545	152	86	46	37	16
19	7.6	24	124	150	500	394	245	120	39	1,110	38	11
20	6.4	42	140	604	400	305	296	79	25	240	26	13
21	5.8	226	380	335	340	230	502	50	19	91	17	10
22	5.3	362	311	225	320	500	311	36	25	56	13	7.8
23	5.3	201	148	510	300	900	368	26	2,610	37	10	7.8
24	5.3	126	110	421	280	414	220	19	2,960	27	8.4	9.6
25	7.0	97	97	649	250	329	133	14	2,860	22	6.0	6.0
26	6.4	99	216	287	210	305	86	9.6	1,620	18	5.0	16
27	5.8	123	456	164	200	299	56	5.5	565	16	4.6	94
28	5.3	255	374	107	210	235	41	4.2	198	15	6.6	84
29	5.3	290	293	86	320	172	30	3.0	102	13	4.6	49
30	5.8	741	967	65	------	148	24	4.2	74	11	7.8	1,180
31	6.4	------	1,380	55	------	144	------	13	------	9.6	6.6	------
TOTAL	613.6	3,892.0	13,269	6,497	8,045	23,115	8,594	3,248.5	11,848.6	3,617.6	749.7	1,693.7
MEAN	19.8	130	428	210	277	746	286	105	395	117	24.2	56.5
MAX	142	741	1,550	649	700	4,650	1,840	449	2,960	1,110	99	1,180
MIN	3.4	5.3	97	55	50	144	24	3.0	3.0	9.6	4.6	1.6
CFSM	.16	1.07	3.54	1.74	2.29	6.17	2.36	.87	3.26	.97	.20	.47
IN.	.19	1.20	4.08	2.00	2.47	7.11	2.64	1.00	3.64	1.11	.23	.52

CAL YR 1971 TOTAL 50,029.95 MEAN 137 MAX 1,960 MIN 0 CFSM 1.13 IN 15.38
WTR YR 1972 TOTAL 85,183.70 MEAN 233 MAX 4,650 MIN 1.6 CFSM 1.93 IN 26.19

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	1300	6.62	5,610	6-23	2000	6.28	5,160
4-17	0100	4.38	2,870	6-25	0130	5.16	3,790

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 miles upstream from mouth.

DRAINAGE AREA.--175 sq mi.

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 above mean sea level, unadjusted. Prior to Aug. 17, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 252 cfs (19.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,820 cfs June 24 (gage height, 9.53 ft); minimum daily discharge, 4.3 cfs Sept. 10.
Period of record: Maximum discharge, 17,000 cfs Jan. 22, 1959 (gage height, 11.70 ft); maximum gage height, 12.94 ft Mar. 4, 1934 (backwater from ice); minimum discharge, 0.2 cfs July 31, Aug. 1, 1933, Aug. 1, 2, 1934.

REMARKS.--Records good except those for February which are fair. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	20	1,590	1,080	100	1,100	197	98	288	142	24	13
2	78	20	560	424	90	3,730	175	288	201	120	22	10
3	52	21	331	358	300	6,020	165	528	158	197	20	8.2
4	38	93	263	310	400	1,630	185	448	116	149	18	7.0
5	30	263	233	250	460	650	248	243	101	177	16	5.7
6	28	322	540	210	450	365	217	173	88	368	15	5.0
7	40	253	2,800	185	400	345	173	145	69	382	42	4.6
8	35	280	2,830	180	350	1,210	152	135	59	179	193	4.6
9	73	215	1,320	179	280	1,370	132	620	59	144	147	4.5
10	460	202	500	265	240	496	130	1,080	61	476	79	4.3
11	956	334	415	536	200	295	127	409	75	343	54	5.1
12	303	500	442	436	240	325	117	239	61	169	40	9.0
13	190	382	315	298	330	978	135	177	66	116	32	25
14	122	275	260	230	480	1,860	158	160	65	87	40	38
15	85	178	702	180	900	1,590	310	235	158	81	83	197
16	64	134	1,570	130	1,100	838	1,310	335	445	95	49	152
17	52	112	702	110	1,100	1,420	2,020	565	476	72	91	79
18	42	90	355	100	900	1,010	1,050	600	189	72	54	51
19	36	85	278	450	750	488	353	313	111	133	39	36
20	31	118	285	817	600	358	285	215	81	227	43	33
21	28	331	476	500	550	310	516	163	66	156	34	29
22	25	776	680	365	480	430	368	142	78	94	26	25
23	25	472	394	516	420	1,120	308	124	2,300	70	22	20
24	25	233	253	665	380	575	278	104	8,230	55	19	27
25	27	172	325	804	340	368	209	91	6,460	48	16	20
26	26	156	382	738	310	328	167	80	4,230	39	13	40
27	27	182	894	290	270	323	135	71	1,620	34	13	78
28	26	500	585	225	250	315	116	64	397	30	17	177
29	24	940	550	170	270	270	101	59	221	28	13	119
30	24	1,390	936	130	------	235	92	69	161	27	19	595
31	22	------	2,100	110	------	239	------	124	------	26	15	------
TOTAL	3,123	9,049	23,866	11,241	12,940	30,591	9,929	8,097	26,690	4,336	1,308	1,822.0
MEAN	101	302	770	363	446	987	331	261	890	140	42.2	60.7
MAX	956	1,390	2,830	1,080	1,100	6,020	2,020	1,080	8,230	476	193	595
MIN	22	20	233	100	90	235	92	59	59	26	13	4.3
CFSM	.58	1.73	4.40	2.07	2.55	5.64	1.89	1.49	5.09	.80	.24	.35
IN.	.66	1.92	5.07	2.39	2.75	6.50	2.11	1.72	5.67	.92	.28	.39

CAL YR 1971 TOTAL 101,447.5 MEAN 278 MAX 3,300 MIN 5.0 CFSM 1.59 IN 21.56
WTR YR 1972 TOTAL 142,992.0 MEAN 391 MAX 8,230 MIN 4.3 CFSM 2.23 IN 30.40

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	2100	6.69	3,980	6-24	1700	9.53	9,820
3-3	0800	8.74	7,850				

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 1972

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	1969-72	7-31-72 a9- 8-72	.32 .23
		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	5-25-72 7-25-72 a9- 6-72	61.2 45.9 29.2
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	5-25-72 7-25-72 9- 6-72	35.6 24.8 10.1
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	5-25-72 7-25-72 a9- 6-72	70.4 59.5 35.5
		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, 1962-72	7-25-72 a9- 7-72	14.0 3.68
		Sunfish Creek basin				
03114250	Sunfish Creek at Cameron, Ohio	Lat 39°46'00", long 80°56'09", Monroe County, at bridge on State Highway 78, 0.5 mile east of Cameron, 4 miles upstream from mouth.	99.6	1959, 1962-72	7-27-72 a9- 5-72	16.1 10.3
		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	5-26-72 8- 9-72 a8-11-72 9- 5-72	26.4 32.6 16.5 19.3
		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	5-26-72 7-27-72 a9- 5-72	34.8 22.7 31.0
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	5-26-72 7-27-72 a9- 6-72	15.5 4.78 6.69
03115800	Duck Creek at Stanleyville, Ohio	Lat 39°28'14", long 81°24'41", Washington County, at bridge on county road at Stanleyville, 1 mile upstream from Sugar Creek.	267	1959, 1962-72	5-26-72 7-27-72 a9- 5-72	75.0 45.1 93.3
		Muskingum River basin				
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, 1969-72	8- 1-72 8- 9-72 a9- 7-72	25.3 23.6 19.0
*03116100	Little Chippewa Creek near Smithville, Ohio	Lat 40°53'39", long 81°48'46", Wayne County, at bridge on State Highway 5, 3.3 miles northeast of Smithville.	16.4	1965-67, 1969-72	8- 1-72 a9- 6-72	5.38 4.97
*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	1965-72	7-28-72 a9- 8-72	2.15 .67
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	5-25-72 7-25-72 a9- 8-72	35.9 9.72 3.61
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	6- 7-72 7-24-72 a9- 5-72	11.2 7.15 3.79

See footnotes at end of table, p. 210.

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Muskingum River basin--Continued				
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	6- 7-72 7-31-72 a9- 5-72	9.00 6.50 7.01
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, 1970-72	a7-31-72 9- 6-72	18.3 32.2
03140700	Buffalo Fork (head of Wills Creek) at Pleasant City, Ohio	Lat 39°54'15", long 81°33'14", Guernsey County, at bridge on U.S. Highway 21, at Pleasant City, 0.2 mile upstream from Buffalo Creek.	71.1	1959, 1962-67, 1969-72	7-28-72 a9- 7-72	8.36 8.07
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, 1969-72	7-28-72 a9- 7-72	6.99 4.48
03141900	Leatherwood Creek near Cambridge, Ohio	Lat 40°01'18", long 81°32'51", Guernsey County, at bridge on County Road 461, 2.2 miles east of Cambridge, 3.5 miles upstream from mouth.	88.0	1959, 1962-67, 1969-72	7-28-72 a9- 7-72	3.61 4.42
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	6- 7-72 a8-15-72	80.5 32.2
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	5-23-72 a8-11-72	55.2 3.23
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, 1962-72	7-28-72 a8-11-72 9- 7-72	8.52 1.97 2.60
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	3-15-72 7-26-72 a9- 6-72	135 10.3 19.4
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 upstream from mouth, 1.5 miles southwest of Waterford.	79.3	1972	3-15-72 7-26-72 a9- 6-72	43.8 2.80 7.25
		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, 1962-72	7-26-72 a9- 6-72	.57 1.88
		Hocking River basin				
03156700	Rush Creek near Sugar Grove, Ohio	Lat 39°38'18", long 82°30'42", Fairfield County, at bridge on Berne Township Road 294, 2 miles northeast of Sugar Grove.	229	1956, 1961-72	a8-11-72 9-22-72	21.5 45.2
03159520	Federal Creek near Stewart, Ohio	Lat 39°20'30", long 81°53'03", Athens County, at bridge on State Highway 329, 2.5 miles north of Stewart, 4 miles north of U.S. Highway 50.	136	1956, 1962-72	5-22-72 8-10-72 9-21-72	50.9 3.25 6.61
		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, 1962-72	a8-10-72	1.95
		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 upstream from mouth, 2 miles southwest of Vinton.	154	1951-53, 1959, 1965, 1972	5-22-72 a8-10-72	105 14.4
		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 upstream from relocated Fourmile Creek, 2.5 miles north of Bradrick.	67.5	1972	5-22-72 8- 9-72 a9-13-72	28.8 6.41 3.62
		Pine Creek basin				
03216640	Pine Creek near Wheelersburg, Ohio	Lat 38°39'12", long 82°48'09", Scioto County, at bridge on Junior Furnace-Powellsville Road, 1.7 miles upstream from Poplar Fork, 6 miles southeast of Wheelersburg.	152	1972	5-22-72 8- 9-72 a9-13-72	83.9 11.4 1.98

See footnotes at end of table, p. 210.

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Little Scioto River basin				
03216700	Little Scioto River at Sciotoville, Ohio	Lat 38°46'19", long 82°52'38", Scioto County, at bridge just east of State Highway 335, 0.2 mile upstream from Swamp Valley Run, 1.5 miles northeast of junction of U.S. Highway 52 and State Highway 335 in Sciotoville.	223	1959, 1962-67, 1969-72	8- 9-72 a9-13-72	7.99 1.98
		Scioto River basin				
03217400	Scioto River near Kenton, Ohio	Lat 40°38'50", long 83°38'20", Hardin County, at bridge on County Road 130, 1.5 miles west of Kenton.	129	1961-67, 1969-72	a8-10-72	11.4
03217500	Scioto River at LaRue, Ohio	Lat 40°34'28", long 83°23'15", Marion County, 200 ft below bridge on State Highway 95, at LaRue, 3.5 miles above Rush Creek.	257	1927-35≠, 1939-51≠, 1962-67, 1971-72	8-20-71 8- 9-72 a8-17-72	12.0 24.6 11.4
03217600	Rush Creek near LaRue, Ohio	Lat 40°33'33", long 83°19'57", Marion County, at bridge on County Road 38, 0.5 mile upstream from mouth, 3 miles southeast of LaRue.	105	1956, 1961-67, 1969-72	a8- 8-72	4.07
*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, 7.2 miles upstream from Honey Creek.	72.4	1939-71≠, 1972	a8- 9-72	3.44
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 downstream from Perfect Creek, at Sunbury.	77.8	1972	6- 7-72 a8-16-72	7.16 .83
03228700	Blacklick Creek near Groveport, Ohio	Lat 39°53'26", long 82°51'50", Franklin County, at bridge on Winchester Pike, 2 miles upstream from mouth, 2.5 miles northeast of Groveport.	57.4	1950, 1959, 1961-72	a8-15-72	7.71
03229800	Walnut Creek near Ashville, Ohio	Lat 39°40'56", long 82°58'30", Pickaway County, at bridge on U.S. Highway 23, 0.5 mile upstream from mouth, 1.2 miles southwest of Ashville.	285	1954, 1961-67, 1969-72	9- 3-70 a8-11-72 9-21-72	b35.0 41.4 57.1
*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, 1952, 1962-72	5-23-72 8-11-72 a9-15-72	2.88 .34 1.57
03231300	Kinnikinnick Creek near Kinnikinnick, Ohio	Lat 39°26'23", long 82°58'35", Ross County, at bridge on old U.S. Highway 23, 1 mile upstream from mouth, 1.5 miles northwest of Kinnikinnick.	36.2	1954, 1958, 1961-72	5-23-72 8-11-72 a9-21-72	26.6 9.75 8.80
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	3-10-72 8- 8-72 a9-11-72	109 10.6 5.59
*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, 1969-72	5-23-72 a8-10-72 9-21-72	4.56 .22 .60
03235100	Salt Creek at Laurelville, Ohio	Lat 39°27'46", long 82°44'08", Hocking County, at bridge on Township Road 174, 200 ft upstream from Brimstone Creek, 0.5 mile south of Laurelville.	106	1972	3-10-72 5-23-72 a8-10-72 8-11-72 9-15-72	124 64.3 6.08 7.27 23.7
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 upstream from South Fork, at Otway.	94.4	1956, 1972	3- 9-72 8- 9-72 a9-12-72	238 2.35 .41
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	3- 9-72 8- 9-72 a9-12-72	126 6.20 .35
		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 upstream from Little East Fork, 1.7 miles northwest of Peebles.	154	1959-60, 1972	3- 9-72 8- 8-72 a9-12-72	228 7.64 1.46
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	3- 9-72 8- 8-72 a9-12-72	151 .51 .15
		Eagle Creek basin				
03238200	Eagle Creek near Ripley, Ohio	Lat 38°43'35", long 83°47'15", Brown County, at highway bridge 0.4 mile upstream from Beetle Creek, 3.2 miles southeast of Ripley.	137	1959-72	a8- 8-72 9-12-72	1.73 .12

See footnotes at end of table, p. 210.

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		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 northwest of Selma, 3.1 miles upstream from Forth Fork.	48.9	1952-58≠, 1959-72	a8- 3-72 9-11-72	6.40 1.80
*03239500	North Fork Little Miami River near Pitchin, Ohio	Lat 39°49'40", long 83°46'38", Clark County, at county highway bridge, 1.1 miles upstream from Goose Creek, 1.3 miles southwest of Pitchin.	28.9	1952-58≠, 1959-72	a8- 3-72	4.81
		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	3-20-72 8- 3-72 a9-22-72	60.5 14.4 3.81
03262650	Spring Creek near Troy, Ohio c/	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	1968-72	11-15-71 12-22-71 1-28-72 5- 3-72 6-15-72 7-25-72 a8- 2-72 9-14-72	.67 11.1 13.2 15.0 6.22 1.38 .24 5.88
03262900	Honey Creek near New Carlisle, Ohio c/	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	1969-72	3- 7-72 7-19-72 a8- 2-72 9-26-72	71.5 20.5 12.5 24.0
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	3- 7-72 8- 2-72 a9-18-72	8.01 5.36 5.55
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≠, 1971-72	3- 7-72 8- 2-72 a9-18-72	26.1 3.13 2.54
03271000	Wolf Creek at Dayton, Ohio c/	Lat 39°46'00", long 84°14'12", Montgomery County, at West Riverview Avenue Bridge in Dayton, 1.8 miles upstream from mouth.	68.7	1939-50≠, 1953-72	10-22-71 12-17-71 2- 9-72 4-21-72 6- 9-72 a9-21-72	9.02 52.5 17.4 90.7 21.3 8.14
03272700	Sevenmile Creek at Camden, Ohio c/	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	1970-72	12- 2-71 2-22-72 3- 8-72 8- 2-72 8-24-72 a9-11-72	5.22 32.1 88.9 4.34 3.67 5.33
		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	3-20-72 a8- 1-72	38.9 6.45
		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, 1969-72	a9- 6-72	13.6
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	a8- 1-72 9- 6-72	11.0 18.6
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	8- 1-72 a9- 6-72	8.95 4.75
04180950	St. Marys River at Mendon, Ohio	Lat 40°40'35", long 84°31'07", Mercer County, at bridge on State Highway 707, at Mendon.	297	1955, 1962-69, 1971-72	a9- 5-72	18.6
04181000	St. Marys River near Willshire, Ohio	Lat 40°44'05", long 84°44'10", Van Wert County, at bridge on Horner Road, 0.8 mile upstream from Black Creek, 3 miles southeast of Willshire.	354	1926-32≠, 1955, 1963-67, 1972	a9- 5-72	17.8
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, 1969-72	a9- 5-72	9.00
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. d/	109	1955-56, 1962-67, 1969-72	8-17-72 a9- 7-72	1.40 .61

See footnotes at end of table, p. 210.

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Streams tributary to Lake Erie--Continued				
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	3-20-72 a9- 5-72	46.8 4.44
04190400	Little Auglaize River near Melrose, Ohio	Lat 41°03'33", long 84°24'01", Paulding County, at bridge 0.4 mile above Middle Creek, 2.2 miles southeast of Melrose.	186	1955-56, 1962-67, 1970-72	a9- 6-72	1.01
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	a8- 1-72 9- 6-72	2.37 3.44
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	8- 1-72 a9- 6-72	3.22 1.22
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, 1962-72	a9- 6-72	2.70
04194200	Toussaint Creek near Limestone, Ohio	Lat 41°32'54", long 83°14'29", Ottawa County, at bridge 1.2 miles west of Limestone.	79.0	1959-72	a9- 7-72	2.84
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	1959-72	a9- 7-72	5.80
04194500	Portage River near Pemberville, Ohio	Lat 41°22'45", long 83°28'35", Wood County, at highway bridge 0.1 mile west of junction of Wayne Road and South River Road, 2.5 miles southwest of Pemberville.	337	1930-35≠, 1959-72	8-25-71 a9- 7-72	6.68 10.4
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	1959-72	8- 1-72 a9- 7-72	16.2 16.3
04198015	Cold Creek near Castalia, Ohio	Lat 41°25'12", long 82°48'02", Erie County, 0.4 mile downstream from bridge on Homegardner Road, 1.2 miles downstream from Blue Hole Outlet, 1.5 miles northeast of Castalia.	(e)	1950, 1962-72	8- 1-72 a9- 7-72	33.5 33.2
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	1960-72	a8- 1-72 9- 7-72	22.0 24.3
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	1960-72	7-31-72 a9- 6-72	2.30 1.15
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, 1960-72	7-31-72 a9- 6-72	12.4 7.23
04208900	Aurora Branch near Chagrin Falls, Ohio	Lat 41°24'40", long 81°24'44", Cuyahoga County, at bridge on Solon Road, 1.0 miles upstream from mouth, 1.6 miles southwest of Chagrin Falls.	57.4	1953, 1972	6- 8-72 8- 1-72 a9- 5-72	15.2 17.1 12.5
04210000	Phelps Creek near Windsor, Ohio	Lat 41°30'56", long 80°56'07", Ashtabula County, at bridge on State Highway 534, 1.4 miles south of Windsor, 1.5 miles upstream from mouth.	25.6	1942-59≠, 1962-66, 1971-72	8-17-71 7-31-72 a9- 5-72	.41 1.03 .60

* 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 Corrected.
c Miami Conservancy District station, data furnished.
d Prior to 1970 water year, at site 1.2 miles downstream at bridge on Brooklyn Street (Drainage area, 112 sq mi).
e Flow largely from limestone springs.

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 1972

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (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 southwest of Berlin Center.	19.1	1942-71≠, 1972	5-23-72	5.32	779
*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	1970-72	4-15-72	12.98	1,080
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	1947-72	4-16-72	3.13	275
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 downstream from Newport Dam, 2.5 miles upstream from mouth.	66.3	1944-71≠, 1972	4-15-72	4.51	1,540
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	1959-72	4-16-72	7.67	960
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	1947-72	6-23-72	10.15	44
		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≠, 1963-72	4-15-72	3.15	216
		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	1947-72	7-16-72	10.40	415
		Muskingum River basin					
*03116100	Little Chippewa Creek near Smithville, Ohio	Lat 40°53'39", long 81°48'46", Wayne County, at bridge on State Highway 5, 3.3 miles northeast of Smithville.	16.4	1947-72	7-15-72	12.52	1,000
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	1947-72	- -72	a	< 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	1947-72	- -72	a	< 183
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	1966-72	6-16-72	20.21	42
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	1950-72	4-20-72	5.80	52
03136400	North Branch Kokosing River near Fredericktown, Ohio	Lat 40°30'08", long 82°34'18", Knox County, at bridge on county road, 2 miles northwest of Fredericktown, 2.7 miles upstream from East Branch.	45.5	1963-72	7-16-72	4.80	b750
03138900	Jennings Ditch tributary near Wooster, Ohio	Lat 40°44'45", long 81°55'48", Wayne County, at culvert on State Highway 76, 0.8 mile upstream from mouth, 4 miles south of Wooster.	.90	1946, 1966-72	7-16-72	18.40	67
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	1966-72	4-7-72	9.40	36
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	1947-72	8-18-72	12.52	130
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.	10.6	1947-72	4- -72	9.67	225

See footnotes at end of table, p. 215.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Muskingum River basin--Continued					
03148300	Moxahala 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.	80.8	1964-72	4-13-72	10.60	1,630
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, 1950-72	3- 3-72	2.82	111
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	1966-72	12- 7-71	9.11	88
		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	1966-72	- -72	a	<70
		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	4-20-72	7.02	1,910
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*, 1963-72	4-12-72	4.95	25
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	1965-72	8-17-65	22.00	546
					8-11-66	-	378
					8-22-67	-	263
					4-23-68	-	262
					6-23-69	-	630
					6-13-70	-	513
					8-27-71	24.26	760
					12-30-71	21.64	510
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	1947-72	4-13-72	12.12	490
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.	c.40	1966-72	4-16-72	19.70	79
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	8-18-72	14.63	137
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	1964-72	8-18-72	18.30	210
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*, 1959-72	5- 9-72	7.45	1,270
03230400	Big Darby Creek at Darbydale, Ohio	Lat 39°50'58", long 83°11'20", Franklin County, at McKinley Bridge at Darbydale.	449	1964-72	5-10-72	12.67	6,410
*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	1947-72	6-29-72	5.08	405
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	1947-72	4-13-72	13.21	265
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	1947-72	4-22-72	14.66	2,400
*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*, 1962-72	4-13-72	d58.5	255
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	1966-72	5- 9-72	18.84	68

See footnotes at end of table, p. 215.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (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	1950-72	4- 7-72	5.01	19
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 northeast of Londonderry.	268	1963-72	4-22-72	11.5	5,500
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	1947-72	4-22-72	14.77	490
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	1966-72	5- 3-72	15.69	105
		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	1956-72	4-22-72	11.65	142
		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	1966-72	4-22-72	18.74	90
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	1966-72	4-21-72	19.07	47
		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	1966-72	4-16-72	19.48	50
		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 northwest of Selma, 3.1 miles upstream from North Fork.	48.9	1952-58#, 1959-72	5- 8-72	6.84	1,160
*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#, 1959-72	5- 9-72	4.38	260
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	1948-72	4-15-72	13.63	420
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	1966-72	4-18-72	19.8	118
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	1947-72	12-30-71	3.88	539
		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.	1.50	1966-72	5-15-72	12.48	90
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	1947-72	5-15-72	3.33	197
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	1947-72	4-22-72	12.84	250
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	1950-72	4-30-72	5.85	44
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	1959-72	12-30-71	10.15	188

See footnotes at end of table, p. 215.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Great Miami River basin--Continued					
03269000	Buck Creek at Springfield, Ohio	Lat 39°55'57", long 83°49'02", Clark County, at Plum Street Bridge in Springfield, 0.3 mile upstream from concrete control dam, 2.2 miles upstream from mouth.	139	1913, 1914-21#, 1924-49#, 1959-72	5- 9-72	5.04	1,640
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	1966-72	12-30-71	21.63	297
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, 1947-72	12-30-71	2.76	29
		Streams tributary to Lake Erie					
04176900	Hill Ditch near Richards, Ohio	Lat 41°39'54", 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	1947-72	9-17-72	13.78	340
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	1950-72	c11-20-69 2- 4-71 - -72	c10.84 10.17 -	c66 c43 d40
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	1966-72	4-20-72	21.56	135
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	1947-72	9-13-72	13.72	245
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#, 1949-72	4-20-72	8.05	230
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	1966-72	3-14-72	18.45	37
04196700	St. James Run near Upper Sandusky, Ohio	Lat 40°46'53", long 83°18'05" (revised), Wyandot County, 500 ft upstream from bridge on State Highway 67 (revised), 3.5 miles southwest of Upper Sandusky.	5.29	1947-72	4-20-72	12.67	300
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	1961-72	5- 9-72	7.42	1,490
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	1961-72	4-22-72	6.01	1,340
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	1961-72	4-22-72	10.91	1,480
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#, 1950-72	8- 7-72	5.04	92
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	1947-72	9-18-72	13.82	400
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	1966-72	9-18-72	17.86	21
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	1947-72	9-18-72	13.35	400
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	1969-72	8- 6-72	11.94	73

See footnotes at end of table, p. 215.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Streams tributary to Lake Erie--Continued							
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	1947-72	3-13-72	8.73	350
04212600	Hubbard Run tributary at Ashtabla, 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	1966-72	7- 5-69 4-17-72	19.85 17.63	c270 163

* Also a low-flow partial-record station.
≠ Operated as a continuous-record station.
< Less than.
a Peak stage did not reach bottom of gage.
b Regulation by reservoir 0.4 mile upstream.
c Revised.
d 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 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water year)	Measurements	
					Date	Discharge (cfs)
Part 3		Beaver River basin				
Mill Creek	Mahoning River	Lat 41°00'01", long 80°58'07", Mahoning County, at county road bridge, 1 mile upstream from flowline of Berlin Reservoir, 1.2 miles upstream from Turkeybroth Creek, 2 miles southwest of Berlin Center, Ohio.	19.1	1942-71†	7-31-72 9- 7-72	*1.55 * .57
		Cross Creek basin				
Cross Creek	Ohio River	Lat 40°19'03", long 80°37'45", Jefferson County, adjacent to County Road 74, 1.3 miles east of Gould, 1 mile southwest of Mingo Junction, Ohio, 1.6 miles upstream from mouth.	125	1903, 1950, 1952-53, 1959, 1962-71	9- 7-72	*12.7
		Wheeling Creek basin				
Wheeling Creek	Ohio River	Lat 40°04'05", long 80°46'49", Belmont County, at bridge on County Road 28, in Brookside, Ohio, 0.2 mile downstream from Mutton Hollow.	103	1959, 1962-71	9- 7-72	*22.5
		Muskingum River basin				
Dry Creek	Kokosing River	Lat 40°20'48", long 82°34'14", Knox County, at bridge on county road, 300 ft south of U.S. Highway 36 (State Highway 3) 1 mile west of Bangs, 6 miles southwest of Mount Vernon, Ohio.	21.9	1959	7-12-72	+5,250
Walhonding River	Muskingum River	Lat 40°19'38", long 81°56'34", Coshocton County, at bridge on U.S. Highway 36, 0.2 mile upstream from Killbuck Creek, 5 miles northwest of Coshocton, Ohio.	1,577	-	12-23-71	*928
Muskingum River	Ohio River	Lat 40°11'15", long 81°53'19", Coshocton County, at bridge on county road at Conesville, Ohio	4,879	-	10-20-71	*742
Moxahala Creek	Muskingum River	Lat 39°53'48", long 82°00'20", Muskingum County, 0.5 mile upstream from mouth, 1 mile east of south Zanesville, Ohio.	302	1959, 1962-71	8-11-72 9-22-72	*19.2 *27.0
		Hocking River basin				
Indian Creek	Little Rush Creek	Lat 39°48'22", long 82°26'47", Fairfield County, at bridge on County Road 17, at Oakthorpe, Ohio.	7.64	-	6- 9-72	+3,320
Monday Creek	Hocking River	Lat 39°26'07", long 82°11'30", Athens County, at highway bridge in Doanville, Ohio, 1.8 miles upstream from mouth.	114	1956, 1961-71	10- 2-71 8-10-72 9-21-72	*20.3 *7.64 *20.4
		Symmes Creek basin				
Symmes Creek	Ohio River	Lat 38°29'42", long 82°28'37", Lawrence County, at bridge on State Highway 243 at north edge of Getaway, Ohio, 0.8 mile downstream from Leatherwood Creek, 6.5 miles northwest of Huntington, West Virginia.	335	1938-47†	8- 9-72	*18.9
		Scioto River basin				
Walnut Creek tributary	Walnut Creek	Lat 39°50'50", long 82°29'26", Fairfield County, at culvert on Township Road 419, 0.9 mile west of New Salem, Ohio.	.24	-	6- 9-72	+377
Walnut Creek	Scioto River	Lat 39°50'25", long 82°33'22", Fairfield County, at bridge on State Highway 256, 0.5 mile west of Thurston, Ohio.	21.0	-	6- 9-72	+6,010
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	2-24-71 9- 3-71	a43,800 *a1,540
		Mill Creek basin				
West Fork Mill Creek	Mill Creek	Lat 39°13'35", long 84°27'20", Hamilton County, at Lock Street Bridge in Lockland, Ohio, 1.2 miles upstream from mouth.	35.6	1938-57†, 1968	11-10-71 4-12-72 6-14-72 9-28-72	10.0 26.9 3.27 13.0
		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.b/	866	1914, 1915-17†, 1948, 1962-71	7-19-72 8- 7-72	402 *128

See footnotes at end of table, p. 218.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water year)	Measurements	
					Date	Discharge (cfs)
Part 3		Great Miami River basin--Continued				
Lost Creek	Great Miami River	Lat 40°01'05", long 84°09'28", Miami County, at Knoop Road bridge, 0.2 mile south of State Highway 41, 2.8 miles southeast of Troy, Ohio, 2.8 miles southwest of Casstown, 4.3 miles upstream from mouth.b/	58.3	1959, 1962-71	10- 6-71 11-19-71 12-16-71 1-28-72 3-20-72 5- 3-72 7-25-72 9- 5-72	*2.79 *5.24 141 36.7 58.0 40.1 *7.20 *2.24
Holes Creek	Great Miami River	Lat 39°39'15", long 84°11'45", Montgomery County, at Mad River Road bridge, 200 ft south of Alexandria-Bellbrook Road, 2.8 miles southwest of Kettering, Ohio.b/	18.7	1959, 1961-71	10-12-71 12- 1-71 1-20-72 3- 2-72 5-18-72 7-19-72 9-26-72	*2.40 9.09 9.42 281 12.4 *2.05 *21.2
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.b/	37.8	1959, 1962-71	10- 4-71 12- 1-71 1-20-72 3- 2-72 7-19-72	*1.93 *4.56 17.3 285 *4.54
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.b/	51.5	1959, 1961-71	10-14-71 12- 7-71 2- 8-72 3-21-72 5-23-72 8- 3-72 9-27-72	*10.6 141 22.9 47.9 26.3 *3.16 *3.79
Elk Creek	Great Miami River	Lat 39°30'04", long 84°27'35", Butler County, at county road bridge at east edge of Miltonville, Ohio, 1.5 miles upstream from mouth.b/	46.2	1959, 1961-71	7-11-72	*3.97
Dicks Creek	Great Miami River	Lat 39°28'25", long 84°23'51", Butler County, at Yankee Road Bridge, 1.3 miles southeast of Excello, Ohio, 2.5 miles upstream from mouth.b/	44.7	1959, 1961-71	10-26-71 12- 7-71 2- 2-72 3-21-72 7-11-72 9-12-72	25.9 100 23.2 38.2 21.4 *12.7
Fourmile Creek	Great Miami River	Lat 39°28'58", long 84°42'05", Butler County, near western end of Wallace Road, 2.2 miles southwest of Darrtown, Ohio.b/	127	1964-65, 1969-71	7-18-72 9- 8-72	*7.98 *1.64
Indian Creek	Great Miami River	Lat 39°21'45", long 84°38'35", Butler County, at Hamilton-New London Road bridge, 1.9 miles south of Millville, Ohio, 4.3 miles upstream from mouth.b/	102	1959, 1961-71	10-12-71 10-21-71 12- 9-71 3-17-72 8- 8-72	*1.02 *2.79 49.4 280 *1.46
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.b/	3,814	1961-71	10-26-71 2-17-72 4-12-72	*818 4,330 9,690
Whitewater River	Great Miami River	Lat 39°11'14", long 84°47'37", Hamilton County, 0.3 mile upstream from county road bridge, 1.5 miles upstream from mouth, 2.0 miles northwest of Hooven, Ohio.	1,467	1971	11-16-71	*220
Part 4		Streams tributary to Lake Erie				
Middle Fork Gordon Creek	Gordon Creek	Lat 41°17'45", long 84°43'43", Defiance County, at bridge on State Highway 18, 1 mile east of Hicksville, Ohio.	4.58	-	9-14-72	+2,630
South Fork	Gordon Creek	Lat 41°17'08", long 84°46'39", Defiance County, at bridge on State Highway 2, at west city limits of Hicksville, Ohio.	4.59	-	9-14-72	+2,120
Auglaize River	Maumee River	Lat 40°44'36", long 84°18'57", Allen County, at bridge on State Highway 81, 0.5 mile upstream from Sixmile Creek, 3.1 miles northeast of intersection of State Highways 66 and 117 in Spencerville, Ohio.	219	-	3- 7-70 4- 2-70 4-14-70 4-21-70 5-21-70 7- 9-70 9-16-70 11- 2-70 12-29-70 3- 4-71 4-19-71 5-10-71 6-14-71 8- 5-71 10- 4-71 11-15-71 1-11-72 3-20-72 4-22-72 5-15-72 6-27-72 8-25-72	a436 a1,250 a118 a1,060 a96.0 a19.2 a5.55 a8.78 a29.7 a27.4 a24.0 a349 a68.4 a21.2 16.7 11.8 410 117 3,420 1,250 61 11.6

See footnotes at end of table, p. 218.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water year)	Measurements	
					Date	Discharge (cfs)
Part 4		Streams tributary to Lake Erie--Continued				
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≠, 1934-35, 1945-70	11- 3-70	a6.24
					12-29-70	a2.99
					3- 4-71	a2.11
					4-19-71	a5.05
					6-15-71	a6.03
					8-12-71	a5.52
					10- 5-71	5.07
					11-16-71	5.38
					1-20-72	3.34
					3-21-72	5.22
					5-16-72	10.3
					8-24-72	4.52
Blanchard River	Auglaize River	Lat 41°02'02", long 83°34'46", Hancock County, at pump house no. 2 for Findlay Reservoir, 4 miles east of Findlay, Ohio.	233	-	3- 7-70	a1,180
					4-15-70	a452
					4-21-70	a1,440
					6-11-70	a41.0
					7-10-70	a14.3
					7-28-70	a6.22
					9-30-70	a4.42
					11- 9-70	a5.99
					1-13-71	a17.6
					3-10-71	a210
					4-13-71	a30.1
					6-22-71	a14.2
					8- 6-71	a3.46
					9-28-71	a3.43
					10-26-71	2.30
					11-16-71	2.96
					1-18-72	25.0
					3- 7-72	74.1
					4-23-72	2,350
					5-17-72	569
					6-26-72	22.0
					8-21-72	15.1
Tymochtee Creek	Sandusky River	Lat 40°42'58", long 83°23'32", Wyandot County, at bridge on township road, 1 mile north of Marseilles, Ohio, 1.1 miles downstream from intake to Killdeer Reservoir.	137	-	10-28-69	a6.18
					12-23-69	a26.2
					3- 6-70	a686
					4- 2-70	a3,200
					4-16-70	a83.2
					4-21-70	a366
					6- 2-70	a19.3
					7-20-70	a1.12
					9-25-70	a.84
					11-12-70	a1.55
					1- 4-71	a45.8
					3- 1-71	a182
					4-12-71	a12.9
					6- 8-71	a16.8
					8- 3-71	a.79
					9-27-71	a1.59
					12- 6-71	1.23
					1-17-72	24.8
					3- 9-72	52.7
					4-21-72	2,650
					5-17-72	379
					7-12-72	14.6
					8-31-72	3.48
Jackson Ditch	East Branch Black River	Lat 41°18'50", long 82°02'05", Lorain County, at culvert on State Highway 82, 0.8 mile west of Eaton, 2.2 miles southeast of LaPorte, Ohio.	.90	-	9-18-72	+125
Plum Creek	West Branch Rocky River	Lat 41°21'32", long 81°55'16", Cuyahoga County, at bridge on Usher Road, 1.4 miles southwest of Olmstead Falls, Ohio.	15.7	-	9-18-72	+2,650
Big Creek	Cuyahoga River	Lat 41°27'01", long 81°43'18", Cuyahoga County, 8 ft downstream from footbridge in Brookside Park, 2.5 miles upstream from mouth. (Revised)	35.3	1948, 1959, 1964	6-23-72	+8,400

* Base flow.
\+ Peak flow.
≠ Operated as a continuous-record gaging station.
a Not previously published.
b Data furnished by Miami Conservancy District.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972— 756-483/05

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
975 West Third Avenue
Columbus, Ohio 43212