

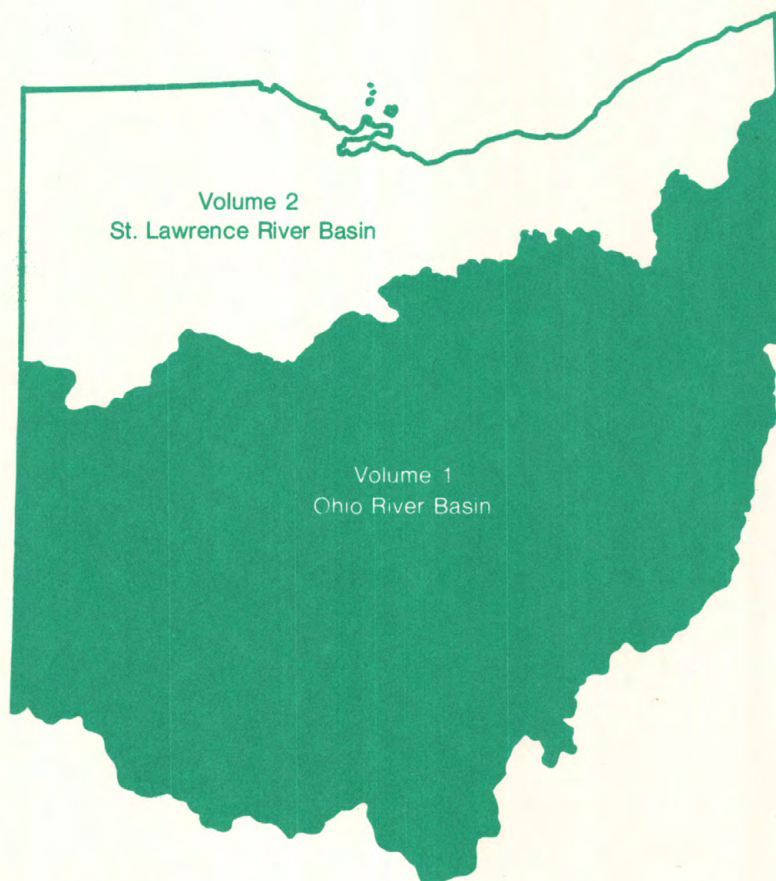
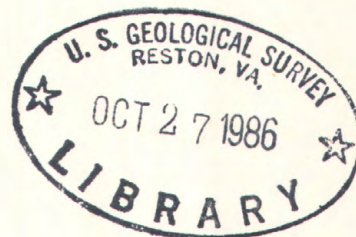
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# Water Resources Data Ohio

## Water Year 1985

### Volume 1. Ohio River Basin



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-85-1  
Prepared in cooperation with the State of Ohio  
and with other agencies



# CALENDAR FOR WATER YEAR 1985

1984

## OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
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## NOVEMBER

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## DECEMBER

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1985

## JANUARY

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## FEBRUARY

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24	25	26	27	28		

## MARCH

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## APRIL

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## JUNE

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23	24	25	26	27	28	29
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## JULY

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28	29	30	31			

## AUGUST

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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## SEPTEMBER

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

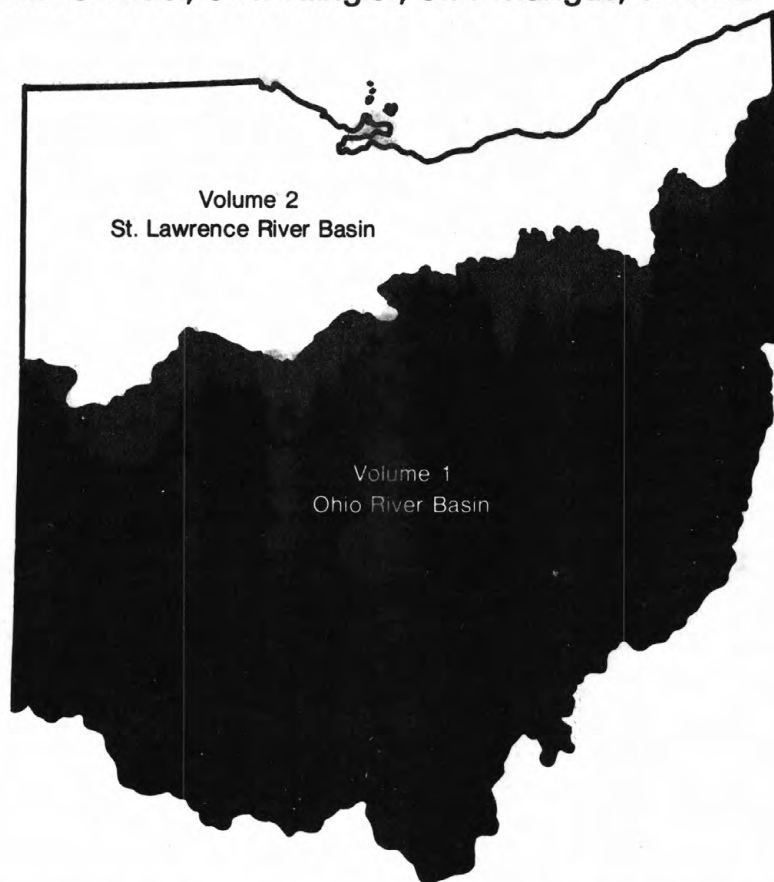




# Water Resources Data Ohio Water Year 1985

## Volume 1. Ohio River Basin

by H.L. Shindel, J.H. Klingler, J.P. Mangus, and L.E. Trimble



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-85-1  
Prepared in cooperation with the State of Ohio  
and with other agencies



**UNITED STATES DEPARTMENT OF THE INTERIOR**

**DONALD PAUL HODEL, Secretary**

**GEOLOGICAL SURVEY**

**Dallas L. Peck, Director**

**For information on the water program in Ohio write to**

**District Chief, Water Resources Division  
U.S. Geological Survey  
975 West Third Avenue  
Columbus, Ohio 43212**

**1986**



## PREFACE

This volume of the annual hydrologic data report of Ohio is one of the series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provides the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Ohio are contained in 2 volumes:

Volume 1. Ohio River Basin

Volume 2. St. Lawrence River Basin - Statewide Project Data

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Ohio and with other agencies under the general supervision of S.M. Hindall District Chief, Ohio.



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<b>15. Supplementary Notes</b>  Prepared in cooperation with the State of Ohio and with other agencies		<b>14.</b>	
<b>16. Abstract (Limit: 200 words)</b> Water resources data for the 1985 water year for Ohio consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground-water wells. This report in two volumes contains records for water discharge at 136 gaging stations, stage and contents at 4 lakes and reservoirs; water quality at 32 gaging stations, 87 wells, and 5 partial record sites; and water levels at 460 observation wells. Also included are data from 61 crest-stage partial-record stations and 19 miscellaneous sites. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Ohio.			
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## GROUND-WATER STATIONS FOR WHICH RECORDS ARE PUBLISHED

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ASHLAND COUNTY			
405303082170700	AS-2	Ashland (l) .....	243
405425082173000	AS-3	Jerome Fork (l) .....	244
ATHENS COUNTY			
392004082071600	AT-2A	Athens (l) .....	245
392009082072200	AT-5	Athens (l) .....	246
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403233083574500	AU-3	Southwest of New Hampshire (l) .....	247
BELMONT COUNTY			
400118081082200	B-3	Mount Olive (l) .....	248
BUTLER COUNTY			
391805084261800	BU-9	Northwest of Sharonville (l) .....	249
393202084241500	BU-15	Middletown (l) .....	250
391904084371800	BU-12	East of Ross (l) .....	251
392017084345200	BU-7	Fairfield (l) .....	252
392021084340300	BU-56	Fairfield (l) .....	253
392048084311400	BU-8	East of Hamilton (l) .....	254
392445084333000	BU-36	Hamilton (c) .....	255
392515084322000	BU-5	North of Hamilton (l) .....	256
392733084293000	BU-16	Southwest of Trenton (l) .....	257
392939084231700	BU-3	Middletown (l) .....	258
393103084240900	BU-2	Middletown (l) .....	259
CARROLL COUNTY			
403709081052800	C-1	North of Carrollton (l) .....	260
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400638083453900	CH-3	Urbana (l) .....	261
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395639084012200	CL-9	New Carlisle (l) .....	262
395840083495200	CL-7	Northwest of Springfield (l) .....	263
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COSHOCOTON COUNTY			
401256081525100	CS-3	North of Conesville (l) .....	264
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394257082362900	F-6	Lancaster (l) .....	267
394544082271000	F-1	West Rushville (l) .....	268
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393153083322000	FA-1	West of Washington Court House (l) .....	270
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395118083573300	FR-3	Southwest of Rees (l) .....	271
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383638082103300	G-2	East of Crown City (1) .....	274
GREENE COUNTY			
394411083561300	GR-1	North of Xenia (1) .....	275
394425083551100	GR-10	North of Xenia (1) .....	276
HAMILTON COUNTY			
391003084291500	H-11	Cincinnati (1) .....	277
391101084172100	H-3	Southeast of Miami (1) .....	278
391201084281600	H-10	Cincinnati (1) .....	279
391214084470100	H 1	Southeast of Harrison (1) .....	280
391324084272500	H-9	Cincinnati (1) .....	281
391341084275300	H-8	Wyoming (1) .....	282
391442084262900	H-7	Evendale (1) .....	283
391608084254400	H-6	Glendale (1) .....	284
391733084392400	H-2	South of Ross (1) .....	285
391748084393800	H-19	Southwest of Venice (c) .....	286
391817084393300	H-4	Southwest of Ross (1) .....	287
HARDIN COUNTY			
404218083503700	HN-1	Alger (1) .....	288
HOCKING COUNTY			
393200082235300	HK-1	Logan (1) .....	289
KNOX COUNTY			
402344082300700	K-1	Mt. Vernon (1) .....	290
LICKING COUNTY			
MADISON COUNTY			
395301083272200	M-2	London (1) .....	291
395357083304400	M-4	Northwest of London (1) .....	292
395740083255700	M-3	North of London (1) .....	293
MAHONING COUNTY			
400042080453800	MA-1	Canfield (1) .....	294
MARION COUNTY			
403413083170500	MN-4	Southeast of New Bloomington (1) .....	295
403443083230400	MN-1	LaRue (1) .....	296
403601083110400	MN-2	West of Marion (1) .....	297
MEDINA COUNTY			
410120081431800	MD-3	Wadsworth (1) .....	298
MERCER COUNTY			
402833084375200	MR-2	Coldwater (1) .....	299
MIAMI COUNTY			
395848084085500	MI-3	Northeast of Tipp City (1) .....	300
400308084112900	MI-44	Troy (c) .....	301
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393757084173600	MT-928	Miamisburg (c) .....	302
394012084151700	MT-55	West Carrollton (1) .....	303
394025084162800	MT-49	West Carrollton (1) .....	304
394425084113200	MT-3	Dayton (1) .....	305
394533084113800	MT-6	Dayton (1) .....	306



Well Number	Local number	Location	Page
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395804081593200	MU-1A	Zanesville (1) .....	307
PICKAWAY COUNTY			
393327082571600	PK-7	South of Circleville (1) .....	308
393402082572500	PK-4	South of Circleville (1) .....	309
393638082572300	PK-6	Northwest of Circleville (1) .....	310
393438083072200	PK-8	Williamsport (1) .....	311
PIKE COUNTY			
390359083015100	PI-2	West of Piketon (1) .....	312
PORTAGE COUNTY			
411401081025000	PO-1	Windham (1) .....	313
PREBLE COUNTY			
394438084335900	PR-2	East of Eaton (1) .....	314
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404625082305100	R-4	Mansfield (1) .....	315
ROSS COUNTY			
391341083172200	RO-7	West of Bainbridge (1) .....	316
391913082580500	RO-8	Chillicothe (1) .....	317
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## VOLUME 1: OHIO RIVER BASIN

## INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources in Ohio each water year. These data, accumulated during many years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to the interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data--Ohio."

This report (in two volumes) includes records on both surface and ground water in the State. Specifically, it contains: (1) Discharge records for 136 streamflow-gaging stations, 19 miscellaneous sites, and peak flow information for 61 crest-stage partial-record stations; (2) stage and content records for 4 lakes and reservoirs; (3) water-quality data for 32 streamflow-gaging stations, 87 wells, and 5 partial record sites; and (4) water levels for 460 observation wells. Locations of lake- and streamflow-gaging stations, water-quality stations, and crest-stage partial record stations in the Ohio River basin are shown in figures 3a, 3b, 3c, and 3d. Locations of observation wells are shown in figures 3e and 3f.

This series of annual reports for Ohio began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report was changed to present, in two to three volumes, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several years concurrent with it, water-resources data for Ohio were published in a series of U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 3 and 4." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on the chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and ground-water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above-mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States, and may be purchased from Distribution Branch, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report OH-84-2." For archiving and general distribution, the reports for 1971-74 water years are also identified as water-data reports. These water-data reports can be purchased in paper copy or in microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information for ordering specific reports, including current prices, may be obtained by writing the District Chief at the address given on the back of title page or by telephoning (614) 469-5553.

## COOPERATION

The U.S. Geological Survey and agencies of the State of Ohio have had cooperative agreements for the collection of water-resource records since 1898. Organizations that assist in collecting data in this report are: Ohio Department of Natural Resources, J. J. Sommer, Director; Ohio Environmental Protection Agency, R. H. Maynard, Director; Ohio Department of Transportation, W. J. Smith, Director; Miami Conservancy District, L. B. Coy, General Manager and Secretary; City of Columbus Department of Public Service, R. C. Parkinson, Director; City of Canton Water Department, J. D. Williams, Superintendent; Northeast Ohio Areawide Coordinating Agency, S. A. Jones, Director; Seneca County Soil and Water District, Gene Baltes, Chief, Water Quality Laboratory. Funds or services were provided by the U.S. Army Corps of Engineers in collecting records for 72 hydrologic-data stations in this report. The Miami Conservancy District, U.S. Army Corps of Engineers, and Ohio Department of Natural Resources aided in collecting records.

## SUMMARY OF HYDROLOGIC CONDITIONS

## Streamflow

Streamflow was normal throughout the State at the beginning of the 1985 water year.

Above-normal precipitation during October and November resulted in excessive streamflow statewide by the end of November, except in northwestern Ohio, where flows remained normal. Streamflow returned to the normal range during December and remained normal throughout January, except for northwestern Ohio, where January's streamflow became excessive in response to heavy rain in late December.

Rain and snowmelt in late February resulted in excessive streamflow in the western part of Ohio and some major flooding in the northern part of the State; streamflow remained normal in the remainder of the State. Streamflow conditions returned to normal in the west during March and remained normal statewide through April.

Below-normal precipitation starting in April caused streamflow to fall into the below-normal range for May with the exception of southwestern and south-central Ohio, where conditions remained normal. Despite below-normal precipitation in June, streamflow returned to the normal range statewide and was above normal in northeastern Ohio.

Streamflow continued to be normal for July and August except for the northwest, where it was deficient in July in response to below-normal precipitation. September's streamflow remained normal except for northwestern Ohio, where above-normal precipitation produced higher flows.

Figure 2 compares the 1985 mean discharges at four selected long-term stations with median discharges for the base period 1951-85.

#### Water Quality

Water-quality data collected from major streams and from a limited number of wells indicate that surface and ground water throughout the State generally are suitable for public supply and most industrial uses when properly treated.

Trace-element analyses of samples collected at the National Stream Quality Accounting Network (NASQAN) sites indicated that all concentrations of arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver were considerably less than U.S. Environmental Protection Agency recommended limits for domestic water supply.

Data from the southeastern coal fields show effects of acid mine drainage at many sites. Elevated concentrations of dissolved solids, sulfate, iron ( $>2,500$  mg/L), and suspended sediment ( $>250$  mg/L), are typical of most sites affected by surface mining.

Maumee River at Waterville, and Scioto River at Higby, two of the three major basins that have U.S. Geological Survey Monitors at NASQAN sites, showed improvement in specific conductance and pH during this water year compared to last water year. Dissolved oxygen concentration declined, probably because of low flow and warmer water conditions compared to previous years. Specific conductance at Cuyahoga River at Independence increased probably because of extremely dry weather.

#### Ground-Water Levels

Most of the observation wells in Ohio tap sand and gravel aquifers in buried-valley or water-course systems associated with the State's principal streams. The observation network also includes some bedrock wells in areas where deeper aquifers are important water supplies, such as the carbonate-rock region of northwestern Ohio and various sandstone units of eastern Ohio. The yearly low for most wells occurs during the winter months--especially in colder, drier years--or near the end of the growing season. Highs for the year usually occur from March through June, when recharge from snowmelt and springtime storms is greatest. The normal yearly water-level fluctuation in water-table and confined-aquifer wells is 3 to 5 feet.

Ground-water levels at the start of the 1985 water year were normal except in southeastern Ohio, where deficient precipitation resulted in below-normal levels. During November and December, ground-water levels rose in response to above-normal precipitation. By the end of January, ground-water levels were generally above normal except in eastern Ohio, where they fell to below normal as a result of cold temperatures.

Ground-water levels generally fell in February and rose in March in response to the late February thaw. A decrease in precipitation for April resulted in below-normal ground-water levels for much of the State. Ground-water levels returned to the normal range in May following above-normal precipitation throughout most of the State.

Typical seasonal declines characterized ground-water conditions for the months of June and July, but by August, levels were below normal throughout the State. Ground-water levels continued to decline during September and remained in the below-normal range because of continued deficient precipitation.

#### SPECIAL NETWORKS AND PROGRAM

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activity.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in general or regional water-quality planning and management. The approximately 500 sites in NASQAN are generally located at the downstream ends of hydrologic accounting



units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the U.S. Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for; (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics; and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

#### EXPLANATION OF THE RECORDS

The records in this report are for the 1985 water year that began October 1, 1984, and ended September 30, 1985. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

#### Station Identification Numbers

Each data station, whether streamsite or wellsite, is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic locations. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Ohio, for surface-water stations where only miscellaneous measurements are made.

#### Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in a "List of Stations" in the front of the report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record station and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station such as 04041000, which appears just to the left of the station name, includes the two-digit part number "04" plus the six-digit downstream order number "041000". The part number designates the major river basin; for example, part "03" is the Ohio River Basin, and part "04" is the St. Lawrence River Basin.

#### Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 1.)

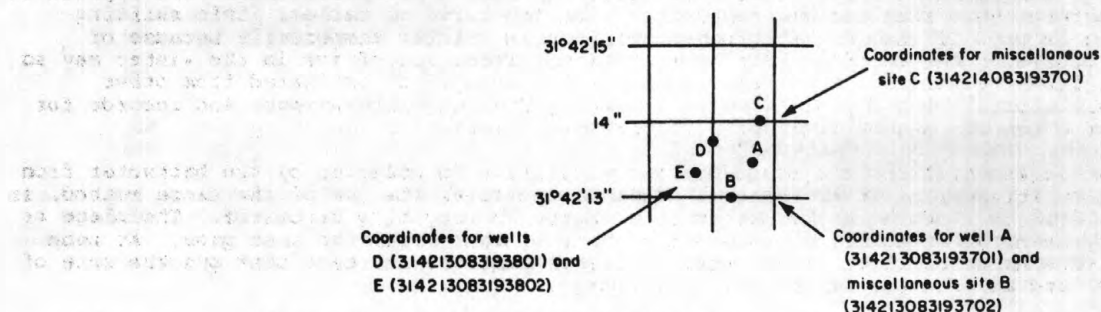


Figure 1 System for numbering wells and miscellaneous sites (latitude and longitude)

#### Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharge may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir contents, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because mean daily discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of a partial record is indicated by table titles such as "crest-stage partial records," or "low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage stations in the St. Lawrence River basin for which data are given in this report are shown in figure 3.

#### Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consists of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders which trace continuous graphs of stage, or with digital recorders which punch stage values on paper tapes or store stage data on cassette tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) Logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. 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 the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curve or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relation that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

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

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves, or tables defining the relationship of stage and contents. The application of stage to the stage-contents curves or tables give the contents from which daily, monthly, or yearly changes are then determined. If the stage-contents relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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

#### Data Presentation

The records published for each gaging station consist of two parts--the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

**LOCATION.**--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

**DRAINAGE AREA.**--Drainage areas are measured using the most accurate maps available. Because the type maps available varies from one drainage basin to another, the accuracy of the drainage areas likewise varies. Drainage areas are updated as better maps become available.

**PERIOD OF RECORD.**--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

**REVISED RECORDS.**--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted 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 the peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

**GAGE.**--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.



**REMARKS.**--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

**COOPERATION.**--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

**AVERAGE DISCHARGE.**--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at the station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development.

**EXTREMES FOR PERIOD OF RECORD.**--Extremes may include maximum and minimum stages and maximum and minimum discharges or contents. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by U.S. Geological Survey.

**EXTREMES FOR CURRENT YEAR.**--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, including the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

**REVISIONS.**--If a critical error in published records is discovered, a revision is included in the first report following discovery of the error.

Although rare, occasionally the records of a discontinued station gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the data from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published retrieval of data is always accompanied by revisions of the corresponding data in computer storage.

Manuscript information for lakes or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges respectively, for the month. Discharge for the month is often expressed in cubic feet per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by symbol and corresponding footnote.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are usually presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second, when collected, is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in time 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.

### Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

### Accuracy of the Records

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

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredths of a cubic foot per second for values less than 1 ft<sup>3</sup>/s; to the nearest tenth between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to three significant figures for more than 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

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

### Other Records Available

Records of discharge, ground-water, reservoir contents, and water-quality not published by the Geological Survey are collected in Ohio at several sites by State and other Federal agencies. The National Water Data Exchange (NAWDEx), U.S. Geological Survey, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Ohio District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

### Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recording; however, because of cost, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this volume are shown in figures 3a and 3b. Locations of partial-record stations are shown in figure 3c and 3d.

### Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at a nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

### On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the sample to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations" (TWRI), Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed on p. 19 of this report. Also detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream-Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors that must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for each day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey District Office, whose address is given on the back of the title page of this report.

### Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small daily temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.



During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharge for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge values differ from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

#### Laboratory Measurements

Sediment samples, samples for biochemical oxygen demand (BOD), and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratories in Arvada, CO. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

#### Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily, are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the record.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums and minimums may not have been sampled. Extremes, when given, are for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

## Remark Codes

The following remarks codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptable range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organisms may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

## Records of Ground-Water Levels

Water-level data from a network of observation wells (as well as project wells) are given in this report. The network well data are intended to provide a sampling and historical record of water-level changes in the Nations most important aquifers. Locations of the observation wells in this network in Ohio are shown in figures 3e and 3f. Water-level data for specific projects are reported under those projects.

## Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is a 15-digit number that is based on latitude and longitude. The secondary identification number is the local well number, that is provided for local needs.

Water-level measurements in this report are given in feet with reference to land-surface datum (1sd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in each well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or larger units.

## Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

**LOCATION.**--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

**AQUIFER.**--This entry describes the aquifer by age and composition.

**WELL CHARACTERISTICS.**--This entry describes the well in terms of depth, diameter, casing depth and (or) screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

**DATUM.**--This entry describes both the measuring point and the land-surface altitude at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base, and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The altitude of the land-surface datum (LSD) is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

**REMARKS.**--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that are also water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

**PERIOD OF PUBLISHED RECORD.**--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water level records by the U.S. Geological Survey or cooperating agency, and the words "to current year" if the records are to be continued to the following year. Periods for which water-level records are available, but not published by the Survey, may be noted.

**EXTREMES FOR PERIOD OF PUBLISHED RECORD.**--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum (LSD), and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below (or above) land-surface datum. All periodic measurements of water levels for wells are listed. For wells equipped with recorders, daily water-level lows are published. The highest and lowest daily water levels of the water year are shown on a line below the table. Because only daily lows are published for wells with recorders, the extreme instantaneous high may be a value that is not listed in the table. Missing records are indicated by dashes in place of the water level.

#### Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites, they consist of only one set of measurements. The quality of ground water ordinarily changes slowly, so that frequent measuring of the same parameter is not necessary unless one is concerned with a particular problem such as monitoring for trends of a particular constituent.

#### Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the TWRI manuals listed on page 19. The data presented in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and the material comprising the casings.

#### Data Presentation

The records of ground-water quality are published intermixed with the ground-water-level data for network wells and with the specific project for project wells.

#### ACCESS TO WATSTORE DATA

The National WATER Data STORAGE and RETRIEVAL System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, VA.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's District offices. (See address given on the back of the title page.)

General inquiries about WATSTORE may be directed to:

Chief Hydrologist  
U.S. Geological Survey  
437 National Center  
Reston, VA 22092



## DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of units (SI) on the inside of the back cover.

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

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield reasonable quantities of water to wells and springs.

Artesian means confined, and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35°C. In the laboratory, these bacteria are defined as the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C  $\pm$  1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C  $\pm$  0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35°C  $\pm$  1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m<sup>3</sup>), and periphyton and benthic organisms in grams per square meter (g/m<sup>2</sup>).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism, which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (ml) or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

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.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic foot per second (cfs, ft<sup>3</sup>/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved: That material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totalling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specific 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 noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

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 hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ( $\text{CaCO}_3$ ).

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

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G,  $\mu\text{g/g}$ ) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Microgram per kilogram (UG/KG,  $\mu\text{g/kg}$ ) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of bottom material.

Micrograms per liter (UG/L,  $\mu\text{g/L}$ ) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L,  $\text{mg/L}$ ) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in  $\text{mg/L}$ , and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream-Quality Accounting Network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meters ( $\text{m}^2$ ), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter code is a 5-digit number used in the U.S Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.



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

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	0.004 - 0.062	Sedimentation.
Sand.....	0.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population in terms of types, number, mass, or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC,pCi) is one trillionth ( $1 \times 10^{-12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/ml) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per millimeter (cells/mm) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movement within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [ $\text{mg C}/(\text{m}^2 \cdot \text{time})$ ] for periphyton and macrophytes and [ $\text{mg C}/(\text{m}^3 \cdot \text{time})$ ] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [ $\text{mgO}/(\text{m}^2 \cdot \text{time})$ ] for periphyton and macrophytes and [ $\text{mgO}/(\text{m}^3 \cdot \text{time})$ ] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material.--The amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

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

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

7-day 10-year low flow ( $7Q_{10}$ ) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrate are basket samplers (made of wire cages fill with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is the part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

```

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....Hexagenia limbata
  
```



Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY) is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published after 1975.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

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

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

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- 8-B2. *Calibration and maintenance of vertical-axis type current meters*. by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.



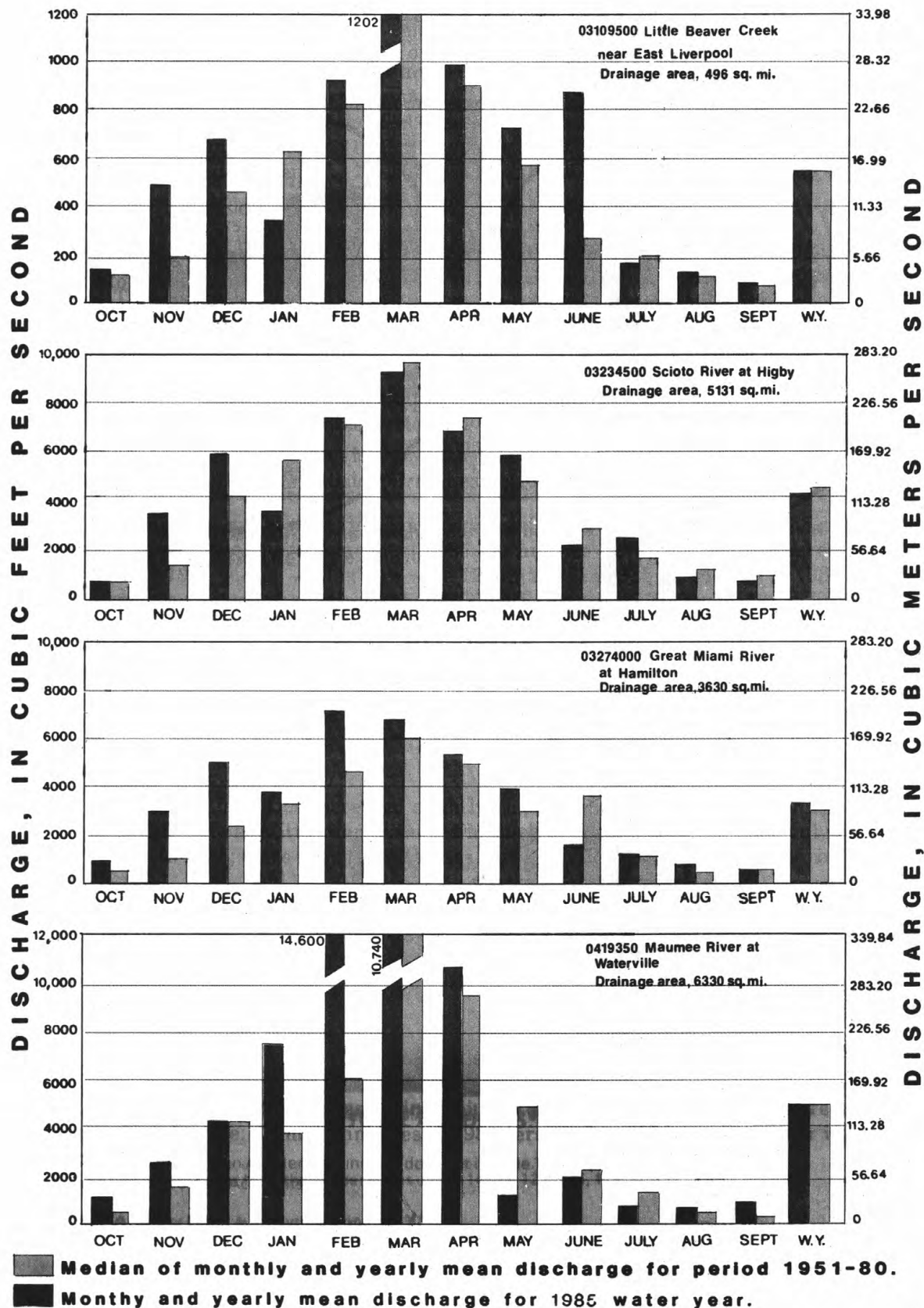


Figure 2.--Runoff during 1985 water year compared with median runoff for period 1951-80 for four representative gaging stations.

## WATER RESOURCES DATA FOR OHIO, 1985

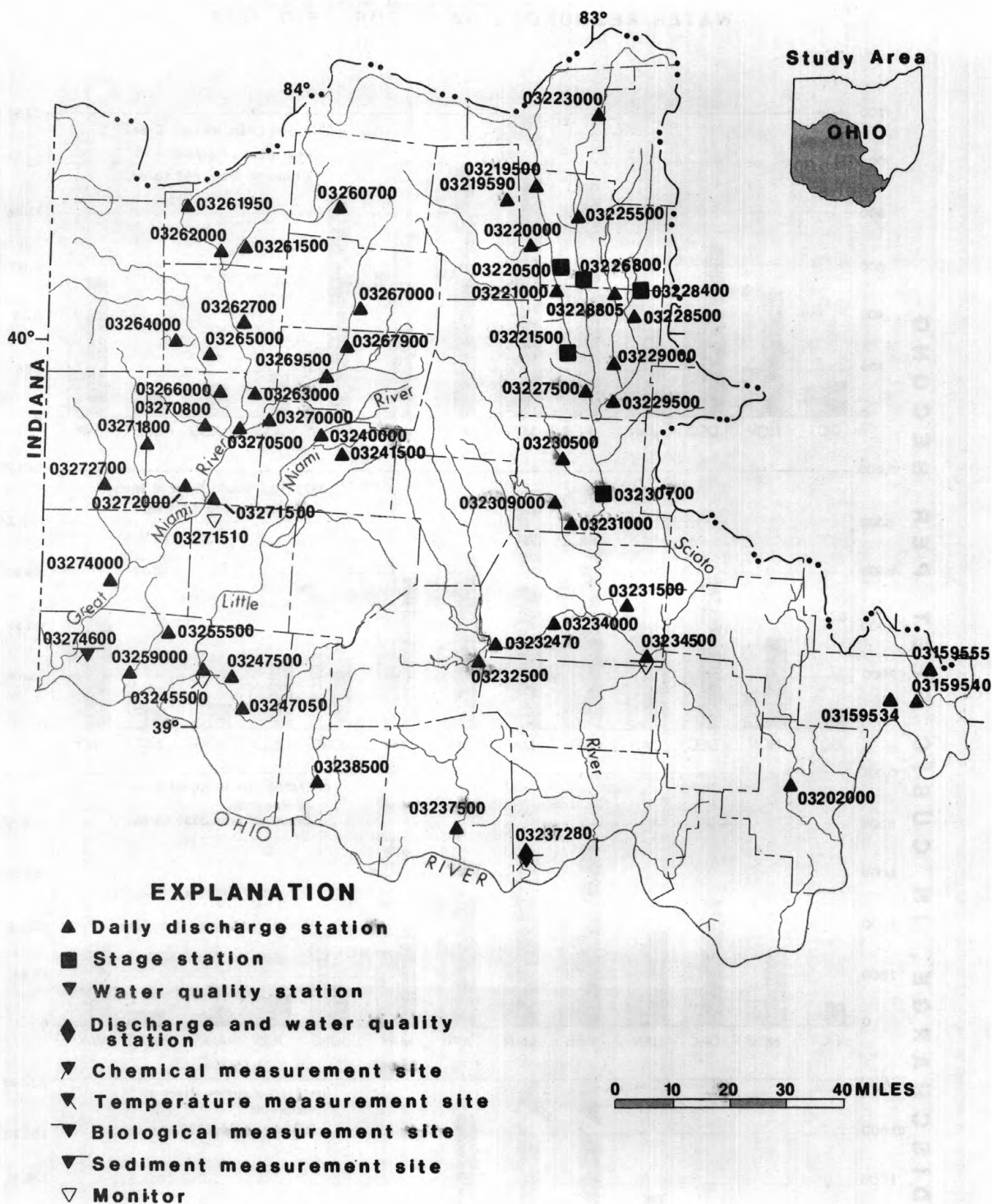
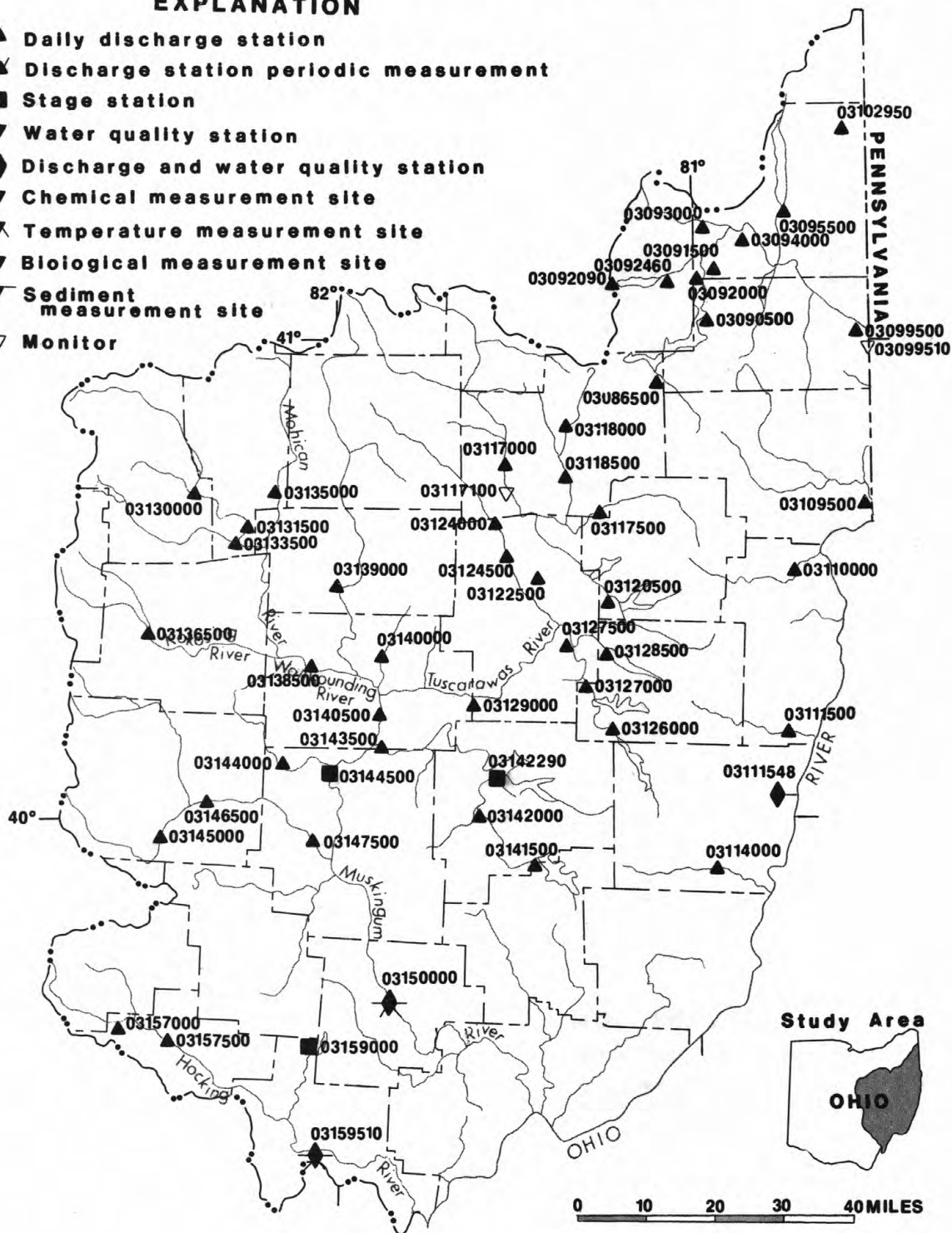


Figure 3a.--Location of data-collection stations excluding crest-stage and low-flow partial record sites.

- ▲ Daily discharge station
- ▼ Discharge station periodic measurement
- Stage station
- ▼ Water quality station
- ◆ Discharge and water quality station
- ▼ Chemical measurement site
- ▼ Temperature measurement site
- ▼ Biological measurement site
- ▼ Sediment measurement site
- ▽ Monitor



**Figure 3b.--Location of data-collection stations excluding crest-stage and low-flow partial record sites and wells.**



## WATER RESOURCES DATA FOR OHIO, 1985

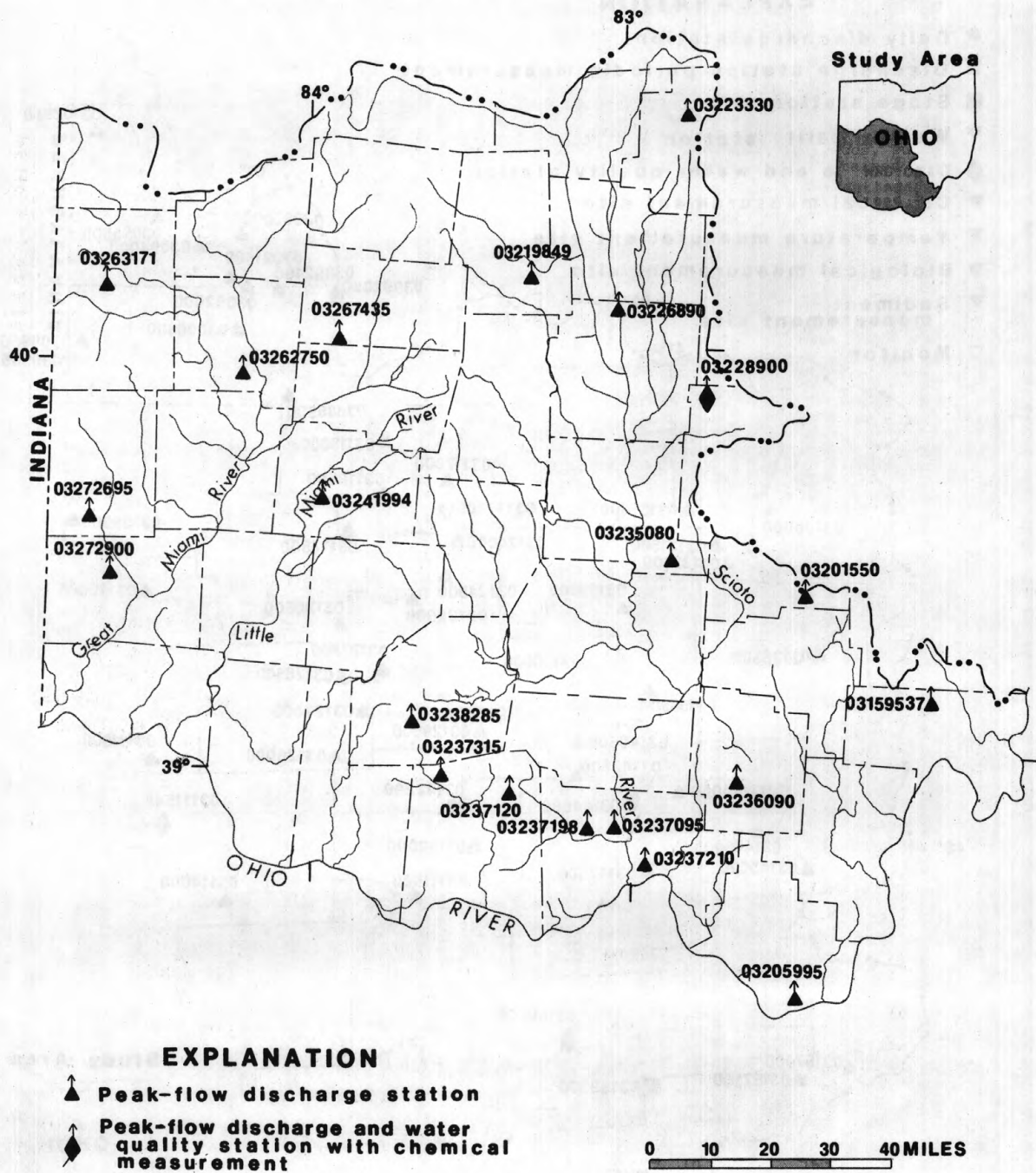


Figure 3c.--Location of crest-stage and low-flow partial record sites.

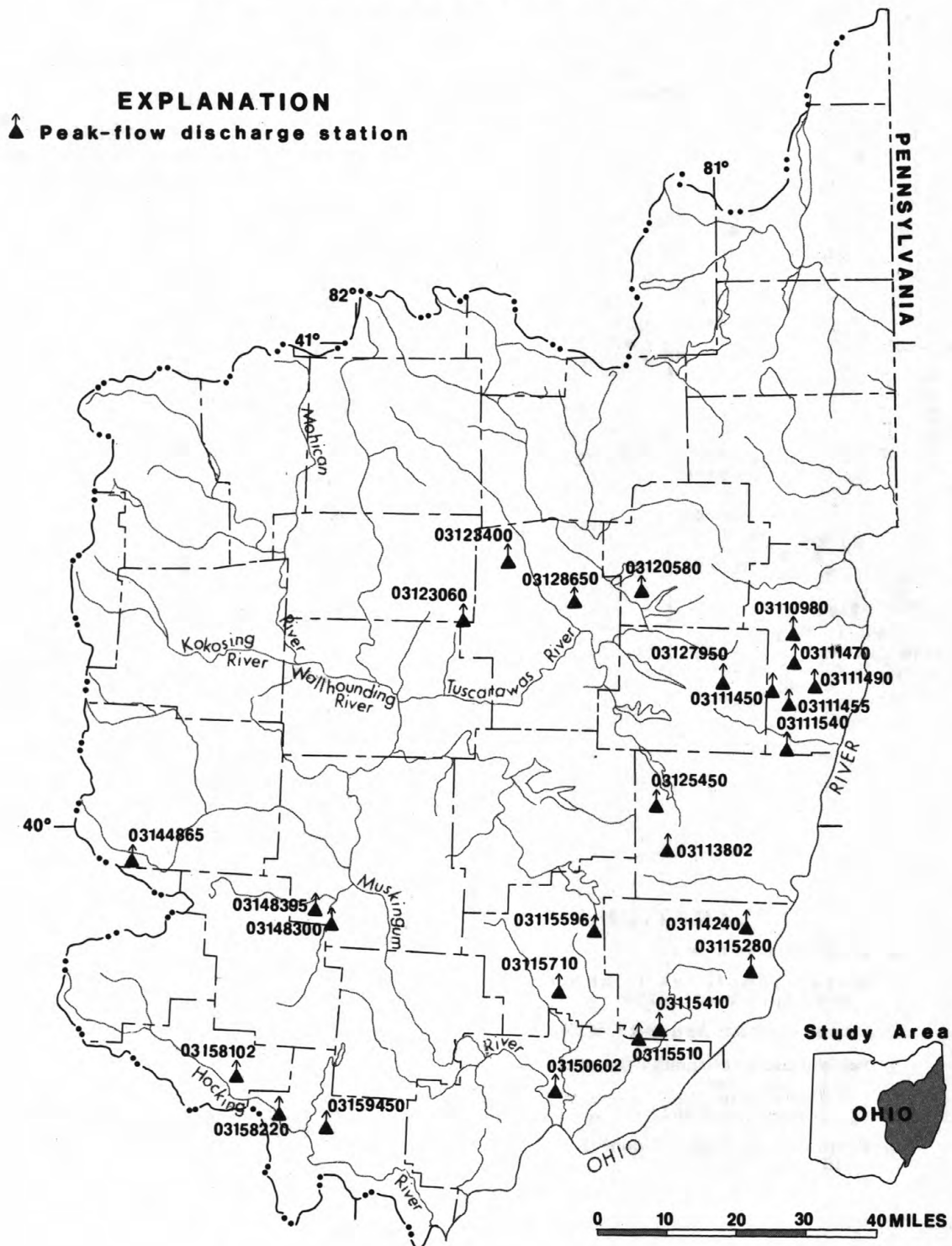


Figure 3d.--Location of crest-stage and low-flow partial record sites.

## WATER RESOURCES DATA FOR OHIO, 1985

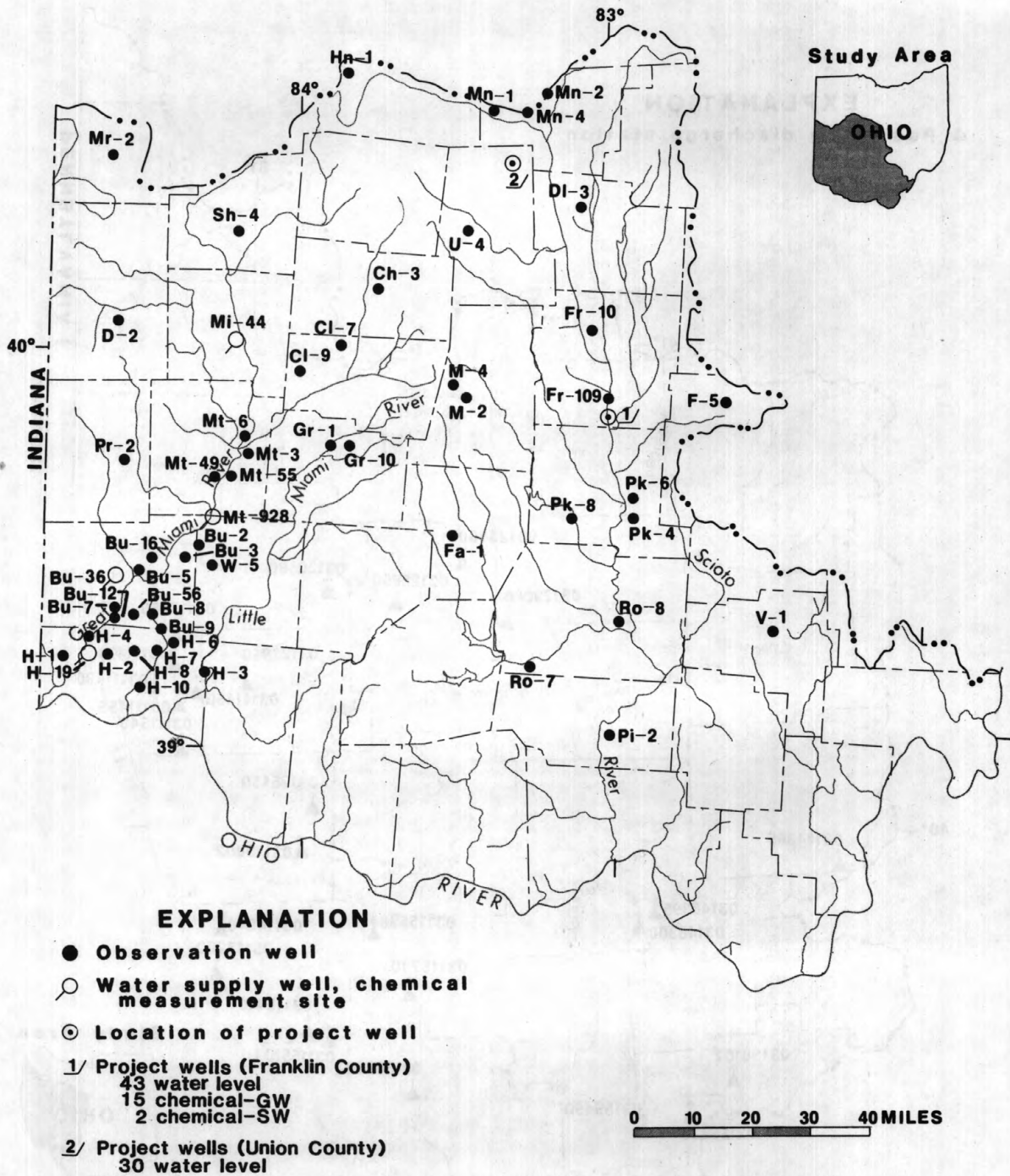


Figure 3e.--Location of wells.



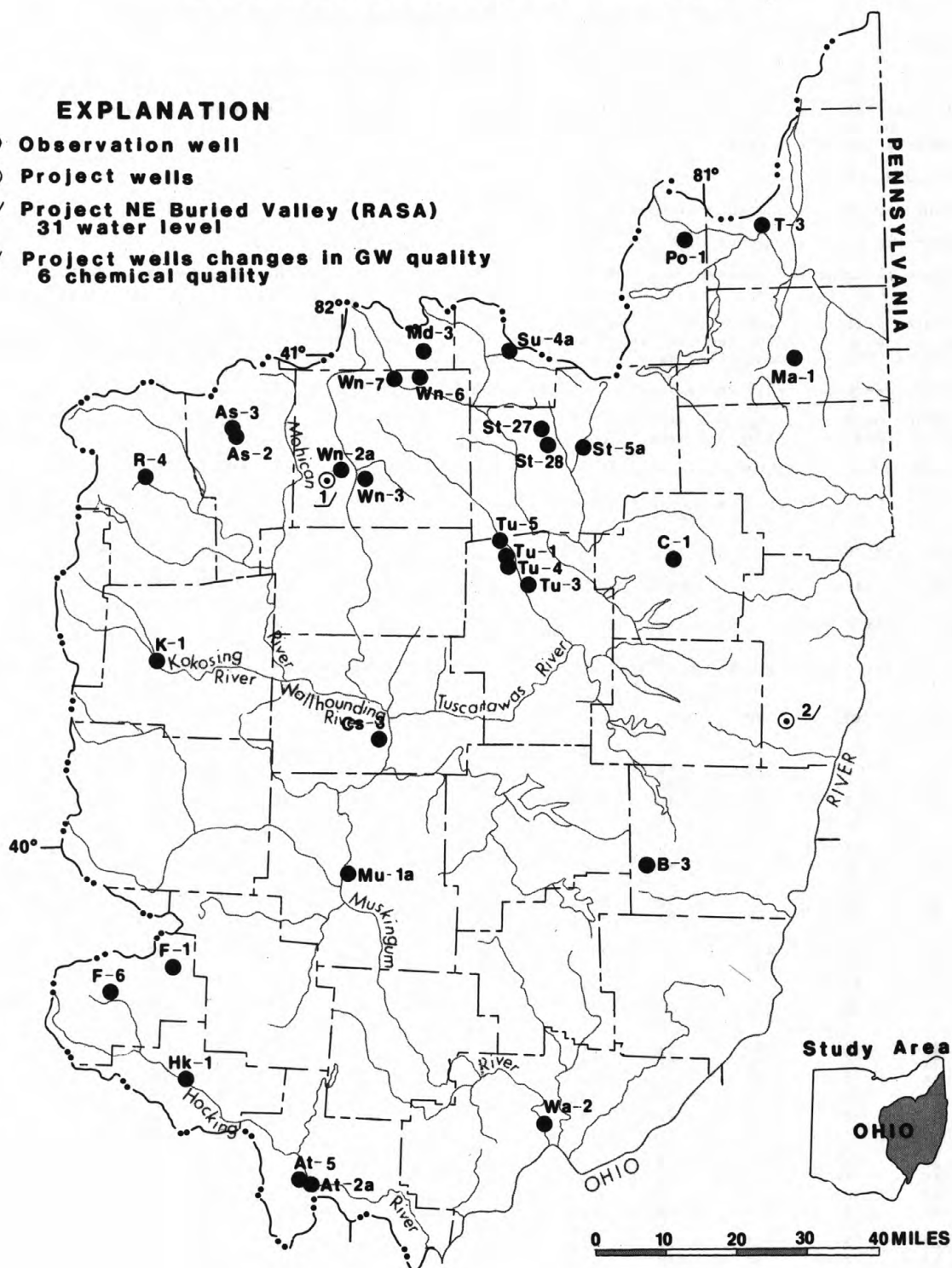


Figure 3f.--Location of wells.

## HYDROLOGIC-DATA STATION RECORDS

## OHIO RIVER BASIN

## BEAVER RIVER BASIN

03086500 MAHONING RIVER AT ALLIANCE, OH

LOCATION.--Lat 40°55'58", long 81°05'41", in SE 1/4 sec. 24, T.19 N., R.6 W., Stark County, Hydrologic Unit 05030103, on right bank 15 ft upstream from Webb Avenue Bridge in Alliance, 0.2 mi upstream from waterworks dam, and 4 mi upstream from Beech Creek.

DRAINAGE AREA.--89.2 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 1,037.3 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-9, Jan. 10 to July 11. Records fair except those for periods of ice effect, Dec. 6-9 and Jan. 10 to Feb. 22, which are poor. Flow slightly regulated by Westville Reservoir 9.3 mi upstream from station. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--44 years, 90.5 ft<sup>3</sup>/s, 13.78 in/yr, unadjusted for diversion 1941-55.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,740 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 9.11 ft, from rating curve extended above 3,300 ft<sup>3</sup>/s on basis of computation of peak flow over dam; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	2400	*2,720	*5.30	Apr. 1	0100	1,200	3.64
Mar. 12	2000	925	3.25	May 28	2400	1,290	3.76
Mar. 29	1600	2,440	5.04	May 31	1800	2,150	4.76

Minimum daily discharge, 4.1 ft<sup>3</sup>/s Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	115	41	32	241	18	140	978	22	988	10	15	31	
2	103	75	30	264	18	127	413	155	274	17	10	17	
3	50	64	38	238	18	106	279	151	134	57	8.1	10	
4	32	80	33	65	18	102	307	134	82	48	9.2	9.0	
5	27	236	24	58	18	257	168	116	110	37	9.5	7.8	
6	21	132	23	52	18	157	128	103	80	48	8.8	6.7	
7	25	83	23	50	18	106	113	96	50	33	13	7.3	
8	25	64	22	47	18	195	116	92	38	35	14	7.1	
9	22	68	21	35	18	152	174	80	36	41	8.9	6.4	
10	21	365	55	31	18	101	269	29	33	67	7.5	5.8	
11	21	414	247	28	18	90	283	42	40	46	11	5.0	
12	21	283	293	26	21	620	167	48	442	15	7.4	5.5	
13	21	134	297	25	28	606	127	49	440	12	7.4	4.4	
14	22	89	282	23	40	239	87	42	183	35	8.2	4.5	
15	22	72	255	22	56	156	76	36	114	180	11	5.0	
16	28	71	194	22	65	106	68	35	124	110	59	5.7	
17	23	56	256	21	55	90	46	32	110	36	65	5.5	
18	25	51	105	21	48	73	45	33	146	23	32	5.0	
19	29	51	66	20	44	57	56	30	82	18	21	4.8	
20	29	36	89	20	40	59	126	21	64	15	13	4.1	
21	84	34	74	20	38	53	32	24	46	14	9.5	4.6	
22	127	31	207	19	120	53	26	30	56	14	8.8	5.4	
23	135	29	115	19	1340	48	41	26	78	15	8.2	5.8	
24	127	28	74	19	2010	44	24	24	43	12	9.5	11	
25	120	28	58	19	1120	42	37	22	25	11	13	8.2	
26	122	27	38	19	478	31	30	20	17	11	12	9.6	
27	59	26	37	19	254	31	28	28	16	10	9.6	14	
28	37	35	47	19	172	45	26	749	14	9.1	6.9	12	
29	125	43	71	19	---	1580	24	934	12	8.6	6.5	9.7	
30	89	35	436	19	---	977	24	217	10	8.6	70	10	
31	52	---	301	19	---	840	---	1260	---	23	88	---	
TOTAL	1759	2781	3843	1519	6127	7283	4318	4680	3887	1019.3	581.0	247.9	
MEAN	56.7	92.7	124	49.0	219	235	144	151	130	32.9	18.7	8.26	
MAX	135	414	436	264	2010	1580	978	1260	988	180	88	31	
MIN	21	26	21	19	18	31	24	20	10	8.6	6.5	4.1	
CFSM	.64	1.04	1.39	.55	2.46	2.63	1.61	1.69	1.46	.37	.21	.09	
IN.	.73	1.16	1.60	.63	2.56	3.04	1.80	1.95	1.62	.43	.24	.10	
CAL YR 1984	TOTAL	46526.8		MEAN	127	MAX	1170	MIN	7.2	CFSM	1.42	IN	19.33
WTR YR 1985	TOTAL	38045.2		MEAN	104	MAX	2010	MIN	4.1	CFSM	1.17	IN.	15.87

## BEAVER RIVER BASIN

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03090500 MAHONING RIVER BELOW BERLIN DAM, NEAR BERLIN CENTER, OH

LOCATION.--Lat 41°02'54", long 81°00'05", in T.1 N., R.6 W., Mahoning County, Hydrologic Unit 05030103, on left bank 600 ft downstream from Berlin Dam, and 3.2 mi northwest of Berlin Center.

DRAINAGE AREA.--248 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 743: 1932. WSP 853: 1936. WSP 873: 1932-34, 1935(M), 1936-38. WSP 1907: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 958.00 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1942, at site 1.8 mi 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.

REMARKS.--Estimated daily discharges: Jan. 20 to Feb. 7. Records fair. Flow regulated since 1942 by Berlin Lake. Occasional small diversion during drought periods since 1958 from Berlin Lake to Meander Creek Reservoir, by the Berlin pipeline; diversion not included in figures of daily discharge. Water-quality data collected at this site 1965 to 1977.

COOPERATION.--Two discharge measurements furnished by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--55 years, 239 ft<sup>3</sup>/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,630 ft<sup>3</sup>/s Jan. 25, 1937 gage height, 10.97 ft, site and datum then in use; no flow at times during 1948-49, 1967, 1970-71.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft<sup>3</sup>/s June 1, gage height, 3.84 ft; minimum daily discharge, 48 ft<sup>3</sup>/s Apr. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	489	139	170	54	467	1180	72	1160	192	103	173
2	204	587	139	230	54	552	1190	102	1280	192	102	173
3	220	641	139	302	54	560	1050	138	1250	190	102	244
4	220	641	139	411	54	550	916	154	1220	188	100	288
5	220	640	139	448	54	583	794	154	1190	188	100	288
6	220	639	139	448	54	715	590	155	874	187	100	284
7	220	634	141	448	54	891	403	157	376	186	100	284
8	220	632	142	448	54	977	229	157	188	145	99	282
9	220	627	142	448	54	961	160	157	210	121	98	282
10	220	629	142	448	54	934	234	121	237	121	98	282
11	220	634	168	314	54	905	409	86	237	118	98	282
12	220	634	199	260	53	927	507	86	318	118	98	282
13	220	634	416	255	54	1050	506	86	403	118	101	282
14	217	634	592	260	54	1140	500	86	403	118	106	282
15	215	631	592	260	54	1100	403	87	403	118	86	282
16	170	627	592	213	54	1050	234	87	403	116	106	282
17	199	627	631	188	54	997	163	87	403	116	106	282
18	199	626	676	99	54	791	163	87	403	116	104	282
19	199	620	669	57	54	343	163	87	304	111	104	282
20	199	617	669	57	54	106	115	86	241	105	106	282
21	199	613	662	60	54	108	66	97	241	104	106	282
22	199	607	654	58	58	108	63	108	241	105	103	282
23	199	493	654	56	64	108	60	118	241	106	105	282
24	199	370	654	54	69	109	59	130	249	106	104	211
25	197	365	481	54	67	110	62	130	255	104	104	170
26	196	361	244	54	196	110	67	130	255	104	103	170
27	194	361	160	54	335	110	53	132	224	104	143	131
28	192	358	157	54	335	112	48	353	192	104	170	94
29	297	264	160	54	---	132	48	707	192	104	170	94
30	426	139	167	54	---	666	48	788	192	102	172	94
31	421	---	170	54	---	1120	---	900	---	103	173	---
TOTAL	6944	16374	10768	6370	2257	18392	10483	5825	13785	4010	3470	7210
MEAN	224	546	347	205	80.6	593	349	188	460	129	112	240
MAX	426	641	676	448	335	1140	1190	900	1280	192	173	288
MIN	170	139	139	54	53	106	48	72	188	102	86	94
CAL YR 1984	TOTAL	108201	MEAN	296	MAX	1130	MIN	16				
WTR YR 1985	TOTAL	105888	MEAN	290	MAX	1280	MIN	48				



## BEAVER RIVER BASIN

03091500 MAHONING RIVER AT PRICETOWN, OH

LOCATION.--Lat 41°07'53", long 80°58'17", in T.2 N., R.5 W., Mahoning County, Hydrologic Unit 05030103, on left bank 0.3 mi downstream from Milton Dam, 0.5 mi southwest of Pricetown, and 3 mi upstream from Kale Creek.

DRAINAGE AREA.--273 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 728: 1930(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 905.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 14, 1929 nonrecording gage at same site and datum.

REMARKS.-- No estimated daily discharges. Records fair. Flow regulated by Berlin Lake beginning 1942 and Milton Reservoir. Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District. Water-quality data collected at this site 1965 to 1977.

COOPERATION.--Four discharge measurements furnished by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--56 years, 261 ft<sup>3</sup>/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,770 ft<sup>3</sup>/s Jan. 25, 1937, gage height, 15.01 ft, from rating curve extended above 4,200 ft<sup>3</sup>/s on basis of velocity-area studies; minimum daily, 0.4 ft<sup>3</sup>/s Nov. 9, 1941, Feb. 19, 20, Oct. 11, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft<sup>3</sup>/s May 29, gage height, 5.26 ft; minimum daily discharge, 36 ft<sup>3</sup>/s Apr. 26 to May 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	535	249	127	69	483	884	36	1130	212	72	289
2	292	650	249	212	69	481	923	37	1130	212	86	288
3	293	759	166	280	69	483	1040	37	1140	212	107	287
4	292	757	72	380	69	483	1030	37	1140	210	105	287
5	292	754	72	489	69	483	1030	37	1140	209	107	287
6	292	750	72	489	69	587	887	38	1010	208	107	287
7	292	747	72	489	69	703	755	38	572	205	107	289
8	292	744	72	489	69	707	528	38	315	138	106	290
9	292	744	72	483	69	711	264	38	313	82	106	289
10	292	744	72	483	69	713	264	64	313	84	107	289
11	292	743	154	392	69	717	385	96	311	82	105	288
12	292	740	249	252	69	729	517	96	310	84	105	288
13	290	736	430	252	69	857	517	96	311	84	106	291
14	289	733	694	252	69	978	517	96	311	87	107	292
15	289	732	692	252	69	978	400	97	311	86	108	291
16	289	728	688	199	69	981	183	98	313	85	107	290
17	289	724	516	117	68	978	80	99	446	85	106	292
18	289	721	164	95	67	701	80	100	595	85	104	292
19	289	718	466	72	67	187	71	101	432	84	104	293
20	289	713	696	75	67	75	58	101	305	83	104	294
21	289	710	695	79	67	75	58	103	306	81	105	294
22	289	706	695	75	72	75	50	105	306	80	105	295
23	287	663	692	71	77	75	38	108	306	79	105	296
24	286	483	690	70	74	75	38	110	306	77	106	259
25	284	392	687	70	71	75	37	113	262	77	106	210
26	282	249	431	70	88	76	36	116	212	77	105	212
27	282	249	129	69	247	77	36	121	212	75	105	151
28	282	249	127	70	483	81	36	295	212	73	105	85
29	366	251	129	69	---	86	36	798	212	73	105	85
30	536	251	130	69	---	318	36	1140	212	72	141	85
31	535	---	127	69	---	1030	---	1130	---	73	236	---
TOTAL	9538	18675	10449	6660	2552	15058	10814	5519	14394	3454	3390	7765
MEAN	308	623	337	215	91.1	486	360	178	480	111	109	259
MAX	536	759	696	489	483	1030	1040	1140	1140	212	236	296
MIN	282	249	72	69	67	75	36	36	212	72	72	85
CAL YR 1984	TOTAL	112470	MEAN	307	MAX	1070	MIN	37				
WTR YR 1985	TOTAL	108268	MEAN	297	MAX	1140	MIN	36				

## BEAVER RIVER BASIN

31

03092000 KALE CREEK NEAR PRICETOWN, OH

LOCATION.--Lat 41°08'23", long 80°59'43", in T.3 N., R.5 W., Trumbull County, Hydrologic Unit 05030103, on right bank at downstream side of county line road bridge, 0.4 mi north of Mahoning-Trumbull County line, 1.5 mi northwest of Pricetown, 2.2 mi upstream from mouth, and 3.5 mi south of Newton Falls.

DRAINAGE AREA.--21.9 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 973: 1942. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 914.70 ft above National Geodetic Vertical Datum of 1929. Prior to June 27, 1941, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Nov. 10, Dec. 7-9, Jan. 9 to Feb. 21, June 20 to Sept. 30. Records fair except those for periods of estimated discharge, which are poor. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 23.3 ft<sup>3</sup>/s, 14.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,890 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 8.52 ft; no flow at times in 1952-55, 1962-66.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 30	1200	516	4.36	Mar. 12	1130	578	4.60
Feb. 23	2230	842	5.50	Mar. 29	0930	*861	*5.56

Minimum daily discharge, 0.04 ft<sup>3</sup>/s Sept. 14-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	2.6	.74	7.3	49	6.4	17	263	3.1	7.7	.86	.39	2.3	
2	8.2	5.4	8.1	37	6.6	15	55	4.7	4.1	.82	.36	.23	
3	2.8	9.3	8.2	20	6.6	13	78	13	2.5	.79	.24	.09	
4	.76	2.9	13	14	6.6	13	85	9.0	2.0	.72	.16	.07	
5	.36	52	8.7	12	6.6	86	31	5.7	1.9	.73	.13	.06	
6	.18	9.8	6.6	10	6.6	37	22	4.4	2.1	1.4	.12	.05	
7	.19	.80	5.8	9.3	6.6	20	23	5.2	2.5	1.9	.12	.05	
8	.20	.23	5.4	9.0	6.6	84	29	6.6	2.5	1.7	.12	.10	
9	.28	.14	5.2	7.4	6.6	50	44	4.7	2.6	1.0	.11	.09	
10	.36	106	7.3	7.0	6.6	23	54	3.7	2.5	5.4	.12	.08	
11	.36	101	71	6.4	6.6	18	56	3.1	2.4	4.6	.10	.07	
12	.49	67	107	6.0	6.6	416	29	2.9	6.2	1.6	.09	.06	
13	.41	31	75	5.8	9.0	123	19	3.6	14	.83	.10	.05	
14	.40	21	54	5.8	15	42	16	4.1	13	5.1	.11	.04	
15	.36	14	70	5.6	24	26	13	4.0	5.5	6.8	.17	.04	
16	.45	16	29	5.6	34	16	11	4.1	4.4	2.2	.51	.04	
17	.53	12	18	5.6	25	13	8.7	4.3	5.5	.88	.41	.04	
18	.62	8.5	13	5.6	20	10	7.4	4.7	5.1	.56	.22	.06	
19	1.1	7.2	11	5.6	17	8.9	6.7	5.5	7.2	.42	.18	.11	
20	.85	5.7	15	5.6	15	8.8	6.1	5.5	4.3	.34	.17	.16	
21	.71	4.9	14	5.6	14	8.2	5.6	5.7	2.8	.32	.15	.24	
22	1.6	4.6	87	5.6	95	7.5	4.9	5.4	2.3	.29	.11	.33	
23	4.0	4.4	36	5.6	688	7.6	4.6	4.9	2.2	.23	.10	.44	
24	5.7	4.1	16	5.6	655	10	4.7	4.5	1.9	.17	.09	.60	
25	2.9	4.0	13	5.8	219	14	7.7	4.1	1.6	.19	.13	.54	
26	1.8	3.8	9.1	5.8	57	10	9.8	3.8	1.3	.24	.20	.65	
27	1.3	3.7	7.9	6.0	33	8.5	6.2	3.8	1.1	.22	.20	.75	
28	1.3	4.5	13	6.2	22	21	4.6	172	1.1	.19	.17	.69	
29	17	7.1	37	6.2	---	687	3.8	91	1.0	.20	.21	.69	
30	15	7.9	377	6.4	---	183	3.4	11	.97	.19	3.2	.72	
31	2.1	---	89	6.4	---	271	---	6.3	---	.24	8.6	---	
TOTAL	74.91	519.71	1237.6	297.5	2021.0	2267.5	912.2	414.4	114.27	41.13	17.09	9.44	
MEAN	2.42	17.3	39.9	9.60	72.2	73.1	30.4	13.4	3.81	1.33	.55	.31	
MAX	.17	106	377	49	688	687	263	172	14	6.8	8.6	2.3	
MIN	.18	.14	5.2	5.6	6.4	7.5	3.4	2.9	.97	.17	.09	.04	
CFSM	.11	.79	1.82	.44	3.30	3.34	1.39	.61	.17	.06	.03	.01	
IN.	.13	.88	2.10	.51	3.43	3.85	1.55	.70	.19	.07	.03	.02	
CAL YR 1984	TOTAL	8813.38		MEAN	24.1	MAX	377	MIN	.14	CFSM	1.10	IN.	14.94
WTR YR 1985	TOTAL	7926.75		MEAN	21.7	MAX	688	MIN	.04	CFSM	.99	IN.	13.46

## BEAVER RIVER BASIN

03092090 WEST BRANCH MAHONING RIVER NEAR RAVENNA, OH

LOCATION.--Lat 41°09'41", long 81°11'50", in T.3 N., R.8 W., Portage County, Hydrologic Unit 05030103, on left bank at downstream side of bridge on Newton Falls Road, 2.5 mi east of Ravenna.

DRAINAGE AREA.--21.8 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 1,011.8 ft above Portage County bench mark.

REMARKS.--Estimated daily discharges: Dec. 6-9, Jan. 9 to Feb. 21. Records fair except those for periods of ice effect, Dec. 6-9, Jan. 9 to Feb. 21, which are poor. Water-quality data collected at this site 1966 to 1978.

AVERAGE DISCHARGE.--20 years, 28.2 ft<sup>3</sup>/s, 17.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft<sup>3</sup>/s Sept. 14, 1979, inside gage height 8.63 ft, outside gage height, 9.34 ft; minimum, 0.29 ft<sup>3</sup>/s Aug. 18, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 30	0400	459	4.60	Mar. 29	0500	*1300	*6.89
Feb. 23	1800	899	5.97				

Minimum daily discharge, 1.1 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	14	6.5	14	73	8.8	26	196	4.6	19	1.5	3.4	18	
2	9.2	16	13	60	8.6	27	83	7.4	11	2.4	2.3	9.4	
3	5.0	13	15	33	8.6	19	115	7.0	8.8	1.8	1.6	5.1	
4	3.2	29	13	25	8.6	56	86	4.9	6.8	1.8	1.3	3.4	
5	2.3	65	9.3	21	8.6	154	48	3.6	5.6	4.1	1.3	4.7	
6	1.7	29	8.8	17	8.6	45	48	3.8	6.5	5.0	1.4	4.5	
7	1.6	18	8.4	15	8.6	28	44	7.5	3.5	4.4	10	3.0	
8	2.6	12	8.0	13	8.6	76	44	5.1	2.4	4.9	8.3	3.1	
9	2.4	15	7.6	11	8.6	41	60	3.3	3.7	4.4	4.2	5.1	
10	2.4	100	20	9.8	8.6	23	55	2.5	3.1	14	2.3	5.3	
11	2.3	66	65	9.4	8.6	29	55	2.2	6.3	11	1.9	3.4	
12	2.3	47	65	9.2	8.6	214	40	1.9	43	5.7	1.6	2.9	
13	2.3	45	53	9.0	13	77	29	1.5	78	3.7	2.4	2.6	
14	2.1	44	58	8.8	17	45	29	1.3	39	24	4.2	3.0	
15	2.3	35	51	8.8	25	32	24	1.3	20	29	45	2.0	
16	2.6	36	29	8.8	23	24	21	2.7	25	11	49	1.8	
17	3.2	21	21	8.8	21	22	13	9.4	24	5.4	15	1.8	
18	3.5	15	17	8.8	20	20	11	11	21	2.9	7.4	1.7	
19	3.5	13	17	8.8	19	19	11	7.3	16	2.1	4.4	1.6	
20	3.5	10	17	8.8	18	19	9.8	3.2	13	1.8	3.2	1.7	
21	4.7	9.2	24	8.8	17	18	9.8	16	10	1.7	3.2	1.7	
22	6.3	8.3	104	8.8	210	16	10	7.9	8.2	2.1	3.4	2.0	
23	7.5	8.0	37	8.8	649	16	7.2	3.6	7.9	1.7	1.9	1.1	
24	6.2	7.6	22	8.8	505	19	8.3	1.9	12	1.7	3.5	4.6	
25	4.8	7.2	18	8.8	189	31	11	2.2	5.1	1.6	7.4	2.8	
26	4.5	6.7	19	8.8	66	24	8.2	1.3	3.3	4.4	5.4	3.7	
27	4.1	6.4	16	8.8	47	17	5.9	2.9	2.5	5.0	3.6	4.8	
28	7.5	11	55	8.8	32	95	5.3	75	2.3	2.8	2.4	3.6	
29	21	17	116	8.8	---	710	4.6	32	1.8	1.8	2.0	3.5	
30	12	12	293	8.8	---	185	4.8	14	1.9	1.4	65	3.3	
31	7.2	---	73	8.8	---	303	---	19	---	5.8	55	---	
TOTAL	157.8	728.9	1287.1	463.8	1974.4	2430	1096.9	267.3	410.7	170.9	323.0	115.2	
MEAN	5.09	24.3	41.5	15.0	70.5	78.4	36.6	8.62	13.7	5.51	10.4	3.84	
MAX	21	100	293	73	649	710	196	75	78	29	65	18	
MIN	1.6	6.4	7.6	8.8	8.6	16	4.6	1.3	1.8	1.4	1.3	1.1	
CFSM	.23	1.11	1.90	.69	3.23	3.60	1.68	.40	.63	.25	.48	.18	
IN.	.27	1.24	2.20	.79	3.37	4.15	1.87	.46	.70	.29	.55	.20	
CAL YR 1984	TOTAL	12077.0		MEAN	33.0	MAX	475	MIN	1.2	CFSM	1.51	IN.	20.56
WTR YR 1985	TOTAL	9426.0		MEAN	25.8	MAX	710	MIN	1.1	CFSM	1.18	IN.	16.08



BEAVER RIVER BASIN

33

03092460 WEST BRANCH MAHONING RIVER BELOW MICHAEL J. KIRWAN DAM, AT WAYLAND, OH

LOCATION.--Lat 41°09'25", long 81°04'19", in T.3 N., R.6 W., Portage County, Hydrologic Unit 05030103, on right bank 200 ft upstream from bridge on Wayland Road, 0.4 mi downstream from Michael J. Kirwan Dam, and 0.2 mi south of Wayland.

DRAINAGE AREA.--81.7 mi<sup>2</sup>.

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 National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). Prior to October 1971 at datum 0.89 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow completely regulated by Michael J. Kirwan Reservoir. Water-quality data collected at this site 1969 to 1977.

COOPERATION.--Two discharge measurements furnished by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--17 years, 106 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft<sup>3</sup>/s Feb. 25, 1971, gage height, 11.82 ft present datum; minimum daily, 2.5 ft<sup>3</sup>/s Apr. 9, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 521 ft<sup>3</sup>/s Apr. 3, gage height, 7.53 ft; minimum daily, 18 ft<sup>3</sup>/s June 15, 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	26	22	142	109	76	91	78	21	73	131	38
2	51	28	22	142	78	76	138	78	21	73	130	37
3	51	27	22	140	78	76	356	78	21	73	130	36
4	45	29	22	140	78	78	509	78	21	73	130	36
5	46	29	22	140	78	80	510	77	21	75	130	33
6	46	26	22	139	63	77	512	77	21	75	131	35
7	46	25	22	139	45	91	514	77	21	74	119	34
8	46	25	22	140	44	110	516	77	21	74	105	34
9	46	27	21	140	44	107	518	76	21	98	104	35
10	34	33	22	140	44	107	515	76	21	107	104	34
11	24	28	24	141	44	108	513	76	21	106	105	34
12	24	26	24	141	44	121	510	76	21	106	109	34
13	25	25	21	141	44	140	509	75	20	106	118	32
14	25	25	68	142	44	152	454	75	19	110	128	34
15	25	22	142	151	44	109	334	75	18	105	94	33
16	27	25	142	156	44	109	233	75	19	75	72	33
17	22	25	141	144	43	109	128	76	19	74	72	33
18	25	25	141	143	43	109	80	76	19	74	96	33
19	26	24	141	144	43	109	79	76	19	101	96	33
20	26	24	140	146	43	108	79	75	19	102	101	33
21	27	24	142	150	43	108	79	75	18	103	101	33
22	27	24	145	143	55	108	79	75	18	129	101	33
23	27	23	141	140	69	109	79	74	18	130	101	33
24	27	23	140	138	59	109	79	74	18	130	100	33
25	26	23	141	139	46	109	79	73	27	130	100	33
26	27	23	139	140	60	91	79	73	53	130	100	33
27	27	23	140	139	77	78	79	74	73	130	100	61
28	31	23	141	137	76	94	79	48	73	130	100	94
29	31	23	147	135	---	159	79	22	73	130	99	94
30	26	22	152	133	---	89	78	21	73	131	88	95
31	26	---	142	134	---	102	---	21	---	131	56	---
TOTAL	1014	755	2773	4379	1582	3208	7887	2157	848	3158	3251	1226
MEAN	32.7	25.2	89.5	141	56.5	103	263	69.6	28.3	102	105	40.9
MAX	52	33	152	156	109	159	518	78	73	131	131	95
MIN	22	22	21	133	43	76	78	21	18	73	56	32
CAL YR 1984	TOTAL	38353	MEAN	105	MAX	538	MIN	20				
WTR YR 1985	TOTAL	32238	MEAN	88.3	MAX	518	MIN	18				

## BEAVER RIVER BASIN

## 03093000 EAGLE CREEK AT PHALANX STATION, OH

LOCATION.--Lat 41°15'40", long 80°57'16", Trumbull County, Hydrologic Unit 05030103, on right bank 75 ft downstream from county road bridge, 1 mi north of Phalanx Station, 2 mi downstream from Tinkers Creek, and 4 mi upstream from mouth.

DRAINAGE AREA.--97.6 mi<sup>2</sup>.

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

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

GAGE.--Water-stage recorder. Datum of gage is 887.14 ft above National Geodetic Vertical Datum of 1929, (levels by Mahoning Valley Sanitary District). Prior to Sept. 14, 1929, nonrecording gage at same site and datum. Sept. 14, 1929 to Sept. 30, 1977 at same site and datum 0.28 ft higher.

REMARKS.--Estimated daily discharges: Dec. 6-9, Jan. 9 to Feb. 21. Records good except for periods with ice effect, Dec. 6-9, Jan. 9 to Feb. 21, which are fair. Low flow slightly regulated by mill several miles upstream from station. Water-quality data collected at this site 1965 to 1977.

COOPERATION.--One discharge measurement furnished by the U.S. Army Corps of Engineers during this year.

AVERAGE DISCHARGE.--56 years, 111 ft<sup>3</sup>/s, 15.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,150 ft<sup>3</sup>/s Sept. 15, 1979, gage height, 13.71 ft; minimum daily, 0.9 ft<sup>3</sup>/s Aug. 4, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	1200	3,570	12.32	Apr. 1	0900	1,780	10.73
Mar. 29	1730	*3,930	*12.50				

Minimum daily 6.6 ft<sup>3</sup>/s Sept. 16, 17, 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	39	54	70	381	54	158	1470	42	88	20	21	41	
2	70	76	81	408	54	141	638	43	49	21	19	27	
3	34	96	74	257	54	122	408	44	35	21	17	21	
4	25	79	87	162	54	134	544	41	32	20	17	19	
5	23	343	67	129	52	558	291	39	29	26	16	18	
6	22	285	54	105	52	466	207	37	28	53	16	17	
7	21	155	50	93	52	186	203	43	26	33	17	17	
8	23	98	48	92	52	290	198	41	24	25	31	18	
9	27	73	48	72	52	318	255	35	24	23	23	17	
10	27	305	68	66	52	169	250	32	24	30	18	16	
11	25	488	223	62	52	133	201	31	23	44	17	15	
12	25	376	357	58	54	570	163	30	142	27	15	10	
13	24	319	357	56	62	797	130	29	205	22	15	8.2	
14	24	295	306	56	80	311	118	28	190	57	15	7.1	
15	25	229	334	54	140	197	106	28	72	162	21	6.8	
16	28	284	212	54	120	132	92	29	71	52	128	6.6	
17	32	193	140	54	110	110	77	34	108	32	51	6.6	
18	33	121	114	54	100	99	73	50	75	26	25	6.7	
19	35	92	96	54	90	94	73	41	66	23	21	7.5	
20	35	75	111	54	84	91	70	33	47	21	20	6.6	
21	36	67	101	54	80	80	62	56	45	21	18	6.6	
22	42	61	385	54	238	70	60	66	36	24	19	6.8	
23	49	56	406	54	1030	69	58	39	38	22	18	8.0	
24	47	58	181	54	3120	91	51	32	34	20	17	9.4	
25	40	53	129	54	1790	131	61	29	28	20	20	10	
26	39	49	83	54	648	87	61	26	25	20	23	10	
27	43	48	83	54	297	72	50	26	23	23	19	12	
28	48	48	228	54	197	87	48	104	22	20	17	12	
29	171	80	349	54	---	2130	50	115	21	18	16	9.5	
30	130	71	791	54	---	1410	45	47	20	18	45	8.8	
31	69	---	824	54	---	790	---	45	---	18	154	---	
TOTAL	1311	4627	6457	2915	8820	10093	6113	1315	1650	962	889	385.2	
MEAN	42.3	154	208	94.0	315	326	204	42.4	55.0	31.0	28.7	12.8	
MAX	171	488	824	408	3120	2130	1470	115	205	162	154	41	
MIN	21	48	48	54	52	69	45	26	20	18	15	6.6	
CFSM	.43	1.58	2.13	.96	3.23	3.34	2.09	.43	.56	.32	.29	.13	
IN.	.50	1.76	2.46	1.11	3.36	3.85	2.33	.50	.63	.37	.34	.15	
CAL YR 1984	TOTAL	57754.0		MEAN	158	MAX	1220	MIN	17.0	CFSM	1.62	IN.	21.98
WTR YR 1985	TOTAL	45537.2		MEAN	125	MAX	3120	MIN	6.6	CFSM	1.28	IN.	17.36

## BEAVER RIVER BASIN

03094000 MAHONING RIVER AT LEAVITTSBURG, OH

LOCATION.--Lat 41°14'21", long 80°52'51", in T.4 N., R.4 W., Trumbull County, Hydrologic Unit 05030103, on right bank at upstream side of Leavitt Road Bridge at Leavittsburg, 300 ft downstream from Duck Creek and 1.2 mi downstream from Eagle Creek.

DRAINAGE AREA.--575 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 871.25 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Jan. 14 to Feb. 12. Records fair. Flow regulated by Berlin Lake, 25 mi upstream, beginning in 1942, by Milton Reservoir, 17 mi upstream, and by Michael J. Kirwan Reservoir, 20 mi upstream on West Branch, beginning in 1966. Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality data collected at this site 1943 to 1971.

COOPERATION.--One discharge measurement furnished by U.S. Army Corps of Engineers this year.

AVERAGE DISCHARGE.--45 years, 583 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 19.37 ft; minimum daily, 60 ft<sup>3</sup>/s July 6, 1952.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,690 ft<sup>3</sup>/s Mar. 30, gage height 13.32 ft; minimum daily, 153 ft<sup>3</sup>/s May 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	438	724	395	1030	230	912	4150	169	1250	277	251	432
2	466	778	404	886	230	880	2580	174	1240	283	241	358
3	413	1030	402	843	220	840	2190	189	1210	280	269	338
4	380	1060	266	719	220	860	2560	188	1200	278	277	328
5	357	1340	221	855	210	1380	2240	171	1200	299	278	327
6	353	1330	203	840	210	1490	1960	167	1180	352	280	324
7	349	1130	191	820	200	1230	1670	173	891	346	312	328
8	348	1040	188	810	190	1430	1590	174	388	302	316	334
9	360	1010	189	782	190	1560	1210	160	339	188	270	402
10	366	1470	226	757	190	1280	1210	153	332	249	244	364
11	350	1790	493	752	190	1190	1170	199	334	294	235	368
12	338	1640	992	541	240	2250	1320	204	425	243	231	354
13	336	1440	1010	491	326	2770	1260	200	570	218	236	342
14	336	1330	1300	440	390	2030	1230	196	600	590	276	336
15	336	1210	1490	390	438	1660	1130	197	447	640	292	334
16	353	1190	1330	350	450	1500	769	199	412	300	431	336
17	359	1130	1160	310	449	1430	470	207	463	220	355	335
18	358	1040	656	280	410	1360	324	227	684	200	228	334
19	360	992	608	250	387	693	297	225	667	190	207	332
20	367	957	1100	220	360	410	267	209	400	198	238	333
21	377	927	1150	200	347	359	247	218	365	223	243	329
22	390	910	1520	200	655	334	231	254	352	261	242	329
23	398	895	1550	210	2670	329	210	218	353	256	241	330
24	390	716	1230	220	5450	366	199	202	348	260	246	347
25	379	626	1130	220	3840	427	225	194	328	258	258	242
26	372	402	1010	220	1590	375	236	189	252	252	259	228
27	370	358	502	230	949	311	201	192	272	256	253	230
28	406	369	592	230	797	348	190	353	280	253	257	164
29	626	400	814	230	---	4150	185	962	279	244	256	170
30	828	409	1740	230	---	4410	177	1200	277	235	342	164
31	764	---	1830	230	---	2900	---	1230	---	253	510	---
TOTAL	12623	29643	25892	14786	22028	41464	31698	8993	17338	8698	8574	9472
MEAN	407	988	835	477	787	1338	1057	290	578	281	277	316
MAX	828	1790	1830	1030	5450	4410	4150	1230	1250	640	510	432
MIN	336	358	188	200	190	311	177	153	252	188	207	164
CAL YR 1984	TOTAL	262486	MEAN	717	MAX	3620	MIN	140				
WTR YR 1985	TOTAL	231209	MEAN	633	MAX	5450	MIN	153				



## BEAVER RIVER BASIN

03095500 MOSQUITO CREEK BELOW MOSQUITO CREEK DAM, NEAR CORTLAND, OH

LOCATION.--Lat 41°17'59", long 80°45'31", in T.5 N., R.3 W., Trumbull County, Hydrologic Unit 05030103, on right bank 100 ft downstream from Mosquito Creek Dam, 0.8 mi upstream from Confusion Run, and 2.5 mi southwest of Cortland.

DRAINAGE AREA.--97.5 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 873.98 ft above U.S. Army 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.

REMARKS.--No estimated daily discharges. Records poor prior to Nov. 20 fair thereafter. Flow completely regulated by Mosquito Creek Lake beginning 1943. Diversion at lake outlet for municipal supply of city of Warren since May 1954; diversion not included in figures of daily discharge. Water-quality data collected at this site 1965 to 1977.

COOPERATION.--Two discharge measurements furnished by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--45 years, 87.7 ft<sup>3</sup>/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft<sup>3</sup>/s Jan. 19, 1929, gage height, 11.5 ft, from floodmark, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 485 ft<sup>3</sup>/s Nov. 19, gage height, 3.19 ft, minimum daily 4.9 ft<sup>3</sup>/s Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	62	11	13	11	13	8.1	22	18	23	88	128
2	289	64	11	13	11	13	7.8	22	18	20	110	128
3	288	61	12	13	11	14	8.4	23	19	20	135	128
4	307	68	12	13	11	14	8.8	23	19	20	135	128
5	302	67	12	13	11	11	8.8	23	18	20	135	128
6	298	63	12	13	11	5.4	9.1	23	19	20	135	128
7	293	66	12	13	11	5.7	8.8	24	19	20	135	128
8	290	68	11	13	11	6.0	9.6	24	19	20	134	128
9	287	67	11	13	11	6.0	11	24	18	20	134	128
10	283	67	11	13	11	6.0	15	25	19	20	134	128
11	278	72	11	13	11	6.2	22	24	19	21	134	128
12	275	83	11	13	11	5.9	23	24	19	25	134	128
13	273	100	11	13	11	5.6	23	23	19	24	134	128
14	194	118	11	12	11	5.7	23	23	19	25	126	128
15	119	129	11	12	11	5.7	21	23	19	25	130	127
16	126	164	11	12	11	5.9	21	24	19	25	130	126
17	132	220	11	12	11	6.0	21	25	20	25	130	126
18	131	257	9.4	12	11	6.0	21	26	20	24	130	126
19	124	346	11	12	11	6.0	16	26	20	25	130	126
20	112	324	11	13	11	6.0	16	26	20	25	130	126
21	106	322	11	13	11	6.0	16	25	20	24	130	126
22	102	320	11	12	11	6.0	16	24	20	54	130	126
23	102	317	11	12	12	6.0	16	22	20	89	130	126
24	102	227	11	12	13	5.8	17	21	21	88	130	126
25	98	133	11	12	13	5.3	17	18	21	88	130	126
26	79	133	11	12	13	5.1	17	20	21	88	130	126
27	62	101	11	12	13	4.9	17	20	21	88	129	126
28	59	39	12	12	13	5.0	19	21	21	88	128	126
29	55	11	12	11	---	6.5	19	21	22	88	128	126
30	56	11	13	11	---	5.9	18	21	25	88	128	126
31	57	---	13	11	---	6.9	---	17	---	88	128	---
TOTAL	5571	4080	350.4	384	319	216.5	474.4	707	592	1318	4004	3809
MEAN	180	136	11.3	12.4	11.4	6.98	15.8	22.8	19.7	42.5	129	127
MAX	307	346	13	13	13	14	23	26	25	89	135	128
MIN	55	11	9.4	11	11	4.9	7.8	17	18	20	88	126
(+)	23.8	21.7	20.8	22.8	25.0	22.9	22.3	23.5	23.5	24.7	24.4	24.2
CAL YR 1984 TOTAL	47245.4			MEAN 129		MAX 570		MIN 9.4	(+)	24.7		
WTR YR 1985 TOTAL	21825.3			MEAN 59.8		MAX 346		MIN 4.9	(+)	23.3		

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

## BEAVER RIVER BASIN

37

03099500 MAHONING RIVER AT LOWELLVILLE, OH

LOCATION.--Lat 41°02'12", long 80°32'11", in T.1 N., R.1 W., Mahoning County, Hydrologic Unit 05030103, on left bank 100 ft upstream from First Street Bridge at Lowellville, 1 mi upstream from Ohio-Pennsylvania State line, and 3 mi downstream from Yellow Creek.

DRAINAGE AREA.--1,073 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1555: 1946(M), 1952(M), 1955(M), 1956. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 796.84 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 26, 1944, nonrecording gage at site 300 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by 5 flood control reservoirs at points 21 mi to 58 mi upstream and by reservoirs on Squaw Creek, 15 mi upstream, on Dry Run, 9 mi upstream, and on Yellow Creek, 5 mi upstream. Water-quality data collected at this site 1949 to 1973.

AVERAGE DISCHARGE.--43 years, 1,116 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 21,000 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 14.43 ft; minimum daily, 155 ft<sup>3</sup>/s Feb. 5, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 17.8 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,900 ft<sup>3</sup>/s Mar. 29, gage height, 11.35 ft; minimum daily, 352 ft<sup>3</sup>/s, May 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1750	913	721	2610	525	1410	7560	379	1700	520	684	1030
2	1350	1140	674	1750	504	1370	5930	477	1620	544	617	866
3	1120	1170	738	1460	452	1250	4200	499	1530	543	615	821
4	974	1690	707	1210	430	1280	4060	459	1490	535	691	799
5	919	2700	540	1150	437	2430	3450	411	1510	562	708	787
6	898	2330	510	1170	454	2500	2950	393	1490	819	724	779
7	877	1710	476	1130	443	1930	2510	457	1320	776	763	761
8	884	1370	456	1100	400	2630	2350	406	876	619	837	774
9	880	1420	458	1010	375	2730	2220	378	625	559	778	947
10	871	4160	575	964	365	2090	2130	358	588	790	719	890
11	864	3940	1280	955	393	1800	2110	352	573	657	691	842
12	833	3380	1990	871	578	5060	2020	384	1090	576	688	800
13	816	2900	2110	712	809	5170	1930	391	1170	506	708	765
14	804	2590	2160	705	777	3750	1830	387	1080	1610	790	727
15	803	2280	2470	676	785	2770	1680	403	883	1980	793	712
16	805	2150	2220	646	767	2220	1360	423	842	1170	1030	724
17	696	2000	1850	659	764	1960	956	470	791	632	997	746
18	654	1840	1460	591	729	1820	717	457	965	469	775	738
19	648	1770	1070	569	717	1380	616	443	1060	425	676	740
20	626	1700	1350	465	693	886	567	429	889	413	667	736
21	617	1620	1650	420	700	692	512	474	674	441	701	742
22	729	1580	2410	453	1910	633	492	469	735	527	695	739
23	704	1530	2520	488	5820	629	482	472	745	509	696	741
24	680	1460	2070	502	9270	756	490	433	651	569	747	872
25	648	1230	1700	513	9070	821	595	413	607	577	874	760
26	647	1040	1530	498	4660	756	543	398	562	664	755	714
27	611	813	1230	492	2270	659	483	587	495	616	744	769
28	616	837	972	503	1590	745	447	1830	526	583	710	628
29	1340	847	1480	508	---	11000	423	1360	524	588	711	560
30	1190	756	3670	507	---	9740	393	1550	519	593	1790	553
31	1030	---	3700	519	---	7100	---	1680	---	794	1250	---
TOTAL	26884	54866	46747	25806	46687	79967	56006	18022	28130	21166	24624	23062
MEAN	867	1829	1508	832	1667	2580	1867	581	938	683	794	769
MAX	1750	4160	3700	2610	9270	11000	7560	1830	1700	1980	1790	1030
MIN	611	756	456	420	365	629	393	352	495	413	615	553
CAL YR 1984	TOTAL	530071		MEAN	1148	MAX	6850	MIN	323			
WTR YR 1985	TOTAL	451967		MEAN	1238	MAX	11000	MIN	352			

## BEAVER RIVER BASIN

03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH

LOCATION.--Lat 41°01'53", long 80°31'10", Mahoning County, Hydrologic Unit 05030103, on left bank 800 ft upstream from Ohio-Pennsylvania State line, just below Lowellville, 0.9 mi downstream from gaging station at Lowellville, and 3.9 mi downstream from Yellow Creek.

DRAINAGE AREA.--1,075 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1967 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1967 to current year.

pH: January 1967 to current year.

WATER TEMPERATURES: January 1967 to current year.

DISSOLVED OXYGEN: January 1967 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument. See records of daily discharge for gaging station at Lowellville (station 03099500).

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,640 microsiemens Feb. 22, 1979; minimum, 172 microsiemens March 30, 1985.

pH: Maximum, 9.9 units Jan. 26, 1969; minimum, 3.0 units Jan. 24, 1967.

WATER TEMPERATURES: Maximum, 39.0°C June 29, 1971; minimum, 0.0°C Dec. 25, 1983.

DISSOLVED OXYGEN: Maximum, 14.2 mg/L Mar. 25, 1970; minimum, 0.0 mg/L June 1, 1975, June 17, 1977.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,170 microsiemens Feb. 13; minimum, 172 microsiemens Mar. 30.

pH: Maximum recorded, 8.0 units Mar. 31; minimum recorded, 6.9 units Oct. 13.

WATER TEMPERATURES: Maximum, 29.5°C July 12, 14; minimum, 2.0°C Feb. 4, 23, 24.

DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L Apr. 11, 12; minimum recorded, 1.9 mg/L July 14.



03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	438	378	414	532	518	527	616	594	604	378	350	360
2	452	436	440	532	498	517	618	602	609	414	378	398
3	470	452	460	534	510	522	616	594	607	440	416	429
4	470	450	461	520	444	493	616	604	608	472	442	452
5	470	460	466	484	464	475	624	608	612	494	472	480
6	468	454	458	488	474	481	646	624	633	504	478	489
7	460	448	452	488	476	481	758	652	701	542	504	516
8	468	446	453	494	480	488	674	660	668	566	534	555
9	472	440	450	508	466	497	814	666	731	556	532	544
10	488	444	452	446	400	426	806	694	744	554	524	533
11	454	442	448	432	398	410	784	660	721	626	546	568
12	456	452	454	416	404	410	664	574	621	632	560	582
13	466	444	454	468	412	444	570	512	528	644	580	606
14	460	442	449	464	448	454	516	476	498	610	590	599
15	462	450	454	468	454	458	494	472	481	604	574	587
16	462	414	441	474	458	464	490	482	485	606	578	589
17	500	460	477	474	462	466	506	486	494	592	572	583
18	520	486	498	474	462	467	540	506	520	622	594	609
19	524	512	518	476	466	470	622	534	558	652	620	636
20	528	510	517	482	466	474	564	522	547	654	612	628
21	534	514	520	484	470	477	538	490	511	636	626	633
22	522	496	508	484	474	478	524	500	509	---	---	---
23	504	490	496	488	476	480	500	468	481	---	---	---
24	520	504	510	496	480	485	474	464	470	---	---	---
25	528	514	520	498	484	490	496	476	485	696	680	687
26	528	512	520	520	486	497	524	494	505	732	630	675
27	530	520	524	542	520	526	732	518	586	656	628	641
28	532	520	525	600	536	551	616	566	582	644	616	629
29	540	476	513	566	546	555	616	464	563	642	616	628
30	530	474	504	596	566	584	478	426	454	646	618	631
31	526	514	520	---	---	---	420	356	391	674	632	647
MONTH	540	378	480	600	398	485	814	356	565	732	350	568
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	816	698	742	514	466	487	322	222	270	630	608	618
2	740	658	698	550	510	525	268	222	243	614	584	602
3	702	664	683	558	542	548	332	250	291	648	606	627
4	720	656	686	608	550	569	336	284	305	652	634	640
5	692	660	683	610	546	575	314	276	293	640	612	623
6	704	676	688	542	480	508	376	296	335	626	604	618
7	740	694	718	480	462	469	406	366	390	624	586	606
8	700	690	696	536	488	515	408	392	401	632	604	621
9	712	684	695	516	478	495	572	390	471	632	628	631
10	720	696	706	488	476	480	534	464	495	642	618	631
11	778	704	726	506	482	491	468	460	464	644	628	635
12	1140	812	977	494	430	454	462	438	453	638	604	619
13	1170	1010	1070	422	348	377	446	434	439	616	604	609
14	1100	944	991	402	348	371	442	434	436	630	590	611
15	956	846	904	444	406	428	446	430	439	604	576	591
16	842	806	823	460	444	453	476	442	453	596	580	586
17	806	774	787	470	458	465	512	474	487	608	562	590
18	872	764	801	480	470	473	534	516	524	614	594	604
19	818	794	807	524	464	481	556	534	545	604	586	595
20	826	800	815	554	514	530	566	556	561	592	578	584
21	856	818	829	570	554	562	572	560	566	596	558	583
22	926	814	877	586	566	577	580	562	570	658	562	581
23	798	486	652	596	586	589	596	578	587	594	578	586
24	478	336	396	592	562	579	596	584	590	598	584	595
25	332	296	312	584	574	578	608	566	585	620	594	608
26	382	318	347	592	560	574	600	586	593	600	586	592
27	434	386	412	582	566	574	612	594	603	608	486	585
28	464	432	446	588	370	565	606	594	602	586	374	509
29	---	---	---	396	216	300	612	588	600	564	496	524
30	---	---	---	276	172	214	626	610	619	518	472	491
31	---	---	---	316	210	261	---	---	---	482	426	442
MONTH	1170	296	713	610	172	486	626	222	474	658	374	592

## BEAVER RIVER BASIN

03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	446	438	441	554	538	548	524	468	513	470	428	452
2	440	430	434	564	532	548	518	504	510	472	454	461
3	438	426	432	548	534	542	524	508	515	466	430	445
4	440	426	432	572	546	564	512	498	503	476	456	460
5	436	426	431	556	530	548	502	474	488	486	468	478
6	434	422	429	554	444	528	486	470	478	494	466	477
7	444	420	429	510	428	492	488	470	479	498	470	481
8	476	440	451	504	464	483	494	460	474	490	460	469
9	488	476	479	530	506	522	490	464	476	472	452	462
10	528	488	506	544	432	504	496	470	480	462	444	455
11	544	520	531	552	518	541	480	468	474	490	450	460
12	528	414	487	574	548	559	476	468	473	494	470	480
13	520	488	501	572	552	564	492	466	480	494	470	480
14	516	492	503	590	444	537	484	458	471	492	478	486
15	512	496	504	444	306	374	498	470	484	496	470	480
16	504	476	491	458	408	437	496	438	463	480	466	474
17	526	492	507	510	462	484	482	452	466	486	468	476
18	522	500	509	534	514	528	476	462	467	488	474	479
19	518	492	504	558	536	551	484	476	480	492	476	482
20	516	488	496	578	556	572	494	472	486	496	474	483
21	528	498	514	584	568	575	484	462	471	486	470	477
22	528	500	520	578	570	575	490	476	481	484	470	476
23	526	466	506	582	560	570	496	470	482	480	464	473
24	532	518	526	560	536	548	494	468	480	450	420	439
25	544	530	537	562	538	552	496	406	448	480	450	468
26	548	528	540	538	496	518	474	466	470	488	468	476
27	566	538	553	514	500	507	486	462	472	490	426	464
28	570	544	556	528	504	513	476	462	469	496	488	493
29	564	548	559	534	504	518	492	474	483	502	484	492
30	564	536	550	524	506	514	492	320	434	498	484	491
31	---	---	---	516	414	483	450	422	435	---	---	---
MONTH	570	414	495	590	306	526	524	320	477	502	420	472
YEAR	1170	172	526									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.2	7.0	7.1	7.5	7.4	7.5	7.5	7.5	7.5	7.4	7.3	7.4
2	7.2	7.1	7.2	7.5	7.4	7.5	7.6	7.5	7.6	7.4	7.4	7.4
3	7.2	7.1	7.1	7.6	7.4	7.5	7.6	7.6	7.6	7.5	7.4	7.5
4	7.1	7.1	7.1	7.6	7.5	7.5	7.7	7.6	7.6	7.5	7.4	7.5
5	7.1	7.1	7.1	7.6	7.5	7.6	7.7	7.6	7.6	7.6	7.5	7.5
6	7.2	7.0	7.1	7.6	7.5	7.6	7.7	7.6	7.6	7.6	7.5	7.6
7	7.1	7.1	7.1	7.6	7.5	7.6	7.6	7.5	7.6	7.7	7.3	7.6
8	7.1	7.0	7.0	7.6	7.4	7.5	7.6	7.5	7.5	7.7	7.5	7.6
9	7.1	7.0	7.0	7.6	7.5	7.5	7.7	7.6	7.7	7.6	7.5	7.6
10	7.1	7.0	7.0	7.8	7.5	7.6	7.6	7.6	7.6	7.6	7.5	7.5
11	7.1	7.0	7.0	7.6	7.6	7.6	7.7	7.6	7.6	7.5	7.3	7.5
12	7.1	7.0	7.1	7.6	7.5	7.6	7.7	7.7	7.7	7.5	7.4	7.4
13	7.2	6.9	7.0	7.6	7.6	7.6	7.7	7.7	7.7	7.5	7.4	7.4
14	7.1	7.0	7.0	7.7	7.6	7.6	7.7	7.7	7.7	7.5	7.3	7.4
15	7.1	7.0	7.1	7.7	7.6	7.6	7.9	7.6	7.7	7.5	7.3	7.4
16	7.1	7.0	7.1	7.6	7.6	7.6	7.8	7.7	7.7	7.4	7.2	7.3
17	7.1	7.0	7.0	7.7	7.6	7.7	7.8	7.7	7.7	7.4	7.4	7.4
18	7.1	7.0	7.0	7.7	7.6	7.7	7.8	7.7	7.7	7.5	7.3	7.4
19	7.1	7.0	7.1	7.7	7.6	7.7	7.7	7.5	7.6	7.5	7.1	7.3
20	7.1	7.0	7.1	7.7	7.6	7.6	7.5	7.4	7.5	7.7	7.4	7.5
21	7.0	7.0	7.0	7.7	7.6	7.7	7.6	7.5	7.5	7.5	7.4	7.5
22	7.1	7.0	7.0	7.7	7.6	7.7	7.7	7.5	7.6	---	---	---
23	7.4	7.1	7.4	7.8	7.7	7.7	7.7	7.6	7.6	---	---	---
24	7.4	7.3	7.4	7.8	7.6	7.7	7.7	7.6	7.6	---	---	---
25	7.4	7.3	7.4	7.8	7.7	7.7	7.7	7.5	7.6	7.4	7.3	7.4
26	7.4	7.3	7.4	7.7	7.6	7.6	7.7	7.6	7.6	7.5	7.4	7.4
27	7.4	7.3	7.3	7.6	7.5	7.6	7.7	7.5	7.6	7.5	7.4	7.5
28	7.4	7.3	7.4	7.6	7.5	7.6	7.6	7.5	7.6	7.5	7.4	7.4
29	7.4	7.3	7.4	7.6	7.5	7.5	7.5	7.4	7.5	7.5	7.4	7.4
30	7.5	7.4	7.4	7.5	7.5	7.5	7.5	7.4	7.5	7.5	7.4	7.4
31	7.5	7.4	7.4	---	---	---	7.5	7.4	7.4	7.5	7.4	7.4
MONTH	7.5	6.9	7.2	7.8	7.4	7.6	7.9	7.4	7.6	7.7	7.1	7.5

PH (STANDARD UNITS). WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.4	7.4	7.4	7.6	7.1	7.5	7.8	7.6	7.7	7.4	7.2	7.3
2	7.5	7.4	7.4	7.7	7.4	7.6	7.8	7.5	7.7	7.4	7.1	7.4
3	7.6	7.5	7.5	7.7	7.7	7.7	7.8	7.6	7.7	7.5	7.3	7.4
4	7.6	7.5	7.6	7.8	7.7	7.7	7.8	7.6	7.7	7.5	7.3	7.4
5	7.6	7.5	7.5	7.7	7.7	7.7	7.7	7.6	7.6	7.5	7.4	7.5
6	7.5	7.4	7.4	7.7	7.5	7.6	7.8	7.6	7.7	7.5	7.4	7.4
7	7.5	7.4	7.4	7.6	7.6	7.6	7.7	7.6	7.7	7.5	7.4	7.4
8	7.5	7.3	7.5	7.8	7.6	7.7	7.7	7.6	7.6	7.4	7.4	7.4
9	7.5	7.4	7.4	7.7	7.6	7.7	7.6	7.5	7.6	7.4	7.3	7.4
10	7.5	7.4	7.5	7.7	7.6	7.7	7.7	7.5	7.6	7.5	7.4	7.5
11	7.5	7.3	7.4	7.7	7.5	7.7	7.7	7.5	7.6	7.5	7.3	7.4
12	7.4	7.3	7.3	7.7	7.4	7.6	7.7	7.3	7.5	7.5	7.4	7.4
13	7.5	7.3	7.4	7.6	7.6	7.6	7.6	7.3	7.5	7.4	7.4	7.4
14	7.5	7.4	7.5	7.6	7.5	7.6	7.7	7.3	7.5	7.6	7.4	7.5
15	7.6	7.4	7.5	7.6	7.6	7.6	7.6	7.3	7.5	7.5	7.4	7.4
16	7.5	7.5	7.5	7.7	7.5	7.6	7.6	7.3	7.5	7.4	7.3	7.4
17	7.5	7.4	7.4	7.7	7.6	7.7	---	---	---	7.4	7.3	7.4
18	7.5	7.4	7.4	7.7	7.5	7.6	---	---	---	7.4	7.4	7.4
19	7.4	7.4	7.4	7.7	7.5	7.6	---	---	---	7.5	7.4	7.5
20	7.5	7.4	7.4	7.7	7.5	7.6	---	---	---	7.5	7.4	7.4
21	7.4	7.3	7.4	7.8	7.5	7.6	---	---	---	7.5	7.4	7.4
22	7.4	7.3	7.3	7.6	7.6	7.6	---	---	---	7.5	7.4	7.5
23	7.6	7.4	7.5	7.6	7.5	7.6	7.6	7.0	7.3	7.5	7.3	7.4
24	7.6	7.4	7.5	7.7	7.5	7.6	7.5	7.1	7.2	7.5	7.4	7.4
25	7.6	7.5	7.5	7.8	7.6	7.7	7.5	7.0	7.2	7.5	7.4	7.4
26	7.6	7.5	7.5	7.8	7.6	7.7	7.6	7.1	7.3	7.5	7.4	7.4
27	7.6	7.6	7.6	7.7	7.5	7.6	7.4	7.1	7.3	7.5	7.4	7.4
28	7.6	7.5	7.6	7.7	7.5	7.6	7.6	7.2	7.4	7.6	7.4	7.5
29	---	---	---	7.8	7.7	7.8	7.6	7.2	7.4	7.5	7.4	7.5
30	---	---	---	7.9	7.4	7.6	7.5	7.1	7.3	7.5	7.4	7.5
31	---	---	---	8.0	7.5	7.7	---	---	---	7.5	7.4	7.5
MONTH	7.6	7.3	7.5	8.0	7.1	7.6	7.8	7.0	7.5	7.6	7.1	7.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.6	7.5	7.5	7.6	7.3	7.4	7.4	7.3	7.4	7.6	7.4	7.5
2	7.6	7.5	7.5	7.4	7.3	7.3	7.4	7.4	7.4	7.5	7.3	7.4
3	7.6	7.5	7.5	7.3	7.3	7.3	7.5	7.3	7.4	7.5	7.4	7.4
4	7.6	7.5	7.5	7.4	7.3	7.4	7.5	7.4	7.4	7.5	7.3	7.4
5	7.6	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.4	7.5	7.4	7.4
6	7.5	7.5	7.5	7.4	7.3	7.3	7.4	7.3	7.4	7.4	7.4	7.4
7	7.6	7.5	7.5	7.4	7.3	7.3	7.4	7.3	7.4	7.5	7.4	7.4
8	7.5	7.4	7.4	7.4	7.2	7.3	7.4	7.3	7.4	7.5	7.4	7.4
9	7.4	7.3	7.4	7.4	7.3	7.3	7.4	7.4	7.4	7.4	7.4	7.4
10	7.5	7.3	7.4	7.4	7.2	7.3	7.5	7.3	7.4	7.4	7.3	7.4
11	7.5	7.3	7.4	7.5	7.3	7.4	7.5	7.4	7.4	7.5	7.3	7.4
12	7.5	7.4	7.4	7.4	7.3	7.3	7.5	7.4	7.4	7.4	7.4	7.4
13	7.5	7.3	7.4	7.4	7.3	7.3	7.4	7.3	7.4	7.4	7.4	7.4
14	7.5	7.4	7.5	7.4	7.3	7.3	7.4	7.3	7.3	7.4	7.3	7.4
15	7.5	7.4	7.5	7.3	7.2	7.3	7.4	7.3	7.3	7.4	7.4	7.4
16	7.5	7.4	7.4	7.3	7.3	7.3	7.4	7.3	7.3	7.5	7.4	7.4
17	7.5	7.4	7.5	7.5	7.3	7.4	7.5	7.3	7.4	7.5	7.4	7.4
18	7.5	7.3	7.4	7.4	7.4	7.4	7.5	7.3	7.4	7.4	7.3	7.4
19	7.4	7.3	7.4	7.5	7.4	7.4	7.4	7.3	7.4	7.4	7.3	7.4
20	7.5	7.3	7.4	7.5	7.4	7.4	7.4	7.3	7.3	7.4	7.3	7.4
21	7.5	7.4	7.4	7.5	7.4	7.4	7.3	7.3	7.3	7.4	7.3	7.4
22	7.4	7.3	7.4	7.5	7.4	7.4	7.4	7.3	7.3	7.5	7.3	7.4
23	7.3	7.3	7.3	7.5	7.4	7.4	7.4	7.3	7.4	7.4	7.1	7.3
24	7.5	7.3	7.4	7.5	7.4	7.4	7.3	7.3	7.3	7.3	7.1	7.2
25	7.6	7.4	7.5	7.5	7.4	7.4	7.4	7.3	7.4	7.3	7.2	7.3
26	7.6	7.4	7.5	7.4	7.3	7.3	7.4	7.3	7.4	7.2	7.2	7.2
27	7.5	7.4	7.4	7.4	7.3	7.4	7.4	7.3	7.3	7.2	7.2	7.2
28	7.5	7.4	7.4	7.5	7.4	7.4	7.6	7.3	7.3	7.3	7.2	7.2
29	7.4	7.3	7.3	7.5	7.4	7.4	7.4	7.2	7.3	7.3	7.2	7.2
30	7.4	7.3	7.3	7.5	7.3	7.4	7.4	7.1	7.3	7.4	7.2	7.2
31	---	---	---	7.7	7.3	7.4	7.5	7.3	7.4	---	---	---
MONTH	7.6	7.3	7.4	7.7	7.2	7.4	7.6	7.1	7.4	7.6	7.1	7.4
YEAR	8.0	6.9	7.4									



## BEAVER RIVER BASIN

03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	18.5	16.5	17.5	19.0	17.5	18.0	10.0	10.0	10.0	8.0	7.5	7.5
2	17.0	16.0	16.5	18.5	16.5	17.5	10.0	10.0	10.0	7.5	7.5	7.5
3	17.5	16.5	17.0	16.5	15.0	15.5	10.5	9.5	10.0	7.5	7.0	7.0
4	18.0	16.5	17.0	15.0	13.5	14.0	9.5	8.5	8.5	7.0	6.5	7.0
5	18.5	17.0	17.5	13.5	13.0	13.5	8.5	6.5	7.5	7.0	5.5	6.0
6	18.5	17.0	18.0	13.0	12.5	12.5	6.5	6.0	6.5	5.0	5.0	5.0
7	18.5	17.5	18.0	13.0	12.0	12.5	6.5	6.0	6.5	5.0	5.0	5.0
8	19.0	18.0	18.5	13.0	11.5	12.5	6.5	5.0	6.0	5.5	5.0	5.0
9	20.0	19.0	19.5	13.0	12.5	13.0	6.0	5.0	5.5	5.0	4.5	4.5
10	20.5	19.0	19.5	13.0	12.0	12.5	7.0	6.5	7.0	4.5	3.0	4.0
11	20.0	18.5	19.5	12.0	11.0	12.0	8.5	7.0	7.5	4.0	3.5	4.0
12	19.0	18.0	18.5	11.0	9.5	10.5	7.0	6.0	6.5	4.0	3.5	3.5
13	18.5	18.0	18.5	9.5	8.5	9.0	6.0	5.5	6.0	4.0	3.0	3.5
14	19.5	18.5	19.0	8.5	8.0	8.5	7.5	6.5	7.0	4.5	4.0	4.0
15	19.5	18.5	19.0	8.5	8.0	8.5	8.0	7.0	7.5	4.5	3.5	3.5
16	20.0	18.0	19.0	9.0	8.0	8.5	8.0	7.0	7.5	4.0	2.5	3.5
17	20.5	20.0	20.0	8.5	8.0	8.5	9.0	8.0	8.5	4.5	3.5	4.0
18	21.0	20.0	20.5	8.5	8.0	8.0	8.5	8.0	8.5	4.5	4.5	4.5
19	21.0	20.0	20.5	8.5	8.0	8.0	8.5	8.0	8.0	4.5	2.5	4.0
20	21.0	20.0	20.5	8.0	7.0	7.5	9.5	8.5	8.5	---	---	---
21	21.0	20.0	20.5	7.5	7.0	7.0	8.0	6.5	7.0	---	---	---
22	21.0	19.5	20.0	7.0	6.5	6.5	7.0	6.0	6.5	---	---	---
23	19.5	19.0	19.0	7.0	6.0	6.5	6.0	5.5	5.5	---	---	---
24	19.0	18.5	19.0	7.0	6.0	6.5	5.5	4.5	5.0	---	---	---
25	18.5	17.5	18.0	7.5	6.5	7.0	4.5	4.0	4.5	5.5	4.5	5.0
26	19.5	18.5	19.0	7.5	7.0	7.5	4.0	3.5	4.0	4.5	4.0	4.5
27	20.5	19.5	20.0	9.5	7.5	8.5	4.5	3.5	4.0	5.0	4.5	5.0
28	21.0	20.5	20.5	10.5	9.5	10.0	8.0	4.5	6.0	5.5	5.0	5.5
29	20.5	18.5	20.0	10.0	9.5	10.0	10.0	8.5	9.0	6.0	5.5	6.0
30	18.5	18.0	18.5	10.0	9.5	10.0	10.0	8.0	8.5	6.5	5.5	6.0
31	18.5	18.0	18.0	---	---	---	8.0	7.5	7.5	6.0	5.5	6.0
MONTH	21.0	16.0	19.0	19.0	6.0	10.5	10.5	3.5	7.0	8.0	2.5	5.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	6.0	5.5	6.0	6.5	4.5	5.5	10.5	8.5	9.0	20.5	19.0	20.0
2	5.5	4.5	5.0	6.5	5.5	6.0	9.0	5.5	7.5	19.0	17.0	18.0
3	4.5	3.0	4.0	6.5	4.5	5.5	12.5	6.0	9.0	19.5	17.0	18.0
4	3.0	2.0	2.5	7.5	6.0	6.5	13.5	7.0	10.5	18.5	17.0	18.0
5	4.5	2.5	3.0	7.5	5.5	6.0	15.5	10.5	15.0	19.0	16.5	18.0
6	5.5	4.5	5.5	6.0	5.0	5.5	15.0	11.0	12.0	20.0	18.5	19.0
7	5.5	5.0	5.5	5.0	4.5	5.0	11.0	9.5	10.0	19.5	18.0	19.0
8	5.0	4.0	4.5	6.0	5.0	5.5	9.5	8.5	9.0	20.5	18.0	19.0
9	4.5	3.5	4.0	6.0	5.0	5.5	8.5	7.0	8.0	17.5	16.5	17.0
10	5.0	3.5	4.5	7.5	5.5	6.5	8.5	6.5	7.5	21.0	17.5	19.5
11	6.5	5.0	6.0	7.5	6.5	7.0	9.0	7.0	8.0	23.0	20.0	21.5
12	7.5	6.0	7.0	7.5	6.0	6.5	10.0	8.0	9.0	23.5	21.5	22.5
13	7.0	5.5	6.0	6.0	5.5	5.5	11.5	9.5	10.5	24.0	22.5	23.0
14	5.5	3.5	4.0	6.0	5.5	5.5	13.5	11.0	12.5	24.0	21.0	22.5
15	4.0	2.5	3.5	6.5	5.5	6.0	15.0	12.5	13.5	23.5	23.0	23.0
16	4.5	3.5	4.0	7.0	5.5	6.5	16.5	14.0	15.0	23.5	22.5	23.0
17	5.5	4.5	5.0	7.0	6.0	6.5	16.5	14.0	15.0	22.5	20.5	21.5
18	5.5	4.5	5.0	6.5	5.0	6.0	16.5	14.5	15.5	20.0	19.0	19.5
19	6.0	5.0	5.5	6.0	5.0	5.5	18.0	15.5	17.0	21.5	18.0	19.5
20	6.5	4.5	5.0	8.0	6.0	7.0	19.5	17.0	18.5	22.5	20.0	21.0
21	7.0	5.0	6.0	8.5	6.5	7.5	21.0	18.5	20.0	21.5	20.5	21.0
22	7.0	4.5	6.0	9.5	7.5	8.5	21.0	19.0	20.0	21.5	19.5	20.5
23	4.5	2.0	3.0	9.0	8.5	9.0	21.5	19.5	21.0	22.0	20.5	21.5
24	2.5	2.0	2.0	9.0	8.0	8.5	22.0	20.5	21.0	23.0	20.5	22.0
25	3.0	2.5	2.5	9.5	8.0	9.0	22.0	20.0	21.0	23.0	20.5	22.0
26	4.0	3.0	3.5	11.0	8.5	10.0	22.5	20.0	21.0	23.5	21.5	22.5
27	4.5	4.0	4.5	11.5	9.5	10.5	21.5	19.5	20.5	24.5	21.5	23.0
28	5.5	4.0	4.5	12.5	11.0	11.5	21.0	19.0	20.0	22.5	21.0	21.5
29	---	---	---	14.0	9.5	11.5	20.5	18.0	19.5	22.5	20.0	21.5
30	---	---	---	12.5	10.5	12.0	21.5	18.5	20.0	22.5	20.5	21.5
31	---	---	---	11.5	8.0	10.0	---	---	---	22.0	20.0	21.0
MONTH	7.5	2.0	4.5	14.0	4.5	7.5	22.5	5.5	14.5	24.5	16.5	20.5

03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.5	20.5	21.5	26.0	24.0	24.5	27.0	25.5	26.5	23.0	21.5	22.5
2	22.5	21.0	21.5	24.0	22.5	23.0	26.5	24.0	25.5	23.0	21.5	22.5
3	22.5	21.0	21.5	25.5	22.5	24.0	27.5	24.5	26.0	25.0	22.0	23.5
4	22.0	20.0	21.0	25.5	23.5	24.5	27.0	25.5	26.0	26.0	24.5	25.0
5	22.5	21.0	21.5	26.0	24.0	25.0	26.0	25.0	25.0	27.0	25.5	26.0
6	22.0	20.5	21.0	26.0	24.5	25.0	26.5	24.5	25.5	27.5	26.5	27.0
7	21.5	19.5	20.5	27.0	24.5	25.5	26.5	26.0	26.0	28.0	26.0	27.0
8	22.0	20.5	21.5	25.0	23.5	24.5	26.5	26.0	26.0	29.0	27.0	27.5
9	23.0	21.5	22.0	26.5	24.5	25.5	26.5	24.5	25.5	28.0	27.0	27.5
10	24.5	21.5	23.0	27.0	25.0	26.0	28.0	25.0	26.5	28.0	26.0	27.0
11	23.5	22.5	23.0	28.5	25.5	27.0	29.0	27.0	27.5	25.5	24.5	25.0
12	23.0	19.5	20.5	29.5	26.5	28.0	27.5	25.5	27.0	24.0	22.5	23.5
13	19.5	18.5	19.0	29.0	26.5	28.0	28.0	26.0	27.0	22.5	21.5	22.0
14	21.0	19.0	20.0	29.5	27.5	28.0	28.0	26.5	27.0	22.5	21.5	22.0
15	20.0	19.0	19.5	27.0	23.5	25.0	29.0	27.0	28.0	22.5	21.0	22.0
16	21.0	19.0	20.0	28.5	25.0	26.5	28.5	26.5	27.5	21.5	20.0	21.0
17	21.0	19.0	20.0	27.0	24.0	25.5	26.5	25.5	26.0	21.5	19.5	20.5
18	24.0	21.0	22.5	26.5	24.5	25.5	26.5	25.0	25.5	23.0	20.5	22.0
19	23.5	22.0	23.0	27.5	25.0	26.0	27.0	25.5	26.5	24.0	22.5	23.5
20	22.5	21.0	22.0	26.5	26.0	26.0	27.0	26.0	26.5	25.0	23.5	24.5
21	23.0	20.5	22.0	26.0	25.0	25.5	26.5	25.0	25.5	25.5	24.0	24.5
22	23.5	22.0	22.5	26.5	24.5	25.5	25.5	24.0	24.5	24.5	23.5	24.0
23	25.5	22.5	24.0	26.5	24.0	25.5	25.5	23.0	24.5	23.5	22.0	22.5
24	25.0	23.5	24.0	27.0	24.0	25.5	25.0	24.0	24.5	22.0	21.5	21.5
25	24.5	22.5	23.5	28.5	26.0	27.0	24.5	23.0	24.0	22.0	21.0	21.5
26	25.0	22.5	24.0	27.5	26.0	27.0	24.0	22.5	23.0	21.5	21.0	21.0
27	25.5	23.0	24.0	27.5	25.0	26.5	25.0	23.5	24.5	21.0	19.5	20.0
28	25.5	23.0	24.5	27.5	25.5	26.5	26.0	24.5	25.0	21.0	19.0	20.0
29	26.0	24.0	25.0	27.5	25.5	26.5	26.5	25.0	26.0	20.5	19.0	20.0
30	26.5	23.5	25.0	28.0	26.5	27.0	26.0	23.0	24.5	21.0	19.0	20.0
31	---	---	---	27.5	25.5	26.5	23.5	23.0	23.0	---	---	---
MONTH	26.5	18.5	22.0	29.5	22.5	26.0	29.0	22.5	25.5	29.0	19.0	23.0
YEAR	29.5	2.0	15.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.7	6.3	7.1	7.7	7.1	7.4	9.2	8.7	8.9	10.9	10.8	10.8
2	8.3	7.3	7.9	8.1	6.7	7.4	9.0	8.6	8.8	10.9	10.7	10.8
3	8.2	7.3	7.7	8.6	7.3	8.0	9.1	8.5	8.7	11.1	10.7	10.9
4	7.9	7.0	7.5	8.5	7.5	8.0	9.7	9.2	9.4	10.9	10.4	10.7
5	7.9	7.0	7.4	8.8	7.7	8.3	9.7	9.3	9.5	11.0	10.4	10.7
6	7.6	7.0	7.3	9.0	8.5	8.8	9.7	9.3	9.5	11.3	10.8	11.0
7	7.3	6.7	7.0	9.3	8.8	9.1	9.5	9.0	9.2	11.0	10.8	10.9
8	7.5	6.6	6.9	9.3	8.7	9.0	9.9	8.9	9.4	11.1	10.7	10.8
9	7.4	6.4	6.9	9.0	8.2	8.8	9.9	9.4	9.7	11.2	10.8	11.0
10	7.3	6.2	6.6	9.0	8.2	8.8	9.4	8.8	9.1	11.4	10.8	11.0
11	7.2	5.9	6.6	9.2	9.0	9.1	10.2	9.2	9.8	11.2	10.9	11.0
12	7.5	6.5	7.0	9.7	9.2	9.5	11.2	10.3	10.9	11.2	10.9	11.0
13	7.4	6.4	6.9	10.0	9.7	9.9	11.4	9.0	10.9	10.9	9.2	10.7
14	6.9	6.2	6.5	10.4	10.1	10.2	11.0	10.9	11.0	10.5	10.0	10.3
15	7.2	6.0	6.6	10.3	10.0	10.2	11.3	11.1	11.1	10.7	9.8	10.4
16	6.7	6.1	6.4	10.1	9.8	10.0	11.4	11.0	11.2	10.6	10.3	10.7
17	6.6	5.7	6.1	10.4	9.9	10.2	11.1	10.7	10.9	11.2	10.1	10.7
18	6.5	5.3	5.9	10.3	10.0	10.2	11.0	10.4	10.7	10.8	10.6	10.7
19	6.3	5.4	5.8	10.3	9.9	10.1	10.4	9.8	10.2	11.0	10.4	10.6
20	6.7	5.3	6.0	11.6	10.0	10.9	10.4	9.9	10.1	11.4	10.8	11.1
21	6.0	5.4	5.8	11.7	11.2	11.5	11.1	10.3	10.8	11.3	11.0	11.2
22	6.3	5.2	5.9	11.9	11.3	11.5	11.2	10.7	11.0	---	---	---
23	6.8	5.6	6.3	11.7	11.2	11.4	11.7	11.1	11.3	---	---	---
24	7.0	6.2	6.6	11.5	10.9	11.2	11.7	11.4	11.6	---	---	---
25	7.2	6.2	6.7	11.3	10.7	11.0	11.9	11.4	11.7	10.0	9.8	9.9
26	6.7	6.1	6.4	10.9	10.2	10.7	11.8	2.4	10.1	10.3	9.7	10.0
27	7.0	5.9	6.4	10.2	9.5	10.1	11.8	2.5	10.4	10.1	9.6	9.9
28	6.2	5.6	5.9	9.4	8.7	9.2	11.4	10.5	11.1	9.8	9.5	9.6
29	7.1	5.1	6.3	9.7	9.0	9.3	10.5	9.5	10.3	9.7	9.1	9.5
30	7.9	6.9	7.3	9.2	8.7	9.0	10.7	9.7	10.5	9.6	9.2	9.4
31	7.9	6.9	7.4	---	---	---	10.9	10.6	10.8	9.5	9.0	9.3
MONTH	8.3	5.1	6.7	11.9	6.7	9.6	11.9	2.4	10.3	11.4	9.0	10.5

## BEAVER RIVER BASIN

03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	9.5	8.9	9.2	11.0	10.4	10.8	10.2	6.2	7.9	8.7	7.2	8.0
2	9.8	9.2	9.5	10.7	10.4	10.5	9.1	5.8	7.2	8.4	7.5	8.0
3	10.1	9.4	9.6	10.7	10.1	10.5	8.5	5.9	7.4	8.3	7.7	8.0
4	10.2	10.1	10.2	10.9	10.0	10.4	8.4	5.3	7.2	8.5	7.7	8.0
5	10.1	9.7	9.8	11.7	9.8	11.6	7.9	4.8	6.5	7.8	6.9	7.4
6	9.6	8.9	9.0	12.0	11.7	11.9	9.7	5.2	8.2	7.0	6.3	6.6
7	9.2	8.7	8.9	12.1	11.9	12.0	10.5	9.4	10.1	7.5	6.7	7.0
8	9.1	8.9	9.0	12.0	11.8	11.9	10.8	10.0	10.5	6.8	5.8	6.2
9	9.3	8.8	9.0	12.0	11.7	11.9	11.5	10.0	11.0	6.5	5.4	5.8
10	9.3	8.8	9.0	11.9	11.5	11.7	11.9	11.2	11.4	---	---	---
11	8.9	8.2	8.4	11.6	11.2	11.5	12.3	11.7	12.0	---	---	---
12	8.3	7.7	7.9	11.5	11.1	11.3	12.3	11.5	11.9	---	---	---
13	9.7	7.9	9.1	11.7	11.5	11.6	11.7	11.0	11.5	---	---	---
14	10.4	9.3	9.9	11.8	11.6	11.7	11.2	10.3	10.6	---	---	---
15	10.6	10.1	10.4	11.9	11.6	11.8	10.9	9.1	10.0	---	---	---
16	10.3	10.0	10.2	11.9	11.6	11.7	10.5	8.7	9.4	---	---	---
17	10.2	10.0	10.1	11.7	11.6	11.6	9.8	8.3	9.2	---	---	---
18	10.2	9.7	10.0	11.9	11.6	11.7	9.6	7.9	8.6	---	---	---
19	10.1	9.6	9.9	11.8	11.4	11.7	8.9	7.7	8.3	---	---	---
20	10.7	9.7	10.2	11.5	11.0	11.3	8.5	7.1	7.7	---	---	---
21	10.5	9.8	10.3	11.0	10.4	10.8	8.1	6.7	7.2	---	---	---
22	11.5	9.7	10.4	10.6	9.9	10.4	9.5	6.4	7.8	6.1	5.3	5.7
23	12.0	11.6	11.8	10.4	9.7	10.0	9.8	7.4	8.6	5.9	4.7	5.3
24	11.7	11.4	11.5	10.5	9.7	10.1	10.1	6.8	8.4	5.7	4.3	5.0
25	11.4	10.8	11.1	11.0	10.1	10.5	9.4	6.1	8.1	6.2	4.4	5.1
26	11.0	10.7	10.9	10.6	9.8	10.2	9.5	7.5	8.5	5.0	4.3	4.6
27	11.1	10.8	11.0	10.2	9.3	9.9	9.4	7.6	8.5	5.1	3.4	4.5
28	11.4	10.9	11.1	9.5	8.8	9.2	9.7	7.6	8.4	6.7	4.1	6.1
29	---	---	---	10.3	5.8	8.5	9.6	7.7	8.6	6.8	5.8	6.4
30	---	---	---	9.1	4.7	6.7	8.9	6.1	7.9	6.4	5.7	6.0
31	---	---	---	9.6	4.7	6.8	---	---	---	6.2	5.7	5.9
MONTH	12.0	7.7	9.9	12.1	4.7	10.7	12.3	4.8	9.0	8.7	3.4	6.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	6.3	5.8	6.1	6.2	2.6	4.2	4.8	3.5	4.1	5.5	4.4	4.9
2	6.3	5.9	6.0	5.5	3.9	4.7	5.1	3.3	4.2	5.3	4.4	4.8
3	6.2	5.8	6.0	4.6	3.7	4.1	5.2	3.4	4.2	5.1	4.1	4.6
4	6.4	5.9	6.1	4.6	3.2	3.8	5.0	3.4	4.2	4.9	3.7	4.2
5	6.3	5.7	6.0	5.5	3.4	4.4	4.8	3.7	4.2	4.9	3.6	4.2
6	6.5	5.8	6.1	5.6	2.2	4.5	4.7	3.4	4.0	4.3	3.5	3.8
7	6.6	5.8	6.2	5.1	2.1	4.3	4.4	3.5	3.9	4.4	3.5	3.9
8	6.1	5.3	5.8	5.1	4.6	4.8	5.0	3.4	4.1	4.3	3.1	3.7
9	5.3	4.6	5.0	4.6	4.0	4.4	5.0	3.4	4.1	4.5	3.1	3.7
10	5.8	4.3	5.1	4.2	2.0	3.7	5.0	3.3	4.0	4.2	3.3	3.8
11	5.6	4.0	4.7	4.7	3.4	4.0	5.2	3.2	4.0	4.5	3.6	4.1
12	6.0	4.6	5.3	4.1	3.5	3.8	5.4	3.4	4.2	4.4	3.6	4.0
13	6.1	4.7	5.4	3.7	2.2	2.9	4.9	3.1	3.9	4.6	3.7	4.2
14	5.6	3.9	4.4	2.2	1.9	2.1	4.7	3.1	3.8	4.7	3.8	4.2
15	5.9	5.4	5.6	4.6	2.1	3.1	4.3	3.0	3.6	4.6	3.6	4.1
16	5.5	4.4	5.1	3.4	2.3	3.0	4.5	3.0	3.8	4.8	3.7	4.2
17	5.8	4.3	5.0	5.0	2.1	3.7	5.0	3.5	4.2	4.9	3.6	4.3
18	5.0	3.8	4.4	5.0	3.5	4.2	4.9	3.6	4.2	4.8	3.6	4.2
19	4.2	3.5	4.0	5.2	3.5	4.2	4.6	3.4	3.9	4.7	3.4	4.0
20	5.7	3.5	4.7	5.1	3.5	4.1	4.4	3.0	3.6	4.5	3.3	3.9
21	5.5	4.2	4.9	5.1	3.7	4.3	4.2	3.1	3.6	4.8	3.2	3.9
22	5.1	3.2	4.3	5.6	3.7	4.5	4.4	3.2	3.8	4.8	3.1	3.9
23	3.6	2.8	3.1	5.9	3.6	4.6	4.6	3.7	4.1	4.8	3.4	3.9
24	5.9	3.0	4.5	5.6	3.7	4.5	4.1	3.3	3.7	4.5	3.5	4.0
25	6.6	2.3	5.2	5.6	3.4	4.4	4.6	3.0	3.8	5.0	3.6	4.2
26	6.8	4.3	5.5	4.1	3.5	3.9	4.5	3.6	4.0	4.2	3.4	3.8
27	6.4	4.2	5.2	5.0	3.5	4.2	4.5	3.1	3.8	4.6	3.3	4.0
28	5.3	3.4	4.3	5.1	3.6	4.3	4.3	3.1	3.7	4.9	3.8	4.2
29	4.3	3.0	3.7	5.4	3.7	4.4	4.2	3.1	3.7	4.5	3.6	4.0
30	4.5	3.0	3.6	5.2	3.3	4.2	4.5	3.1	3.7	4.6	3.6	4.0
31	---	---	---	4.1	3.4	3.7	5.4	4.6	4.9	---	---	---
MONTH	6.8	2.3	5.0	6.2	1.9	4.0	5.4	3.0	4.0	5.5	3.1	4.1
YEAR	12.3	1.9	7.5									



## BEAVER RIVER BASIN

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03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH--Continued  
 SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	527	604	356	725	482	265	616	440	550	516	455
2	438	519	609	397	695	519	239	604	434	548	510	459
3	458	520	608	430	683	546	289	632	432	542	515	441
4	461	497	607	448	686	564	304	637	432	566	500	460
5	466	475	612	476	688	572	292	619	432	547	488	478
6	457	480	631	487	683	507	332	619	430	536	478	478
7	450	481	687	508	717	469	395	606	428	498	479	479
8	450	489	669	557	696	521	402	621	445	484	472	464
9	447	496	720	542	692	493	470	618	478	522	473	461
10	448	428	735	530	704	480	497	630	504	518	479	453
11	448	402	724	561	722	488	464	635	530	540	473	452
12	454	409	618	572	967	454	452	618	501	557	474	477
13	454	447	520	593	1050	372	438	607	500	565	480	479
14	448	454	502	598	967	372	436	612	503	573	473	485
15	452	456	476	585	902	427	438	589	502	379	485	478
16	447	464	484	585	821	455	448	585	490	435	456	475
17	474	465	492	586	789	464	482	595	505	483	465	476
18	496	466	517	608	786	472	522	603	509	528	466	479
19	518	470	544	634	809	475	546	593	503	552	479	481
20	516	474	548	622	817	526	561	584	494	574	488	480
21	516	477	509	634	828	564	566	586	512	576	470	476
22	504	478	510	---	875	578	570	580	521	576	480	474
23	496	478	479	---	660	588	587	586	511	567	479	466
24	510	483	470	---	389	580	591	596	528	549	480	442
25	522	491	482	687	311	578	584	608	537	554	453	468
26	520	496	501	673	346	572	592	591	542	513	470	476
27	524	524	540	638	415	574	603	593	551	507	470	479
28	524	544	579	629	444	580	602	505	555	511	468	493
29	511	556	568	625	---	295	600	525	560	516	483	491
30	504	588	455	629	---	212	619	484	551	511	435	491
31	520	---	392	644	---	260	---	441	---	---	434	---
MEAN	479	484	561	566	710	485	473	591	495	529	476	472

WTR YR 1985 MEAN 525 MAX 1050 MIN 212  
 PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.5	7.5	7.4	7.4	7.6	7.6	7.4	7.5	7.4	7.4	7.5
2	7.2	7.5	7.6	7.4	7.4	7.7	7.7	7.4	7.5	7.3	7.4	7.5
3	7.1	7.5	7.6	7.5	7.5	7.7	7.7	7.4	7.5	7.3	7.4	7.4
4	7.1	7.5	7.6	7.5	7.6	7.7	7.7	7.4	7.5	7.4	7.4	7.4
5	7.1	7.6	7.6	7.5	7.5	7.7	7.6	7.5	7.5	7.4	7.4	7.4
6	7.1	7.6	7.6	7.6	7.4	7.6	7.7	7.4	7.5	7.3	7.4	7.4
7	7.1	7.6	7.6	7.6	7.4	7.6	7.7	7.4	7.5	7.3	7.4	7.4
8	7.0	7.5	7.5	7.6	7.5	7.7	7.6	7.4	7.4	7.3	7.4	7.4
9	7.0	7.5	7.7	7.6	7.5	7.7	7.6	7.4	7.4	7.3	7.4	7.4
0	7.0	7.6	7.6	7.5	7.5	7.7	7.6	7.5	7.4	7.3	7.4	7.4
11	7.0	7.6	7.6	7.5	7.4	7.7	7.6	7.4	7.4	7.4	7.4	7.4
12	7.1	7.6	7.7	7.4	7.3	7.7	7.6	7.4	7.4	7.3	7.4	7.4
13	7.0	7.6	7.7	7.4	7.4	7.6	7.6	7.4	7.4	7.3	7.4	7.4
14	7.0	7.6	7.7	7.4	7.5	7.6	7.5	7.5	7.5	7.3	7.3	7.4
15	7.1	7.6	7.7	7.4	7.5	7.6	7.5	7.4	7.5	7.3	7.3	7.4
16	7.1	7.6	7.7	7.4	7.5	7.6	7.5	7.4	7.4	7.3	7.3	7.4
17	7.0	7.7	7.7	7.4	7.5	7.7	---	7.4	7.5	7.4	7.4	7.4
18	7.0	7.7	7.7	7.4	7.5	7.6	---	7.4	7.4	7.4	7.4	7.4
19	7.1	7.7	7.6	7.4	7.4	7.6	---	7.5	7.4	7.4	7.4	7.4
20	7.1	7.6	7.5	7.5	7.4	7.6	---	7.4	7.4	7.4	7.3	7.4
21	7.0	7.7	7.5	7.5	7.4	7.6	---	7.4	7.4	7.4	7.3	7.4
22	7.0	7.7	7.6	---	7.3	7.6	---	7.5	7.4	7.4	7.3	7.4
23	7.4	7.7	7.6	---	7.5	7.6	7.2	7.4	7.3	7.4	7.4	7.3
24	7.4	7.7	7.6	---	7.5	7.6	7.2	7.4	7.4	7.4	7.3	7.2
25	7.4	7.7	7.6	7.4	7.5	7.7	7.2	7.4	7.5	7.4	7.4	7.3
26	7.4	7.6	7.6	7.4	7.5	7.7	7.3	7.4	7.5	7.3	7.4	7.2
27	7.3	7.6	7.7	7.5	7.6	7.6	7.3	7.4	7.4	7.4	7.3	7.2
28	7.4	7.6	7.6	7.4	7.6	7.6	7.3	7.5	7.4	7.4	7.3	7.2
29	7.4	7.5	7.5	7.4	---	7.8	7.4	7.5	7.3	7.4	7.3	7.2
30	7.4	7.5	7.5	7.5	---	7.6	7.3	7.5	7.3	7.4	7.3	7.2
31	7.4	---	7.4	7.4	---	7.8	---	7.5	---	---	7.4	---
MEAN	7.2	7.6	7.6	7.5	7.5	7.7	7.5	7.4	7.4	7.4	7.4	7.4

WTR YR 1985 MEAN 7.5 MAX 7.8 MIN 7.0

## BEAVER RIVER BASIN

03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH--Continued  
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	18.0	10.0	8.0	6.0	5.5	9.0	19.5	21.5	24.5	26.0	22.5
2	16.5	17.5	10.0	7.5	5.0	6.0	8.0	18.0	21.5	23.0	25.5	22.5
3	17.0	15.5	10.0	7.0	4.0	5.5	9.0	18.0	21.5	23.5	25.5	23.5
4	17.5	14.0	8.5	7.0	2.5	6.5	11.0	18.0	21.0	24.5	26.0	25.0
5	17.5	13.5	7.5	6.5	3.0	6.0	15.0	18.5	21.5	25.0	25.0	26.0
6	18.0	12.5	6.5	5.0	5.5	5.5	12.0	19.0	21.0	25.0	25.5	26.5
7	18.0	12.5	6.5	5.0	5.5	5.0	10.0	19.0	20.5	25.5	26.0	27.0
8	18.0	12.0	6.0	5.0	4.5	5.5	9.0	18.5	21.5	24.5	26.0	27.5
9	19.5	13.0	5.5	4.5	4.0	5.5	8.0	17.0	22.0	25.0	25.5	27.5
10	19.5	12.0	7.0	4.0	4.5	6.5	7.5	19.0	23.0	26.0	26.5	27.0
11	19.5	12.0	8.0	4.0	6.0	7.0	8.5	21.5	23.0	26.5	27.5	25.0
12	18.5	10.5	6.5	3.5	7.0	6.5	9.0	22.5	20.0	28.0	27.0	23.5
13	18.5	9.0	6.0	3.5	6.5	5.5	10.5	23.0	19.0	28.0	27.0	22.0
14	19.0	8.5	7.0	4.5	4.0	6.0	12.5	22.0	19.5	28.0	27.0	22.0
15	19.0	8.5	7.5	3.5	3.5	6.0	14.0	23.0	19.5	25.0	28.0	21.5
16	18.5	8.5	7.5	3.5	4.0	6.5	15.0	23.0	20.0	26.0	27.5	21.0
17	20.0	8.5	8.5	4.0	5.0	6.5	15.0	21.5	19.5	25.5	26.0	20.5
18	20.5	8.5	8.5	4.5	5.0	5.5	16.0	19.5	23.0	25.5	25.5	22.0
19	20.5	8.0	8.0	4.5	5.5	5.5	16.5	19.5	22.5	26.0	26.5	23.5
20	20.5	7.5	8.5	---	5.5	7.0	18.5	21.0	22.0	26.0	26.5	24.0
21	20.5	7.0	7.0	---	6.0	7.5	20.0	21.0	22.0	25.5	25.5	24.5
22	20.0	6.5	6.5	---	6.5	8.5	20.0	20.5	22.5	25.0	24.5	24.0
23	19.0	6.5	5.5	---	3.5	9.0	21.0	21.0	24.0	25.5	24.0	22.5
24	19.0	6.5	5.0	---	2.0	8.5	21.0	22.0	24.0	25.0	24.5	21.5
25	18.0	7.0	4.5	5.0	2.5	9.0	21.0	22.0	23.5	27.0	23.5	21.5
26	19.0	7.5	4.0	4.5	3.5	10.0	21.0	22.5	24.0	27.0	23.0	21.0
27	20.0	8.0	4.0	4.5	4.5	11.0	21.0	22.5	24.0	26.5	24.5	20.0
28	20.5	10.5	5.5	5.5	5.0	11.5	20.0	21.5	24.5	26.5	25.0	20.0
29	20.5	10.0	9.0	6.0	---	12.0	19.5	21.5	25.0	26.5	26.0	20.0
30	18.5	10.0	8.5	6.0	---	12.0	20.0	21.5	25.0	27.0	24.5	20.0
31	18.0	---	7.5	6.0	---	10.0	---	21.5	---	---	23.0	---
MEAN	19.0	10.5	7.0	5.0	4.5	7.5	14.5	20.5	22.0	26.0	25.5	23.0

WTR YR 1985 MEAN 15.5 MAX 28.0 MIN 2.0  
OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	7.4	8.9	10.8	9.2	10.8	8.1	8.1	6.1	4.7	4.1	4.9
2	7.8	7.4	8.8	10.8	9.4	10.5	7.5	8.0	6.0	4.7	4.1	4.8
3	7.7	8.2	8.7	10.8	9.6	10.5	7.6	8.0	6.0	4.1	4.0	4.5
4	7.6	8.0	9.5	10.7	10.2	10.4	7.7	8.0	6.1	3.8	4.1	4.2
5	7.3	8.4	9.5	10.8	9.8	11.5	6.9	7.5	5.9	4.2	4.2	4.1
6	7.3	8.8	9.6	11.0	9.0	11.9	8.2	6.6	6.1	5.1	4.0	3.8
7	7.1	9.1	9.2	10.9	8.8	12.0	10.2	6.9	6.2	4.5	3.9	3.8
8	6.9	9.0	9.4	10.8	8.9	11.9	10.5	6.2	5.8	4.7	4.1	3.7
9	6.8	8.8	9.7	11.0	9.1	11.9	11.2	5.9	5.0	4.4	4.0	3.6
10	6.6	9.0	9.1	11.0	9.0	11.7	11.4	---	4.9	3.7	4.0	3.8
11	6.8	9.1	9.9	11.0	8.4	11.5	12.0	---	4.8	4.0	3.8	4.1
12	6.9	9.6	11.0	11.1	7.9	11.3	12.0	---	5.5	3.9	4.0	4.2
13	7.0	10.0	10.9	10.8	9.2	11.6	11.5	---	5.2	2.8	3.7	4.2
14	6.6	10.2	11.0	10.3	10.2	11.7	10.5	---	4.4	2.1	3.7	4.3
15	6.7	10.2	11.1	10.5	10.5	11.8	10.0	---	5.6	3.1	3.6	4.1
16	6.3	10.1	11.2	10.6	10.2	11.7	9.3	---	5.2	2.9	3.9	4.3
17	6.1	10.2	10.9	11.1	10.1	11.6	9.3	---	5.2	4.3	4.2	4.4
18	5.9	10.2	10.7	10.7	10.0	11.7	8.6	---	4.4	4.1	4.1	4.1
19	5.8	10.0	10.3	10.6	9.9	11.7	8.4	---	4.0	4.0	3.8	4.0
20	6.2	11.3	10.2	11.0	10.2	11.4	7.7	---	5.2	4.0	3.6	4.0
21	5.9	11.4	10.9	11.2	10.4	10.9	7.1	---	4.8	4.1	3.7	3.8
22	5.9	11.5	11.0	---	10.2	10.4	7.7	5.6	4.4	4.4	4.0	3.9
23	6.5	11.4	11.3	---	11.8	10.0	8.6	5.3	3.1	4.4	4.0	3.9
24	6.6	11.2	11.5	---	11.6	10.3	8.2	5.1	4.7	4.3	3.8	4.0
25	6.8	10.9	11.7	9.9	11.2	10.5	8.3	4.9	5.4	4.2	3.9	4.0
26	6.4	10.6	10.5	10.1	11.0	10.2	8.5	4.6	5.4	3.9	4.0	3.8
27	6.4	10.1	11.2	9.9	11.1	9.8	8.7	4.4	5.0	4.1	3.9	4.2
28	5.9	9.2	11.3	9.7	11.1	9.2	8.2	6.5	4.2	4.1	3.8	4.1
29	6.6	9.3	10.3	9.6	---	8.9	8.6	6.5	3.6	4.2	3.6	3.9
30	7.2	9.0	10.6	9.4	---	6.8	7.9	6.1	3.4	4.1	3.7	3.8
31	7.4	---	10.8	9.3	---	6.9	---	5.9	---	---	4.8	---
MEAN	6.7	9.7	10.4	10.6	9.9	10.7	9.0	6.3	5.1	4.0	3.9	4.1
WTR YR 1985	MEAN	7.5	MAX	12.0	MIN	2.1						

BEAVER RIVER BASIN

47

03102950 PYMATUNING CREEK AT KINSMAN, OH

LOCATION.--Lat 41°26'34", long 80°35'18", in T.7 N., R.1 W., Trumbull County, Hydrologic Unit 05030102, on left bank at downstream side of bridge on State Highway 7 at Kinsman, 0.8 mi downstream from Sugar Creek, and 1.2 mi upstream from Stratton Creek.

DRAINAGE AREA.--96.7 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 906.8 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 12 to Feb. 21. Records poor. Water-quality data collected at this site 1966 to 1977.

AVERAGE DISCHARGE.--20 years, 127 ft<sup>3</sup>/s, 17.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,420 ft<sup>3</sup>/s Feb. 17, 1976, gage height, 12.27 ft from rating curve extended above 800 ft<sup>3</sup>/s; maximum gage-height, 12.32 ft Sept. 15, 1979; minimum discharge, 0.10 ft<sup>3</sup>/s Aug. 8, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 30	1600	841	10.46	Apr. 1	0500	1,020	10.76
Feb. 25	0200	*1,770	*11.66				

Minimum daily discharge, 0.62 ft<sup>3</sup>/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	12	25	39	677	48	286	967	19	118	2.0	3.7	12	
2	16	24	44	539	48	192	836	18	76	2.0	4.1	11	
3	14	25	66	402	48	135	715	17	55	2.0	3.3	7.8	
4	12	41	80	318	48	125	624	16	37	2.0	2.7	5.4	
5	8.5	177	67	236	48	320	460	14	26	1.9	2.0	4.1	
6	5.7	184	52	160	48	419	345	12	18	2.9	1.6	3.5	
7	4.4	169	45	112	48	472	249	18	13	3.9	14	3.2	
8	3.4	150	37	87	48	491	175	20	10	4.7	83	5.3	
9	4.5	108	31	74	48	421	158	17	8.6	10	116	21	
10	6.1	200	33	67	48	335	150	12	6.7	11	91	34	
11	7.6	321	111	56	48	265	130	8.9	4.6	10	53	37	
12	7.7	375	237	50	48	429	121	7.6	19	7.6	32	34	
13	6.8	398	360	48	48	539	104	7.3	72	4.7	18	24	
14	6.4	443	377	48	90	457	88	6.5	94	43	9.8	15	
15	6.8	409	418	46	120	365	75	5.3	82	141	6.9	14	
16	6.5	440	360	44	140	256	67	5.6	62	96	15	10	
17	7.0	368	275	44	110	166	57	8.1	52	53	45	2.3	
18	9.8	317	187	44	95	116	49	11	47	32	42	.82	
19	9.4	270	118	42	85	92	44	15	44	20	30	.62	
20	12	187	84	42	75	82	40	13	43	12	26	.78	
21	10	107	62	42	70	73	37	17	33	10	22	.99	
22	13	57	177	42	176	65	34	23	23	7.0	16	1.1	
23	14	37	190	42	856	61	30	22	26	4.6	10	1.2	
24	14	29	167	42	1520	75	28	15	53	2.5	6.7	2.6	
25	13	22	136	44	1570	104	37	8.6	45	1.8	6.0	3.6	
26	14	18	91	44	1020	102	45	4.6	27	1.8	6.1	3.5	
27	16	14	62	46	674	86	43	2.4	16	2.8	5.3	5.8	
28	18	15	203	48	432	83	36	45	8.8	3.5	4.1	5.6	
29	81	29	339	48	---	767	29	60	4.9	3.5	2.7	4.8	
30	59	32	751	48	---	802	23	45	2.9	3.2	4.2	3.8	
31	42	---	772	48	---	785	---	109	---	3.4	9.5	---	
TOTAL	460.6	4991	5971	3630	7657	8966	5796	602.9	1127.5	505.8	691.7	278.81	
MEAN	14.9	166	193	117	273	289	193	19.4	37.6	16.3	22.3	9.29	
MAX	81	443	772	677	1570	802	967	109	118	141	116	37	
MIN	3.4	14	31	42	48	61	23	2.4	2.9	1.8	1.6	.62	
CFSM	.15	1.72	2.00	1.21	2.82	2.99	2.00	.20	.39	.17	.23	.10	
IN.	.18	1.92	2.30	1.40	2.95	3.45	2.23	.23	.43	.19	.27	.11	
CAL YR 1984	TOATL	53449.1		MEAN	146	MAX	1260	MIN	1.2	CFSM	1.51	IN.	20.50
WTR YR 1985	TOTAL	40678.31		MEAN	111	MAX	1570	MIN	.62	CFSM	1.15	IN.	15.65



## LITTLE BEAVER CREEK BASIN

03109500 LITTLE BEAVER CREEK NEAR EAST LIVERPOOL, OH

LOCATION.--Lat 40°40'33", long 80°32'27", Columbiana County, Hydrologic Unit 05030101, on right bank at downstream side of Grimms Bridge, 1.5 mi upstream from Island Run, 4 mi upstream from mouth, and 4 mi northeast of East Liverpool.

DRAINAGE AREA.--496 mi<sup>2</sup>.

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

REVISED RECORDS.--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.

GAGE.--Water-stage recorder. Datum of gage is 702.77 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 22, 1926, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 6-9, Jan. 11 to Feb. 21. Records good except periods with ice effect, Dec. 6-9 and Jan. 11 to Feb. 21, which are fair. Water-quality data collected at this site 1964-1978. Sediment data collected at this site 1969 to 1974.

AVERAGE DISCHARGE.--70 years, 523 ft<sup>3</sup>/s, 14.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft<sup>3</sup>/s July 19, 1941, gage height, 17.4 ft, from rating curve extended above 16,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum, 12 ft<sup>3</sup>/s several days in 1918, 1930, 1932, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0200	7,190	10.11	May 28	1400	9,090	11.14
Mar. 29	1200	*9,910	*11.55	May 31	1100	6,320	9.59
Apr. 1	0400	5,010	8.74				

Minimum discharge, 55 ft<sup>3</sup>/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	198	184	252	1190	170	953	4370	284	4040	207	158	231	
2	373	196	236	987	170	837	2570	527	1900	210	128	154	
3	228	245	225	795	170	709	2100	848	1260	242	97	125	
4	159	246	225	699	170	667	2010	514	949	230	87	110	
5	130	685	201	644	170	992	1500	398	847	197	80	98	
6	115	609	200	560	160	842	1250	364	741	207	76	92	
7	108	395	190	529	160	647	1130	367	570	209	76	88	
8	105	314	190	503	160	817	1090	341	492	199	78	81	
9	109	297	180	403	160	855	1130	291	469	182	84	101	
10	112	1160	311	341	160	669	1160	265	420	243	78	92	
11	103	2140	572	310	160	634	1310	252	364	278	69	81	
12	98	1400	841	290	220	2770	1100	244	2610	196	65	78	
13	97	871	901	270	290	2590	944	269	1990	163	60	73	
14	96	660	959	250	340	1540	864	228	1390	149	66	66	
15	101	545	1080	240	430	1180	796	238	977	204	234	65	
16	110	503	795	230	400	951	720	271	942	312	642	63	
17	115	430	646	220	370	836	627	265	803	202	529	61	
18	170	371	546	220	330	716	562	271	663	154	229	59	
19	161	342	545	210	300	627	519	257	621	137	155	57	
20	133	306	655	200	280	616	480	221	508	125	123	57	
21	127	281	585	200	270	553	445	191	440	123	109	55	
22	140	265	1590	190	1210	496	412	182	410	135	99	57	
23	225	251	1130	190	4860	484	391	175	615	157	93	56	
24	212	244	815	190	6550	525	380	162	449	127	91	63	
25	166	237	672	190	4080	552	432	152	357	111	152	72	
26	147	225	510	180	2110	446	410	142	304	109	148	68	
27	137	213	481	180	1470	404	349	139	271	131	115	70	
28	131	231	499	180	1120	415	323	5480	247	115	95	77	
29	173	296	571	180	---	5500	309	3200	233	101	86	72	
30	350	269	2370	180	---	4160	289	1390	219	92	199	64	
31	242	---	1690	170	---	3290	---	4370	---	110	404	---	
TOTAL	4871	14411	20663	11121	26440	37273	29972	22298	26101	5357	4705	2486	
MEAN	157	480	667	359	944	1202	999	719	870	173	152	82.9	
MAX	373	2140	2370	1190	6550	5500	4370	5480	4040	312	642	231	
MIN	96	184	180	170	160	404	289	139	219	92	60	55	
CFSM	.32	.97	1.34	.72	1.90	2.42	2.01	1.45	1.75	.35	.31	.17	
IN.	.37	1.08	1.55	.83	1.98	2.80	2.25	1.67	1.96	.40	.35	.19	
CAL YR 1984	TOTAL	215700		MEAN	589	MAX	3870	MIN	80	CFSM	1.19	IN.	16.13
WTR YR 1985	TOTAL	205698		MEAN	564	MAX	6550	MIN	55	CFSM	1.14	IN.	15.43

## YELLOW CREEK BASIN

49

03110000 YELLOW CREEK NEAR HAMMONDSVILLE, OH

LOCATION.--Lat 40°32'16", long 80°43'31", in sec. 29, T.8 N., R.2 W., Jefferson County, Hydrologic Unit 05030101, on right bank 1,000 ft upstream from Lowery Run, 0.9 mi upstream from Brush Creek, and 1.6 mi southwest of Hammondsville.

DRAINAGE AREA.--147 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 692.10 ft above Ohio State Highway Department bench mark.

REMARKS.--Estimated daily discharges: Dec. 7-9 and Jan. 10 to Feb. 21. Records good except for periods of estimated record which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--45 years, 162 ft<sup>3</sup>/s, 14.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft<sup>3</sup>/s Jan. 27, 1952, gage height, 12.17 ft; minimum, 0.8 ft<sup>3</sup>/s Sept. 24 to Oct. 1, Oct. 7, 8, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--The highest stage observed is reported to have occurred in 1912.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0200	*2,310	*6.37	No other peak greater than base discharge.			

Minimum daily discharge, 3.9 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	63	46	379	38	234	875	68	179	27	24	11
2	57	60	47	276	38	205	595	283	118	30	25	9.4
3	26	75	44	202	38	171	478	467	114	62	20	8.1
4	17	68	44	176	38	164	392	238	135	73	18	7.3
5	14	167	39	160	38	230	333	155	95	47	16	6.6
6	12	98	36	136	36	178	293	134	81	61	16	6.2
7	11	68	34	125	36	159	252	146	68	134	16	6.0
8	12	54	32	117	36	237	249	114	62	130	16	5.7
9	11	45	32	87	36	240	234	95	59	89	15	6.2
10	14	181	56	78	36	213	223	85	58	398	14	12
11	14	343	238	70	36	205	249	79	52	258	12	8.5
12	12	219	262	66	46	477	247	74	215	133	11	7.1
13	12	140	239	60	65	455	232	72	174	91	10	6.6
14	11	104	245	56	85	364	226	66	129	71	9.5	5.6
15	11	90	245	54	100	287	208	71	97	72	9.9	5.3
16	12	115	192	52	120	230	194	86	95	62	13	5.2
17	16	71	159	50	110	208	164	83	88	49	21	5.0
18	34	59	132	48	100	178	146	86	78	41	16	4.6
19	29	55	120	46	100	156	137	76	66	37	12	4.6
20	18	50	135	44	100	157	126	64	60	33	10	4.2
21	16	44	119	44	95	136	117	56	53	39	9.1	4.1
22	18	41	416	42	486	122	108	54	51	109	8.5	4.3
23	59	37	314	42	1510	122	102	51	72	56	8.0	3.9
24	39	37	228	42	1810	126	97	50	54	40	8.5	4.5
25	27	35	180	40	988	122	113	48	45	33	12	4.3
26	23	33	129	40	551	102	96	43	39	33	20	4.0
27	21	32	124	40	388	96	86	50	35	55	14	4.5
28	19	35	117	40	280	100	81	608	32	41	11	4.6
29	30	50	114	40	---	424	74	379	31	30	9.5	4.6
30	63	44	711	38	---	460	69	173	29	26	8.5	4.9
31	75	---	545	38	---	752	---	231	---	24	8.2	---
TOTAL	754	2513	5374	2728	7340	7310	6796	4285	2464	2384	421.7	178.9
MEAN	24.3	83.8	173	88.0	262	236	227	138	82.1	76.9	13.6	5.96
MAX	75	343	711	379	1810	752	875	608	215	398	25	12
MIN	11	32	32	38	36	96	69	43	29	24	8.0	3.9
CFSM	.17	.57	1.18	.60	1.78	1.61	1.54	.94	.56	.52	.09	.04
IN.	.19	.64	1.36	.69	1.86	1.85	1.72	1.08	.62	.60	.11	.05
CAL YR 1984	TOTAL	65191.2	MEAN	178	MAX	2130	MIN	7.6	CFSM	1.21	IN.	16.44
WTR YR 1985	TOTAL	42548.6	MEAN	117	MAX	1810	MIN	3.9	CFSM	.80	IN.	10.77

## SHORT CREEK BASIN

03111500 SHORT CREEK NEAR DILLONVALE, OH

LOCATION.--Lat 40°11'36", long 80°44'04", in sec. 30, T.4 N., R.2 W., Jefferson County, Hydrologic Unit 05030106, on right bank at downstream side of bridge on State Highway 150, 2.1 mi east of Dillonvale, 2.2 mi downstream from Jug Run, and 2.9 mi upstream from Little Short Creek.

DRAINAGE AREA.--123 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1003: 1942-43. WSP 1907: Drainage area. WRD-OH-82-1: 1981

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

REMARKS.--Estimated daily discharges: Dec. 6-9 and Jan. 10 to Feb. 21. Records poor. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--44 years, 130 ft<sup>3</sup>/s, 14.35 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft<sup>3</sup>/s Mar. 6, 1945, gage height, 8.77 ft; maximum gage height, 10.15 ft Mar. 5, 1963, from graph based on gage readings; minimum daily discharge, 2.8 ft<sup>3</sup>/s Sept. 21, 27, 1947.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 2	2100	*1070	*4.27				

Minimum daily discharge, 18 ft<sup>3</sup>/s Sept. 17-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	51	71	157	48	172	397	98	179	33	29	22
2	58	58	66	155	46	158	284	397	120	38	26	21
3	40	51	64	132	46	140	245	464	111	42	24	21
4	33	74	59	118	46	138	212	225	104	36	24	21
5	31	157	54	118	46	162	203	178	92	35	24	20
6	30	97	52	112	44	142	185	153	91	60	23	20
7	28	73	48	99	44	136	184	139	82	58	23	20
8	34	60	46	96	44	166	212	127	74	41	24	20
9	54	71	44	94	44	157	193	112	81	37	24	20
10	37	257	86	90	44	140	187	104	74	40	22	20
11	34	463	209	85	44	140	191	99	68	40	22	19
12	34	211	155	85	60	324	184	94	191	34	21	19
13	33	130	149	80	90	247	171	91	115	32	20	19
14	32	102	158	75	100	201	165	86	89	33	23	19
15	31	96	153	70	90	173	155	90	76	48	105	19
16	32	98	128	70	85	156	141	115	71	37	70	19
17	34	80	117	65	80	149	134	99	62	30	42	18
18	52	83	104	65	80	137	132	105	60	30	31	18
19	38	79	109	60	75	130	123	98	56	28	26	18
20	33	69	139	60	75	139	121	89	52	28	24	18
21	32	64	126	55	75	137	123	76	51	30	24	18
22	97	63	178	55	334	126	116	75	53	37	23	18
23	127	59	150	55	755	135	115	75	65	34	24	18
24	68	59	134	50	646	137	110	76	49	29	29	20
25	57	57	128	50	393	131	118	69	41	28	54	25
26	54	58	104	50	281	117	108	64	40	29	37	21
27	50	58	109	50	225	116	102	87	43	42	28	20
28	47	70	103	50	191	119	102	92	45	32	24	20
29	103	82	104	48	---	132	96	81	42	29	23	19
30	80	68	139	48	---	206	94	68	34	28	24	19
31	59	---	202	48	---	549	---	436	---	27	23	---
TOTAL	1546	2998	3488	2445	4131	5212	4903	4162	2311	1105	940	589
MEAN	49.9	99.9	113	78.9	148	168	163	134	77.0	35.6	30.3	19.6
MAX	127	463	209	157	755	549	397	464	191	60	105	25
MIN	28	51	44	48	44	116	94	64	34	27	20	18
CFSM	.41	.81	.92	.64	1.20	1.37	1.33	1.09	.63	.29	.25	.16
IN.	.47	.91	1.05	.74	1.25	1.58	1.48	1.26	.70	.33	.28	.18
CAL YR 1984	TOTAL	47358	MEAN	129.0	MAX	951	MIN	27	CFSM	1.05	IN.	14.24
WTR YR 1985	TOTAL	33830	MEAN	92.7	MAX	755	MIN	18	CFSM	.75	IN.	10.23



## WHEELING CREEK BASIN

51

03111548 WHEELING CREEK BELOW BLAINE, OH

LOCATION.--Lat 40°04'01", long 80°48'31", Belmont County, Hydrologic Unit 05030106, on left bank at bridge on Pease Township Road 320 near U.S. Route 40, 0.5 mi east of Blaine, and 4.8 mi upstream from mouth.

DRAINAGE AREA.--97.7 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.11 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 23. Records fair except for estimated daily discharges, Jan. 9 to Feb. 23, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,020 ft<sup>3</sup>/s May 22, 1983, gage height, 5.06 ft; minimum daily discharge, 7.0 ft<sup>3</sup>/s, Sept. 21-23, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar. 30	2330	*862	*3.12				

Minimum daily discharge, 7.0 ft<sup>3</sup>/s Sept. 21-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	53	46	93	108	42	147	298	91	107	38	41	13	
2	49	62	84	107	41	136	212	235	79	38	29	14	
3	36	55	82	95	41	126	188	258	95	41	27	14	
4	32	77	78	90	41	125	174	142	105	38	26	14	
5	27	123	64	89	41	157	160	119	81	38	24	12	
6	27	80	55	83	40	130	146	110	76	59	23	11	
7	26	62	51	82	40	112	154	104	58	57	21	11	
8	36	55	59	82	40	131	178	94	49	47	21	11	
9	49	61	69	82	40	121	151	84	93	41	19	10	
10	35	252	125	76	40	108	139	78	61	42	17	11	
11	33	408	183	74	50	107	135	74	53	42	16	9.5	
12	30	186	118	74	60	262	126	70	151	38	14	8.8	
13	31	130	118	74	70	176	118	66	82	34	14	8.1	
14	28	119	174	68	85	148	116	67	61	32	16	7.4	
15	27	102	142	62	72	133	112	72	55	48	35	7.4	
16	27	105	117	62	68	123	105	88	55	36	38	7.6	
17	29	94	101	58	64	120	94	79	52	30	33	7.6	
18	49	90	84	58	64	112	87	80	56	29	21	7.7	
19	36	94	92	54	60	107	85	78	51	30	17	7.7	
20	32	92	101	54	60	115	82	68	47	29	14	7.7	
21	35	86	102	49	60	109	83	65	44	38	14	7.0	
22	154	84	176	49	230	102	84	65	61	61	13	7.0	
23	123	81	108	49	600	108	84	65	158	39	13	7.0	
24	64	80	94	49	446	110	86	62	63	33	14	9.1	
25	49	78	89	46	287	103	95	60	50	31	27	9.8	
26	47	76	79	44	203	94	94	56	46	36	21	9.1	
27	42	75	75	44	184	92	94	82	44	46	18	8.4	
28	41	91	75	44	161	98	94	94	42	35	15	9.1	
29	83	96	73	42	---	103	92	76	39	29	13	9.1	
30	66	86	154	42	---	328	89	68	39	28	15	9.8	
31	51	---	126	42	---	549	---	135	---	30	15	---	
TOTAL	1447	3126	3141	2032	3230	4492	3755	2885	2053	1193	644	285.9	
MEAN	46.7	104	101	65.5	115	145	125	93.1	68.4	38.5	20.8	9.53	
MAX	154	408	183	108	600	549	298	258	158	61	41	14	
MIN	26	46	51	42	40	92	82	56	39	28	13	7.0	
CFSM	.48	1.06	1.03	.67	1.18	1.48	1.28	.95	.70	.39	.21	.10	
IN.	.55	1.19	1.20	.77	1.23	1.71	1.43	1.10	.78	.45	.25	.11	
CAL YR 1984	TOTAL	38446.0		MEAN	105.0	MAX	586	MIN	23.0	CFSM	1.07	IN.	14.59
WTR YR 1985	TOTAL	28283.9		MEAN	77.5	MAX	600	MIN	7.0	CFSM	.79	IN.	10.77

## WHEELING CREEK BASIN

03111548 WHEELING CREEK BELOW BLAINE, OHIO, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1982 to current year.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,640 mg/L May 22, 1983; minimum daily mean 9 mg/L July 25, 1985.  
 SEDIMENT LOADS: Maximum daily 14,600 tons May 22, 1983; minimum daily, 0.65 tons Sept. 7, 1983.

## EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,670 mg/L Feb. 22; minimum daily mean, 9 mg/L July 25.  
 SEDIMENT LOADS: Maximum daily, 1,040 tons Feb. 22; minimum daily, 0.75 tons July 25.

## SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	53	140	20	46	23	2.9	93	21	5.3
2	49	70	9.3	62	27	4.5	84	20	4.5
3	36	35	3.4	55	25	3.7	82	20	4.4
4	32	33	2.9	77	94	28	78	20	4.2
5	27	28	2.0	123	72	24	64	20	3.5
6	27	24	1.7	80	53	11	55	19	2.8
7	26	17	1.2	62	51	8.5	51	19	2.6
8	36	34	3.3	55	68	10	59	19	3.0
9	49	45	6.0	61	87	15	69	19	3.5
10	35	22	2.1	252	285	190	125	83	45
11	33	17	1.5	408	605	749	183	116	61
12	30	12	.97	186	330	173	118	63	20
13	31	15	1.3	130	130	46	118	58	18
14	28	30	2.3	119	42	13	174	76	36
15	27	33	2.4	102	25	6.9	142	55	21
16	27	33	2.4	105	42	12	117	35	11
17	29	30	2.3	94	42	11	101	33	9.0
18	49	30	4.0	90	39	9.5	84	30	6.8
19	36	28	2.7	94	36	9.1	92	42	10
20	32	27	2.3	92	32	7.9	101	45	12
21	35	27	2.6	86	28	6.5	102	98	33
22	154	89	41	84	25	5.7	176	186	95
23	123	48	17	81	23	5.0	108	44	13
24	64	25	4.3	80	22	4.8	94	31	7.9
25	49	22	2.9	78	20	4.2	89	29	7.0
26	47	20	2.5	76	18	3.7	79	28	6.0
27	42	18	2.0	75	17	3.4	75	27	5.5
28	41	16	1.8	91	20	4.9	75	26	5.3
29	83	76	18	96	21	5.4	73	24	4.7
30	66	20	3.6	86	21	4.9	154	157	72
31	51	14	1.9	---	---	---	126	43	15
TOTAL	1447	---	171.67	3126	---	1383.5	3141	---	548.0

## WHEELING CREEK BASIN

03111548 WHEELING CREEK BELOW BLAINE, OHIO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

JANUARY					FEBRUARY			MARCH	
1	108	38	11	42	27	3.1	147	32	13
2	107	39	11	41	25	2.8	136	32	12
3	95	39	10	41	25	2.8	126	31	11
4	90	38	9.2	41	25	2.8	125	30	10
5	89	38	9.1	41	25	2.8	157	41	17
6	83	37	8.3	40	25	2.7	130	38	13
7	82	38	8.4	40	25	2.7	112	35	11
8	82	54	12	40	26	2.8	131	45	16
9	82	58	13	40	25	2.7	121	30	9.8
10	76	59	12	40	23	2.5	108	26	7.6
11	74	58	12	50	48	6.5	107	40	12
12	74	58	12	60	105	17	262	251	174
13	74	57	11	70	120	23	176	61	29
14	68	56	10	85	87	20	148	29	12
15	62	55	9.2	72	74	14	133	28	10
16	62	52	8.7	68	73	13	123	28	9.3
17	58	49	7.7	64	73	13	120	29	9.4
18	58	48	7.5	64	72	12	112	27	8.2
19	54	48	7.0	60	70	11	107	27	7.8
20	54	47	6.9	60	85	14	115	26	8.1
21	49	47	6.2	60	214	35	109	25	7.4
22	49	44	5.8	230	1670	1040	102	24	6.6
23	49	43	5.7	600	390	632	108	24	7.0
24	49	41	5.4	446	160	193	110	23	6.8
25	46	38	4.7	287	88	68	103	22	6.1
26	44	35	4.2	203	47	26	94	19	4.8
27	44	32	3.8	184	33	16	92	19	4.7
28	44	30	3.6	161	32	14	98	28	7.4
29	42	30	3.4	---	---	---	103	31	8.6
30	42	29	3.3	---	---	---	328	605	739
31	42	28	3.2	---	---	---	549	383	656
TOTAL	2032	---	245.3	3230	---	2195.2	4492	---	1854.6
APRIL					MAY			JUNE	
1	298	65	52	91	37	9.1	107	137	34
2	212	52	30	235	450	358	79	46	9.8
3	188	40	20	258	210	168	95	165	45
4	174	36	17	142	39	15	105	388	97
5	160	35	15	119	39	13	81	150	33
6	146	33	13	110	39	12	76	67	14
7	154	53	22	104	38	11	58	54	8.5
8	178	46	22	94	37	9.4	49	55	7.3
9	151	34	14	84	37	8.4	93	173	47
10	139	33	12	78	37	7.8	61	64	11
11	135	30	11	74	37	7.4	53	43	6.2
12	126	30	10	70	36	6.8	151	179	81
13	118	30	9.6	66	35	6.2	82	103	23
14	116	29	9.1	67	44	8.0	61	53	8.7
15	112	27	8.2	72	60	12	55	44	6.5
16	105	36	10	88	90	21	55	41	6.1
17	94	35	8.9	79	49	10	52	37	5.2
18	87	32	7.5	80	43	9.3	56	44	6.7
19	85	29	6.7	78	42	8.8	51	44	6.1
20	82	28	6.2	68	42	7.7	47	43	5.5
21	83	27	6.1	65	42	7.4	44	40	4.8
22	84	27	6.1	65	41	7.2	61	119	32
23	84	28	6.4	65	37	6.5	158	385	206
24	86	29	6.7	62	33	5.5	63	35	6.0
25	95	30	7.7	60	33	5.3	50	35	4.7
26	94	30	7.6	56	31	4.7	46	34	4.2
27	94	30	7.6	82	126	27	44	34	4.0
28	94	29	7.4	94	101	22	42	36	4.1
29	92	28	7.0	76	40	8.2	39	38	4.0
30	89	27	6.5	68	38	7.0	39	39	4.1
31	---	---	---	135	272	91	---	---	---
TOTAL	3755	---	373.3	2885	---	900.7	2053	---	735.5



## WHEELING CREEK BASIN

03111548 WHEELING CREEK BELOW BLAINE, OHIO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

JULY				AUGUST				SEPTEMBER	
1	38	39	4.0	41	38	4.2	13	52	1.8
2	38	40	4.1	29	37	2.9	14	53	2.0
3	41	38	4.2	27	37	2.7	14	52	2.0
4	38	35	3.6	26	36	2.5	14	53	2.0
5	38	35	3.6	24	36	2.3	12	53	1.7
6	59	41	6.5	23	35	2.2	11	52	1.5
7	57	30	4.6	21	38	2.2	11	50	1.5
8	47	27	3.4	21	36	2.0	11	48	1.4
9	41	25	2.8	19	35	1.8	10	47	1.3
10	42	24	2.7	17	32	1.5	11	47	1.4
11	42	23	2.6	16	27	1.2	9.5	46	1.2
12	38	22	2.3	14	26	.98	8.9	46	1.1
13	34	23	2.1	14	25	.95	8.1	46	1.0
14	32	32	3.0	16	27	1.2	7.4	46	.92
15	48	78	11	35	175	24	7.4	45	.90
16	36	25	2.4	38	234	24	7.6	48	.98
17	30	23	1.9	33	120	11	7.6	55	1.1
18	29	20	1.6	21	86	4.9	7.7	63	1.3
19	30	18	1.5	17	74	3.4	7.7	69	1.4
20	29	14	1.1	14	56	2.1	7.7	66	1.4
21	38	487	121	14	35	1.3	7.0	55	1.0
22	61	550	98	13	25	.88	7.0	48	.91
23	39	13	1.4	13	22	.77	7.0	47	.89
24	33	10	.89	14	30	1.1	9.1	53	1.3
25	31	9	.75	27	109	9.0	9.8	69	1.8
26	36	62	7.7	21	73	4.1	9.1	66	1.6
27	46	108	14	18	65	3.2	8.4	62	1.4
28	35	27	2.6	15	63	2.6	9.1	61	1.5
29	29	21	1.6	13	62	2.2	9.1	61	1.5
30	28	18	1.4	15	103	4.7	9.8	60	1.6
31	30	22	1.8	15	62	2.5	---	---	---
TOTAL	1193	---	320.14	644	---	130.38	286.0	---	41.40
YEAR	28284.0		8899.69						

## CAPTINA CREEK BASIN

55

03114000 CAPTINA CREEK AT ARMSTRONGS MILLS, OH

LOCATION.--Lat 39°54'31", long 80°55'27", in NE 1/4 sec. 10, T.5 N., R.4 W., Belmont County, Hydrologic Unit 05030106, on left bank at downstream side of bridge on State Highway 148, 0.5 mi east of Armstrongs Mills, and 0.7 mi downstream from Anderson Run.

DRAINAGE AREA.--134 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 739.53 ft above National Geodetic Vertical Datum of 1929. Aug. 20, 1926 to Sept. 30, 1935, nonrecording gage at same site, at datum 1.0 ft higher.

REMARKS.--Estimated daily discharges: Dec. 6-9 and Jan. 10 to Feb. 21. Records good except for periods of estimated record, which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--36 years, 163 ft<sup>3</sup>/s, 16.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,900 ft<sup>3</sup>/s Aug. 11, 1980, gage height, 17.48 ft; no flow at times during 1929-30, 1932, 1934, 1959, 1963-66, 1972-74.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 22	1700	*2,310	*6.42				

Minimum discharge, 0.12 ft<sup>3</sup>/s Sept. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	2.8	20	93	209	40	174	631	41	33	5.5	1.5	6.3	
2	15	53	77	187	40	152	388	201	22	5.4	1.1	3.9	
3	10	50	69	150	38	125	301	422	187	8.4	1.6	2.8	
4	6.7	37	59	135	38	117	268	163	148	10	1.6	1.6	
5	4.7	108	48	124	38	184	242	112	67	7.4	1.4	1.5	
6	4.0	58	44	103	36	137	206	93	47	29	1.1	.75	
7	4.2	38	40	97	36	116	219	80	32	25	.79	.39	
8	4.9	28	38	94	36	172	443	65	26	14	1.5	.29	
9	14	25	36	73	36	174	352	55	42	8.5	1.7	.36	
10	15	144	200	70	34	147	282	49	33	6.0	1.7	.91	
11	10	404	476	65	34	143	252	46	25	6.0	1.0	.86	
12	7.4	182	257	60	50	466	213	41	120	4.9	.89	.62	
13	7.6	101	210	60	80	323	181	38	71	3.8	.78	.58	
14	7.0	70	294	55	110	250	163	32	46	3.5	.36	2.6	
15	5.3	58	277	55	100	197	146	34	33	35	.29	1.0	
16	5.1	74	200	55	90	159	132	69	31	29	36	.57	
17	4.0	56	156	50	80	144	112	54	27	12	33	.28	
18	6.8	48	125	50	75	117	100	62	29	5.2	13	.26	
19	5.6	60	131	50	70	103	91	50	26	3.4	6.1	.32	
20	5.0	70	181	48	65	100	83	37	21	2.4	3.4	.26	
21	4.7	57	216	48	65	87	76	28	18	2.6	2.2	.18	
22	35	49	667	48	1240	82	70	26	16	12	1.8	.19	
23	90	43	310	46	1750	97	65	25	28	13	1.6	.44	
24	35	41	224	46	1100	96	62	25	21	6.4	2.8	.56	
25	22	38	191	46	600	86	65	23	15	3.3	82	.35	
26	18	34	134	44	366	70	56	21	9.8	3.3	45	.30	
27	16	30	121	44	271	66	51	30	6.6	8.7	15	.27	
28	15	38	113	42	205	68	48	44	4.9	9.0	7.1	.55	
29	35	90	102	42	---	79	44	43	4.5	4.2	3.7	.34	
30	48	66	231	42	---	1350	40	27	5.4	2.5	2.5	.28	
31	27	---	243	40	---	1350	---	35	---	1.7	3.5	---	
TOTAL	490.8	2170	5563	2278	6723	6931	5382	2071	1195.2	291.1	276.01	29.61	
MEAN	15.8	72.3	179	73.5	240	224	179	66.8	39.8	9.39	8.90	.99	
MAX	90	404	667	209	1750	1350	631	422	187	35	82	6.3	
MIN	2.8	20	36	40	34	66	40	21	4.5	1.7	.29	.18	
CFSM	.12	.54	1.34	.55	1.79	1.67	1.34	.50	.30	.07	.07	.01	
IN.	.14	.60	1.54	.63	1.87	1.92	1.49	.57	.33	.08	.08	.01	
CAL YR 1984	TOTAL	49968.07		MEAN	137.0	MAX	1610	MIN	.48	CFSM	1.02	IN.	13.88
WTR YR 1985	TOTAL	33400.72		MEAN	91.5	MAX	1750	MIN	.18	CFSM	.68	IN.	9.27

## MUSKINGUM RIVER BASIN

03117000 TUSCARAWAS RIVER AT MASSILLON, OH

LOCATION.--Lat 40°46'13", long 81°31'27", in sec. 20 T.10 N., R.9 W., Stark County, Hydrologic Unit 05040001, on left bank at sewage-treatment works, 0.7 mi south of Massillon, and 3 mi downstream from Newman Creek.

DRAINAGE AREA.--518 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 916.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 7-10 and Jan. 11 to Feb. 21. Records good except for periods of estimated record, which are fair. Some water diverted through the Portage Lakes into the Ohio Canal at Long Lake, 28 mi and 3 mi 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 data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--48 years, 444 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft<sup>3</sup>/s July 5, 1969, gage height, 16.43 ft; minimum daily, 57 ft<sup>3</sup>/s Oct. 13, 14, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,290 ft<sup>3</sup>/s Feb. 25, gage height, 11.56 ft; minimum daily, 76 ft<sup>3</sup>/s Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	276	275	1090	160	921	3620	215	1020	210	219	332
2	238	438	252	1240	160	724	2880	378	676	252	158	211
3	176	360	251	888	160	627	1940	430	509	440	136	164
4	147	351	260	669	160	585	1610	298	415	297	126	142
5	134	1210	218	525	160	1140	1180	247	390	263	129	126
6	122	822	209	444	160	939	1060	234	367	339	128	116
7	118	516	200	422	160	657	913	240	311	325	139	107
8	126	393	200	407	160	701	774	227	296	279	167	95
9	129	332	190	346	160	696	758	208	316	244	155	99
10	122	937	190	315	160	564	822	200	302	405	126	110
11	115	959	676	260	160	519	849	191	379	525	120	100
12	109	689	801	230	230	1320	751	182	1880	303	125	95
13	103	538	730	210	330	1230	637	192	1700	243	117	90
14	103	418	761	200	370	870	576	187	1260	228	113	82
15	126	369	881	190	370	691	547	194	713	285	173	79
16	176	355	610	180	330	508	532	236	583	270	1020	83
17	203	302	474	170	280	466	468	373	518	237	665	85
18	197	263	383	170	260	445	408	347	522	210	289	86
19	196	255	357	170	240	442	385	274	487	186	220	84
20	156	248	373	160	220	427	333	240	404	172	182	85
21	150	250	360	160	220	383	282	307	347	186	143	86
22	240	239	770	160	1020	319	276	371	320	173	128	85
23	220	214	683	160	3570	299	273	285	344	163	115	87
24	169	203	458	160	4950	325	274	258	308	156	109	103
25	147	198	383	160	5120	356	313	240	292	149	132	115
26	157	194	310	160	4130	308	270	221	274	150	145	94
27	140	192	308	160	2590	290	240	346	246	188	133	106
28	151	225	325	160	1420	304	225	2980	241	146	114	98
29	755	385	434	160	---	2480	218	3000	227	138	101	76
30	534	310	1670	160	---	2790	204	1890	212	135	219	76
31	338	---	1590	160	---	3060	---	1200	---	153	537	---
TOTAL	6006	12441	15582	10046	27410	25386	23618	16191	15859	7450	6383	3297
MEAN	194	415	503	324	979	819	787	522	529	240	206	110
MAX	755	1210	1670	1240	5120	3060	3620	3000	1880	525	1020	332
MIN	103	192	190	160	160	290	204	182	212	135	101	76
CAL YR 1984	TOTAL	189625		MEAN	518	MAX	4750	MIN	102			
WTR YR 1985	TOTAL	169669		MEAN	465	MAX	5120	MIN	76			



MUSKINGUM RIVER BASIN

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03117100 TUSCARAWAS RIVER AT NAVARRE, OH

LOCATION.--Lat 40°43'36", long 81°31'47", Stark County, Hydrologic Unit 05040001, on left bank at Navarre water treatment plant, 800 ft upstream from bridge on Elton Road at Navarre, 3.5 mi downstream from gaging station at Massillon, 1.2 mi downstream from Pigeon Run, and just upstream from Wolf Creek.

DRAINAGE AREA.--534 mi .

PERIOD OF RECORD.--March 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1968 to current year.

pH: March 1968 to current year.

WATER TEMPERATURES: March 1968 to current year.

DISSOLVED OXYGEN: March 1968 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument. See records of daily discharge for gaging station at Massillon (station 03117000).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 16,700 microsiemens Jan. 27, 1970; minimum, 200 microsiemens Mar. 8, 9, 1980.

pH: Maximum, 10.7 units Oct. 27, 1971; minimum, 3.9 units Oct. 26, 1969.

WATER TEMPERATURES: Maximum, 30.0°C June 27, 28, 1969, Aug. 25, 1975, July 7, 16, 20, 1977; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, <20.0 mg/L July 15, 16, 23-26, 1982; minimum, 0.0 mg/L on many days during 1971 to 1973.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,170 microsiemens Oct. 16; minimum, 350 microsiemens Feb. 23, 24.

pH: Maximum, 8.5 units Aug. 4; minimum, 6.8 units Feb. 12.

WATER TEMPERATURES: Maximum, 26.0°C July 9; minimum, 0.5°C on many days during the winter period.

DISSOLVED OXYGEN: Maximum, 16.3 mg/L Aug. 4; minimum, 1.8 mg/L Sept. 8.

## MUSKINGUM RIVER BASIN

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1480	1170	1290	1580	1420	1500	1110	1010	1050	660	570	623
2	1720	1250	1520	1680	1320	1510	1150	1110	1130	640	540	581
3	1290	1110	1190	1270	940	1020	1170	1110	1150	840	640	791
4	1510	1290	1390	1010	860	952	1350	1140	1240	850	820	839
5	1620	1490	1540	1030	570	718	1160	980	1090	860	790	822
6	1730	1590	1650	1160	650	999	1240	1130	1190	880	790	825
7	1750	1670	1720	1400	1160	1290	1280	1160	1220	930	870	890
8	1840	1670	1740	1620	1400	1520	1320	1060	1170	950	870	898
9	1930	1770	1830	1620	1230	1510	1170	980	1080	920	860	893
10	1890	1770	1850	1220	610	925	1140	1070	1110	980	900	937
11	1820	1720	1760	680	600	642	1260	770	997	990	950	965
12	1930	1730	1830	750	680	713	750	690	708	970	910	946
13	1940	1830	1880	790	750	769	780	700	722	1130	930	1070
14	2050	1860	1920	920	800	851	810	700	749	1310	1090	1160
15	2150	2000	2070	1000	920	953	760	640	684	1110	1000	1060
16	2170	1780	2040	1050	970	1010	800	700	749	1230	1050	1110
17	1770	1310	1550	1030	970	998	890	800	852	1240	1020	1110
18	1330	1280	1310	1100	1030	1050	1030	860	933	1240	1110	1180
19	1420	1310	1360	1190	1110	1140	1130	900	1000	1170	1060	1090
20	1480	1410	1430	1230	1180	1200	1080	910	988	1120	1090	1100
21	1590	1330	1400	1350	1120	1190	990	900	939	1400	1030	1140
22	1710	1370	1550	1240	1110	1150	970	620	829	1460	1170	1260
23	1310	1080	1130	1180	980	1080	670	600	630	1290	1190	1250
24	1290	1090	1190	1270	1180	1220	810	680	745	1430	1130	1220
25	1430	1290	1340	1260	1220	1240	850	800	825	1440	1190	1270
26	1560	1450	1520	1340	1250	1310	910	820	860	1230	1150	1190
27	1810	1490	1630	1420	1350	1390	1050	920	968	1280	1150	1180
28	1510	1370	1460	1430	1290	1380	1150	920	1050	1320	1180	1240
29	1760	640	1060	1530	970	1270	1170	810	1080	1310	1200	1230
30	1380	680	1020	1030	940	964	810	460	610	1230	1180	1200
31	1490	1390	1430	---	---	---	560	470	511	1230	1130	1180
MONTH	2170	640	1540	1680	570	1120	1350	460	931	1460	540	1040

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1190	1130	1160	720	630	674	490	430	451	1620	1550	1590
2	1210	1120	1160	770	720	742	540	480	512	1520	1270	1380
3	1320	1130	1180	790	750	765	610	530	574	1400	1000	1130
4	1360	1100	1210	880	760	824	630	560	589	1220	1030	1120
5	1420	1040	1210	850	610	728	730	630	681	1320	1210	1250
6	1400	1190	1260	700	610	638	770	680	734	1420	1320	1380
7	1260	1190	1220	830	700	772	760	670	709	1500	1410	1460
8	1220	1150	1180	900	810	857	820	760	793	1500	1380	1460
9	1340	1050	1160	830	740	806	850	810	828	1520	1380	1430
10	1380	1100	1210	900	810	840	880	810	850	1500	1480	1490
11	1520	1240	1360	930	890	914	840	780	805	1650	1570	1610
12	1580	1300	1370	920	580	713	870	780	820	1660	1620	1640
13	1380	1210	1310	670	570	615	920	850	887	1790	1620	1700
14	1310	1050	1180	760	680	727	1010	910	954	1780	1690	1760
15	1050	990	1030	820	760	792	1050	990	1030	1750	1670	1700
16	1090	950	1000	930	790	855	1080	1040	1050	1840	1710	1760
17	1120	920	993	970	920	945	1040	990	1010	1760	1180	1490
18	980	940	963	980	940	958	1150	1030	1080	1460	990	1140
19	1070	950	1010	1020	940	972	1260	1140	1200	1140	1060	1100
20	1100	990	1030	1030	960	996	1270	1220	1240	1440	1130	1300
21	1150	1000	1060	1080	990	1030	1450	1180	1330	1550	1300	1420
22	1070	660	943	1080	1030	1060	1450	1410	1440	1780	1070	1340
23	610	350	413	1210	1050	1160	1450	1400	1430	1310	1110	1190
24	380	350	365	1260	1190	1220	1450	1380	1420	1470	1320	1390
25	400	380	392	1250	1080	1170	1490	1220	1370	1600	1440	1520
26	430	400	411	1160	1090	1130	1420	1270	1340	1640	1540	1590
27	520	430	478	1280	1130	1190	1430	1370	1390	1640	1010	1530
28	630	510	567	1370	1290	1320	1490	1430	1460	930	430	582
29	---	---	---	1370	420	648	1560	1490	1520	600	470	540
30	---	---	---	530	450	496	1610	1480	1560	690	600	643
31	---	---	---	520	440	478	---	---	---	1010	680	760
MONTH	1580	350	994	1370	420	872	1610	430	1040	1840	430	1340

## MUSKINGUM RIVER BASIN

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03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	1670	1540	1610	2060	1200	1760	790	660	714
2	---	---	---	1670	1350	1550	1220	1050	1120	960	790	878
3	---	---	---	1710	920	1400	1390	1230	1290	1160	970	1050
4	---	---	---	1040	860	948	1600	1390	1480	1260	1160	1200
5	---	---	---	1310	1050	1180	1650	1480	1570	1390	1280	1320
6	1190	1140	1160	1620	1200	1370	1670	1640	1650	1470	1330	1400
7	1270	1140	1190	1290	980	1080	1650	1470	1610	1530	1410	1460
8	1380	1250	1300	1270	1130	1180	1610	1460	1540	1590	1470	1530
9	1370	1250	1300	1420	1270	1350	1690	1390	1590	1550	1480	1520
10	1430	1370	1400	1650	1000	1300	1360	1270	1310	1710	1560	1610
11	1430	740	1350	1740	650	870	1470	1290	1390	1740	1390	1550
12	1000	420	553	1130	870	981	1640	1460	1560	1460	1330	1400
13	600	480	551	1300	1120	1180	1830	1370	1620	1450	1370	1410
14	670	570	620	1530	1300	1340	1610	1400	1540	1430	1360	1390
15	760	680	726	1750	1130	1390	1690	1440	1600	1460	1400	1430
16	920	760	857	1620	1120	1270	1380	480	848	1520	1440	1480
17	920	870	900	1290	1170	1210	670	510	592	1620	1490	1550
18	1030	900	945	1310	1170	1240	890	680	775	1630	1580	1600
19	1070	890	943	1400	1310	1360	1080	900	995	1650	1620	1630
20	1080	940	1000	1430	1370	1410	1160	1090	1120	1630	1590	1610
21	1170	1090	1130	1540	1030	1340	1240	1140	1180	1660	1550	1610
22	1160	1100	1140	1680	1510	1620	1370	1240	1300	1700	1620	1660
23	1330	1040	1160	1720	1560	1660	1450	1300	1390	1740	1470	1620
24	1350	1190	1240	1770	1570	1640	1390	1350	1370	1530	1410	1460
25	1420	1210	1300	1740	1500	1610	1570	1290	1400	1670	1510	1570
26	1590	1230	1370	1710	1520	1630	1740	1350	1580	1780	1240	1520
27	1420	1280	1340	1990	1780	1870	1330	1220	1260	1430	1160	1240
28	1530	1390	1430	2010	1230	1500	1540	1310	1390	1700	1440	1520
29	1770	1470	1610	1490	1240	1380	1510	1350	1400	1690	1210	1400
30	1530	1410	1450	1680	1470	1580	1450	1090	1260	1420	1220	1300
31	---	---	---	1800	1650	1720	1820	700	998	---	---	---
MONTH	1770	420	1120	2010	650	1380	2060	480	1340	1780	660	1420
YEAR	2170	350	1180									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.8	7.8	7.8	7.8	7.8	7.8	8.1	8.0	8.0	7.9	7.8	7.8
2	7.9	7.8	7.8	7.9	7.8	7.8	8.1	8.0	8.0	7.8	7.7	7.8
3	7.9	7.8	7.8	7.9	7.7	7.8	8.1	8.0	8.0	8.0	7.8	7.9
4	7.8	7.7	7.8	7.9	7.8	7.8	8.2	8.0	8.1	8.0	7.9	8.0
5	7.8	7.7	7.8	7.9	7.6	7.7	8.2	8.1	8.1	8.0	8.0	8.0
6	7.8	7.7	7.7	7.9	7.7	7.8	8.2	8.1	8.1	8.0	8.0	8.0
7	7.7	7.7	7.7	8.1	7.9	8.0	8.2	8.1	8.1	8.0	8.0	8.0
8	7.7	7.6	7.7	8.1	8.0	8.0	8.4	8.1	8.3	8.1	8.0	8.1
9	7.7	7.6	7.6	8.0	7.9	8.0	8.3	8.3	8.3	8.1	8.1	8.1
10	7.7	7.6	7.6	7.9	7.7	7.8	8.3	8.2	8.2	8.1	8.1	8.1
11	7.7	7.6	7.6	7.8	7.7	7.7	8.2	7.7	8.0	8.1	8.1	8.1
12	7.7	7.6	7.6	7.9	7.8	7.9	8.0	7.9	8.0	8.1	8.1	8.1
13	7.7	7.6	7.6	8.0	7.9	8.0	8.0	7.9	8.0	8.1	8.0	8.0
14	7.7	7.6	7.6	8.0	7.9	8.0	8.0	7.9	8.0	8.1	8.0	8.0
15	7.6	7.6	7.6	8.0	7.9	8.0	8.0	7.9	7.9	8.1	8.1	8.1
16	7.6	7.6	7.6	8.0	8.0	8.0	8.0	7.9	7.9	8.1	8.0	8.0
17	7.6	7.5	7.6	8.0	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0
18	7.6	7.5	7.5	8.0	8.0	8.0	8.0	7.9	8.0	8.0	8.0	8.0
19	7.8	7.7	7.8	8.0	7.9	8.0	7.9	7.8	7.9	8.1	8.0	8.0
20	7.8	7.7	7.7	8.0	7.9	8.0	8.1	7.9	8.0	8.1	8.0	8.0
21	7.8	7.7	7.7	8.0	8.0	8.0	8.0	7.9	8.0	8.0	7.9	7.9
22	7.7	7.6	7.7	8.1	7.9	8.0	8.1	7.9	8.0	7.9	7.8	7.9
23	7.8	7.7	7.8	8.1	8.0	8.0	8.0	7.9	7.9	7.9	7.8	7.8
24	7.8	7.7	7.7	8.0	7.9	8.0	8.1	8.0	8.1	7.9	7.8	7.9
25	7.8	7.7	7.8	8.0	7.9	7.9	8.2	8.1	8.2	7.9	7.8	7.9
26	7.7	7.7	7.7	8.0	7.9	8.0	8.2	8.1	8.1	8.0	7.9	7.9
27	7.7	7.7	7.7	8.0	8.0	8.0	8.2	8.1	8.2	7.9	7.9	7.9
28	7.7	7.6	7.7	8.0	7.9	7.9	8.2	8.1	8.1	8.0	7.9	7.9
29	7.6	7.5	7.6	8.0	7.9	7.9	8.1	7.9	8.0	8.0	7.9	8.0
30	7.7	7.6	7.6	8.0	7.9	7.9	7.9	7.7	7.8	8.0	7.9	8.0
31	7.8	7.7	7.7	---	---	---	7.8	7.7	7.8	8.1	8.0	8.0
MONTH	7.9	7.5	7.7	8.1	7.6	7.9	8.4	7.7	8.0	8.1	7.7	8.0



## MUSKINGUM RIVER BASIN

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	8.0	8.0	8.0	7.7	7.7	7.7	7.5	7.4	7.4	7.7	7.5	7.6
2	8.0	8.0	8.0	7.7	7.7	7.7	7.5	7.3	7.4	7.6	7.5	7.5
3	8.0	7.9	8.0	7.8	7.7	7.7	7.6	7.4	7.5	7.6	7.5	7.5
4	8.0	7.9	8.0	7.9	7.7	7.8	7.6	7.4	7.5	7.6	7.5	7.5
5	8.0	7.9	7.9	7.9	7.8	7.9	7.6	7.5	7.5	7.7	7.5	7.6
6	8.0	7.9	7.9	7.9	7.8	7.8	7.6	7.5	7.6	7.6	7.5	7.5
7	7.9	7.9	7.9	7.9	7.8	7.8	7.9	7.6	7.7	7.6	7.5	7.5
8	7.9	7.9	7.9	7.9	7.8	7.9	7.9	7.8	7.9	7.6	7.5	7.5
9	7.9	7.9	7.9	7.9	7.7	7.8	8.0	7.9	7.9	7.6	7.4	7.5
10	8.0	7.8	7.9	7.9	7.8	7.8	8.0	7.9	7.9	7.5	7.4	7.4
11	7.9	7.9	7.9	7.8	7.8	7.8	7.9	7.8	7.9	7.7	7.6	7.6
12	8.0	6.8	7.6	7.8	7.7	7.8	7.9	7.8	7.8	7.7	7.5	7.6
13	8.0	7.9	8.0	7.8	7.7	7.8	7.9	7.7	7.8	7.7	7.5	7.6
14	8.0	8.0	8.0	7.8	7.7	7.8	7.9	7.7	7.8	7.6	7.4	7.5
15	8.0	7.9	7.9	7.9	7.8	7.8	8.1	7.6	7.9	7.4	7.3	7.4
16	7.9	7.8	7.9	7.9	7.8	7.8	8.2	7.8	8.0	7.5	7.3	7.4
17	8.0	7.8	7.9	7.9	7.8	7.9	8.1	7.7	7.9	7.4	7.3	7.4
18	8.0	7.9	8.0	8.0	7.9	7.9	8.0	7.8	7.9	7.4	7.2	7.3
19	8.1	8.0	8.0	8.0	7.9	7.9	7.9	7.7	7.8	7.4	7.3	7.3
20	8.1	8.0	8.0	8.0	7.9	7.9	7.8	7.5	7.7	7.5	7.3	7.4
21	8.0	7.9	8.0	8.1	7.9	8.0	7.6	7.4	7.5	7.5	7.4	7.4
22	8.0	7.9	8.0	8.1	7.9	8.0	7.4	7.3	7.4	7.4	7.3	7.4
23	7.9	7.9	7.9	8.0	7.9	7.9	8.0	7.3	7.7	7.7	7.3	7.5
24	7.9	7.8	7.8	8.2	7.8	8.0	7.8	7.5	7.7	7.7	7.6	7.6
25	7.8	7.7	7.7	8.2	7.8	8.0	7.8	7.4	7.6	7.7	7.6	7.6
26	7.7	7.6	7.7	8.3	7.8	8.0	7.7	7.5	7.6	7.8	7.6	7.7
27	7.6	7.6	7.6	8.2	7.9	8.0	7.8	7.5	7.6	7.7	7.6	7.6
28	7.7	7.6	7.6	8.0	7.8	7.9	7.9	7.4	7.7	7.6	7.1	7.5
29	---	---	---	7.8	7.5	7.6	7.8	7.6	7.7	7.4	7.4	7.4
30	---	---	---	7.5	7.5	7.5	7.6	7.5	7.6	7.4	7.3	7.4
31	---	---	---	7.5	7.5	7.5	---	---	---	7.4	7.4	7.4
MONTH	8.1	6.8	7.9	8.3	7.5	7.8	8.2	7.3	7.7	7.8	7.1	7.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	8.0	7.7	7.9	8.0	7.7	7.8	7.5	7.4	7.4
2	---	---	---	8.0	7.6	7.7	8.3	7.7	8.0	7.5	7.4	7.5
3	---	---	---	7.7	7.6	7.6	8.4	7.7	8.0	7.6	7.5	7.5
4	---	---	---	7.6	7.5	7.6	8.5	7.7	8.0	7.7	7.4	7.5
5	---	---	---	7.7	7.6	7.6	8.0	7.5	7.7	7.8	7.5	7.6
6	7.7	7.7	7.7	7.7	7.6	7.6	7.9	7.6	7.7	7.6	7.5	7.5
7	7.8	7.6	7.7	7.7	7.5	7.6	7.6	7.5	7.6	7.6	7.5	7.5
8	7.8	7.6	7.7	7.7	7.6	7.6	7.6	7.4	7.5	7.6	7.5	7.5
9	7.7	7.6	7.6	7.8	7.5	7.6	7.7	7.4	7.5	7.5	7.5	7.5
10	7.8	7.6	7.7	7.6	7.5	7.6	7.9	7.4	7.6	7.5	7.4	7.5
11	7.7	7.6	7.7	7.6	7.4	7.5	8.1	7.3	7.6	7.5	7.5	7.5
12	7.6	7.5	7.5	7.6	7.5	7.5	8.4	7.3	7.7	7.5	7.5	7.5
13	7.5	7.5	7.5	7.9	7.4	7.7	8.4	7.5	7.8	7.5	7.4	7.5
14	7.6	7.5	7.5	7.7	7.4	7.6	8.0	7.4	7.6	7.7	7.4	7.6
15	7.6	7.6	7.6	7.8	7.4	7.6	7.9	7.4	7.6	7.6	7.4	7.5
16	7.7	7.6	7.6	7.7	7.5	7.5	7.5	7.3	7.4	7.6	7.4	7.5
17	7.7	7.6	7.6	7.8	7.5	7.7	7.3	7.2	7.3	7.5	7.4	7.4
18	7.7	7.6	7.6	7.9	7.6	7.7	7.4	7.3	7.3	7.5	7.3	7.4
19	7.7	7.6	7.6	8.3	7.6	7.9	7.6	7.3	7.4	7.7	7.3	7.5
20	7.7	7.6	7.7	8.1	7.5	7.8	7.6	7.4	7.5	7.7	7.6	7.6
21	7.7	7.6	7.7	8.2	7.4	7.8	7.6	7.5	7.5	7.7	7.6	7.6
22	7.7	7.6	7.7	8.2	7.6	7.9	7.6	7.5	7.6	7.8	7.6	7.7
23	7.8	7.6	7.7	8.2	7.7	7.9	7.8	7.5	7.6	7.7	7.6	7.6
24	7.8	7.6	7.7	8.3	7.7	7.9	7.7	7.6	7.6	7.7	7.5	7.6
25	7.9	7.7	7.8	8.2	7.6	7.8	7.7	7.5	7.6	7.7	7.6	7.6
26	8.2	7.7	7.9	7.9	7.5	7.7	7.7	7.5	7.6	7.6	7.5	7.5
27	8.1	7.8	7.9	8.2	7.7	7.9	7.8	7.6	7.7	7.7	7.5	7.5
28	8.1	7.7	7.9	8.3	7.6	7.9	7.8	7.6	7.7	7.6	7.5	7.5
29	8.1	7.7	7.9	8.4	7.6	7.9	7.7	7.4	7.5	7.6	7.5	7.5
30	8.4	7.7	8.0	8.3	7.6	7.9	7.6	7.4	7.5	7.5	7.4	7.5
31	---	---	---	8.1	7.5	7.8	7.5	7.4	7.4	---	---	---
MONTH	8.4	7.5	7.7	8.4	7.4	7.7	8.5	7.2	7.6	7.8	7.3	7.5
YEAR	8.5	6.8	7.8									

## MUSKINGUM RIVER BASIN

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	13.5	12.5	13.0	15.5	13.5	14.5	6.5	5.5	6.0	7.5	6.0	7.0
2	14.5	12.0	13.0	15.0	12.0	13.5	6.0	5.0	5.5	8.0	6.0	7.5
3	15.0	12.0	13.5	12.0	10.0	11.0	6.0	5.5	6.0	6.0	4.0	5.0
4	15.5	12.5	14.0	10.5	9.5	10.0	5.0	4.0	4.5	4.0	3.5	4.0
5	15.5	12.5	14.0	11.0	10.5	11.0	4.0	2.0	3.0	4.0	3.5	3.5
6	16.0	12.5	14.5	11.0	9.5	10.5	3.0	2.0	2.5	4.0	3.0	3.5
7	16.0	14.5	15.0	9.5	8.5	9.0	2.0	.5	1.5	4.0	3.0	3.5
8	16.0	15.0	15.5	9.0	7.5	8.5	2.0	.5	1.5	3.5	2.5	3.0
9	17.0	16.0	16.5	10.0	8.5	9.0	2.5	.5	1.5	2.5	1.0	1.5
10	17.5	16.0	16.5	10.5	9.5	10.0	3.5	2.0	2.5	1.5	.5	1.0
11	17.5	16.0	16.5	10.5	9.5	10.0	3.5	3.0	3.5	2.0	1.0	1.5
12	17.0	16.0	16.5	9.0	7.0	8.0	5.5	3.5	4.0	1.5	.5	1.0
13	17.0	15.5	16.5	7.0	6.0	6.5	6.5	5.5	6.0	1.5	.5	1.0
14	17.5	15.5	16.5	7.0	5.0	6.0	7.0	6.5	6.5	1.5	1.0	1.0
15	18.0	15.5	17.0	7.5	6.0	6.5	8.0	6.5	7.0	2.0	.5	1.0
16	19.0	16.5	17.5	7.0	5.5	6.5	8.5	7.0	7.5	2.0	.5	1.0
17	18.0	17.0	17.5	6.0	4.5	5.5	9.5	8.0	8.5	2.0	1.0	1.5
18	17.5	16.0	16.5	5.5	5.0	5.5	9.0	8.0	8.5	1.5	1.0	1.5
19	17.5	16.0	16.5	6.0	5.5	5.5	7.5	6.5	7.0	1.5	.5	1.0
20	17.0	15.0	16.5	6.0	4.5	5.5	6.5	5.5	6.0	.5	.5	.5
21	17.0	15.5	16.0	5.5	4.5	5.0	6.0	5.0	5.5	.5	.5	.5
22	16.5	15.0	15.5	5.5	4.5	5.0	6.5	5.5	6.0	1.5	.5	1.0
23	15.0	14.5	15.0	5.5	4.0	4.5	5.5	4.0	4.5	2.0	1.0	1.5
24	15.0	13.5	14.5	6.0	4.0	5.0	4.5	3.0	3.5	2.0	1.5	1.5
25	14.5	12.5	13.5	6.0	4.0	5.0	4.0	2.0	3.0	2.0	1.0	1.5
26	16.0	14.0	15.0	7.0	4.5	5.5	2.0	1.0	1.5	2.0	1.0	1.5
27	17.5	15.0	16.0	8.5	5.5	7.0	3.5	2.0	2.5	2.0	1.0	1.5
28	17.0	16.0	16.5	9.0	7.5	8.5	8.0	3.5	5.5	2.5	1.5	1.5
29	17.0	16.0	16.5	8.0	7.0	7.5	10.5	8.0	9.0	2.5	1.0	1.5
30	16.0	14.5	15.0	7.0	6.0	6.5	10.5	7.5	9.5	2.5	1.0	1.5
31	15.0	14.0	14.5	---	---	---	7.5	6.0	6.5	2.5	1.5	2.0
MONTH	19.0	12.0	15.5	15.5	4.0	7.5	10.5	.5	5.0	8.0	.5	2.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.0	1.0	1.5	5.5	3.5	4.0	9.0	8.0	8.5	18.0	16.5	17.5
2	1.5	1.0	1.0	7.0	5.0	6.0	9.0	7.0	8.0	16.5	15.0	15.5
3	2.0	.5	1.0	7.0	5.5	6.0	8.5	6.5	7.0	16.5	13.5	15.0
4	2.0	.5	1.0	6.5	5.0	6.0	9.5	7.5	8.5	17.5	13.5	15.5
5	2.0	1.0	1.5	6.5	5.0	6.0	11.5	9.0	10.5	18.5	15.0	16.5
6	2.5	1.5	2.0	4.5	3.5	4.0	11.5	10.0	11.0	18.0	17.0	17.5
7	2.5	1.0	1.5	5.0	3.5	4.0	10.0	8.0	9.0	18.5	16.0	17.0
8	2.5	.5	1.5	6.5	5.0	5.5	9.0	7.5	8.0	19.0	15.5	17.0
9	2.5	.5	1.0	8.0	6.0	7.0	8.0	6.5	7.5	19.5	15.0	17.0
10	2.5	.5	1.5	8.5	6.0	7.0	8.0	6.0	7.0	18.0	16.5	17.0
11	3.0	1.5	2.0	8.0	7.0	7.5	9.5	7.5	8.5	22.0	17.5	19.5
12	2.5	1.5	2.0	8.0	6.0	7.0	11.5	8.5	10.0	22.0	19.0	20.5
13	2.0	.5	1.0	6.0	5.0	5.5	13.0	10.5	12.0	23.5	19.0	21.0
14	1.5	.5	1.0	7.0	5.5	6.0	15.5	13.0	14.0	23.0	19.0	21.0
15	1.5	.5	1.0	7.5	6.0	6.5	16.5	14.0	15.5	22.0	20.0	21.0
16	1.5	.5	1.0	8.0	5.5	6.5	18.0	15.0	16.0	21.0	19.0	20.0
17	2.0	1.0	1.0	7.5	6.0	6.5	15.0	13.0	14.0	19.0	16.5	18.0
18	2.5	.5	1.5	7.0	4.5	5.5	16.0	12.0	14.0	16.5	15.0	15.0
19	2.5	1.0	1.5	6.5	4.0	5.0	18.5	14.0	16.0	17.5	13.0	15.0
20	3.0	1.0	1.5	9.0	6.0	7.0	20.0	16.0	18.0	20.0	15.0	17.0
21	2.5	1.0	1.5	9.5	6.0	7.5	21.0	17.5	19.0	20.0	17.5	18.5
22	2.5	1.5	2.0	9.5	6.5	8.0	20.5	18.0	19.0	20.0	17.0	18.5
23	1.5	1.0	1.5	8.5	7.5	8.0	21.0	18.0	19.5	19.5	16.5	18.0
24	3.0	1.5	2.5	10.5	8.0	9.0	20.0	18.5	19.5	20.5	17.0	18.5
25	3.5	3.0	3.5	11.5	8.0	9.5	20.5	18.0	19.0	21.5	17.0	19.0
26	3.5	3.0	3.0	11.0	7.5	9.5	21.0	17.5	19.0	22.0	18.0	20.0
27	4.5	3.0	3.5	11.0	8.5	10.0	19.5	17.5	18.5	22.5	18.5	20.5
28	4.5	3.0	4.0	12.5	11.0	11.5	19.5	17.0	18.0	20.0	17.5	18.5
29	---	---	---	13.0	12.0	12.5	19.0	15.5	17.0	18.0	17.0	17.5
30	---	---	---	12.0	10.0	11.0	19.5	15.5	17.5	19.0	18.0	18.5
31	---	---	---	9.5	8.5	9.0	---	---	---	20.5	19.0	19.5
MONTH	4.5	.5	1.5	13.0	3.5	7.0	21.0	6.0	13.5	23.5	13.0	18.0

## MUSKINGUM RIVER BASIN

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	----	----	----	23.0	20.0	21.0	23.0	21.5	22.0	21.5	18.5	20.0
2	----	----	----	21.5	19.5	20.5	23.0	19.0	21.0	22.0	19.0	20.5
3	----	----	----	22.0	20.0	21.0	24.0	19.0	21.5	23.5	20.0	21.5
4	----	----	----	23.0	19.5	21.0	24.0	19.5	22.0	24.0	21.5	22.5
5	----	----	----	23.5	20.5	22.0	23.5	20.0	21.0	24.5	21.5	23.0
6	21.0	20.0	20.5	23.0	21.0	22.0	21.5	20.0	20.5	24.0	22.0	23.0
7	20.5	18.0	19.5	23.5	20.0	22.0	21.5	20.0	21.0	25.5	21.5	23.5
8	21.5	19.0	20.0	24.5	21.5	23.0	23.0	20.0	21.5	25.5	22.5	24.0
9	21.5	20.0	20.5	26.0	23.0	24.0	23.5	20.0	21.5	25.0	22.0	23.5
10	23.0	19.5	21.5	25.0	22.0	23.5	24.0	20.0	22.0	24.0	22.0	23.0
11	21.5	18.5	20.5	24.0	21.5	23.0	24.0	21.0	22.5	22.0	19.5	21.0
12	18.0	16.0	16.5	25.5	21.5	23.5	24.0	19.5	22.0	20.0	17.0	18.0
13	16.0	14.5	15.0	25.5	22.5	24.0	24.5	20.5	22.5	18.0	15.0	16.5
14	17.0	14.5	16.0	25.0	23.5	24.0	24.0	21.5	23.0	17.5	14.0	16.0
15	17.0	16.5	16.5	25.0	22.5	23.5	23.5	21.5	22.5	17.5	14.0	16.0
16	18.5	16.5	17.5	24.5	22.0	23.0	23.0	21.5	22.5	18.0	14.5	16.0
17	18.5	17.0	18.0	24.5	20.5	22.5	23.5	21.5	22.5	18.0	14.5	16.5
18	19.5	17.5	18.5	24.5	20.5	23.0	25.0	21.0	22.5	19.0	15.5	17.5
19	19.0	17.5	18.5	25.0	21.0	23.0	24.0	21.5	22.5	20.0	16.5	18.5
20	20.0	17.0	18.5	24.0	22.0	23.0	23.0	21.0	22.0	20.0	17.5	19.0
21	21.0	17.5	19.0	24.5	21.5	23.0	21.5	19.5	20.5	20.5	17.5	19.0
22	20.5	19.0	19.5	24.0	21.5	22.5	21.0	18.5	20.0	20.5	17.5	19.0
23	22.5	19.0	20.5	23.5	19.5	21.5	21.0	18.0	19.5	20.5	17.5	19.0
24	23.0	20.0	21.5	23.5	19.0	21.0	20.5	18.0	19.0	20.5	18.0	19.0
25	23.0	19.5	21.0	24.0	20.5	22.5	21.5	18.5	20.0	19.0	15.5	17.5
26	22.5	19.5	21.0	24.0	21.0	22.0	22.0	19.0	20.5	18.0	16.0	16.5
27	22.5	19.0	21.0	23.5	19.5	21.5	22.5	19.5	21.0	16.5	15.0	16.0
28	23.0	19.0	21.0	23.5	19.0	21.5	22.5	19.0	21.0	17.0	14.0	15.5
29	22.5	19.5	21.0	24.0	19.5	22.0	22.0	19.5	21.0	17.0	14.0	15.5
30	24.0	19.0	21.5	24.5	21.0	22.5	22.0	20.0	20.5	17.5	14.5	16.0
31	----	----	----	24.5	22.0	23.0	20.5	19.5	20.0	----	----	----
MONTH	24.0	14.5	19.5	26.0	19.0	22.5	25.0	18.0	21.5	25.5	14.0	19.0
YEAR	26.0	.5	13.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.8	6.8	7.3	6.9	5.7	6.3	10.3	9.2	9.7	10.2	9.8	10.1
2	7.7	6.7	7.2	6.6	5.6	6.2	10.9	9.6	10.2	10.1	9.1	9.6
3	7.5	6.7	7.0	7.1	6.2	6.7	10.7	9.8	10.2	10.9	10.2	10.7
4	7.7	6.0	6.8	7.4	6.8	7.0	11.2	9.8	10.4	11.3	10.9	11.1
5	7.4	6.1	6.7	8.0	7.1	7.4	11.4	10.5	10.9	11.3	10.9	11.1
6	7.3	5.9	6.5	9.1	8.1	8.6	11.6	10.7	11.1	11.5	10.2	11.0
7	6.7	5.6	6.0	9.8	8.7	9.4	11.7	10.7	11.1	11.1	10.9	11.0
8	6.5	5.0	5.6	10.1	9.6	9.8	11.9	10.8	11.3	11.5	10.8	11.1
9	6.7	4.9	5.8	9.6	8.5	9.3	11.9	10.9	11.3	11.8	11.1	11.5
10	7.1	5.6	6.4	9.1	8.1	8.7	11.0	10.3	10.6	11.8	10.8	11.4
11	6.5	5.2	5.6	9.0	8.2	8.6	10.6	10.3	10.4	11.8	11.3	11.5
12	6.1	4.8	5.4	10.0	9.0	9.6	10.5	9.9	10.4	11.8	11.2	11.4
13	6.5	4.5	5.6	10.8	10.0	10.5	10.2	9.7	10.0	11.8	11.1	11.3
14	6.6	5.1	5.8	10.8	10.3	10.6	10.1	9.7	9.9	11.4	10.4	11.0
15	5.8	3.8	4.8	10.2	9.5	9.9	10.0	9.2	9.7	11.5	10.9	11.2
16	6.3	3.9	4.9	9.9	9.6	9.7	10.1	9.3	9.8	11.5	10.7	11.0
17	6.1	4.6	5.2	10.3	9.6	9.9	9.9	9.2	9.6	10.8	9.9	10.5
18	5.7	4.9	5.8	10.3	9.9	10.1	9.6	9.0	9.3	10.9	9.9	10.5
19	6.9	5.2	6.0	9.9	9.5	9.8	9.5	9.0	9.3	11.2	10.2	10.6
20	6.8	5.1	5.8	10.2	9.6	10.0	10.8	9.3	10.0	11.4	10.4	10.8
21	6.4	5.1	5.8	10.6	10.0	10.4	10.4	9.9	10.1	10.9	9.9	10.5
22	5.7	5.0	5.5	10.7	10.3	10.5	10.1	9.1	9.7	10.6	8.9	9.7
23	6.7	5.2	5.9	10.8	10.2	10.5	10.7	9.1	10.2	10.3	8.8	9.5
24	6.9	5.6	6.2	10.5	9.4	10.1	11.3	10.6	10.9	9.9	8.9	9.4
25	7.0	5.5	6.3	10.7	10.1	10.3	11.6	10.7	11.1	10.8	8.6	9.7
26	6.3	5.1	5.8	10.5	9.9	10.1	11.6	11.0	11.3	10.9	10.2	10.5
27	6.2	4.9	5.5	10.3	9.0	9.8	11.3	10.7	11.1	10.7	9.5	10.1
28	5.8	4.9	5.3	9.0	8.6	8.8	11.0	10.1	10.6	10.8	9.7	10.3
29	5.0	3.9	4.4	9.0	8.5	8.7	10.1	8.5	9.4	11.0	10.5	10.7
30	5.8	4.4	5.3	9.2	8.4	8.8	9.1	8.1	8.6	11.3	10.5	10.8
31	6.6	5.2	6.0	----	----	----	10.0	9.2	9.8	11.1	10.5	10.7
MONTH	7.8	3.8	5.9	10.8	5.6	9.2	11.9	8.1	10.3	11.8	8.6	10.7



OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	11.2	10.5	10.8	11.8	10.1	11.1	8.8	6.9	7.9	6.7	5.0	5.8
2	11.2	10.3	10.7	10.1	8.7	9.7	9.9	5.8	7.9	6.2	4.7	5.4
3	11.9	9.7	10.7	9.9	8.1	9.0	10.1	9.0	9.9	6.8	5.5	6.1
4	11.8	10.0	10.9	11.1	8.3	10.2	10.2	9.1	9.6	7.1	5.3	6.1
5	11.3	9.9	10.7	11.0	10.5	10.7	9.5	8.8	9.3	7.8	5.2	6.3
6	11.3	9.9	10.4	11.8	11.0	11.5	8.9	8.5	8.7	6.3	4.7	5.4
7	11.1	9.7	10.2	11.7	10.4	11.4	10.1	8.9	9.7	7.0	4.3	5.5
8	11.4	9.7	10.3	11.1	10.4	10.7	10.6	10.0	10.3	6.9	4.7	5.6
9	11.5	9.7	10.4	10.8	10.0	10.5	11.0	10.1	10.5	6.3	4.4	5.2
10	11.7	8.6	10.0	11.2	10.2	10.6	11.3	10.3	10.7	4.5	3.5	3.9
11	11.5	9.1	10.1	10.3	9.2	10.1	10.3	9.6	10.0	8.2	4.5	6.0
12	10.3	9.3	10.0	10.3	9.6	10.0	10.4	8.8	9.7	7.6	3.7	5.5
13	10.6	10.0	10.4	11.0	10.3	10.8	10.1	8.7	9.3	8.3	3.8	5.6
14	11.6	10.6	11.1	11.1	10.1	10.8	10.2	8.2	9.0	7.7	3.5	5.1
15	11.9	11.2	11.4	11.1	10.2	10.6	10.7	7.7	9.0	4.7	2.5	3.5
16	11.9	10.9	11.3	11.5	10.2	10.8	11.4	7.9	9.3	4.3	2.1	3.2
17	12.3	10.8	11.3	11.2	9.5	10.5	11.3	8.0	9.4	3.5	2.7	3.1
18	12.6	10.8	11.5	12.2	10.2	11.1	12.0	8.3	9.7	4.1	3.1	3.6
19	12.7	11.0	11.6	12.4	10.4	11.2	12.3	7.6	9.5	4.7	3.5	4.0
20	12.5	10.1	11.4	12.0	10.2	10.9	12.8	6.7	9.3	4.1	3.0	3.5
21	12.7	11.2	11.8	12.5	9.7	10.8	13.5	6.4	9.4	3.2	2.4	2.8
22	11.9	11.1	11.4	12.2	9.4	10.5	10.9	6.1	8.4	3.6	2.2	2.9
23	12.2	11.1	11.7	10.8	8.5	9.6	12.3	5.7	8.5	7.2	2.0	4.7
24	11.7	10.1	11.0	12.3	8.3	10.0	9.3	5.3	7.4	7.1	4.7	5.7
25	10.8	9.6	10.4	13.3	8.6	10.4	10.0	3.9	6.7	7.4	4.6	5.7
26	10.2	9.2	9.8	14.4	8.8	11.0	9.9	4.2	6.7	8.4	4.3	6.0
27	10.0	6.5	9.3	12.7	8.7	10.2	10.8	4.6	7.3	7.5	4.5	5.8
28	11.5	10.3	11.0	9.5	7.4	8.3	10.8	5.1	7.6	8.9	5.9	6.1
29	---	---	---	7.8	7.0	7.5	10.2	5.8	7.6	5.9	5.7	5.8
30	---	---	---	8.9	7.7	8.3	9.3	5.5	7.2	5.8	5.4	5.6
31	---	---	---	9.6	8.8	9.2	---	---	---	5.7	5.0	5.6
MONTH	12.7	6.5	10.8	14.4	7.0	10.3	13.5	3.9	8.9	8.9	2.0	5.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	10.4	6.1	8.1	9.3	4.5	7.1	6.5	4.7	5.6
2	---	---	---	8.4	5.4	6.9	12.9	4.8	8.3	6.9	5.1	5.9
3	---	---	---	6.6	4.8	5.7	13.6	4.9	8.9	7.4	4.6	5.7
4	---	---	---	6.7	4.2	5.3	16.3	5.3	10.5	7.8	3.8	5.5
5	---	---	---	8.1	5.1	6.3	13.3	6.2	8.7	7.8	3.4	5.4
6	7.6	6.6	7.1	7.4	4.8	6.0	11.2	4.6	7.8	6.0	3.0	4.5
7	7.9	5.5	6.7	7.5	4.6	5.9	8.6	4.5	6.7	6.2	2.3	4.1
8	8.1	5.7	6.8	7.6	5.1	6.1	9.2	4.1	6.6	6.0	1.8	3.7
9	7.0	5.2	6.1	7.9	4.2	5.8	11.8	4.5	7.5	5.3	2.2	3.7
10	8.7	5.4	6.8	5.9	3.6	4.7	13.7	4.3	8.6	4.6	2.2	3.5
11	7.3	5.3	6.4	5.6	3.1	4.3	14.7	5.2	9.9	5.1	2.6	3.9
12	7.6	6.0	6.8	7.1	3.9	5.3	13.6	5.8	9.6	5.3	3.5	4.4
13	7.4	6.7	6.9	10.5	4.3	7.0	13.9	4.9	9.2	6.0	4.2	5.0
14	7.3	6.9	7.1	7.1	4.6	5.8	10.9	4.3	7.6	7.2	5.2	6.1
15	7.2	7.0	7.1	7.6	3.9	5.6	9.6	4.2	6.5	7.9	5.1	6.2
16	7.5	6.9	7.2	5.4	4.0	4.5	4.9	2.6	3.6	8.0	5.2	6.3
17	7.1	6.8	6.9	8.8	4.2	6.3	4.6	3.8	4.3	7.2	4.7	5.9
18	7.3	6.4	6.8	10.3	4.8	7.1	6.0	4.2	5.0	7.5	4.7	6.0
19	6.9	6.3	6.6	13.6	4.8	8.3	6.9	4.1	5.3	7.1	4.7	5.9
20	7.7	6.0	6.8	10.9	4.3	7.2	7.0	4.0	5.4	7.5	4.7	6.1
21	7.6	6.1	6.8	10.7	3.9	7.2	6.9	4.2	5.5	7.8	4.3	6.0
22	7.4	5.8	6.6	11.4	4.5	7.8	7.9	4.3	6.0	8.3	4.3	6.0
23	8.4	6.2	7.1	12.3	4.8	8.6	8.2	4.5	6.2	7.7	4.7	6.2
24	9.2	5.8	7.4	13.7	5.2	9.3	6.5	4.5	5.6	7.0	3.9	5.3
25	10.1	6.0	7.8	13.2	5.1	9.0	7.7	4.1	5.7	7.3	4.7	6.1
26	12.6	6.0	8.9	9.4	4.6	6.8	6.8	4.3	5.5	6.6	3.7	4.8
27	12.1	6.5	8.9	13.1	4.7	8.5	8.0	4.1	5.9	7.3	4.1	5.4
28	12.0	6.1	8.5	13.6	5.2	8.9	8.1	4.3	6.1	7.7	5.1	6.4
29	12.0	6.0	8.6	14.1	5.3	9.5	7.3	4.1	5.7	7.4	4.9	6.0
30	13.4	6.0	9.2	13.4	5.4	9.5	6.2	3.8	4.7	6.9	5.1	6.0
31	---	---	---	11.1	4.9	8.4	5.1	4.1	4.7	---	---	---
MONTH	13.4	5.2	7.3	14.1	3.1	7.0	16.3	2.6	6.7	8.3	1.8	5.4
YEAR	16.3	1.8	8.1									

## MUSKINGUM RIVER BASIN

03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued  
 SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	1500	1030	640	1160	670	450	1590	---	1620	1790	695
2	1520	1520	1130	580	1160	730	510	1390	---	1600	1120	865
3	1180	1000	1150	805	1170	760	580	1110	---	1470	1270	1040
4	1360	970	1220	840	1190	830	585	1100	---	940	1490	1200
5	1520	625	1120	825	1210	740	675	1240	---	1190	1590	1410
6	1620	1050	1200	810	1240	630	740	1390	1170	1360	1650	1410
7	1720	1300	1210	885	1220	790	705	1450	1170	1080	1630	1460
8	1740	1560	1140	890	1170	850	790	1470	1280	1180	1530	1520
9	1810	1570	1080	895	1160	815	830	1400	1290	1360	1610	1530
10	1850	960	1120	930	1180	835	860	1510	1400	1340	1310	1610
11	1760	640	1010	965	1350	920	805	1620	1390	860	1390	1490
12	1820	710	710	955	1420	720	835	1630	475	940	1570	1390
13	1880	770	710	1100	1330	620	885	1710	565	1150	1660	1410
14	1920	820	740	1120	1200	735	955	1760	620	1330	1570	1380
15	2080	945	680	1070	1040	795	1030	1710	735	1360	1600	1430
16	2100	1000	745	1100	990	820	1050	1750	865	1170	840	1480
17	1560	1000	855	1080	970	950	1010	1590	910	1200	585	1540
18	1330	1040	920	1190	960	960	1060	1080	930	1220	755	1610
19	1360	1130	1010	1080	1020	965	1170	1080	935	1370	975	1630
20	1430	1200	1010	1100	1020	995	1230	1320	995	1410	1120	1620
21	1380	1140	935	1130	1070	1030	1340	1420	1120	1380	1180	1610
22	1530	1130	900	1240	1020	1060	1440	1180	1150	1630	1300	1650
23	1110	1090	625	1260	400	1180	1430	1170	1130	1680	1390	1630
24	1200	1210	745	1180	370	1220	1420	1380	1220	1630	1370	1470
25	1330	1240	820	1210	390	1180	1380	1490	1290	1610	1370	1560
26	1530	1320	850	1190	410	1130	1350	1600	1330	1620	1570	1520
27	1620	1390	955	1170	480	1170	1380	1590	1330	1860	1260	1210
28	1480	1410	1050	1240	570	1320	1470	460	1410	1380	1360	1480
29	1130	1360	1120	1220	---	470	1530	545	1590	1370	1410	1360
30	1100	950	565	1200	---	505	1550	635	1430	1600	1260	1290
31	1420	---	510	1190	---	460	---	725	---	1730	760	---
MEAN	1540	1120	931	1040	995	866	1030	1330	1110	1380	1330	1420

WTR YR 1985 MEAN 1180 MAX 2100 MIN 370  
 PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.8	8.0	7.8	8.0	7.7	7.4	7.6	---	7.9	7.8	7.4
2	7.8	7.8	8.0	7.8	8.0	7.7	7.4	7.5	---	7.7	7.9	7.5
3	7.8	7.8	8.0	7.9	8.0	7.7	7.5	7.5	---	7.6	8.0	7.5
4	7.8	7.8	8.0	8.0	8.0	7.8	7.5	7.5	---	7.6	7.8	7.6
5	7.8	7.7	8.1	8.0	7.9	7.9	7.5	7.6	---	7.6	7.7	7.6
6	7.7	7.8	8.1	8.0	7.9	7.8	7.6	7.5	7.7	7.6	7.7	7.5
7	7.7	8.0	8.1	8.0	7.9	7.8	7.8	7.5	7.7	7.6	7.6	7.5
8	7.7	8.0	8.3	8.1	7.9	7.9	7.9	7.5	7.7	7.6	7.5	7.5
9	7.6	8.0	8.3	8.1	7.9	7.8	7.9	7.5	7.6	7.6	7.5	7.5
10	7.6	7.8	8.2	8.1	7.9	7.8	7.9	7.4	7.7	7.6	7.5	7.5
11	7.6	7.7	7.9	8.1	7.9	7.8	7.9	7.6	7.7	7.5	7.5	7.5
12	7.6	7.9	8.0	8.1	7.6	7.8	7.8	7.6	7.5	7.5	7.7	7.5
13	7.7	8.0	8.0	8.0	8.0	7.8	7.8	7.6	7.5	7.6	7.7	7.5
14	7.7	8.0	8.0	8.0	8.0	7.8	7.7	7.5	7.5	7.6	7.6	7.6
15	7.6	8.0	7.9	8.1	7.9	7.8	7.9	7.4	7.6	7.6	7.6	7.5
16	7.6	8.0	7.9	8.0	7.9	7.8	8.0	7.4	7.6	7.5	7.3	7.5
17	7.6	8.0	8.0	8.0	7.9	7.9	7.9	7.4	7.6	7.7	7.3	7.4
18	7.5	8.0	8.0	8.0	8.0	7.9	7.9	7.3	7.7	7.7	7.3	7.4
19	7.8	8.0	7.9	8.0	8.0	7.9	7.8	7.3	7.6	7.7	7.5	7.4
20	7.7	8.0	8.0	8.0	8.0	7.9	7.7	7.4	7.7	7.7	7.5	7.6
21	7.7	8.0	8.0	7.9	8.0	8.0	7.5	7.4	7.7	7.7	7.5	7.6
22	7.7	8.0	8.0	7.9	8.0	8.0	7.4	7.4	7.7	7.9	7.6	7.6
23	7.8	8.0	7.9	7.8	7.9	7.9	7.8	7.6	7.7	7.8	7.6	7.6
24	7.7	8.0	8.1	7.9	7.8	7.9	7.7	7.6	7.7	7.8	7.6	7.6
25	7.8	7.9	8.2	7.9	7.7	8.0	7.6	7.6	7.8	7.7	7.6	7.6
26	7.7	8.0	8.1	7.9	7.7	8.1	7.6	7.6	7.8	7.7	7.6	7.5
27	7.7	8.0	8.2	7.9	7.6	8.0	7.6	7.6	7.9	7.9	7.7	7.5
28	7.7	7.9	8.1	7.9	7.6	7.9	7.7	7.5	7.9	7.8	7.6	7.5
29	7.6	7.9	8.0	8.0	---	7.5	7.7	7.4	7.9	7.8	7.5	7.5
30	7.6	7.9	7.8	8.0	---	7.5	7.6	7.4	7.9	7.8	7.5	7.5
31	7.7	---	7.8	8.0	---	7.5	---	---	---	7.8	7.4	---
MEAN	7.7	7.9	8.0	8.0	7.9	7.8	7.7	7.5	7.7	7.7	7.6	7.5

WTR YR 1985 MEAN 7.8 MAX 8.3 MIN 7.3

## MUSKINGUM RIVER BASIN

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03117100 TUSCARAWAS RIVER AT NAVARRE, OH--Continued  
 TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	14.0	6.0	7.0	1.5	4.0	8.5	17.0	---	21.0	22.0	19.5
2	13.0	13.5	5.5	7.5	1.0	6.0	8.0	15.5	---	20.5	21.0	20.0
3	13.0	11.0	6.0	5.0	1.0	6.0	7.0	14.5	---	20.5	21.0	21.5
4	14.0	9.5	4.5	4.0	1.0	6.0	8.5	15.0	---	20.5	22.0	22.5
5	14.0	11.0	3.0	3.5	1.5	6.0	10.5	16.5	---	22.0	21.0	23.0
6	14.5	10.5	2.0	3.5	2.0	4.0	11.5	17.5	20.5	21.5	20.5	23.0
7	15.0	9.0	1.5	3.5	1.5	4.0	8.5	17.0	19.0	22.0	21.0	23.0
8	15.5	8.5	1.5	3.0	1.0	6.0	8.0	17.0	20.0	22.5	21.0	24.0
9	16.0	9.0	1.5	2.0	1.0	7.0	7.0	17.0	20.5	24.0	22.0	23.5
10	16.5	10.0	2.5	1.0	1.0	7.0	7.0	17.0	21.0	23.5	22.0	23.0
11	16.5	10.0	3.5	1.5	2.0	7.5	8.5	19.0	20.5	23.0	23.0	21.0
12	16.5	8.0	4.0	1.0	2.0	7.0	10.0	20.5	16.5	22.5	22.0	18.5
13	16.5	6.5	6.0	1.0	1.0	5.5	12.0	21.0	15.0	24.0	22.5	16.5
14	16.5	6.0	6.5	1.0	1.0	6.0	14.5	21.0	16.0	24.0	23.0	16.0
15	17.0	6.5	7.0	1.0	1.0	6.5	15.5	21.0	16.5	23.5	23.0	16.0
16	17.5	6.0	7.5	1.5	1.0	6.5	15.5	20.0	17.0	23.0	22.0	16.0
17	17.5	5.5	8.5	1.5	1.0	6.5	14.0	18.0	17.5	22.5	22.0	16.5
18	17.0	17.0	8.5	1.5	1.5	5.5	13.0	15.0	18.5	22.5	22.0	17.5
19	16.5	5.5	7.0	1.0	1.5	5.0	15.0	14.5	18.5	23.0	23.0	18.5
20	16.5	5.5	6.0	.5	1.0	7.0	17.0	16.5	18.0	23.0	22.0	19.0
21	16.0	5.0	5.0	.5	2.0	7.5	18.5	18.5	18.5	23.0	20.5	19.0
22	15.5	5.0	6.0	1.0	2.0	7.5	19.0	18.0	19.5	23.0	19.5	19.0
23	15.0	4.5	4.5	1.5	1.5	8.0	19.5	18.0	20.0	21.5	19.5	19.0
24	14.0	5.0	3.5	1.5	2.5	9.0	19.5	18.5	21.0	21.0	19.0	19.0
25	13.5	5.0	3.0	1.5	3.5	9.0	19.0	18.5	21.5	22.5	19.0	17.5
26	14.5	5.5	2.0	1.0	3.0	9.0	19.0	19.5	21.0	21.5	20.5	16.5
27	15.5	6.5	2.5	1.0	3.5	10.0	19.0	20.5	20.5	21.0	20.5	16.0
28	16.5	8.5	5.5	1.5	4.0	11.5	18.0	18.0	21.0	21.5	21.0	15.5
29	16.5	7.5	9.0	1.5	---	12.5	17.0	17.5	21.0	22.0	21.0	15.5
30	15.0	6.5	9.5	1.5	---	11.0	17.0	18.5	21.0	22.5	20.5	16.0
31	14.5	---	6.5	2.0	---	8.5	---	---	---	23.0	20.0	---
MEAN	15.5	8.0	5.0	2.0	1.5	7.0	13.5	18.0	19.0	22.5	21.5	19.0

WTR YR 1985 MEAN 12.5 MAX 24.0 MIN .5  
 OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	6.2	9.8	10.1	10.6	11.3	8.1	5.8	---	8.3	7.7	5.7
2	7.2	6.3	10.3	9.6	10.6	9.7	7.9	5.5	---	7.2	7.3	5.9
3	7.0	6.7	10.2	10.7	10.8	9.2	10.0	6.0	---	5.7	8.4	5.6
4	6.8	7.0	10.3	11.1	10.9	10.8	9.7	6.1	---	5.1	9.7	5.4
5	6.6	7.3	10.9	11.0	10.7	10.7	9.3	6.2	---	5.9	8.7	5.1
6	6.4	8.6	11.0	11.0	10.2	11.7	8.7	5.5	7.2	5.9	7.4	4.5
7	6.1	9.6	11.1	11.0	10.0	11.6	9.8	5.4	6.6	5.7	6.8	4.2
8	5.6	9.9	11.3	11.1	10.1	10.6	10.3	5.6	6.9	6.1	6.3	3.6
9	5.4	9.4	11.2	11.6	10.2	10.5	10.5	5.1	6.1	5.5	6.6	3.7
10	6.4	8.6	10.5	11.5	9.8	10.5	10.6	6.4	6.5	4.7	7.4	3.7
11	5.5	8.7	10.5	11.5	9.9	10.3	10.0	5.8	6.5	4.4	10.0	3.7
12	5.3	9.8	10.5	11.4	10.0	10.1	9.6	5.3	6.7	5.2	10.1	4.3
13	5.6	10.5	10.0	11.3	10.6	10.9	9.2	5.5	6.8	6.4	9.3	5.0
14	5.8	10.6	9.9	11.1	11.2	10.9	8.7	4.9	7.1	5.9	8.1	5.9
15	5.0	9.9	9.8	11.1	11.3	10.6	8.8	3.6	7.1	5.4	6.3	6.1
16	4.8	9.7	9.8	11.0	11.2	10.6	9.0	3.2	7.2	5.4	3.6	6.0
17	5.0	10.0	9.5	10.6	11.1	10.5	9.3	3.2	6.9	5.9	4.4	5.8
18	5.7	10.1	9.2	10.5	11.2	11.1	9.3	3.5	6.8	6.6	5.0	6.0
19	5.9	9.8	9.2	10.6	11.4	11.0	8.9	3.8	6.7	7.2	5.0	5.9
20	5.6	10.1	10.0	10.7	11.4	10.7	8.9	3.4	6.8	6.8	5.2	6.2
21	5.8	10.5	10.0	10.5	11.6	10.3	8.7	2.7	6.8	6.9	5.4	5.9
22	5.6	10.4	9.6	9.7	11.5	10.1	8.2	2.8	6.7	7.7	5.8	5.8
23	5.9	10.5	10.5	9.4	11.6	9.3	8.1	5.7	6.9	8.6	6.1	6.3
24	6.1	10.2	10.9	9.2	11.1	9.6	7.4	5.6	7.2	9.4	5.7	5.4
25	6.2	10.3	11.1	10.3	10.5	9.8	6.4	5.5	7.6	9.4	5.3	6.3
26	5.9	10.1	11.3	10.3	9.8	10.3	7.0	5.5	8.1	6.9	5.5	4.9
27	5.4	9.8	11.2	10.2	9.5	9.7	7.1	5.7	8.8	7.8	5.6	4.9
28	5.3	8.7	10.7	10.3	11.1	8.0	7.4	6.0	8.1	7.8	6.0	6.4
29	4.3	8.6	9.4	10.6	---	7.6	7.3	5.8	8.2	9.5	5.7	6.0
30	5.4	9.0	8.7	10.8	---	8.3	6.9	5.7	8.3	9.7	4.6	6.1
31	6.0	---	9.9	10.7	---	9.3	---	---	---	8.9	4.7	---
MEAN	5.8	9.2	10.3	10.7	10.7	10.2	8.7	5.0	7.1	6.8	6.6	5.3
WTR YR 1985	MEAN	8.1	MAX	11.7	MIN	2.7						

## MUSKINGUM RIVER BASIN

03117500 SANDY CREEK AT WAYNESBURG, OH

LOCATION.--Lat 40°40'21", long 81°15'36", in sec. 21, T.17 N., R.7 W., Stark County, Hydrologic Unit 05040001, on upstream side of left pier of bridge on State Highway 183 in Waynesburg, 300 ft downstream from Little Sandy Creek, and 0.6 mi upstream from Indian Run.

DRAINAGE AREA.--253 mi<sup>2</sup>.

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

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

GAGE.--Water-stage recorder. Datum of gage is 955.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-10 and Jan. 11 to Feb. 21. Records good except for periods of estimated record, which are fair. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--47 years, 271 ft<sup>3</sup>/s, 14.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 10.05 ft, from rating curve extended above 8,000 ft<sup>3</sup>/s on basis of contracted-opening and flow-over-road measurement of peak flow; minimum, 6.9 ft<sup>3</sup>/s Sept. 12, 13, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	1930	*3,920	*7.34	May 28	2330	2,450	5.65
Mar. 29	2000	2,750	6.07				

minimum discharge, 36 ft<sup>3</sup>/s Sept. 22, 23, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	109	112	149	663	95	569	1500	141	1140	119	82	112	
2	139	151	139	570	95	505	1090	212	745	133	78	84	
3	98	152	141	428	95	435	903	314	409	160	69	73	
4	78	149	144	353	90	414	785	214	326	132	63	67	
5	70	383	126	326	90	583	600	171	301	121	62	64	
6	63	305	120	288	90	476	538	160	279	125	63	63	
7	60	219	120	268	90	388	493	168	243	122	62	61	
8	67	181	110	252	90	504	479	158	217	128	63	56	
9	70	175	110	207	90	486	460	138	206	125	61	51	
10	65	645	110	186	90	405	465	128	197	239	56	49	
11	59	901	345	170	90	386	455	123	182	204	53	47	
12	59	699	491	160	110	1180	419	117	1090	145	51	46	
13	58	479	571	150	150	1130	378	115	857	115	50	45	
14	56	356	600	140	180	844	356	110	679	104	49	43	
15	55	297	613	130	170	637	335	111	546	113	52	43	
16	57	281	498	120	160	504	316	117	546	119	212	50	
17	63	231	415	120	150	442	281	120	427	118	181	50	
18	85	196	348	110	140	383	259	122	365	95	105	45	
19	81	188	324	110	130	342	239	122	315	87	84	42	
20	72	182	369	110	120	330	221	111	262	82	73	41	
21	67	166	309	110	120	294	208	102	219	85	65	39	
22	77	155	527	100	534	268	195	97	211	216	62	38	
23	122	147	532	100	1700	264	188	93	419	184	58	37	
24	113	142	441	100	3710	276	182	90	260	118	58	43	
25	98	136	362	100	3390	271	221	86	202	97	65	41	
26	91	132	279	100	1860	230	205	82	173	100	66	38	
27	88	130	254	95	1110	219	173	103	155	119	61	42	
28	86	142	263	95	737	224	163	1620	142	108	55	43	
29	154	182	273	95	---	1520	152	1790	134	87	53	38	
30	161	159	753	95	---	1420	143	845	126	80	114	37	
31	124	---	728	95	---	1230	---	758	---	77	176	---	
TOTAL	2645	7773	10564	5946	15476	17159	12402	8638	11373	3857	2402	1528	
MEAN	85.3	259	341	192	553	554	413	279	379	124	77.5	50.9	
MAX	161	901	753	663	3710	1520	1500	1790	1140	239	212	112	
MIN	55	112	110	95	90	219	143	82	126	77	49	37	
CFSM	.34	1.02	1.35	.76	2.19	2.19	1.63	1.10	1.50	.49	.31	.20	
IN.	.39	1.14	1.55	.87	2.28	2.52	1.82	1.27	1.67	.57	.35	.22	
CAL YR 1984	TOTAL	104866		MEAN	287	MAX	1770	MIN	48	CFSM	1.13	IN.	15.41
WTR YR 1985	TOTAL	99763		MEAN	273	MAX	3710	MIN	37	CFSM	1.08	IN.	14.67



## MUSKINGUM RIVER BASIN

67

03118000 MIDDLE BRANCH NIMISHILLEN CREEK AT CANTON, OH

LOCATION.--Lat 40°50'29", long 81°21'14" in NE 1/4 sec. 27, T.11 N., R.8 W., Stark County, Hydrologic Unit 05040001, on right bank at downstream side of bridge on Martindale Road, 2.4 mi upstream from mouth, and 0.5 mi northeast of Canton.

DRAINAGE AREA.--43.1 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1033: 1942(M), 1943(P), 1944(M). WSP 1305: 1946(M). WSP 1143: 1948. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,046.60 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-10 and Jan. 11 to Feb. 21. Records good. Part of municipal water supply for city of Canton is pumped from its northeast well field; a portion of pumpage is believed to be derived from creek as recharge to aquifer supplying well field about 1 mi downstream from gage. Mean pumpage for water year 1985, 11.3 ft<sup>3</sup>/s. At times low flow regulated by small pools above station. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--44 years, 36.3 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,470 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 6.50 ft, from rating curve extended above 1,600 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; minimum daily, 0.2 ft<sup>3</sup>/s Nov. 9, 1944, Sept. 19, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0200	755	5.78	Mar. 31	1900	431	4.75
Mar. 29	1200	*860	*6.00	May 28	1600	600	5.39

Minimum daily discharge, 4.4 ft<sup>3</sup>/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	20	22	65	16	67	304	33	128	21	14	24
2	23	30	21	54	16	60	154	43	78	25	12	15
3	18	35	22	42	16	52	136	43	50	25	12	12
4	16	31	24	36	16	50	135	37	40	23	11	10
5	14	66	23	33	15	91	98	33	40	23	11	9.3
6	12	52	20	29	15	73	86	31	36	27	11	8.6
7	13	33	19	28	15	53	77	28	31	24	13	8.3
8	13	24	18	27	15	70	71	27	28	22	13	7.7
9	16	23	17	25	15	71	74	25	28	21	11	7.4
10	15	97	17	24	15	53	84	24	25	28	11	6.9
11	13	114	56	23	15	46	86	24	31	23	11	6.5
12	13	87	82	22	20	185	72	24	123	20	15	5.9
13	13	54	91	22	26	146	61	23	84	18	12	5.7
14	12	41	87	21	26	90	55	21	59	18	11	5.5
15	12	35	92	21	25	67	51	21	43	35	13	5.6
16	13	34	61	20	23	53	46	22	44	39	28	5.5
17	14	30	45	20	22	47	42	24	42	29	22	5.4
18	14	27	38	19	21	41	41	24	47	21	16	5.0
19	13	25	35	19	20	38	40	23	42	18	15	5.0
20	14	23	34	18	20	38	39	22	34	17	12	4.8
21	15	22	32	18	19	35	37	24	29	17	11	4.7
22	17	21	53	18	63	34	35	23	30	20	9.8	4.8
23	18	20	49	18	457	33	35	22	40	16	9.4	4.6
24	18	20	37	17	594	35	35	21	32	14	9.8	5.8
25	17	20	32	17	333	35	39	20	25	13	11	5.2
26	17	19	26	17	165	31	38	19	23	13	10	5.0
27	17	19	25	17	112	31	35	35	22	13	10	5.0
28	19	21	25	17	83	35	33	461	20	12	9.2	4.9
29	39	23	30	17	---	603	31	265	20	12	8.7	4.6
30	40	22	106	17	---	279	31	102	21	12	18	4.4
31	26	---	94	17	---	317	---	105	---	14	34	---
TOTAL	537	1088	1333	758	2198	2859	2101	1649	1295	633	414.9	213.1
MEAN	17.3	36.3	43.0	24.5	78.5	92.2	70.0	53.2	43.2	20.4	13.4	7.10
MAX	40	114	106	65	594	603	304	461	128	39	34	24
MIN	12	19	17	17	15	31	31	19	20	12	8.7	4.4
CAL YR 1984	TOTAL	17353.90		MEAN	47.4	MAX	315	MIN	7.7			
WTR YR 1985	TOTAL	15079.00		MEAN	41.3	MAX	603	MIN	4.4			

## MUSKINGUM RIVER BASIN

03118500 NIMISHILLEN CREEK AT NORTH INDUSTRY, OH

LOCATION.--Lat 40°44'03", long 81°21'08", in sec. 35, T.10 N., R.8 W., Stark County, Hydrologic Unit 05040001, on left bank just downstream from railroad bridge, 1 mi southeast of North Industry, and 3 mi downstream from Sherrick Run.

DRAINAGE AREA.--175 mi<sup>2</sup>.

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

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

GAGE.--Water-stage recorder. Datum of gage is 970.77 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 13, 1923, nonrecording gage at site 1 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 6-10, Jan. 11 to Feb. 21. Records good except for periods of estimated record, which are fair. Low flow slightly regulated by plants at Canton. Records include diversion from Sugar Creek well field. Mean pumpage for the 1985 water year, 15.7 ft<sup>3</sup>/s. See REMARKS for station 03124500. Water-quality data collected at this site 1964 to 1969, 1975, 1977.

AVERAGE DISCHARGE.--64 years, 187 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,600 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 11.29 ft, from rating curve extended above 6,500 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum, 3.6 ft<sup>3</sup>/s Sept. 2, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s, and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0100	3,350	6.83	May 28	1030	3,670	7.18
Mar. 29	1230	*4,700	*8.21	June 12	0330	2,710	6.08
Mar. 31	1600	2,400	5.68	Aug. 16	0700	2,190	5.41

Minimum daily, 66 ft<sup>3</sup>/s Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	397	174	145	315	95	339	1210	183	479	204	102	98
2	179	273	134	259	90	312	532	300	239	284	100	83
3	139	189	174	217	90	278	524	325	202	158	106	82
4	123	313	142	199	90	309	444	255	182	112	110	83
5	116	403	133	188	90	475	333	221	229	123	116	83
6	109	315	130	167	90	309	321	209	186	149	122	85
7	106	241	120	174	90	262	263	205	176	108	157	85
8	131	207	120	165	90	351	253	197	166	134	98	82
9	119	259	110	148	90	298	271	191	156	109	88	82
10	117	656	110	142	90	247	279	192	146	339	83	84
11	111	583	372	130	90	245	285	188	289	132	80	83
12	110	378	391	130	110	1020	244	183	1590	117	85	83
13	106	274	458	120	140	529	219	180	543	111	90	80
14	102	224	461	120	140	372	207	180	330	109	100	78
15	106	217	387	120	130	303	204	196	250	178	108	75
16	119	201	286	110	130	259	196	190	308	146	608	75
17	114	174	244	110	120	237	179	198	262	146	121	77
18	107	160	217	110	120	219	176	194	292	118	88	78
19	126	157	225	110	110	209	174	185	268	101	93	78
20	105	149	206	110	110	208	168	177	240	98	82	77
21	102	145	210	100	110	194	166	213	224	108	79	77
22	156	137	330	100	771	189	163	188	283	111	78	75
23	128	133	230	100	2500	187	166	161	503	100	77	74
24	115	133	196	100	2490	213	163	148	383	94	90	118
25	109	129	171	100	1370	197	260	140	315	98	86	71
26	110	131	152	100	633	183	218	135	273	104	79	73
27	105	126	159	95	467	181	196	412	247	111	83	73
28	209	181	170	95	379	210	190	3130	235	110	77	67
29	387	154	265	95	---	3140	185	943	226	111	76	66
30	222	140	661	95	---	1040	181	340	213	115	471	68
31	174	---	379	95	---	1800	---	381	---	128	161	---
TOTAL	4459	6956	7488	4219	10825	14315	8370	10340	9435	4166	3894	2393
MEAN	144	232	242	136	387	462	279	334	315	134	126	79.8
MAX	397	656	661	315	2500	3140	1210	3130	1590	339	608	118
MIN	102	126	110	95	90	181	163	135	146	94	76	66

CAL YR 1984	TOTAL	93211	MEAN	255	MAX	1560	MIN	97
WTR YR 1985	TOTAL	86860	MEAN	238	MAX	3140	MIN	66

## MUSKINGUM RIVER BASIN

69

03120500 MCGUIRE CREEK BELOW LEESVILLE DAM, NEAR LEESVILLE, OH

LOCATION.--Lat 40°28'13", long 81°11'48", in E. 1/2 sec. 36, T.13 N., R.6 W., Carroll County, Hydrologic Unit 05040001, on left bank at outlet of Leesville Dam, 1.3 mi upstream from mouth, and 1.4 mi northeast of Leesville.

DRAINAGE AREA.--48.3 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 915.00 ft above National Geodetic Vertical Datum of 1929. Prior to May 27, 1942, nonrecording gage at site 100 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Leesville Lake. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 54.0 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 740 ft<sup>3</sup>/s Mar. 4, 1940; maximum gage height, 7.88 ft Mar. 4, 1940 (backwater from Conotton Creek); no flow several days during 1939-41.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 211 ft<sup>3</sup>/s June 14, gage height, 4.18 ft; minimum daily, 0.94 ft<sup>3</sup>/s Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	11	88	102	10	171	118	22	67	8.6	5.3	1.6
2	6.9	19	88	102	11	204	124	53	57	10	4.7	1.6
3	6.6	17	88	163	11	201	119	74	52	14	4.0	1.6
4	6.5	21	87	155	16	203	144	73	47	15	3.6	1.6
5	6.2	41	87	85	23	207	163	68	39	13	3.2	1.6
6	6.0	38	87	85	23	206	163	64	33	23	2.8	1.7
7	5.9	33	87	85	23	204	160	63	26	25	2.5	1.6
8	6.0	26	87	85	18	122	189	56	22	20	2.5	1.6
9	6.2	26	87	85	15	1.7	208	49	23	16	2.3	1.6
10	6.1	49	87	53	15	1.7	209	42	21	31	2.1	1.6
11	5.9	67	87	2.5	16	1.6	205	37	23	35	1.8	2.0
12	5.7	70	85	2.5	30	1.7	172	36	84	26	1.6	2.1
13	5.6	65	85	2.4	40	1.7	128	39	156	20	3.2	1.8
14	5.4	58	119	48	51	1.7	117	34	147	16	1.8	1.6
15	5.3	80	158	48	50	1.7	105	32	67	14	1.7	1.6
16	5.6	83	156	7.4	37	1.7	69	32	66	9.9	2.2	1.6
17	5.9	68	170	38	37	1.7	56	32	61	8.7	2.2	1.6
18	6.6	65	141	35	37	1.7	53	32	54	7.9	2.1	1.6
19	6.5	78	82	7.8	37	1.4	50	30	48	6.9	2.0	1.6
20	6.4	89	82	7.8	35	1.3	47	25	42	6.5	1.8	1.6
21	6.3	88	59	7.8	31	1.6	43	22	36	6.7	2.6	1.6
22	7.9	88	19	23	19	2.5	39	19	34	7.9	2.2	1.6
23	12	88	19	31	2.1	4.0	37	17	35	7.9	.94	1.6
24	11	88	51	32	5.1	6.2	36	15	28	6.5	.99	1.6
25	9.6	88	67	27	4.9	7.3	38	11	22	6.1	1.2	1.6
26	9.0	88	123	19	3.2	7.6	35	9.9	18	6.4	1.3	1.6
27	8.7	88	125	19	3.2	12	31	19	13	6.9	1.6	1.6
28	8.3	88	38	19	39	20	27	67	11	6.3	1.6	1.6
29	14	88	1.6	19	---	80	23	83	9.5	5.9	1.6	1.6
30	13	88	1.6	19	---	101	21	78	9.0	5.6	1.6	1.6
31	11	---	61	15	---	104	---	75	---	5.4	1.6	---
TOTAL	232.1	1884	2603.2	1430.2	642.5	1883.8	2929	1308.9	1350.5	398.1	70.63	49.2
MEAN	7.49	62.8	84.0	46.1	22.9	60.8	97.6	42.2	45.0	12.8	2.28	1.64
MAX	14	89	170	163	51	207	209	83	156	35	5.3	2.1
MIN	5.3	11	1.6	2.4	2.1	1.3	21	9.9	9.0	5.4	.94	1.6
CAL YR 1984	TOTAL	20070.90	MEAN	54.8	MAX	253	MIN	1.6				
WTR YR 1985	TOTAL	14782.13	MEAN	40.5	MAX	209	MIN	.94				

## MUSKINGUM RIVER BASIN

03122500 TUSCARAWAS RIVER BELOW DOVER DAM, NEAR DOVER, OH

LOCATION.--Lat 40°31'47", long 81°25'48", in T.9 N., R.2 W., Tuscarawas County, Hydrologic Unit 05040001, on left bank at downstream side of bridge on State Highway 416, 2.2 mi downstream from Dover Dam, 1.5 mi east of Dover, and 3.4 mi upstream from Sugar Creek.

DRAINAGE AREA.--1,405 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 803: 1933(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 861.51 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 30, 1930, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 7-10 and Jan. 13 to Feb. 21. 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 1985 water year, 15.7 ft<sup>3</sup>/s (see REMARKS for station 03124500). Flow regulated by four flood-control reservoirs since 1936 at points 2.2 mi to 25 mi upstream. Water quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--62 years, 1,434 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft<sup>3</sup>/s Jan. 26, 1937, gage height, 15.51 ft; minimum daily, 6.5 ft<sup>3</sup>/s Oct. 26, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,930 ft<sup>3</sup>/s Mar. 30, gage height, 7.39 ft; minimum daily, 284 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	663	917	949	3060	720	5440	5090	773	3210	538	516	825
2	900	1050	885	2890	720	5270	5440	1060	2790	581	509	553
3	677	1210	871	2700	720	4920	5390	1740	2650	930	441	445
4	532	1020	909	2380	720	4820	5180	1440	2580	858	401	403
5	466	1910	825	1880	720	5040	5160	1130	2120	680	387	377
6	434	2230	796	1600	720	4710	4910	1010	1950	772	398	355
7	412	1590	800	1500	720	3690	4580	1010	1290	819	405	340
8	436	1270	780	1590	720	2930	4250	959	969	769	496	329
9	463	1120	760	1350	720	2570	3630	871	983	692	470	314
10	451	1970	760	1130	720	2290	3280	803	946	889	426	331
11	436	3020	1560	1060	720	1970	3080	757	884	1300	390	332
12	421	2900	2320	999	860	3010	2930	715	3160	906	376	318
13	415	2450	2540	960	1100	3870	2510	694	4220	689	393	310
14	402	1950	2620	930	1300	3160	2140	691	4020	590	388	301
15	394	1660	2890	900	1600	2860	1970	736	3440	668	430	290
16	445	1610	2550	880	1600	2530	1860	743	2390	724	1090	286
17	531	1440	2140	860	1600	2070	1650	860	1990	650	1560	305
18	667	1280	1800	840	1400	1740	1510	925	1580	570	772	304
19	673	1170	1630	820	1200	1590	1400	830	1510	511	543	298
20	690	996	1610	800	950	1520	1310	725	1270	483	473	292
21	610	948	1520	790	900	1420	1190	684	1070	828	406	290
22	659	914	1870	770	1660	1290	1110	799	948	570	371	289
23	992	856	2330	760	4550	1230	1070	710	1350	668	357	284
24	856	818	1880	750	4950	1250	1030	633	1170	565	348	353
25	741	790	1730	750	4740	1290	1120	594	897	490	383	361
26	701	768	1490	740	5260	1190	1090	559	792	491	411	336
27	698	759	1480	730	5450	1110	967	594	709	558	418	338
28	668	784	1430	720	5400	1090	887	2620	646	557	397	350
29	1120	995	1260	720	---	3020	835	4660	612	465	364	324
30	1540	1070	2520	720	---	4790	796	4650	572	439	552	301
31	1100	---	3810	720	---	3960	---	3250	---	434	996	---
TOTAL	20193	41465	51315	37299	52440	87640	77365	38225	52718	20684	15867	10534
MEAN	651	1382	1655	1203	1873	2827	2579	1233	1757	667	512	351
MAX	1540	3020	3810	3060	5450	5440	5440	4660	4220	1300	1560	825
MIN	394	759	760	720	720	1090	796	559	572	434	348	284
CAL YR 1984	TOTAL	579393		MEAN	1583	MAX	5260	MIN	340			
WTR YR 1985	TOTAL	505745		MEAN	1386	MAX	5450	MIN	284			



## MUSKINGUM RIVER BASIN

71

03124000 SUGAR CREEK BELOW BEACH CITY DAM, NEAR BEACH CITY, OH

LOCATION.--Lat 40°38'08", long 81°33'11", in T10 N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, on right bank 1,000 ft downstream from Beach City Dam, 0.4 mi downstream from South Fork, and 1.8 mi southeast of Beach City.

DRAINAGE AREA.--300 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 953: 1941.

GAGE.--Water-stage recorder. Datum of gage is 928.00 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Dec. 7-10, Jan. 11-17, Jan. 19-21, Jan. 23 to Feb. 21. Records good except periods of estimated record which are fair. Flood flow regulated by Beach City Lake. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 277 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,520 ft<sup>3</sup>/s July 6, 1969, gage height, 11.26 ft, from floodmark in well; no flow Oct. 7-30, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,090 ft<sup>3</sup>/s Mar. 3, gage height, 6.57 ft; minimum daily, 6.9 ft<sup>3</sup>/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	113	147	649	80	1960	1690	96	261	59	29	96
2	206	158	133	581	75	1940	1530	176	163	58	30	54
3	130	219	129	454	75	1510	873	340	164	76	27	39
4	88	156	142	364	75	511	656	213	228	76	24	32
5	71	497	127	323	75	530	524	148	146	65	22	28
6	59	487	109	276	75	479	496	127	125	78	22	24
7	54	300	100	249	75	361	492	129	107	94	26	23
8	58	209	100	237	75	418	428	117	94	73	49	23
9	68	175	100	180	75	465	393	102	93	56	45	22
10	64	454	95	147	75	378	387	92	92	71	32	20
11	56	864	456	140	75	334	381	87	92	109	24	19
12	53	656	678	140	90	617	381	83	683	70	20	19
13	51	428	681	130	170	980	327	79	1180	52	18	15
14	50	325	717	130	280	621	296	74	705	46	16	15
15	50	266	771	120	240	461	270	104	365	52	20	15
16	50	252	575	120	200	374	247	125	306	59	85	12
17	50	216	431	120	170	331	218	188	258	48	178	6.9
18	54	184	351	133	160	288	197	214	213	39	82	18
19	57	168	300	120	150	254	181	169	195	34	62	20
20	52	153	313	110	140	240	166	133	162	35	66	9.8
21	52	137	275	95	130	224	155	107	141	99	45	7.8
22	55	127	405	87	411	198	144	111	122	124	33	7.4
23	99	120	455	85	1080	199	138	98	169	77	28	7.7
24	96	117	338	85	1420	203	132	86	154	48	26	9.2
25	74	113	285	80	1550	200	153	76	114	37	34	12
26	64	107	214	80	1720	169	141	68	94	38	44	16
27	62	104	204	80	1760	156	119	67	82	83	34	15
28	62	110	207	80	1820	162	111	357	73	58	28	18
29	161	187	214	80	---	556	104	689	69	38	24	16
30	275	168	498	80	---	1200	97	546	64	31	37	12
31	156	---	868	80	---	1040	---	353	---	30	124	---
TOTAL	2569	7570	10418	5635	12321	17359	11427	5354	6714	1913	1334	631.8
MEAN	82.9	252	336	182	440	560	381	173	224	61.7	43.0	21.1
MAX	275	864	868	649	1820	1960	1690	689	1180	124	178	96
MIN	50	104	95	80	75	156	97	67	64	30	16	6.9
CAL YR 1984	TOTAL	120528.0	MEAN	329	MAX	1720	MIN	42.0				
WTR YR 1985	TOTAL	83245.8	MEAN	228	MAX	1960	MIN	6.9				

## MUSKINGUM RIVER BASIN

03124500 SUGAR CREEK AT STRASBURG, OH

LOCATION.--Lat 40°35'15", long 81°31'24", in NW 1/4 sec. 1, T.9 N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, on left bank 150 ft upstream from bridge on State Highway 21, 0.8 mi upstream from Broad Run, and 0.1 mi southeast of Strasburg.

DRAINAGE AREA.--311 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1305: 1932-33(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 896.24 ft above National Geodetic Vertical Datum of 1929.

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.

REMARKS.--Estimated daily discharges: Dec. 6 to Feb. 12 and Feb. 15-21. Records good except for periods of estimated record, which are fair. Flood flow regulated by Beach City Lake 5.0 mi upstream, since August 1937. Part of municipal water supply for city of Canton, starting May 1962, is pumped from well field 4.3 mi upstream; pumpage is returned to Nimishillen Creek. Mean pumpage for water year 1985, 15.7 ft<sup>3</sup>/s. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--28 years (1931-32, 1935-38, 1961-85), 313 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft<sup>3</sup>/s Aug. 7, 1935, gage height, 14.70 ft (present datum), from rating curve extended above 8,400 ft<sup>3</sup>/s; no flow all or part of each day Sept. 29 to Nov. 6, 1963, Sept. 20, Dec. 3, 4, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,150 ft<sup>3</sup>/s Feb. 28, gage height, 5.63 ft; minimum daily, 6.2 ft<sup>3</sup>/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	112	163	680	80	2080	1830	110	348	66	34	109
2	218	139	144	600	80	2040	1690	183	223	63	34	61
3	137	230	142	470	80	1670	927	375	203	77	32	44
4	87	161	153	380	80	595	693	248	295	83	29	37
5	70	480	137	340	75	565	572	180	195	74	26	33
6	58	533	120	290	75	548	531	151	162	79	26	26
7	53	326	110	260	75	425	524	147	136	102	29	24
8	54	224	110	250	75	459	469	139	119	83	46	24
9	62	186	100	190	75	526	437	121	116	64	50	23
10	62	438	100	150	75	442	428	108	111	68	37	21
11	56	890	470	150	75	395	420	101	114	119	29	20
12	55	706	700	150	90	627	418	97	704	79	25	21
13	53	476	700	140	186	1020	370	94	1350	59	23	18
14	52	350	760	140	315	678	333	90	821	51	21	17
15	52	286	800	130	250	518	299	118	436	53	23	17
16	52	269	600	130	200	427	272	151	353	62	68	16
17	51	234	450	130	180	380	247	208	303	52	199	6.2
18	53	204	380	130	170	335	224	260	247	44	94	9.7
19	57	187	330	120	160	303	210	212	228	39	64	30
20	52	168	350	100	150	283	192	171	188	40	71	19
21	52	150	300	95	140	268	178	133	163	95	51	15
22	51	138	470	90	390	241	167	134	139	132	39	14
23	91	131	470	90	1110	237	158	125	185	86	34	14
24	100	127	350	85	1450	241	151	112	180	52	31	16
25	76	121	300	85	1560	240	165	101	130	41	36	15
26	63	115	220	85	1750	209	158	93	104	41	47	20
27	58	113	210	80	1820	191	131	96	91	80	40	21
28	59	126	220	80	1880	195	126	407	80	65	34	21
29	139	211	220	80	---	587	119	790	74	44	30	22
30	295	183	520	80	---	1270	111	676	70	36	38	19
31	165	---	900	80	---	1120	---	443	---	34	127	---
TOTAL	2569	8014	10999	5860	12646	19115	12550	6374	7868	2063	1467	752.9
MEAN	82.9	267	355	189	452	617	418	206	262	66.5	47.3	25.1
MAX	295	890	900	680	1880	2080	1830	790	1350	132	199	109
MIN	51	112	100	80	75	191	111	90	70	34	21	6.2

CAL YR 1984 TOTAL 134323.0 MEAN 367 MAX 1950 MIN 42.0  
WTR YR 1985 TOTAL 90277.9 MEAN 247 MAX 2080 MIN 6.2

## MUSKINGUM RIVER BASIN

03126000 STILLWATER CREEK AT PIEDMONT, OH

LOCATION.--Lat 40°11'41", long 81°12'56", in sec. 35, T.10 N., R.6 W., Harrison County, Hydrologic Unit 05040001, on left bank 400 ft downstream from outlet of Piedmont Dam and Boggs Fork, and 0.7 mi northwest of Piedmont.

DRAINAGE AREA.--122 mi<sup>2</sup>.

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

REVISED RECORDS.--WRD-OH-81-1: 1980 (M) (m).

GAGE.--Water-stage recorder. Datum of gage is 872.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 9, 1949, at site 1,000 ft downstream at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 10 and Feb. 14-20. Records fair. Flow regulated by Piedmont Lake. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 138 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,470 ft<sup>3</sup>/s Dec. 4, 1950; maximum gage height, 11.44 ft Mar. 5, 1963; minimum daily discharge, 0.2 ft<sup>3</sup>/s Sept. 3, 4, 10, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 593 ft<sup>3</sup>/s Feb. 23, gage height, 6.37 ft; minimum daily, 2.6 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	59	261	180	30	60	322	78	102	45	15	17
2	23	71	257	248	22	57	334	165	91	42	14	16
3	18	67	255	265	20	53	470	256	108	39	13	16
4	15	71	254	220	20	56	474	187	119	36	12	15
5	14	114	250	154	19	87	463	150	115	34	11	14
6	13	91	250	150	18	100	451	223	111	49	11	16
7	13	82	205	148	18	99	371	218	102	48	12	14
8	19	72	146	114	17	126	336	139	96	40	15	13
9	32	70	146	80	17	129	245	102	104	35	12	12
10	24	169	176	70	17	122	204	97	91	35	11	11
11	21	259	270	65	21	124	199	92	84	33	10	10
12	20	265	288	60	30	216	192	90	156	29	9.7	9.3
13	19	357	277	60	47	292	185	84	140	26	10	9.0
14	18	451	218	55	42	296	181	76	114	24	10	8.0
15	18	443	179	55	38	249	136	90	104	36	33	7.0
16	18	418	165	55	36	200	116	105	98	33	43	6.3
17	20	387	157	55	34	191	113	97	89	28	41	5.8
18	40	376	153	55	34	160	111	102	85	24	29	4.8
19	31	378	160	55	34	115	109	94	75	21	25	4.4
20	25	371	170	55	34	123	106	82	68	18	20	3.5
21	26	338	165	55	49	121	104	69	58	17	19	3.2
22	53	321	192	55	174	117	102	65	61	24	19	3.1
23	101	319	171	55	395	122	101	60	108	24	18	2.6
24	77	317	162	55	471	123	99	58	98	20	19	6.6
25	67	280	158	55	240	119	101	55	90	18	27	8.6
26	60	258	126	55	127	114	96	52	81	17	25	6.1
27	51	257	98	55	87	112	90	61	75	19	22	6.7
28	47	262	100	55	67	114	87	67	66	19	19	6.1
29	79	268	98	55	---	125	82	62	56	16	18	4.9
30	78	262	159	55	---	199	79	57	49	15	18	4.5
31	64	---	183	55	---	351	---	90	---	14	18	---
TOTAL	1126	7453	5849	2804	2158	4472	6059	3223	2794	878	578.7	264.5
MEAN	36.3	248	189	90.5	77.1	144	202	104	93.1	28.3	18.7	8.82
MAX	101	451	288	265	471	351	474	256	156	49	43	17
MIN	13	59	98	55	17	53	79	52	49	14	9.7	2.6
CAL YR 1985	TOTAL	47875.3	MEAN	131	MAX	468	MIN	8.6				
WTR YR 1985	TOTAL	37659.2	MEAN	103	MAX	474	MIN	2.6				

## MUSKINGUM RIVER BASIN

## 03127000 STILLWATER CREEK AT TIPPECANOE, OH

LOCATION.--Lat 40°16'13", long 81°17'26", in NW 1/4 sec. 22, T.12 N., R.7 W., Harrison County, Hydrologic Unit 05040001, on left bank at downstream side of highway bridge at Tippecanoe, 0.4 mi downstream from Brushy Fork, 3.6 mi upstream from Weaver Run, 6 mi upstream from Laurel Creek, and 9 mi south of Dennison.

DRAINAGE AREA.--282 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 849.00 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 9, 1939, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 11 and Feb. 15-21. Records fair. Flow regulated by Clendening Lake on Brushy Fork, 1.9 mi upstream, and Piedmont Lake, 16 mi upstream. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 321 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft<sup>3</sup>/s Mar. 7, 1945, Mar. 5, 1963; maximum gage height, 17.29 ft Mar. 5, 1963; minimum daily discharge, 1.1 ft<sup>3</sup>/s Oct. 4, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,960 ft<sup>3</sup>/s Feb. 24, gage height, 14.07 ft; minimum daily, 9.6 ft<sup>3</sup>/s Sept. 17-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	115	502	585	85	195	1220	126	308	58	20	14
2	33	122	492	577	55	169	1000	256	285	55	20	13
3	28	143	486	585	50	156	1030	748	255	52	18	13
4	21	127	481	464	46	146	1090	546	285	48	16	13
5	17	232	470	321	40	223	893	357	209	48	16	12
6	15	231	467	287	38	270	770	337	181	77	19	12
7	14	180	454	275	38	248	717	379	150	78	21	12
8	15	144	353	244	36	306	682	289	135	63	28	12
9	38	130	338	146	36	364	601	209	136	53	30	12
10	47	380	374	130	36	331	467	189	130	53	25	11
11	36	711	722	110	36	314	437	175	118	53	21	11
12	31	704	826	100	59	599	418	161	221	44	20	11
13	28	640	734	95	110	812	390	149	267	36	22	11
14	26	656	660	95	160	821	375	138	216	33	14	10
15	26	768	523	95	140	671	344	167	175	67	19	10
16	23	738	451	90	130	496	286	224	159	76	43	9.8
17	24	678	398	90	120	410	271	208	141	52	59	9.6
18	36	650	341	90	110	351	256	230	132	40	37	9.6
19	59	648	279	90	110	271	243	208	118	33	26	9.6
20	47	632	349	90	110	271	231	171	104	27	20	9.6
21	40	593	337	90	110	285	218	139	92	25	17	9.6
22	57	562	429	90	371	258	206	122	87	37	16	9.6
23	159	553	425	85	1290	262	199	109	164	48	15	9.7
24	159	545	384	85	1850	273	193	100	178	36	15	10
25	125	505	368	85	1750	270	207	93	141	29	23	10
26	109	471	308	85	898	244	194	87	109	27	31	12
27	94	467	220	85	369	232	172	84	92	35	24	12
28	80	487	201	85	240	232	157	112	82	31	18	12
29	112	511	187	85	---	270	142	106	70	25	16	12
30	168	499	341	85	---	416	129	95	63	23	14	12
31	136	---	560	85	---	1010	---	172	---	20	14	---
TOTAL	1818	13822	13460	5504	8423	11176	13538	6486	4803	1382	697	334.1
MEAN	58.6	461	434	178	301	361	451	209	160	44.6	22.5	11.1
MAX	168	768	826	585	1850	1010	1220	748	308	78	59	14
MIN	14	115	187	85	36	146	129	84	63	20	14	9.6
CAL YR 1984	TOTAL	113434.0		MEAN	310	MAX	1280	MIN	11			
WTR YR 1985	TOTAL	81443.1		MEAN	223	MAX	1850	MIN	9.6			



## MUSKINGUM RIVER BASIN

75

03127500 STILLWATER CREEK AT UHRICHSVILLE, OH

LOCATION.--Lat 40°23'10", long 81°20'50", Tuscarawas County, Hydrologic Unit 05040001, on left bank at concrete dam of Dennison Water Supply Co. at Uhrichsville, 2.2 mi upstream from Little Stillwater Creek.

DRAINAGE AREA.--367 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 853: Drainage area. WSP 1113: 1923-24, 1926-31, 1932(M), 1933-35.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 839.37 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1936, nonrecording gage at site 1.7 mi upstream at same datum. Auxiliary water-stage recorder below concrete dam at datum 10.00 ft lower.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 11, Feb. 15-21, Feb. 24-26 and Apr. 1-3. Records fair. Flow regulated by Piedmont Lake, 35 mi upstream, and Clendening Lake on Brushy Fork, 22 mi upstream, beginning in 1938. Water is diverted from Dennison water-supply dam 1.7 mi upstream from station for municipal supply of cities of Dennison and Uhrichsville; diversion not included in figures of daily discharge. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--63 years, 432 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,650 ft<sup>3</sup>/s 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, 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 17.5 ft at former site, and about 15.5 ft at present site.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,000 ft<sup>3</sup>/s Feb. 25, (backwater from Tuscarawas River), maximum gage height, 4.87 ft Feb. 25; minimum daily discharge, 9.0 ft<sup>3</sup>/s Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	126	527	727	90	381	1200	120	283	70	29	26
2	33	121	529	689	80	314	1300	153	372	64	27	25
3	39	141	519	682	70	271	1200	665	310	62	26	24
4	34	150	510	617	65	243	1170	834	397	60	24	20
5	28	233	500	487	60	260	1190	585	327	56	22	19
6	27	330	490	383	56	349	987	422	263	58	21	18
7	24	255	486	353	54	351	858	411	225	75	23	19
8	26	188	445	341	52	355	837	408	190	84	32	19
9	33	145	378	264	50	476	798	339	171	68	39	18
10	57	243	401	190	50	479	673	262	170	79	36	19
11	54	627	749	150	50	432	572	231	159	65	30	15
12	46	763	913	120	74	512	547	214	204	59	27	12
13	41	711	880	110	111	925	497	204	333	51	26	12
14	38	648	852	100	188	948	462	187	323	44	30	12
15	34	650	742	100	220	901	437	212	262	41	27	12
16	35	737	605	100	200	737	385	274	224	60	31	12
17	42	727	522	100	180	575	329	297	203	79	54	12
18	44	673	464	100	170	483	300	310	178	58	62	12
19	57	645	382	100	170	412	276	314	165	47	46	12
20	67	642	391	98	160	338	258	268	142	40	36	13
21	65	628	427	96	160	335	242	220	128	35	31	15
22	67	590	540	96	326	334	231	182	114	32	27	15
23	112	564	598	95	1230	311	215	160	119	38	26	12
24	176	555	510	95	1800	317	205	142	220	50	27	15
25	142	548	475	95	2000	327	205	129	209	43	30	9.0
26	107	514	420	94	1700	317	213	118	164	44	39	12
27	92	484	335	92	1400	288	196	110	130	46	43	14
28	77	483	283	92	558	274	172	121	108	47	35	11
29	71	510	264	90	---	281	152	148	92	40	31	10
30	131	527	384	90	---	332	132	133	78	33	27	12
31	161	---	662	90	---	676	---	160	---	30	27	---
TOTAL	1980	14158	16183	6836	11324	13534	16239	8333	6263	1658	991	456.0
MEAN	63.9	472	522	221	404	437	541	269	209	53.5	32.0	15.2
MAX	176	763	913	727	2000	948	1300	834	397	84	62	26
MIN	20	121	264	90	50	243	132	110	78	30	21	9.0
(+)	1.93	1.87	2.04	2.09	2.15	2.01	2.07	2.02	2.11	2.14	2.19	2.19
CAL YR 1984	TOTAL	145806.0		MEAN	398	MAX	1800	MIN	16.0	(+)	1.95	
WTR YR 1985	TOTAL	97955.0		MEAN	268	MAX	2000	MIN	9.0	(+)	2.07	

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

## MUSKINGUM RIVER BASIN

03128500 LITTLE STILLWATER CREEK BELOW TAPPAN DAM, AT TAPPAN, OH

LOCATION.--Lat 40°21'25", long 81°13'49", in NW 1/4 sec. 4, T.13 N., R.7 W., Harrison County, Hydrologic Unit 05040001, on right bank 150 ft downstream from outlet of lake at Tappan Dam, 1 mi west of Tappan, and 2 mi upstream from Plum Run.

DRAINAGE AREA.--71.1 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 861.00 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Nov. 15 to June 21, July 3, July 16-22. Records poor. Flow completely regulated by Tappan Lake. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 77.2 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft<sup>3</sup>/s Mar. 13, 1939, gage height, 10.00 ft; no flow Sept. 12-15, 18, 19, 21-29, Oct. 13-21, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 300 ft<sup>3</sup>/s Nov. 16; minimum daily, 1.4 ft<sup>3</sup>/s Mar. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	7.4	145	130	3.0	4.6	190	50	48	21	5.1	5.2
2	6.8	7.5	145	130	2.5	5.0	210	50	44	20	4.7	5.3
3	6.7	6.4	145	180	2.6	5.0	200	150	40	7.9	4.0	7.8
4	6.0	5.9	145	100	2.8	5.5	180	150	48	13	4.0	6.0
5	5.6	5.7	145	3.0	2.8	5.5	160	160	48	13	3.7	5.9
6	5.4	6.6	145	3.0	2.8	5.5	160	140	48	13	3.6	5.3
7	5.4	10	145	90	2.8	6.0	170	100	42	12	4.0	5.1
8	5.6	11	145	70	2.8	6.0	170	80	40	12	4.6	5.2
9	5.6	11	145	3.0	2.8	6.0	150	75	36	13	5.0	5.2
10	5.6	13	145	3.0	2.8	6.0	150	75	44	14	5.3	5.0
11	5.5	19	160	3.0	2.8	2.6	160	70	36	13	5.3	5.1
12	5.4	22	160	3.0	3.0	1.4	160	70	30	13	5.3	5.3
13	5.4	22	160	3.0	3.0	3.8	150	65	60	13	4.9	5.7
14	5.3	21	200	3.0	3.0	10	170	60	65	13	4.8	5.7
15	5.3	150	220	4.2	3.0	26	170	60	60	13	4.8	5.6
16	5.2	300	220	10	3.0	46	95	60	60	13	4.9	5.7
17	5.3	300	240	13	3.0	55	75	60	60	12	5.1	6.0
18	5.4	300	240	16	3.0	60	75	60	55	12	5.1	6.1
19	5.4	100	240	16	3.2	60	70	60	48	14	4.8	6.1
20	5.3	95	240	16	3.2	60	70	60	44	14	5.0	6.3
21	5.4	120	140	18	3.2	75	70	60	40	14	5.2	6.5
22	5.7	200	55	18	3.4	75	70	60	37	14	5.2	6.5
23	6.0	190	55	18	3.6	75	65	55	37	14	5.2	6.5
24	6.1	190	90	8.0	3.8	80	60	55	35	7.7	5.1	6.2
25	6.2	190	120	4.0	3.8	80	60	48	32	4.5	5.1	6.2
26	6.8	190	120	4.0	4.0	80	60	40	29	4.7	5.1	6.3
27	7.0	190	120	4.0	4.2	80	60	36	26	4.9	5.1	6.3
28	7.3	190	45	4.0	4.4	80	55	36	25	4.8	5.1	6.3
29	8.0	145	3.0	4.0	---	80	50	42	23	4.8	5.1	6.2
30	8.4	145	3.0	4.0	---	110	50	36	21	4.8	5.2	6.6
31	8.0	---	75	4.0	---	150	---	40	---	4.9	5.2	---
TOTAL	187.6	3163.5	4356.0	889.2	88.3	1344.9	3535	2163	1261	352.0	150.6	177.2
MEAN	6.05	105	141	28.7	3.15	43.4	118	69.8	42.0	11.4	4.86	5.91
MAX	8.4	300	240	180	4.4	150	210	160	65	21	5.3	7.8
MIN	5.2	5.7	3.0	3.0	2.5	1.4	50	36	21	4.5	3.6	5.0
CAL YR 1984	TOTAL	25554.2		MEAN	69.8	MAX	532	MIN	.94			
WTR YR 1985	TOTAL	17668.3		MEAN	48.4	MAX	300	MIN	1.4			

## MUSKINGUM RIVER BASIN

77

03129000 TUSCARAWAS RIVER AT NEWCOMERSTOWN, OH

LOCATION.--Lat 40°15'41", long 81°36'33", in T.5 N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, on right bank 150 ft upstream from highway bridge, 0.2 mi south of Newcomerstown, 2 mi upstream from Buckhorn Creek, and 4 mi downstream from Dunlap Creek.

DRAINAGE AREA.--2,443 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 728: 1929(M). WSP 873: 1935. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 28, 1925, and July 18, 1935, to Feb. 13, 1939, nonrecording gage, Sept. 28, 1925, to July 17, 1935, water-stage recorder at site 1.5 mi upstream at datum 5.03 ft higher prior to Oct. 1, 1934, and 0.03 ft higher Oct. 1, 1934, to Feb. 13, 1939.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 21. Records good except for period of estimated record which is fair. Diversion from basin at Portage Lakes (see REMARKS for station 03117000). Flow regulated by eight flood-control reservoirs at points 40 mi to 64 mi upstream. Water-quality data collected at this site 1946 to 1949, 1955 to 1977.

AVERAGE DISCHARGE.--64 years, 2,545 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,800 ft<sup>3</sup>/s Jan. 26, 1937, gage height, 20.65 ft, site and datum then in use; minimum daily, 170 ft<sup>3</sup>/s Aug. 6, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--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 ft<sup>3</sup>/s computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,300 ft<sup>3</sup>/s Feb. 24, gage height, 8.56 ft; minimum daily, 351 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	1420	2020	5740	1200	8110	8860	1300	4000	898	584	1240
2	635	1460	1900	4950	1200	7980	9600	1610	3880	857	629	977
3	655	1680	1830	4780	1200	7660	9160	2940	3480	959	597	703
4	684	1630	1830	4280	1200	6640	8220	3360	3570	1250	546	600
5	719	2000	1810	3530	1200	6240	7910	2500	3170	1110	510	551
6	664	3500	1740	2780	1200	6360	7400	2040	2680	1030	501	521
7	611	2770	1670	2480	1200	5660	6840	1920	2320	1110	507	499
8	595	2050	1620	2550	1200	4840	6460	1900	1600	1130	521	486
9	635	1750	1650	2370	1200	4400	6070	1720	1430	1060	602	473
10	638	2660	1700	1900	1200	3900	5270	1540	1430	1090	580	450
11	638	4770	2640	1600	1200	3540	4960	1450	1340	1510	528	454
12	592	5150	4230	1500	1400	3920	4700	1390	3240	1580	490	443
13	565	4480	4840	1400	1700	6090	4370	1370	5640	1170	475	427
14	537	3610	5100	1300	2200	6180	3730	1350	5800	956	481	411
15	517	3040	5190	1300	2700	5000	3370	1490	5000	865	480	398
16	516	3040	1960	1300	2800	4590	3340	1570	3870	936	541	389
17	569	2990	4080	1200	2700	3830	2860	1640	3090	971	1850	382
18	725	2710	3480	1200	2500	3210	2570	1830	2570	883	1580	388
19	810	2520	3060	1200	2000	2780	2380	1770	2280	770	969	385
20	830	2220	2880	1200	1800	2570	2240	1530	2100	692	760	392
21	814	1960	2870	1200	1600	2450	2090	1330	1820	772	669	373
22	766	1910	3200	1200	3400	2280	1940	1270	1610	1140	588	359
23	1050	1900	3930	1200	7480	2150	1840	1290	1620	899	541	351
24	1290	1830	3560	1200	11000	2110	1760	1140	1990	864	527	360
25	1140	1780	3070	1200	10400	2150	1770	1040	1700	726	539	390
26	1010	1740	2740	1200	10100	2080	1860	953	1430	666	559	417
27	949	1670	2430	1200	9540	1910	1700	903	1260	759	572	402
28	915	1680	2390	1200	8340	1860	1540	1760	1130	764	557	399
29	963	1810	2150	1200	---	2970	1430	4860	1040	706	521	396
30	1940	2070	2720	1200	---	6510	1360	5670	967	615	496	375
31	1840	---	5510	1200	---	7080	---	4990	---	584	839	---
TOTAL	25425	73800	89800	61760	94860	137050	127600	61426	77057	29322	20139	14391
MEAN	820	2460	2897	1992	3388	4421	4253	1981	2569	946	650	480
MAX	1940	5150	5510	5740	11000	8110	9600	5670	5800	1580	1850	1240
MIN	516	1420	1620	1200	1200	1860	1360	903	967	584	475	351
CAL YR 1984	TOTAL	1032019		MEAN	2820	MAX	9910	MIN	516			
WTR YR 1985	TOTAL	812630		MEAN	2226	MAX	11000	MIN	351			

## MUSKINGUM RIVER BASIN

03130000 BLACK FORK BELOW CHARLES MILL DAM, NEAR MIFFLIN, OH

LOCATION.--Lat 40°44'16", long 82°21'48", in NE 1/4 sec. 35, T.23 N., R.17 W., Ashland County, Hydrologic Unit 05040002, on left bank 700 ft downstream from Charles Mill Dam, 2.5 mi south of Mifflin, and 4 mi upstream from Rocky Fork.

DRAINAGE AREA.--217 mi<sup>2</sup>.

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.

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 981.56 ft above National Geodetic Vertical Datum of 1929. Dec. 3, 1941, to Dec. 5, 1944, water-stage recorder at site 300 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Charles Mill Lake. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 201 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,800 ft<sup>3</sup>/s Mar. 13, 1964 from rating curve extended above 1,900 ft<sup>3</sup>/s; maximum gage height, 8.45 ft Mar. 14, 1939; minimum daily discharge, 0.5 ft<sup>3</sup>/s Nov. 18, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 11,700 ft<sup>3</sup>/s, computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft<sup>3</sup>/s Mar. 4, gage height, 5.76 ft; minimum daily, 6.7 ft<sup>3</sup>/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	120	137	543	106	1140	669	62	257	18	13	100
2	24	96	136	785	91	1160	1030	63	225	16	14	98
3	23	100	114	928	88	1140	1270	60	166	14	14	58
4	23	127	94	959	81	1200	1200	60	128	12	14	35
5	22	218	88	893	70	1280	1000	60	126	12	15	28
6	21	287	99	745	66	1250	824	82	97	22	16	21
7	23	315	114	595	61	1180	683	97	78	46	18	21
8	26	319	113	465	60	1190	600	95	76	39	53	19
9	27	291	111	357	60	1190	549	94	74	29	79	19
10	22	285	108	287	60	1140	488	81	72	29	52	20
11	23	294	119	247	61	1200	439	70	73	28	52	20
12	23	311	139	217	62	1230	394	69	130	25	39	19
13	25	316	147	196	64	1210	356	66	195	24	27	16
14	31	301	156	181	68	1120	320	66	215	25	25	13
15	35	271	163	177	69	833	290	68	213	26	32	12
16	36	241	168	178	69	604	266	70	207	25	130	12
17	36	208	172	180	70	464	237	80	169	27	190	11
18	34	185	173	175	68	360	190	81	137	25	177	11
19	31	168	177	170	65	295	137	82	132	21	90	9.9
20	30	155	177	167	66	259	135	82	145	21	35	8.8
21	32	149	178	164	68	226	134	86	154	21	15	8.6
22	34	147	181	161	130	163	132	83	154	21	11	9.7
23	32	146	185	158	143	136	119	106	154	20	12	11
24	30	145	199	153	76	131	109	153	117	19	12	10
25	26	143	204	147	426	126	90	151	73	18	12	10
26	27	141	199	141	831	120	67	111	64	17	13	8.7
27	27	138	190	137	870	112	62	94	43	16	41	8.0
28	35	139	185	131	906	116	62	130	27	15	84	8.2
29	98	137	188	126	---	223	62	190	23	14	103	7.5
30	157	137	247	122	---	394	61	252	19	13	104	6.7
31	148	---	360	118	---	556	---	277	---	13	102	---
TOTAL	1186	6030	5021	10003	4855	21748	11975	3121	3743	671	1594	640.1
MEAN	38.3	201	162	323	173	702	399	101	125	21.6	51.4	21.3
MAX	157	319	360	959	906	1280	1270	277	257	46	190	100
MIN	21	96	88	118	60	112	61	60	19	12	11	6.7
CAL YR 1984	TOTAL	87107.0		MEAN	238	MAX	1280	MIN	14.0			
WTR YR 1985	TOTAL	70587.1		MEAN	193	MAX	1280	MIN	6.7			



## MUSKINGUM RIVER BASIN

79

03131500 BLACK FORK AT LOUDONVILLE, OH

LOCATION.--Lat 40°38'09", long 82°14'22", in NW 1/4 sec. 1, T.19 N., R.16 W., Ashland County, Hydrologic Unit 05040002, on right bank at downstream side of bridge on State Highway 3 at Loudonville, 1.5 mi downstream from Big Run.

DRAINAGE AREA.--349 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 873: 1935. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 929.16 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 23, 1941, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 17 to Feb. 10. Records good. Flow regulated since 1936 by Charles Mill Lake, 16 mi upstream from station. 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 03133500). Water-quality data collected at this site 1958, 1968 to 1977.

AVERAGE DISCHARGE.--54 years, 352 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,460 ft<sup>3</sup>/s July 5, 1969, gage height, 14.11 ft, from rating curve extended above 4,000 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; minimum daily, 29 ft<sup>3</sup>/s Aug. 7, 8, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,560 ft<sup>3</sup>/s Feb. 24, gage height, 10.48 ft; minimum daily, 71 ft<sup>3</sup>/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	234	250	1010	170	1270	1640	169	396	96	107	187
2	111	347	241	1190	170	1370	1300	388	339	108	93	178
3	96	210	232	1170	160	1330	1630	262	332	118	88	160
4	93	370	196	1170	150	1370	1550	191	256	100	87	112
5	90	769	188	1120	150	1720	1380	177	269	102	86	107
6	93	494	195	964	145	1480	1430	179	235	163	100	95
7	100	458	208	802	140	1410	1080	216	175	132	208	92
8	125	442	209	665	140	1470	929	202	169	125	275	91
9	117	431	210	517	140	1450	876	194	167	110	200	102
10	107	684	240	425	140	1390	820	188	167	152	132	127
11	102	543	307	373	161	1370	746	170	172	129	125	97
12	97	502	299	334	189	1770	664	165	462	108	120	90
13	100	473	334	304	187	1500	595	157	370	104	106	88
14	100	441	397	293	179	1440	539	154	356	103	110	85
15	95	402	386	282	178	1210	487	178	339	113	172	81
16	98	370	330	274	178	914	447	188	347	110	627	79
17	97	324	316	270	185	729	394	239	304	102	385	81
18	97	295	304	260	185	580	372	199	260	101	316	80
19	96	279	302	250	195	472	283	220	239	97	238	79
20	95	264	307	240	194	422	273	169	238	95	139	77
21	107	254	301	230	201	367	265	448	255	96	103	76
22	130	249	512	230	888	310	261	249	251	95	93	75
23	118	246	352	220	2890	251	252	198	262	93	91	74
24	108	246	334	210	3210	251	226	257	220	93	92	92
25	104	243	333	210	1310	242	215	247	156	92	143	89
26	105	240	310	200	1310	229	181	218	132	94	113	76
27	108	238	303	200	1210	212	166	183	126	104	103	77
28	150	276	305	190	1130	219	162	587	108	93	137	73
29	562	281	321	190	---	1240	159	381	103	89	174	73
30	295	250	1040	180	---	944	159	388	100	88	302	71
31	254	---	637	180	---	1530	---	442	---	91	229	---
TOTAL	4045	10855	10199	14153	15485	30462	19481	7603	7305	3296	5294	2864
MEAN	130	362	329	457	553	983	649	245	244	106	171	95.5
MAX	562	769	1040	1190	3210	1770	1640	587	462	163	627	187
MIN	90	210	188	180	140	212	159	154	100	88	86	71
CAL YR 1984	TOTAL	158351	MEAN	433	MAX	4430	MIN	84				
WTR YR 1985	TOTAL	131042	MEAN	359	MAX	3210	MIN	71				

## MUSKINGUM RIVER BASIN

03133500 CLEAR FORK BELOW PLEASANT HILL DAM, NEAR PERRYVILLE, OH

LOCATION.--Lat 40°37'13", long 82°19'28", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, Hydrologic Unit 05040002, on right bank 0.2 mi downstream from Pleasant Hill Dam, 2.8 mi south of Perryville, and 4.7 mi upstream from the confluence of Clear Fork and Black Fork.

DRAINAGE AREA.--198 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 967.00 ft above National Geodetic Vertical Datum of 1929. Prior to May 1, 1947, water-stage recorder at site 0.5 mi downstream at datum 4.88 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Pleasant Hill Lake. Water diverted from Clear Fork Reservoir (upstream from Pleasant Hill Lake) for municipal supply of city of Mansfield since 1953; mean pumpage for 1985 water year 8.97ft<sup>3</sup>/s returned to Rocky Fork as sewage effluent. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 198 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,340 ft<sup>3</sup>/s Jan. 23, 1959, gage height, 4.89 ft; minimum daily, 0.6 ft<sup>3</sup>/s Nov. 2, 4, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft<sup>3</sup>/s Feb. 26, gage height 3.97 ft; minimum daily, 31 ft<sup>3</sup>/s Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	83	170	350	82	946	509	126	132	44	35	53
2	40	103	169	483	87	1000	679	212	116	46	35	47
3	40	111	169	690	87	997	742	284	103	49	34	42
4	39	119	168	541	73	931	764	246	92	47	31	42
5	37	308	168	226	67	869	644	206	84	51	34	39
6	38	303	168	226	67	724	509	172	78	67	37	38
7	40	239	152	304	67	452	517	159	72	63	38	37
8	42	186	132	337	67	354	497	142	69	57	37	34
9	41	159	132	334	67	347	457	126	69	52	35	36
10	41	243	132	257	67	334	378	116	73	50	33	37
11	40	320	155	156	67	308	334	108	77	46	32	34
12	40	328	233	128	83	550	350	101	178	43	33	34
13	39	287	292	128	92	604	347	96	203	41	35	34
14	38	235	308	128	120	382	272	82	189	39	36	33
15	38	233	308	118	132	337	255	93	159	46	43	32
16	38	219	309	100	132	314	238	93	143	50	68	36
17	38	200	365	93	132	287	219	99	132	46	86	37
18	37	169	319	93	132	261	206	109	124	42	73	36
19	40	160	219	93	107	233	199	109	113	40	60	35
20	40	157	158	93	78	222	191	107	103	38	49	34
21	42	168	145	93	67	214	179	126	92	37	42	34
22	43	174	154	93	69	199	177	160	84	36	37	34
23	44	174	155	93	257	191	172	195	79	33	35	35
24	43	173	282	93	957	189	163	153	71	34	35	35
25	42	172	340	93	1390	182	161	128	64	35	39	35
26	42	172	227	93	1370	170	155	111	59	39	41	35
27	43	172	154	93	1300	163	148	106	53	40	38	35
28	47	170	155	93	1110	163	140	137	50	37	36	35
29	94	169	155	87	---	241	130	157	48	34	33	35
30	102	170	156	84	---	314	126	156	46	35	45	35
31	91	---	288	84	---	430	---	152	---	35	56	---
TOTAL	1419	5876	6437	5877	8326	12908	9858	4367	2955	1352	1301	1098
MEAN	45.8	196	208	190	297	416	329	141	98.5	43.6	42.0	36.6
MAX	102	328	365	690	1390	1000	764	284	203	67	86	53
MIN	37	83	132	84	67	163	126	82	46	33	31	32
CAL YR 1984	TOTAL	82864	MEAN	226	MAX	1390	MIN	35				
WTR YR 1985	TOTAL	61774	MEAN	169	MAX	1390	MIN	31				

## MUSKINGUM RIVER BASIN

81

03135000 LAKE FORK BELOW MOHICANVILLE DAM, NEAR MOHICANVILLE, OH

LOCATION.--Lat 40°43'24", long 82°09'18", in sec. 3, T.20 N., R.15 W., Ashland County, Hydrologic Unit 05040001, on right bank 800 ft downstream from Mohicanville Dam, 2 mi east of Mohicanville, and 2.4 mi downstream from the confluence of Jerome and Muddy Forks.

DRAINAGE AREA.--271 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 930.00 ft above National Geodetic Vertical Datum of 1929. Prior to July 25, 1949, water-stage recorder at site 500 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 24. Records good. Flow regulated by Mohicanville Reservoir. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 238 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,490 ft<sup>3</sup>/s July 5, 1969, gage height, 14.32 ft; minimum daily 1.0 ft<sup>3</sup>/s June 10, 1947, Jan. 25, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,340 ft<sup>3</sup>/s Jan. 1, gage height, 8.49 ft; maximum gage height, 8.66 ft, Feb. 23; minimum daily, 16 ft<sup>3</sup>/s Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	64	112	1130	60	1160	1200	81	153	35	33	153
2	33	182	96	1120	60	1160	1190	185	112	38	26	88
3	25	154	91	822	58	1140	1140	155	108	44	20	65
4	21	188	84	508	56	1120	1070	110	98	38	17	55
5	19	851	70	371	54	1140	818	94	122	36	16	52
6	18	426	71	292	54	1140	776	88	109	68	24	51
7	17	223	68	251	52	1150	591	90	86	51	31	47
8	31	156	67	216	52	1150	440	79	73	37	137	34
9	30	130	65	164	50	1130	381	71	68	33	46	34
10	29	527	88	150	50	1160	387	68	67	55	28	43
11	30	469	289	130	54	1160	343	65	62	52	25	40
12	24	309	330	120	64	1150	281	61	326	36	25	39
13	23	211	296	110	62	1100	236	58	227	32	20	36
14	22	155	385	110	60	776	220	57	149	32	35	36
15	22	130	495	100	58	511	200	103	114	40	146	36
16	21	123	291	100	58	378	178	95	111	36	748	37
17	22	106	219	94	56	309	153	143	106	31	365	38
18	21	92	169	88	56	257	148	127	139	29	135	36
19	19	85	146	82	56	220	136	109	163	25	101	35
20	20	78	145	76	56	197	127	86	120	25	66	33
21	24	71	135	70	56	163	118	227	94	24	50	31
22	34	66	520	68	300	140	113	155	75	27	42	31
23	39	64	313	68	900	139	112	109	76	24	36	30
24	33	63	197	68	1000	142	103	89	62	23	34	34
25	28	60	151	68	1030	132	100	77	54	21	75	38
26	28	58	117	66	1110	117	94	66	48	22	269	28
27	28	56	114	66	1150	114	87	64	44	33	202	33
28	50	93	128	64	1140	124	83	553	41	22	89	33
29	349	210	224	64	---	809	79	537	40	20	59	32
30	153	139	1040	64	---	1080	77	244	38	18	140	33
31	84	---	1090	62	---	1090	---	220	---	25	369	---
TOTAL	1321	5539	7606	6762	7812	21558	10981	4266	3085	1032	3409	1311
MEAN	42.6	185	245	218	279	695	366	138	103	33.3	110	43.7
MAX	349	851	1090	1130	1150	1160	1200	553	326	68	748	153
MIN	17	56	65	62	50	114	77	57	38	18	16	28
CAL YR 1984	TOTAL	110174	MEAN	310	MAX	1310	MIN	15				
WTR YR 1985	TOTAL	74682	MEAN	205	MAX	1200	MIN	16				

## MUSKINGUM RIVER BASIN

03136500 KOKOSING RIVER AT MOUNT VERNON, OH

LOCATION.--Lat 40°24'20", long 82°30'00", in sec. 2, T.6 N., R.13 W., Knox County, Hydrologic Unit 05040003, on right bank 300 ft downstream from Tilden Avenue Bridge at Mount Vernon, 0.8 mi downstream from North Branch, and 2.7 mi upstream from Dry Creek.

DRAINAGE AREA.--202 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 2107: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 984.16 ft above National Geodetic Vertical Datum of 1929. (Levels by U.S. Army Corps of Engineers.) Prior to Apr. 3, 1953, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Nov. 8 and Jan. 10 to Feb. 21. Records good except for estimated daily discharges, which are fair. Some regulation by Knox Lake, capacity, 3,750 acre-ft, 8.2 mi upstream on East Branch of North Branch Kokosing River beginning in 1954 and North Branch Kokosing River Lake 10.0 mi upstream on North Branch Kokosing River, beginning in June 1972. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--32 years, (1954-85), 214 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,000 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 18.19 ft, from rating curve extended above 9,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum daily, 8.8 ft<sup>3</sup>/s Sept. 22, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,870 ft<sup>3</sup>/s Feb. 24, gage height 7.57 ft; minimum daily, 8.8 ft<sup>3</sup>/s Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	56	88	478	56	525	842	95	106	56	80	51
2	58	200	82	588	56	408	536	689	93	72	74	36
3	45	140	78	376	56	344	393	810	88	148	65	28
4	34	100	72	274	54	321	327	415	86	102	58	25
5	24	250	67	222	54	526	286	272	83	124	61	23
6	20	200	70	183	54	437	438	210	79	318	72	21
7	35	160	65	165	52	334	429	178	75	188	76	20
8	70	120	63	153	52	417	324	153	70	120	81	16
9	52	103	60	125	52	442	274	132	79	93	76	17
10	40	325	67	110	52	340	242	120	115	80	67	22
11	31	422	199	100	52	296	234	109	122	69	58	22
12	25	302	267	96	66	813	226	100	817	63	53	18
13	27	200	313	88	78	656	206	95	616	66	53	17
14	28	147	454	84	88	456	191	154	393	101	52	15
15	31	122	470	80	92	356	179	440	267	129	65	11
16	40	110	323	78	98	291	169	309	222	130	86	9.9
17	44	98	244	76	100	256	155	310	191	114	79	13
18	46	88	193	74	100	213	141	269	167	99	57	13
19	48	82	166	72	110	199	134	248	144	94	46	13
20	52	75	165	70	110	223	126	196	122	86	39	12
21	54	68	158	68	120	238	119	158	108	80	32	11
22	76	64	234	66	426	210	114	182	95	80	28	8.8
23	100	61	263	66	2930	197	115	151	88	79	25	9.4
24	84	60	194	64	4080	195	112	126	82	78	26	15
25	66	59	158	64	2250	195	108	109	78	76	35	13
26	58	58	125	62	1240	174	103	96	72	97	35	14
27	50	56	117	62	974	165	96	90	68	113	36	17
28	60	64	115	60	811	169	90	228	65	108	31	15
29	76	88	118	60	---	181	87	200	61	90	25	12
30	98	97	420	58	---	253	85	150	57	83	53	11
31	72	---	551	58	---	594	---	124	---	82	60	---
TOTAL	1579	3975	5959	4180	14263	10424	6881	6918	4709	3218	1684	529.1
MEAN	50.9	133	192	135	509	336	229	223	157	104	54.3	17.6
MAX	100	422	551	588	4080	813	842	810	817	318	86	51
MIN	20	56	60	58	52	165	85	90	57	56	25	8.8
CAL YR 1984	TOTAL	91274.0		MEAN	249	MAX	4570	MIN	14.0			
WTR YR 1985	TOTAL	64319.1		MEAN	176	MAX	4080	MIN	8.8			



## MUSKINGUM RIVER BASIN

83

03138500 WALHONDING RIVER BELOW MOHAWK DAM, AT NELLIE, OH

LOCATION.--Lat 40°20'29", long 82°03'56", in T.6 N., R.8 W., Coshocton County, Hydrologic Unit 05040003, on right bank at upstream side of bridge on U.S. Highway 36 at Nellie, 0.5 mi upstream from Mohawk Creek, and 1.7 mi downstream from Mohawk Dam.

DRAINAGE AREA.--1,505 mi<sup>2</sup>.

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.

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 790.00 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 7, 1925, nonrecording gage and Nov. 7, 1925, to Sept. 30, 1937, water-stage recorder at site 3.8 mi 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.

REMARKS.--Estimated daily discharges: Jan. 13 to Feb. 21. Records good. Flow regulated beginning 1936 by 5 flood-control reservoirs at points 1.7 mi to 54 mi upstream. Water-quality data collected at this site 1964 to 1977.

AVERAGE DISCHARGE.--64 years, 1,516 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge at site at Pomerene, 43,800 ft<sup>3</sup>/s Jan. 25, 1937; maximum discharge at present site since regulation began at Mohawk Dam, 24,000 ft<sup>3</sup>/s Jan. 25, 26, 1937, gage height, 18.8 ft, present datum (from floodmarks), from rating curve extended above 13,000 ft<sup>3</sup>/s; minimum daily discharge, 19 ft<sup>3</sup>/s Feb. 27 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 26.9 ft, discharge, 102,000 ft<sup>3</sup>/s present site and datum, from information by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,160 ft<sup>3</sup>/s Feb. 23, gage height, 11.79 ft; minimum daily, 235 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	303	648	882	3320	490	6940	6690	786	1310	425	298	808
2	321	746	834	4370	480	6870	5570	1870	1070	426	319	574
3	325	939	806	4020	480	7050	5130	3350	963	526	290	482
4	295	772	769	3620	480	7150	4800	2080	962	535	278	420
5	278	2240	708	2790	480	7020	4390	1540	806	462	277	355
6	271	2470	709	2380	480	6910	3920	1280	854	625	301	333
7	277	1710	770	2080	480	6870	3810	1170	723	801	315	311
8	299	1340	1100	1990	480	6780	3180	1050	644	599	469	301
9	332	1170	1640	1680	480	6720	2850	939	632	504	597	292
10	322	1650	1240	1520	480	6790	2630	865	651	450	424	312
11	299	2600	1110	1270	480	6570	2430	808	674	510	337	332
12	299	2170	1710	1070	500	6620	2250	758	2670	445	312	288
13	292	1780	1920	950	580	6700	2100	717	2760	398	304	272
14	286	1480	2230	860	600	6460	1900	678	2010	382	286	267
15	284	1280	2730	780	900	4790	1740	1150	1570	432	511	263
16	286	1400	2250	720	1100	4480	1620	1360	1400	454	1130	256
17	285	1280	1840	680	940	2950	1460	1670	1300	425	1750	254
18	280	1170	1690	640	840	2260	1320	1440	1150	379	987	257
19	278	1080	1400	620	760	1930	1220	1290	1100	366	733	256
20	277	1030	1340	600	700	1900	1110	1120	997	342	567	250
21	283	973	1180	580	660	1690	1050	993	908	337	429	244
22	343	956	1470	560	1840	1520	1000	1380	836	349	358	239
23	408	933	1930	540	5100	1390	979	1040	806	329	329	235
24	379	753	1480	530	2500	1370	941	955	766	314	322	247
25	348	730	1490	520	2800	1340	919	886	664	304	361	264
26	330	713	1310	520	3930	1230	865	802	576	315	435	276
27	328	700	1220	510	5980	1160	813	717	529	378	622	264
28	331	733	1200	510	6700	1170	779	1140	497	361	500	261
29	871	951	1240	500	---	2290	753	2290	460	318	425	251
30	1060	975	2380	500	---	3410	729	1570	442	295	459	242
31	781	---	3490	490	---	4680	---	1490	---	290	885	---
TOTAL	11351	37372	46068	41720	41720	135010	68948	39184	30730	13076	15610	9406
MEAN	366	1246	1486	1346	1490	4355	2298	1264	1024	422	504	314
MAX	1060	2600	3490	4370	6700	7150	6690	3350	2760	801	1750	808
MIN	271	648	708	490	480	1160	729	678	442	290	277	235
CAL YR 1984	TOTAL	687772		MEAN	1879	MAX	7410	MIN	257			
WTR YR 1985	TOTAL	490195		MEAN	1343	MAX	7150	MIN	235			

## MUSKINGUM RIVER BASIN

03139000 KILLBUCK CREEK AT KILLBUCK, OH

LOCATION.--Lat 40°28'53", long 81°59'10", Holmes County, Hydrologic Unit 05040003, on right bank at downstream side of U.S. Highway 62 bridge south of Killbuck, 1.2 mi downstream from Black Creek. Prior to Oct. 5, 1976, at site 0.9 mi upstream.

DRAINAGE AREA.--464 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 873: 1935. WSP 1555: 1935. WSP 1907: Drainage area. WRD-OH-70 1: 1969. WRD-OH-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 788.05 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1949, nonrecording gage and Oct. 1, 1949 to Oct. 5, 1976, water-stage recorder and nonrecording gage, at site 0.9 mi upstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 6-12, Jan. 11 to Feb. 21. Records poor. Water-quality data collected at this site 1962 to 1977. Sediment data collected 1962 to 1969.

AVERAGE DISCHARGE.--55 years, 417 ft<sup>3</sup>/s, 12.26 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,500 ft<sup>3</sup>/s July 5, 1969, gage height, 26.40 ft (from flood-marks), from rating curve extended above 11,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at site then in use; minimum, 23 ft<sup>3</sup>/s Sept. 10-15, 28-30, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0500	*3,940	*15.97	June 12	1200	2,040	14.67
Apr. 1	1730	2,140	14.80				

Minimum daily discharge 69 ft<sup>3</sup>/s Sept. 21, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	118	203	168	822	140	2190	2040	214	520	141	93	189	
2	149	263	170	897	140	1580	2080	402	380	142	92	137	
3	125	288	175	869	140	1220	2090	433	436	165	92	116	
4	112	273	185	800	140	997	1880	320	337	165	89	107	
5	101	738	170	666	140	943	1550	266	291	142	88	100	
6	95	675	160	531	140	812	1330	245	271	181	94	96	
7	93	546	160	448	140	720	1140	241	229	173	98	97	
8	104	396	150	388	140	766	982	222	209	143	128	93	
9	106	315	150	314	140	707	843	204	197	131	112	89	
10	101	590	150	272	140	628	752	193	198	141	97	90	
11	97	720	500	240	140	558	714	183	233	160	89	90	
12	97	624	700	220	160	987	678	177	1560	134	83	85	
13	103	491	702	200	180	1010	637	173	1440	122	82	82	
14	105	387	710	190	210	873	594	158	1200	114	81	79	
15	102	331	718	180	250	727	543	167	522	124	103	77	
16	102	308	646	170	290	611	490	191	461	129	348	77	
17	103	268	541	160	270	530	419	373	383	117	414	78	
18	103	239	436	160	240	456	382	324	358	111	284	77	
19	105	219	374	150	220	405	350	283	347	105	208	73	
20	108	201	339	150	200	385	327	228	339	100	177	72	
21	105	201	322	150	190	348	305	219	277	113	139	69	
22	133	194	414	150	812	325	282	257	240	125	124	71	
23	153	180	459	140	2800	317	264	217	256	102	115	69	
24	138	175	418	140	3890	313	261	190	229	96	110	71	
25	133	168	340	140	3660	307	265	175	198	93	131	78	
26	126	159	265	140	3430	278	246	159	184	103	126	73	
27	122	173	250	140	3330	263	243	144	172	111	117	82	
28	120	188	257	140	3060	272	236	475	161	97	116	78	
29	355	194	276	140	---	1120	237	616	151	92	115	72	
30	409	181	670	140	---	1140	211	583	142	89	146	71	
31	285	---	795	140	---	1310	---	697	---	87	231	---	
TOTAL	4208	9888	11770	9387	24732	23098	22371	8729	11921	3848	4322	2638	
MEAN	136	330	380	303	883	745	746	282	397	124	139	87.9	
MAX	409	738	795	897	3890	2190	2090	697	1560	181	414	189	
MIN	93	159	150	140	140	263	211	144	142	87	81	69	
CFSM	.29	.71	.82	.65	1.90	1.61	1.61	.61	.86	.27	.30	.19	
IN.	.34	.79	.94	.75	1.98	1.85	1.79	.70	.96	.31	.35	.21	
CAL YR 1984	TOTAL	198442		MEAN	542	MAX	4550	MIN	60	CFSM	1.17	IN.	15.93
WTR YR 1985	TOTAL	136912		MEAN	375	MAX	3890	MIN	69	CFSM	.81	IN.	10.98

## MUSKINGUM RIVER BASIN

85

03140000 MILL CREEK NEAR COSHOCTON, OH

LOCATION.--Lat 40°21'46", long 81°51'45", Coshocton County, Hydrologic Unit 05040003, on left bank 0.5 mi downstream from Little Mill Creek and 6 mi north of Coshocton.

DRAINAGE AREA.--27.2 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1143: 1946, 1947-48(P). WSP 1907: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 782.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-9, Jan. 11 to Feb. 21. Records fair. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--49 years, 28.8 ft<sup>3</sup>/s, 14.38 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,720 ft<sup>3</sup>/s July 5, 1969, gage height, 13.92 ft, from rating curve extended above 2,200 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; no flow Sept. 28, 29, 1954, Aug. 29-31, 1962, and part of each day Dec. 23, 31, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	2000	*640	*8.00				

Minimum discharge 0.21 ft<sup>3</sup>/s Sept. 22-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	6.5	2.6	7.8	47	6.0	44	119	8.8	10	3.4	2.4	1.9	
2	3.6	17	6.7	38	6.0	39	73	32	7.5	4.7	2.2	1.4	
3	2.0	6.5	7.0	32	6.0	32	61	24	7.2	4.9	1.9	1.1	
4	1.8	6.3	7.6	31	6.0	34	49	15	6.3	3.6	1.7	.92	
5	1.7	22	5.6	28	6.0	43	44	13	5.9	3.9	1.2	.66	
6	1.6	9.5	5.5	23	6.0	34	59	12	5.5	16	1.5	.56	
7	1.6	7.0	5.2	23	6.0	32	48	11	4.8	8.8	1.6	.50	
8	2.1	5.2	5.0	20	6.0	76	46	10	4.6	7.0	1.5	.38	
9	2.7	6.6	5.0	14	6.0	57	42	8.3	4.6	6.3	1.4	.40	
10	2.0	60	29	14	6.0	45	39	7.7	4.3	6.3	1.1	.40	
11	1.8	53	51	12	6.0	41	37	7.5	20	6.1	.85	.36	
12	1.8	31	41	11	6.0	101	36	8.0	170	5.3	.60	.45	
13	1.8	22	58	10	8.5	64	31	7.0	39	4.8	.50	.36	
14	1.8	16	81	9.0	12	54	30	8.4	25	8.4	.45	.28	
15	1.9	14	60	8.5	20	43	28	19	21	11	6.8	.28	
16	1.9	14	43	8.0	32	36	26	14	25	5.2	9.5	.28	
17	2.2	10	34	7.8	25	34	21	31	16	3.7	2.8	.30	
18	3.0	9.6	28	7.5	20	29	20	20	15	3.3	1.8	.24	
19	2.3	9.3	29	7.0	17	26	18	21	12	3.0	1.4	.24	
20	2.0	8.0	27	7.0	15	27	17	14	11	2.9	1.2	.26	
21	2.0	7.0	27	6.6	14	24	16	12	8.8	3.3	1.1	.21	
22	2.7	6.6	67	6.6	135	22	15	10	9.4	6.3	1.0	.21	
23	6.4	6.2	37	6.5	386	22	14	9.4	10	4.2	.92	.21	
24	3.2	6.2	31	6.4	296	22	13	8.3	7.0	2.8	1.0	.22	
25	2.5	6.0	25	6.2	157	20	13	7.0	5.7	2.6	3.0	.21	
26	2.3	5.8	20	6.2	94	16	11	6.1	5.1	4.7	1.9	.28	
27	2.3	5.5	21	6.0	70	16	10	5.9	4.6	7.5	1.4	.47	
28	2.2	6.8	21	6.0	53	18	10	15	4.3	3.5	1.0	.60	
29	5.1	13	21	6.0	---	20	9.1	8.3	4.0	2.5	.92	.66	
30	4.4	8.2	68	6.0	---	39	8.5	7.0	3.7	2.2	.85	.50	
31	2.6	---	47	6.0	---	127	---	24	---	2.2	4.3	---	
TOTAL	81.8	400.9	921.4	426.3	1426.5	1237	963.6	404.7	477.3	160.4	59.79	14.84	
MEAN	2.64	13.4	29.7	13.8	50.9	39.9	32.1	13.1	15.9	5.17	1.93	.49	
MAX	6.5	60	81	47	386	127	119	32	170	16	9.5	1.9	
MIN	1.6	2.6	5.0	6.0	6.0	16	8.5	5.9	3.7	2.2	.45	.21	
CFSM	.10	.49	1.09	.51	1.87	1.47	1.18	.48	.58	.19	.07	.02	
IN.	.11	.55	1.26	.58	1.95	1.69	1.32	.55	.65	.22	.08	.02	
CAL YR 1984	TOTAL	10863.30		MEAN	29.7	MAX	579	MIN	1.3	CFSM	1.09	IN.	14.83
WTR YR 1985	TOTAL	6574.53		MEAN	18.0	MAX	386	MIN	.21	CFSM	.66	IN.	8.99

## MUSKINGUM RIVER BASIN

03140500 MUSKINGUM RIVER NEAR COSHOCTON, OH

LOCATION.--Lat 40°14'54", long 81°52'23", in T.5 N., R.6 W., Coshocton County, Hydrologic Unit 05040004, on right bank at upstream side of highway bridge, 1 mi southwest of Coshocton, and 2 mi downstream from confluence of Tuscarawas and Walhonding Rivers.

DRAINAGE AREA.--4,859 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 725.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 19, 1936, nonrecording gage and Sept. 20, 1936 to Sept. 30, 1977, water-stage recorder at same site at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 24. Records excellent except for period of estimated record which is fair. Flow regulated by 13 flood-control reservoirs at points 19 mi to 88 mi upstream. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--49 years, 4,983 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78,700 ft<sup>3</sup>/s Jan. 26, 1937, gage height, 21.98 ft; minimum daily, 420 ft<sup>3</sup>/s Sept. 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of about 28.8 ft, discharge, 202,000 ft<sup>3</sup>/s, computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,500 ft<sup>3</sup>/s Feb. 27, gage height, 14.76 ft; minimum daily, 676 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	2620	3370	10000	1700	18300	16800	2430	6110	1640	1050	2280
2	1470	2620	3100	10100	1700	17600	17200	2910	5550	1600	1070	1910
3	1810	2940	3030	9820	1700	16700	16500	6040	4900	1680	1090	1490
4	1530	2940	2970	9060	1700	15900	15500	6000	4920	2000	1010	1270
5	1300	4040	2900	7740	1700	14700	14500	4730	4550	1960	970	1110
6	1170	6240	2840	6280	1700	14300	13500	3920	4000	1890	972	1020
7	1100	5390	2690	5470	1700	13800	12600	3550	3680	2180	972	957
8	1110	4170	2600	5240	1700	13100	11400	3410	2940	2090	1020	916
9	1150	3610	2640	4830	1700	12400	10400	3160	2540	1880	1370	881
10	1190	4600	2870	4100	1700	11800	9300	2860	2470	1720	1230	862
11	1140	7600	4140	3600	1700	11200	8560	2650	2440	1980	1060	884
12	1110	8010	6250	3200	1800	11800	8100	2510	5600	2330	967	849
13	1070	7050	7510	3000	2000	13600	7580	2400	9280	1990	915	804
14	1050	5850	8350	2800	2400	14300	6800	2310	9100	1680	899	779
15	1040	4940	8920	2600	2800	11500	6170	2630	7570	1650	975	760
16	1030	4720	8470	2500	3200	10400	5840	3200	6270	1650	1440	738
17	1070	4670	7090	2300	3200	8210	5330	3520	5140	1660	3240	721
18	1170	4300	6130	2200	2900	6620	4780	3850	4450	1550	3370	720
19	1300	4010	5370	2100	2700	5830	4430	3730	3960	1440	2280	721
20	1310	3750	4980	2000	2500	5430	4140	3360	3780	1330	1770	714
21	1350	3390	4740	2000	2300	5010	3940	2870	3370	1250	1470	707
22	1350	3240	5430	1900	3600	4630	3720	2970	3010	1550	1240	688
23	1590	3220	6420	1900	10000	4350	3540	2840	2830	1580	1100	676
24	1890	2980	6090	1800	18200	4220	3400	2620	3080	1440	1040	690
25	1810	2860	5310	1800	19000	4190	3280	2380	2860	1320	1070	685
26	1650	2800	4770	1800	18000	4040	3240	2190	2440	1230	1170	750
27	1540	2710	4260	1800	19300	3810	3100	2030	2190	1320	1260	779
28	1510	2740	4150	1800	18700	3740	2870	2210	2010	1380	1280	764
29	1720	3020	4050	1800	---	4940	2680	6300	1860	1300	1130	757
30	3160	3410	4850	1800	---	10100	2530	7450	1740	1180	1080	740
31	3260	---	9160	1800	---	13100	---	7440	---	1090	1520	---
TOTAL	45100	124440	155450	119140	151300	309590	231730	110470	124640	50540	41030	27622
MEAN	1455	4148	5015	3843	5404	9987	7724	3564	4155	1630	1324	921
MAX	3260	8010	9160	10100	19300	18300	17200	7450	9280	2330	3370	2280
MIN	1030	2620	2600	1800	1700	3740	2530	2030	1740	1090	899	676
CAL YR 1984	TOTAL	2029558		MEAN	5545	MAX	24000	MIN	951			
WTR YR 1985	TOTAL	1491052		MEAN	4085	MAX	19300	MIN	676			



## MUSKINGUM RIVER BASIN

87

03141500 SENECA FORK BELOW SENECAVILLE DAM, NEAR SENECAVILLE, OH

LOCATION.--Lat 39°55'28", long 81°26'17", Guernsey County, Hydrologic Unit 05040005, on left bank 650 ft downstream from Senecaville Dam, and 1.5 mi southeast of Senecaville.

DRAINAGE AREA.--118 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area. WRD-OH-81-1: (M). WRD-OH-83-1: 1982.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 799.00 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 24, 1942, at site 150 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair except those for discharges between 100 and 350 ft<sup>3</sup>/s, which are poor. Flow regulated by Senecaville Lake. Water is diverted from Senecaville Lake for U.S. Fish Hatchery; figures for diversion after 1982 unavailable, diversion not included in figures of daily discharge. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 132 ft<sup>3</sup>/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 985 ft<sup>3</sup>/s, Aug. 24, 1980, gage height, 9.69 ft; maximum gage height, 10.96 ft Aug. 11, 1980 (affected by backwater); no flow May 3, 4, 1939, Jan. 28, 29, Feb. 4, 5, Apr. 25, 1952.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 745 ft<sup>3</sup>/s Apr. 8, gage height, 8.21 ft; minimum daily, 3.4 ft<sup>3</sup>/s June 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	4.0	440	328	15	4.8	7.4	5.1	4.9	4.1	5.0	5.1
2	4.8	4.0	436	217	3.9	4.8	265	5.2	4.9	4.8	5.0	4.4
3	4.8	4.2	433	280	3.9	4.8	676	143	5.1	4.8	5.0	5.7
4	4.8	4.2	428	160	3.8	4.9	729	208	5.0	4.8	5.0	5.3
5	4.8	4.2	423	4.4	4.0	4.5	724	208	5.0	4.8	5.1	5.2
6	4.8	4.2	421	4.4	4.2	24	720	292	7.2	4.8	5.5	5.0
7	4.8	4.2	416	37	4.2	155	722	345	5.3	4.8	5.5	4.3
8	4.8	4.2	411	147	4.2	273	676	120	4.2	4.5	5.5	4.3
9	4.8	4.2	407	223	4.2	306	635	5.2	4.1	4.2	5.5	4.0
10	4.8	4.5	424	239	4.2	307	706	4.7	4.0	4.3	5.5	4.0
11	4.8	4.8	422	92	4.2	244	701	4.4	3.9	4.4	5.3	4.2
12	4.8	5.0	433	5.8	3.8	215	601	4.4	4.0	5.3	5.0	4.4
13	4.8	5.0	467	5.8	4.1	280	454	4.1	5.0	4.4	5.0	4.6
14	4.8	27	506	5.8	4.2	378	451	4.0	4.9	4.1	5.0	4.5
15	4.8	202	515	6.1	4.2	176	179	4.3	4.6	4.3	5.0	4.6
16	4.8	325	505	6.2	4.2	41	4.4	4.4	4.5	4.9	5.1	4.6
17	4.6	351	360	6.2	4.2	41	4.2	85	4.6	5.0	5.0	4.5
18	4.6	349	283	6.2	4.2	41	4.0	19	4.4	4.9	5.0	4.6
19	4.6	350	288	6.2	4.2	143	4.2	19	4.4	5.0	5.0	4.8
20	4.6	370	245	8.3	4.2	236	4.6	18	4.5	5.0	4.6	4.8
21	4.6	412	133	7.1	4.2	260	4.8	20	4.6	4.8	4.6	4.6
22	4.6	423	36	16	4.4	238	4.8	19	4.6	4.9	4.6	4.7
23	4.6	419	36	21	4.4	198	4.8	19	4.4	5.0	4.6	5.0
24	4.6	416	105	21	4.5	199	4.7	19	4.3	5.0	4.7	4.9
25	4.6	412	148	21	4.6	66	227	19	4.3	5.0	3.9	8.8
26	4.6	172	229	22	4.6	3.9	279	18	4.3	4.9	3.9	10
27	4.6	5.8	305	22	4.6	5.0	4.4	18	4.2	5.0	3.9	11
28	4.6	107	351	32	4.7	3.8	4.7	18	4.1	5.0	3.6	11
29	4.6	479	328	39	---	4.4	5.0	16	3.8	5.0	4.9	11
30	4.2	535	332	39	---	5.5	5.0	12	3.4	4.9	5.4	11
31	4.0	---	331	39	---	6.8	---	5.0	---	5.0	5.2	---
TOTAL	144.8	5411.5	10597	2067.5	129.1	3874.2	8812.0	1685.8	136.5	147.7	151.9	174.9
MEAN	4.67	180	342	66.7	4.61	125	294	54.4	4.55	4.76	4.90	5.83
MAX	4.8	535	515	328	15	378	729	345	7.2	5.3	5.5	11
MIN	4.0	4.0	36	4.4	3.8	3.8	4.0	4.0	3.4	4.1	3.6	4.0
CAL YR 1984	TOTAL	47496.1	MEAN	130	MAX	707	MIN	1.1				
WTR YR 1985	TOTAL	33332.9	MEAN	91.3	MAX	729	MIN	3.4				

## MUSKINGUM RIVER BASIN

03142000 WILLS CREEK AT CAMBRIDGE, OH

LOCATION.--Lat 40°00'52", long 81°35'14", Guernsey County, Hydrologic Unit 05040005, on left bank at upstream side of bridge on Campbell Avenue in Cambridge, 0.9 mi downstream from Leatherwood Creek.

DRAINAGE AREA.--406 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 853: 1929(M). WSP 893: 1928. WSP 973: 1942.

GAGE.--Water-stage recorder. Datum of gage is 772.34 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1927, nonrecording gage at site 1.5 mi 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.

REMARKS.--Estimated daily discharges: Jan. 14 to Feb. 12 and Feb. 16-20. Records good except for periods of estimated daily discharges, which are fair. Flow regulated by Senecaville Lake on Seneca Fork, 22 mi upstream, beginning in 1937. Water is diverted 2.7 mi upstream from station for municipal supply of city of Cambridge; diversion not included in figures of daily discharge. Water-quality data collected at this site 1964 to 1975, 1977.

AVERAGE DISCHARGE.--50 years, 449 ft<sup>3</sup>/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,500 ft<sup>3</sup>/s June 6 or 7, 1963; maximum gage height, 24.51 ft Aug. 13, 1980 (backwater from tributaries); minimum daily discharge, 0.7 ft<sup>3</sup>/s Oct. 6, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 8, 1935, reached a stage of 25.4 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,310 ft<sup>3</sup>/s Feb. 24, gage height, 14.52 ft; minimum daily, 6.0 ft<sup>3</sup>/s Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	73	644	764	70	322	2710	67	156	13	16	23
2	41	86	595	738	70	276	2360	173	79	10	19	20
3	35	183	544	519	70	231	1390	988	65	12	19	17
4	28	134	516	546	70	204	1050	682	91	17	15	12
5	18	227	482	373	70	304	1040	361	68	22	11	13
6	19	251	475	219	70	338	1010	284	43	41	12	13
7	19	135	464	189	70	250	1020	335	33	54	13	19
8	41	98	463	208	70	384	1330	340	28	53	17	19
9	67	86	453	254	70	560	1450	173	23	28	19	15
10	72	442	635	273	70	493	1160	96	21	27	14	7.4
11	34	1240	1490	289	70	473	1020	85	23	21	11	6.0
12	22	1240	1560	179	120	867	964	75	72	19	10	11
13	16	536	1090	121	732	946	812	66	141	19	11	15
14	14	250	1060	110	1010	703	678	63	72	20	16	12
15	14	188	1110	100	754	645	631	75	51	51	22	12
16	15	349	948	95	480	373	342	138	39	104	28	9.0
17	14	417	791	90	410	267	190	165	33	56	42	7.2
18	18	406	537	85	370	232	167	197	30	24	50	7.5
19	15	431	452	80	340	200	150	130	32	15	26	8.4
20	20	486	527	80	320	259	138	106	31	12	17	9.2
21	22	485	461	80	527	308	129	91	25	19	14	8.0
22	48	484	782	75	1120	310	120	87	30	127	12	6.9
23	263	480	771	75	2230	341	110	74	28	235	12	7.3
24	196	467	434	75	3160	368	104	63	30	77	26	10
25	93	455	395	75	3110	333	111	57	27	34	43	14
26	64	437	340	70	2260	202	311	48	20	25	54	20
27	55	212	373	70	869	143	287	43	17	47	39	28
28	51	101	485	70	422	143	101	53	15	66	27	26
29	103	315	477	70	---	165	80	64	14	34	22	23
30	154	663	663	70	---	780	69	62	14	20	21	26
31	107	---	964	70	---	2020	---	68	---	17	25	---
TOTAL	1717	11357	20981	6112	19004	13440	21034	5309	1351	1319	683	424.9
MEAN	55.4	379	677	197	679	434	701	171	45.0	42.5	22.0	14.2
MAX	263	1240	1560	764	3160	2020	2710	988	156	235	54	28
MIN	14	73	340	70	70	143	69	43	14	10	10	6.0
(+)	5.61	5.11	4.87	5.37	5.49	5.45	5.27	5.54	5.81	5.99	5.97	5.98

CAL YR 1984 TOTAL 147235.1 MEAN 402 MAX 2780 MIN 5.7 (+) 5.72  
WTR YR 1985 TOTAL 102731.9 MEAN 281 MAX 3160 MIN 6.0 (+) 5.54

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

## MUSKINGUM RIVER BASIN

89

03142290 SALT FORK LAKE NEAR CAMBRIDGE.

LOCATION.--Lat 40°06'15", long 81°33'15", in T.3 N., R.3 W., Guernsey County, Hydrologic Unit 05040005, at outlet works near left end of dam on Salt Fork, 0.8 mi upstream from mouth, 5.0 mi north of Cambridge, and 3.5 mi south of Kimbolton.

DRAINAGE AREA.--159 mi<sup>2</sup>.

PERIOD OF RECORD. September 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--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 spillway and all regulation is done by conduits through dam. Reservoir is used for recreation, flood control, and future municipal supply.

COOPERATION.--Capacity table furnished by State Department of Natural Resources.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 72,570 acre-ft Aug. 13, 1980, elevation, 808.48 ft; minimum, 12,200 acre-ft Oct. 17, 1968, elevation, 786.53 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 50,700 acre-ft Apr. 2, elevation, 802.72 ft; minimum, 40,630 acre-ft Sept. 27, elevation, 799.56 ft. May be higher during missing record (Feb. 15 to Mar. 6).

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	800.07	42,170	--
Oct. 31.....	800.42	43,250	+1,080
Nov. 30.....	800.95	44,900	+1,650
Dec. 31.....	801.73	47,390	+2,490
CAL YR 1984.....	--	--	+770
Jan. 31.....	800.66	44,000	-3,390
Feb. 29.....	*802.05	48,420	+4,420
Mar. 31.....	802.41	49,640	+1,220
Apr. 30.....	800.81	44,460	-5,180
May 31.....	800.63	43,900	-560
June 30.....	800.41	43,220	-680
July 31.....	800.23	42,660	-560
Aug. 31.....	800.02	42,010	-650
Sept. 30.....	799.76	41,230	-780
WTR YR 1985.....	--	--	-940

\* estimated

## MUSKINGUM RIVER BASIN

03143500 WILLS CREEK BELOW WILLS CREEK DAM, AT WILLS CREEK, OH

LOCATION.--Lat 40°09'34", long 81°50'51", in sec. 22, T.4 N., R.6 W., Coshocton County, Hydrologic Unit 05040005, on left bank 1,200 ft downstream from Wills Creek Dam, 1.3 mi southeast of town of Wills Creek, 2.7 mi southeast of Conesville, and 6.2 mi upstream from mouth.

DRAINAGE AREA.--842 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.00 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Jan. 14 to Feb. 11, Feb. 17-20. Records good. Flow regulated by Seneca-ville Lake on Seneca Fork, 80 mi upstream, Salt Fork Reservoir 43 mi upstream, and Wills Creek Lake, 0.2 mi upstream (see station 03142290). Water-quality data collected at this site 1957, 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 945 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,930 ft<sup>3</sup>/s Mar. 7, 1940, gage height, 17.40 ft; maximum gage height, 17.50 ft Mar. 22, 1964 (backwater from Muskingum River); minimum daily discharge, 1.0 ft<sup>3</sup>/s Aug. 10, Oct. 27-29, 1948, Jan. 28, 1952, July 6-9, 1969, Apr. 3, 1970, Feb. 25, 1975, Feb. 19, 1976, when gates at Wills Creek Lake were closed.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 22,300 ft<sup>3</sup>/s, computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,640 ft<sup>3</sup>/s Mar. 6, gage height, 14.61 ft; minimum daily, 29 ft<sup>3</sup>/s Sept. 16, 23, 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	196	518	1420	210	3430	3110	280	281	91	97	62
2	58	256	747	1470	210	4010	3720	279	324	95	81	57
3	64	247	788	1330	210	4280	3980	374	313	96	70	54
4	71	235	754	1170	210	4100	3820	796	289	93	64	52
5	73	289	705	1010	210	4410	2980	1110	259	89	62	50
6	71	323	675	923	200	4420	2410	862	240	110	60	47
7	66	366	647	760	200	4170	2200	654	222	123	58	45
8	66	369	628	645	200	2270	2120	561	196	123	67	41
9	70	317	615	570	200	1250	2230	541	173	122	65	39
10	70	336	689	543	200	1150	2400	500	157	123	59	37
11	83	451	1100	542	200	1170	2270	394	141	118	56	36
12	102	1030	1780	546	224	1210	1990	311	146	108	53	34
13	105	1490	2170	529	256	1490	1780	268	157	97	50	33
14	96	1260	2120	400	398	1890	1600	241	176	89	50	31
15	84	847	1900	350	726	1780	1390	257	201	95	52	30
16	75	618	1790	320	1250	1470	1240	293	203	105	55	29
17	67	530	1620	300	1100	1230	1030	320	188	113	55	30
18	64	571	1380	280	920	963	756	370	167	131	53	31
19	58	616	1150	270	830	806	611	405	150	133	54	31
20	55	627	977	260	740	728	530	391	135	117	59	31
21	54	646	932	250	769	679	476	335	123	110	62	31
22	66	669	1030	240	838	674	430	285	120	136	59	30
23	82	667	1160	240	1500	697	394	252	169	138	54	29
24	115	657	1310	230	715	725	368	227	185	191	53	31
25	214	644	1100	230	836	755	361	206	171	236	55	31
26	253	623	887	230	854	735	349	187	150	214	67	30
27	216	603	785	220	1590	661	352	171	133	182	102	30
28	173	566	720	220	2170	570	447	168	120	146	112	29
29	156	462	752	220	---	549	428	160	108	123	89	29
30	147	382	885	210	---	775	334	154	99	116	79	31
31	161	---	1100	210	---	1740	---	193	---	108	71	---
TOTAL	3084	16893	33414	16138	17966	54787	46106	11545	5496	3871	2023	1101
MEAN	99.5	563	1078	521	642	1767	1537	372	183	125	65.3	36.7
MAX	253	1490	2170	1470	2170	4420	3980	1110	324	236	112	62
MIN	49	196	518	210	200	549	334	154	99	89	50	29
CAL YR 1984	TOTAL	326973		MEAN	893	MAX	4900	MIN	38			
WTR YR 1985	TOTAL	212424		MEAN	582	MAX	4420	MIN	29			



## MUSKINGUM RIVER BASIN

91

03144000 WAKATOMIKA CREEK NEAR FRAZEYSBURG, OH

LOCATION.--Lat 40°07'57", long 82°08'53", in NW 1/4 sec. 13, T.3 N., R.9 W., Muskingum County, Hydrologic Unit 05040004, on right bank 2.0 mi northwest of Frazeysburg, 2.0 mi downstream from Fivemile Run, and 2.5 mi upstream from Black Run.

DRAINAGE AREA.--140 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1113: 1937(M). WSP 1555: 1952(M).

GAGE.--Water-stage recorder. Datum of gage is 748.12 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 31, 1936, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 23 and May 28 to Sept. 30. Records good except for estimated daily discharges, which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1970 to 1974.

AVERAGE DISCHARGE.--49 years, 154 ft<sup>3</sup>/s, 14.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft<sup>3</sup>/s Sept. 14, 1979, gage height, 14.07 ft, from rating curve extended above 7,700 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; minimum, 2.0 ft<sup>3</sup>/s Oct. 3, 1963, gage height, 0.94.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0600	*3,700	*8.11	No other peak greater than base discharge			

Minimum discharge, 6.1 ft<sup>3</sup>/s Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	14	21	40	206	36	247	1090	54	60	34	13	28	
2	12	52	37	199	35	212	577	268	50	39	12	22	
3	10	25	38	145	34	167	413	493	45	98	11	19	
4	8.0	21	37	129	34	155	313	235	43	78	10	16	
5	6.8	69	33	114	33	264	264	163	41	100	12	14	
6	6.2	38	35	93	33	179	308	127	39	220	15	13	
7	8.0	21	40	87	32	152	265	106	38	120	20	12	
8	13	13	38	81	31	257	253	85	36	70	24	11	
9	14	13	32	61	31	253	224	72	39	58	20	10	
10	11	98	54	60	31	211	190	65	47	50	17	13	
11	9.9	120	180	58	31	201	176	61	60	44	15	12	
12	8.6	67	178	56	30	574	157	61	490	40	13	11	
13	8.8	48	159	54	35	440	139	59	330	37	12	10	
14	8.8	40	307	52	70	328	151	54	200	45	11	9.0	
15	9.3	37	289	50	80	249	135	58	140	84	13	8.0	
16	11	37	175	49	80	198	123	97	120	70	20	7.0	
17	14	33	130	48	74	175	106	253	100	60	17	8.6	
18	13	30	102	47	70	145	94	161	90	48	15	9.0	
19	15	33	94	46	64	126	90	138	80	40	14	8.6	
20	16	30	104	44	60	134	84	123	70	35	13	8.0	
21	17	27	91	43	60	118	78	103	66	32	12	7.2	
22	24	26	226	43	64	105	74	85	58	28	12	6.6	
23	37	26	162	42	700	114	71	74	54	25	11	6.2	
24	28	26	126	41	2860	114	67	66	50	23	10	10	
25	20	26	101	40	1460	113	66	59	47	20	10	9.0	
26	17	25	72	39	670	95	61	53	44	24	14	9.8	
27	16	25	74	38	446	91	58	49	42	30	15	12	
28	16	34	74	38	305	98	55	140	38	23	13	10	
29	29	49	72	37	---	121	52	110	37	19	11	9.0	
30	34	43	224	37	---	485	49	90	35	16	24	7.8	
31	26	---	251	36	---	1070	---	70	---	15	35	---	
TOTAL	481.4	1153	3575	2113	7489	7191	5783	3632	2589	1625	464	336.8	
MEAN	15.5	38.4	115	68.2	267	232	193	117	86.3	52.4	15.0	11.2	
MAX	37	120	307	206	2860	1070	1090	493	490	220	35	28	
MIN	6.2	13	32	36	30	91	49	49	35	15	10	6.2	
CFSM	.11	.27	.82	.49	1.91	1.66	1.38	.84	.62	.37	.11	.08	
IN.	.13	.31	.95	.56	1.99	1.91	1.54	.97	.69	.43	.12	.09	
CAL YR 1984	TOTAL	60694.7		MEAN	166	MAX	3380	MIN	5.0	CFSM	1.19	IN.	16.10
WTR YR 1985	TOTAL	36432.2		MEAN	99.8	MAX	2860	MIN	6.2	CFSM	.71	IN.	9.68

## MUSKINGUM RIVER BASIN

03145000 SOUTH FORK LICKING RIVER NEAR HEBRON, OH

LOCATION.--Lat 39°59'19", long 82°28'30", in NW 1/4 sec. 3, T.1 N., R.12 W., Licking County, Hydrologic Unit 05040006, on left bank at upstream side of bridge on county road, 800 ft downstream from Beaver Run, 2.3 mi north of Hebron, and 2.5 mi upstream from Ramp Creek.

DRAINAGE AREA.--133 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 923: 1940. WSP 1033: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 856.08 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 13, 1974 nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharge: Oct. 1-3, Oct. 16 to Nov. 3 and Jan. 11 to Feb. 20. Records good except for estimated periods which are fair. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft, on unnamed tributary 5.6 mi upstream from station. Occasional diversion from Buckeye Lake into Jonathan Creek which bypasses station. Water-quality data collected at this site 1969 to 1977.

AVERAGE DISCHARGE.--26 years, 154 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,120 ft<sup>3</sup>/s Mar. 6, 1945, gage height, 12.1 ft, from flood marks; no flow Aug. 22, 1942.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959, reached a stage of 12.4 ft present datum, from flood marks; discharge 5,880 ft<sup>3</sup>/s, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,010 ft<sup>3</sup>/s Feb. 24, gage height 10.77 ft ; minimum daily, 6.3 ft<sup>3</sup>/s Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	60	112	370	19	458	836	27	43	13	26	12
2	10	70	101	368	19	426	379	335	32	19	22	11
3	8.6	56	97	294	19	398	214	470	25	41	20	10
4	8.4	44	108	257	19	385	139	148	23	20	20	11
5	7.3	202	96	235	19	525	114	77	23	26	20	11
6	7.1	113	107	214	19	463	116	57	23	266	21	9.7
7	6.8	45	185	162	19	396	110	46	20	67	20	8.4
8	9.9	30	221	53	20	568	111	38	20	101	18	9.7
9	13	25	166	44	21	572	95	33	20	51	18	12
10	9.2	186	241	37	25	435	76	30	20	30	15	13
11	7.3	330	542	33	45	365	70	28	23	22	17	11
12	6.7	134	446	30	50	683	63	27	102	18	17	10
13	6.3	66	407	28	240	469	58	28	55	17	16	10
14	6.7	46	617	26	205	232	57	27	35	55	15	9.6
15	9.6	66	544	25	165	146	55	103	28	1010	18	9.7
16	15	205	371	23	140	105	50	284	32	1550	40	9.6
17	14	203	303	22	110	86	46	294	34	771	24	9.9
18	13	197	261	21	89	72	39	154	28	320	17	12
19	12	202	250	20	80	63	36	198	24	77	16	9.5
20	11	207	284	20	140	58	33	95	21	54	16	7.8
21	12	196	224	20	246	52	34	61	18	70	15	8.0
22	20	187	412	20	556	49	32	52	16	301	13	8.0
23	24	183	252	19	1550	54	30	44	18	101	12	8.1
24	21	179	124	19	2650	57	29	36	19	52	17	9.2
25	19	175	83	19	2310	56	28	31	17	39	19	11
26	17	172	58	19	1120	51	26	28	16	35	16	13
27	16	169	51	19	594	45	24	26	14	45	14	13
28	15	185	93	19	521	44	24	43	14	33	12	11
29	23	230	212	19	---	58	23	49	13	27	13	9.9
30	20	136	419	19	---	630	23	33	13	24	13	10
31	25	---	506	19	---	1060	---	46	---	22	12	---
TOTAL	405.9	4299	7893	2493	11010	9061	2970	2948	789	5277	552	308.1
MEAN	13.1	143	255	80.4	393	292	99.0	95.1	26.3	170	17.8	10.3
MAX	25	330	617	370	2650	1060	836	470	102	1550	40	13
MIN	6.3	25	51	19	19	44	23	26	13	13	12	7.8

CAL YR 1984 TOTAL 62314.7 MEAN 170 MAX 2020 MIN 5.0  
WTR YR 1985 TOTAL 48006.0 MEAN 132 MAX 2650 MIN 6.3

## MUSKINGUM RIVER BASIN

93

03146500 LICKING RIVER NEAR NEWARK, OH

LOCATION.--Lat 40°03'33", long 82°20'23", in T.2 N., R.11 W., Licking County, Hydrologic Unit 05040006, on right bank at downstream side of Stadden Bridge, 1.0 mi downstream from Shawnee Run, 1.5 mi upstream from Equality Run, and 3.5 mi east of Newark.

DRAINAGE AREA.--537 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 973: 1940(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 779.02 ft above National Geodetic Vertical Datum of 1929. Prior to May 9, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 20 and June 10-20. Records good except for estimated periods which are fair. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft, on South Fork 15.2 mi upstream. Water-quality data collected at this site 1962 to 1980.

AVERAGE DISCHARGE.--46 years, 593 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 20.3 ft (from high-water mark), from rating curve extended above 24,000 ft<sup>3</sup>/s on basis of flood-routing studies from station at Toboso; minimum daily, 28 ft<sup>3</sup>/s Sept. 27, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 6,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0200	*13,200	*12.73	No other peak greater than base discharge			

Minimum daily discharge, 49 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	153	321	1160	119	1610	3560	300	294	89	112	63
2	75	266	291	1230	119	1460	1720	1300	264	143	111	63
3	61	283	289	855	119	1320	1220	2170	217	180	102	61
4	61	239	290	701	119	1230	1030	1000	205	183	96	60
5	57	789	271	617	119	2100	938	736	198	150	94	63
6	56	663	256	533	119	1610	922	602	193	422	98	58
7	60	345	270	493	119	1280	914	503	176	561	101	59
8	73	242	296	372	119	1880	882	422	170	285	97	53
9	74	213	296	284	119	1880	827	370	156	315	92	56
10	70	720	424	250	119	1410	758	330	144	179	83	58
11	62	1190	1330	220	125	1270	743	308	240	145	81	57
12	59	577	1270	210	150	3310	707	282	470	120	77	55
13	58	389	1300	195	200	2060	665	276	370	107	70	55
14	51	293	2250	180	250	1360	652	264	290	97	67	54
15	56	244	1890	170	340	1100	622	530	220	1570	90	52
16	87	340	1080	158	300	951	596	829	180	2300	124	52
17	65	345	822	150	350	873	543	933	230	1760	120	52
18	64	340	672	144	340	789	491	780	200	931	92	54
19	62	338	610	135	300	725	454	704	180	373	85	54
20	58	326	712	132	400	711	420	590	160	237	80	52
21	62	324	655	130	488	698	393	461	149	187	77	51
22	88	313	1540	128	2340	654	370	395	154	539	74	50
23	100	301	950	127	9930	650	355	353	146	416	72	49
24	87	291	616	127	12000	650	341	307	132	211	91	58
25	85	285	492	124	7620	650	327	271	119	163	93	50
26	83	281	383	122	3820	614	308	243	115	191	78	65
27	79	277	340	120	2400	571	289	238	109	241	75	58
28	73	314	335	120	1900	567	273	336	101	159	69	56
29	103	395	439	120	---	637	255	293	96	129	69	51
30	96	367	1660	120	---	2310	251	261	89	118	70	52
31	104	---	1760	120	---	4780	---	269	---	110	69	---
TOTAL	2263	11443	24110	9547	44443	41710	21826	16656	5767	12611	2709	1671
MEAN	73.0	381	778	308	1587	1345	728	537	192	407	87.4	55.7
MAX	104	1190	2250	1230	12000	4780	3560	2170	470	2300	124	65
MIN	51	153	256	120	119	567	251	238	89	89	67	49
CAL YR 1984	TOTAL	251772		MEAN	688	MAX	13400	MIN	51			
WTR YR 1985	TOTAL	194756		MEAN	534	MAX	12000	MIN	49			

## MUSKINGUM RIVER BASIN

03147500 LICKING RIVER BELOW DILLON DAM, NEAR DILLON FALLS, OH

LOCATION.--Lat 39°59'18", long 82°04'50", in T.1 N., R.8 W., Muskingum County, Hydrologic Unit 05040006, on left bank 500 ft downstream from Dillon Dam, 2.0 mi northwest of Dillon Falls, and 5.8 mi upstream from mouth.

DRAINAGE AREA.--742 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 2107: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 700.0 ft above National Geodetic Vertical Datum of 1929, U.S. Army Corps of Engineers bench mark. Prior to Oct. 27, 1940, water-stage recorder at site 2.3 mi downstream at different datum. Oct. 27, 1940, to Sept. 30, 1962, water-stage recorder at site 2.6 mi downstream at datum 16.3 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Dillon Lake since December 1960. Water-quality data collected at this site 1965 to 1977. Water-temperature data collected 1961 to 1975.

AVERAGE DISCHARGE.--21 years (water years 1940-60), 760 ft<sup>3</sup>/s; 25 years (water years 1961-85), 877 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 32.46 ft; minimum daily, 19 ft<sup>3</sup>/s Dec. 22, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 37.0 ft site and datum in use 1940-62, from floodmark, backwater from Muskingum River.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,440 ft<sup>3</sup>/s Mar. 10, gage height, 9.41 ft; minimum daily, 94 ft<sup>3</sup>/s Sept. 11, 13-22, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	116	455	2300	235	4300	568	243	221	100	123	97
2	107	114	366	1960	227	4310	1110	339	221	100	124	97
3	105	121	370	1320	228	4250	3370	2360	221	114	123	97
4	106	122	323	950	228	4250	3810	2370	221	143	123	97
5	107	274	281	775	227	4220	3530	961	224	145	124	97
6	106	597	280	775	227	4230	2530	662	208	146	124	97
7	107	685	281	668	228	4270	2450	591	173	145	123	96
8	108	613	280	584	227	4270	2070	400	171	515	122	97
9	110	504	281	388	226	4260	1370	302	171	701	122	97
10	115	447	371	339	226	4300	752	234	170	367	122	95
11	112	659	923	368	206	4250	845	214	170	224	121	94
12	109	844	1680	343	223	4270	804	214	338	131	117	95
13	110	838	1650	283	339	4290	720	331	481	117	100	94
14	111	977	1810	278	500	4250	673	404	336	119	100	94
15	110	900	1980	310	565	2880	613	404	249	975	101	94
16	112	462	1710	297	564	1470	549	698	248	2230	101	94
17	112	421	1320	267	561	1440	508	1100	249	2010	100	94
18	114	419	948	268	561	1270	444	899	248	811	100	94
19	114	432	799	264	670	1180	382	636	224	389	99	94
20	114	440	713	268	723	1010	345	616	191	231	100	94
21	115	413	746	223	668	754	347	566	180	232	99	94
22	116	375	781	184	1150	627	348	347	162	375	99	94
23	115	374	795	181	1470	549	350	201	161	387	99	95
24	111	373	1030	252	171	549	353	221	161	210	100	94
25	111	372	1170	264	166	602	354	204	161	151	100	96
26	111	372	1020	251	1330	632	312	204	161	152	98	97
27	111	342	662	251	3630	574	244	204	161	152	97	95
28	113	337	497	251	4070	489	245	272	131	150	97	97
29	114	371	437	251	---	478	245	378	102	202	97	97
30	114	481	443	251	---	494	245	417	98	202	97	97
31	128	---	1760	250	---	540	---	361	---	125	97	---
TOTAL	3457	13795	26162	15614	19846	75258	30486	17353	6213	12051	3349	2864
MEAN	112	460	844	504	709	2428	1016	560	207	389	108	95.5
MAX	128	977	1980	2300	4070	4310	3810	2370	481	2230	124	97
MIN	105	114	280	181	166	478	244	201	98	100	97	94
CAL YR 1984	TOTAL	322123		MEAN	880	MAX	4310	MIN	67			
WTR YR 1985	TOTAL	226448		MEAN	620	MAX	4310	MIN	94			



## MUSKINGUM RIVER BASIN

03150000 MUSKINGUM RIVER AT MCCONNELLSVILLE, OH

(National stream quality accounting network station)

LOCATION.--Lat 39°38'42", long 81°51'00", in SE 1/4 sec. 11, T.10 N., R.12 W., Morgan County, Hydrologic Unit 05040004, on left bank just upstream from Dam 7, at McConnelsville, and 3.5 mi downstream from Oilspring Run.

DRAINAGE AREA.--7,422 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 783: 1913(M). WSP 853: 1933(M). WSP 1173: 1922-24, 1928(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 650.31 ft above National Geodetic Vertical Datum of 1929. Prior to July 27, 1922, nonrecording gage at site 0.5 mi upstream at same datum. July 27, 1922, to Aug. 10, 1926, nonrecording gage and Aug. 11, 1926, to Sept. 8, 1959, water-stage recorder at present site and datum. Sept. 9, 1959, to July 18, 1960, nonrecording gage at site 0.5 mi upstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 15 to Feb. 12 and July 15 to Sept. 4. Records good except for estimated daily discharges, which are fair. Flow regulated by 17 flood-control reservoirs 36.6 mi to 148 mi upstream from station.

AVERAGE DISCHARGE.--64 years, 7,614 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 126,000 ft<sup>3</sup>/s Jan. 26, 1937, gage height, 21.14 ft; minimum daily, 325 ft<sup>3</sup>/s Oct. 12, 1930, may have been lower during August 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 27, 1913 reached a stage of 33.5 ft, discharge, 270,000 ft<sup>3</sup>/s, computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,800 ft<sup>3</sup>/s Feb. 23, gage height, 9.70 ft; minimum daily, 692 ft<sup>3</sup>/s Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	3700	5170	15300	2500	27200	23700	3930	9020	2800	1700	3000
2	1610	3710	5050	15700	2400	27800	25000	4930	7710	2720	1700	3500
3	1940	3730	4990	14800	2400	27200	26200	9760	7090	2750	1600	2500
4	2250	3840	4880	13700	2400	26400	26100	11900	6540	2900	1600	1900
5	1940	4130	4660	12300	2300	26100	24600	9500	6520	3240	1500	1560
6	1790	6770	4560	10500	2300	25100	22600	7740	5860	3570	1500	1360
7	1640	7870	4370	9160	2300	24500	21300	6590	5340	3510	1500	1260
8	1650	6610	4190	8230	2200	22800	20500	5850	4780	3740	1800	1170
9	1720	5550	4100	7620	2200	20900	17900	5350	3980	4040	2300	1120
10	1740	5810	5120	6700	2200	19700	15900	4920	3670	3630	2000	1070
11	1660	8950	7760	6150	2100	19200	14900	4470	3580	3300	1800	1020
12	1550	10900	10500	5590	2300	20800	14000	4170	4610	3490	1600	1010
13	1580	10900	13000	4920	4380	21500	13000	3910	9970	3580	1500	1010
14	1580	10100	14600	4450	5050	22700	12100	3940	11200	3470	1400	966
15	1590	8650	15200	4200	5990	21500	10900	4290	10300	3000	1700	938
16	1590	7040	14700	4000	6280	16600	10200	5370	8930	2900	1900	903
17	1610	6730	13000	3900	6800	15000	9430	6870	7640	2800	2700	885
18	1620	6400	11000	3700	6550	12500	8350	6830	6640	2600	4400	876
19	1620	6190	9630	3600	6420	10600	7530	6550	5890	2500	3500	754
20	1680	5910	8710	3500	6260	9600	6900	5960	5350	2300	2800	873
21	1760	5480	8210	3300	6230	8730	6430	5380	4990	2500	2600	826
22	1950	5110	9440	3200	10600	8120	6040	4730	4560	3200	2300	822
23	2060	4940	10000	3100	25600	7750	5700	4380	4530	2900	2100	828
24	2170	4900	10500	3000	32100	7460	5420	4210	4310	2500	1900	848
25	2360	4660	9890	2900	28500	7300	5250	3840	4450	2300	1800	826
26	2420	4510	8790	2800	24200	7160	4950	3540	4060	2200	1700	847
27	2250	4340	7610	2700	25600	6770	4830	3320	3640	2200	1800	943
28	2130	4410	6880	2700	26600	6370	4610	3270	3310	2300	2100	850
29	2180	4540	6650	2600	---	6780	4450	4820	3080	2200	1800	692
30	2530	4780	7230	2500	---	16900	4190	8770	2910	2000	1700	882
31	3870	---	11200	2500	---	24000	---	9960	---	1800	1800	---
TOTAL	59620	181160	261590	189320	254760	525040	382980	179050	174460	88940	62100	36039
MEAN	1923	6039	8438	6107	9099	16940	12770	5776	5815	2869	2003	1201
MAX	3870	10900	15200	15700	32100	27800	26200	11900	11200	4040	4400	3500
MIN	1550	3700	4100	2500	2100	6370	4190	3270	2910	1800	1400	692
CAL YR 1984	TOTAL	3255820		MEAN	8896	MAX	34000	MIN	1290			
WTR YR 1985	TOTAL	2395059		MEAN	6562	MAX	32100	MIN	692			

## MUSKINGUM RIVER BASIN

03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1950 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: November 1978 to current year.

REMARKS.--Samples collected each month as part of the National Stream Quality Accounting Network. Water-quality monitor data collected at site, 1.0 mi upstream from discharge station, from 1973 to 1980.

COOPERATION.--Pesticide analyses furnished by Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,710 mg/L Aug. 11, 1980; minimum daily mean 2 mg/L Jan. 28, 1983.

SEDIMENT LOADS: Maximum daily 167,000 tons Aug. 11, 1980; minimum daily, 19 tons Jan. 22, 23, 1984.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 795 mg/L Feb. 23; minimum daily mean, 9 mg/L Dec. 9.

SEDIMENT LOADS: Maximum daily, 58,500 tons Feb. 24; minimum daily, 92 tons Aug. 15.

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 1984									
17...	11:00	1590	860	7.9	21.0	18.0	13	7.7	84
DEC									
12...	09:00	9960	630	7.9	4.0	3.5	30	13.0	101
MAR 1985									
05...	09:30	26300	355	7.5	1.0	5.5	30	12.2	99
MAY									
01...	09:30	3910	665	7.7	18.0	18.5	15	9.0	99
JUL									
16...	10:00	5080	730	7.6	26.0	25.5	15	7.5	94
AUG									
13...	11:00	1270	820	8.0	31.0	26.0	9.0	6.8	87

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1984									
17...	K6	22	84	25	52	5.8	148	160	89
DEC									
12...	1400	3000	67	23	29	3.7	104	140	49
MAR 1985									
05...	1000	190	38	11	13	3.2	57	59	26
MAY									
01...	K10	--	69	23	29	3.3	111	150	56
JUL									
16...	460	190	68	23	38	4.9	108	150	65
AUG									
13...	K12	38	73	27	53	5.5	--	170	86

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 1984									
17...	0.3	4.4	552	2.00	0.10	0.9	0.11	0.05	0.05
DEC									
12...	0.2	5.6	437	1.40	0.19	0.7	0.16	<0.01	<0.01
MAR 1985									
05...	0.2	6.6	208	--	--	1.3	0.15	0.05	--
MAY									
01...	0.3	0.5	486	0.70	0.06	0.9	0.06	<0.01	<0.01
JUL									
16...	0.5	3.2	523	1.40	0.20	1.0	0.08	<0.01	0.01
AUG									
13...	0.3	--	558	0.53	0.16	1.1	0.11	<0.01	<0.01

## MUSKINGUM RIVER BASIN

03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH--Continued

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 1984											
17...	11:00	1590	20	1	67	<0.5	<1	<1	<3	10	13
DEC 12...	09:00	9960	<10	<1	52	1	<1	1	4	7	11
MAY 01...	09:30	3910	80	<1	50	0.6	1	<1	<3	12	18
JUL 16...	10:00	5080	40	<1	59	<0.5	2	<1	<3	10	12

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 1984											
17...	2	11	270	0.2	<10	5	<1	<1	320	<6	28
DEC 12...	1	9	410	0.2	<10	10	<1	<1	330	<6	14
MAY 01...	2	12	78	0.4	<10	3	<1	<1	280	<6	5
JUL 16...	2	17	280	0.2	<10	4	<1	<1	290	<6	7

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 1984					
17...	11:00	1590	18.0	30	129
DEC 12...	09:00	9960	3.5	72	1940
MAR 1985					
05...	09:30	26300	5.5	78	5540
MAY 01...	09:30	3910	18.5	24	253
JUL 16...	10:00	5080	25.5	48	658
AUG 13...	11:00	1270	26.0	26	89

## MUSKINGUM RIVER BASIN

03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	1580	30	128	3700	36	360	5170	23	321
2	1610	30	130	3710	35	351	5050	20	273
3	1940	35	183	3730	34	342	4990	23	310
4	2250	35	213	3840	35	363	4880	16	211
5	1940	35	183	4130	38	424	4660	22	277
6	1790	38	184	6770	47	859	4560	12	148
7	1640	30	133	7870	59	1250	4370	17	201
8	1650	25	111	6610	49	875	4190	10	113
9	1720	25	116	5550	35	524	4100	9	100
10	1740	25	117	5810	33	518	5120	15	207
11	1660	30	134	8950	85	2050	7760	51	1070
12	1550	36	151	10900	150	4410	10500	70	1980
13	1580	38	162	10900	135	3970	13000	92	3230
14	1580	42	179	10100	104	2840	14600	173	6820
15	1590	46	197	8650	77	1800	15200	206	8450
16	1590	50	215	7040	52	988	14700	164	6510
17	1610	58	252	6730	34	618	13000	123	4320
18	1620	35	153	6400	33	570	11000	94	2790
19	1620	34	149	6190	25	418	9630	69	1790
20	1680	35	159	5910	25	399	8710	54	1270
21	1760	43	204	5480	22	326	8210	37	820
22	1950	32	168	5110	20	276	9440	46	1170
23	2060	53	295	4940	14	187	10000	57	1540
24	2170	34	199	4900	15	198	10500	67	1900
25	2360	33	210	4660	13	164	9890	52	1390
26	2420	31	203	4510	12	146	8790	38	902
27	2250	35	213	4340	12	141	7610	30	616
28	2130	34	196	4410	14	167	6880	22	409
29	2180	31	182	4540	21	257	6650	20	359
30	2530	35	239	4780	20	258	7230	27	527
31	3870	33	345	---	---	---	11200	62	1870
TOTAL	59620	---	5703	181160	---	26049	261590	---	51894
JANUARY			FEBRUARY			MARCH			
1	15300	176	7270	2500	25	169	27200	108	7930
2	15700	222	9410	2400	25	162	27800	96	7210
3	14800	161	6430	2400	25	162	27200	104	7640
4	13700	126	4660	2400	25	162	26400	85	6060
5	12300	86	2860	2300	20	124	26100	84	5920
6	10500	54	1530	2300	20	124	25100	86	5830
7	9160	40	989	2300	20	124	24500	72	4760
8	8230	34	756	2200	20	119	22800	61	3760
9	7620	46	946	2200	20	119	20900	55	3100
10	6700	22	398	2200	20	119	19700	54	2870
11	6150	20	332	2100	20	113	19200	53	2750
12	5590	16	241	2300	20	124	20800	69	3880
13	4920	18	239	4380	22	260	21500	108	6270
14	4450	24	288	5050	24	327	22700	106	6500
15	4200	35	397	5990	26	420	21500	102	5920
16	4000	30	324	6280	30	509	16600	81	3630
17	3900	30	316	6800	35	643	15000	68	2750
18	3700	30	300	6550	35	619	12500	66	2230
19	3600	30	292	6420	35	607	10600	52	1490
20	3500	30	283	6260	40	676	9600	44	1140
21	3300	30	267	6230	40	673	8730	48	1130
22	3200	30	259	10600	310	11200	8120	42	921
23	3100	30	251	25600	795	55000	7750	54	1130
24	3000	30	243	32100	675	58500	7460	48	967
25	2900	25	196	28500	360	27700	7300	47	926
26	2800	25	189	24200	208	13600	7160	36	696
27	2700	25	182	25600	153	10600	6770	40	731
28	2700	25	182	26600	126	9050	6370	36	619
29	2600	25	175	---	---	---	6780	48	879
30	2500	25	169	---	---	---	16900	625	29600
31	2500	25	169	---	---	---	24000	838	54300
TOTAL	189320	---	40543	254760	---	192005	525040	---	183539



## 03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	23700	360	23000	3930	51	541	9020	113	2750
2	25000	252	17000	4930	68	905	7710	77	1600
3	26200	157	11100	9760	102	2690	7090	86	1650
4	26100	120	8460	11900	147	4720	6540	89	1570
5	24600	102	6770	9500	83	2130	6520	72	1270
6	22600	103	6290	7740	52	1090	5860	70	1110
7	21300	96	5520	6590	50	890	5340	72	1040
8	20500	96	5310	5850	35	553	4780	88	1140
9	17900	74	3580	5350	26	376	3980	80	860
10	15900	75	3220	4920	24	319	3670	90	892
11	14900	83	3340	4470	24	290	3580	69	667
12	14000	64	2420	4170	22	248	4610	95	1180
13	13000	91	3190	3910	20	211	9970	142	3820
14	12100	72	2350	3940	19	202	11200	225	6800
15	10900	78	2300	4290	21	243	10300	203	5650
16	10200	70	1930	5370	54	783	8930	110	2650
17	9430	75	1910	6870	48	890	7640	107	2210
18	8350	52	1170	6830	42	775	6640	87	1560
19	7530	38	773	6550	42	743	5890	86	1370
20	6900	60	1120	5960	33	531	5350	94	1360
21	6430	64	1110	5380	28	407	4990	83	1120
22	6040	59	962	4730	25	319	4560	101	1240
23	5700	61	939	4380	29	343	4530	84	1030
24	5420	52	761	4210	26	296	4310	108	1260
25	5250	72	1020	3840	24	249	4450	70	841
26	4950	57	762	3540	26	249	4060	90	987
27	4830	60	782	3320	26	233	3640	31	305
28	4610	55	685	3270	28	247	3310	32	286
29	4450	58	697	4820	61	794	3080	38	316
30	4190	50	566	8770	68	1610	2910	34	267
31	---	---	---	9960	170	4570	---	---	---
TOTAL	382980	---	119037	179050	---	28447	174460	---	48801
JULY			AUGUST			SEPTEMBER			
1	2800	34	257	1700	36	165	3000	62	502
2	2720	32	235	1700	64	294	3500	80	756
3	2750	32	238	1600	50	216	2500	101	682
4	2900	30	235	1600	55	238	1900	65	333
5	3240	30	262	1500	38	154	1560	64	270
6	3570	28	270	1500	47	190	1360	74	272
7	3510	26	246	1500	71	288	1260	91	310
8	3740	25	252	1800	92	447	1170	76	240
9	4040	20	218	2300	46	286	1120	99	299
10	3630	39	382	2000	72	389	1070	86	248
11	3300	32	285	1800	68	330	1020	96	264
12	3490	37	349	1600	64	276	1010	84	229
13	3580	20	193	1500	48	194	1010	76	207
14	3470	30	281	1400	31	117	966	84	219
15	3000	132	1070	1700	20	92	938	84	213
16	2900	60	470	1900	30	154	903	82	200
17	2800	61	461	2700	95	693	885	76	182
18	2600	67	470	4400	100	1190	876	77	182
19	2500	73	493	3500	86	813	754	72	147
20	2300	82	509	2800	81	612	873	79	186
21	2500	72	486	2600	94	660	826	80	178
22	3200	56	484	2300	89	553	822	80	178
23	2900	72	564	2100	64	363	828	75	168
24	2500	40	270	1900	76	390	848	79	181
25	2300	50	310	1800	54	262	826	78	174
26	2200	41	244	1700	44	202	847	57	130
27	2200	43	255	1800	102	496	943	86	219
28	2300	49	304	2100	109	618	850	55	126
29	2200	68	404	1800	68	330	692	88	164
30	2000	54	292	1700	84	386	882	65	155
31	1800	66	321	1800	58	282	---	---	---
TOTAL	88940	---	11110	62100	---	11680	36039	---	7614
YEAR	2395059		726422						

## HOCKING RIVER BASIN

03157000 CLEAR CREEK NEAR ROCKBRIDGE, OH

LOCATION.--Lat 39°35'18", long 82°34'43", in NE 1/4 sec. 20, T.13 N., R.18 W., Hocking County, Hydrologic Unit 05030204, on left bank at upstream side of county road bridge, 400 ft downstream from unnamed right bank tributary, 2.0 mi upstream from mouth, and 3 mi west of Rockbridge.

DRAINAGE AREA.--89.0 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1305: 1940(M), 1943(M), 1945(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 760.13 ft above National Geodetic Vertical Datum of 1929. Prior to May 2, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 20 and Mar. 29 to Apr. 23. Records good except for periods of estimated record which are fair. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--46 years, 89.3 ft<sup>3</sup>/s, 13.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft<sup>3</sup>/s July 22, 1948, gage height, 17.68 ft (from high-water mark in well), from rating curve extended above 4,300 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum, 3.0 ft<sup>3</sup>/s Dec. 29, 1947, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft<sup>3</sup>/s and maximum (\*);

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	0115	*2,010	* 8.08	No other peak greater than base discharge.			
Minimum discharge, 14 ft <sup>3</sup> /s Sept. 21, 22.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	30	63	114	29	138	1100	62	38	22	25	19
2	24	68	53	104	29	121	700	530	34	26	23	18
3	21	42	52	83	28	103	500	393	33	40	21	18
4	19	34	44	77	28	101	360	184	31	27	20	17
5	19	50	42	69	28	166	250	135	31	27	20	17
6	19	38	48	61	28	108	250	109	33	101	21	17
7	19	30	154	61	28	96	300	91	31	42	66	16
8	25	28	147	57	28	119	370	78	31	87	35	16
9	31	34	114	48	28	108	300	68	30	32	23	17
10	21	175	182	45	28	94	240	63	28	29	21	18
11	20	138	209	43	28	166	200	59	29	25	20	16
12	19	78	129	42	35	411	170	61	79	23	19	15
13	19	58	134	40	54	197	150	62	45	22	19	15
14	19	47	170	39	74	154	140	53	35	21	18	15
15	19	44	131	37	80	124	130	73	32	799	72	15
16	21	44	101	36	82	108	130	74	32	362	92	15
17	20	40	84	35	84	100	110	104	31	129	56	15
18	20	44	71	35	88	88	100	92	33	77	31	15
19	20	50	70	34	94	82	92	130	30	53	25	15
20	19	51	77	33	100	78	84	84	29	41	23	15
21	20	46	96	32	157	70	78	67	26	38	22	15
22	34	45	261	32	923	71	72	60	26	114	21	14
23	39	41	123	31	1660	74	60	57	31	53	20	15
24	25	41	94	31	906	70	58	51	26	37	39	16
25	22	38	76	30	460	63	56	47	25	31	62	16
26	26	38	64	30	280	56	51	43	23	28	29	17
27	27	36	62	29	203	57	48	41	23	32	23	19
28	22	60	60	29	159	58	48	48	22	26	21	17
29	42	72	58	29	---	64	43	42	22	25	20	17
30	38	64	158	29	---	300	42	38	21	23	20	16
31	31	---	135	29	---	1600	---	38	---	24	19	---
TOTAL	750	1604	3262	1424	5749	5145	6232	3037	940	2416	946	486
MEAN	24.2	53.5	105	45.9	205	166	208	98.0	31.3	77.9	30.5	16.2
MAX	42	175	261	114	1660	1600	1100	530	79	799	92	19
MIN	19	28	42	29	28	56	42	38	21	21	18	14
CFSM	.27	.60	1.18	.52	2.30	1.87	2.34	1.10	.35	.88	.34	.18
IN.	.31	.67	1.36	.60	2.40	2.15	2.60	1.27	.39	1.01	.40	.20
CAL YR 1984	TOTAL	33300	MEAN	91.0	MAX	1630	MIN	17	CFSM	1.02	IN.	13.89
WTR YR 1985	TOTAL	31991	MEAN	87.6	MAX	1660	MIN	14	CFSM	.98	IN.	13.37

## HOCKING RIVER BASIN

101

03157500 HOCKING RIVER AT ENTERPRISE, OH

LOCATION.--Lat 39°33'54", long 82°28'30", in NW 1/4 sec. 5, T.14 N., R.17 W., Hocking County, Hydrologic Unit 05030204, at right bank at upstream side of bridge at Enterprise, 4.0 mi downstream from Buck Run, and 4.3 mi upstream from Scott Creek.

DRAINAGE AREA.--459 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1930 to current year. Prior to May 1931 monthly discharge only, published in WSP 1305

REVISED RECORDS.--WSP 873: 1938. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 723.58 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 24, 1933, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 20. Records good, except for periods of estimated record, which are fair. Flood flow affected by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft constructed between 1955 and 1961 upstream from station. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--55 years, 460 ft<sup>3</sup>/s, 13.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,000 ft<sup>3</sup>/s Mar. 10, 1964, gage height, 21.31 ft, from rating curve extended above 17,000 ft<sup>3</sup>/s on basis of contracted-opening and slope-area measurement of peak flow; minimum daily, 23 ft<sup>3</sup>/s Aug. 12, 13, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1907, reached a stage of 22.0 ft, from floodmark, discharge, 36,000 ft<sup>3</sup>/s, from reports of U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 3,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0330	*8690	*14.88	Jul. 15	2030	4350	10.36
Mar. 31	0830	8430	14.68				

Minimum daily discharge, 60 ft<sup>3</sup>/s Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	106	92	166	505	140	945	4870	235	168	88	144	93	
2	95	240	149	533	140	783	2200	1460	153	99	152	88	
3	76	207	146	405	140	636	1540	2360	148	141	119	89	
4	66	145	137	359	140	581	1240	1050	142	115	107	84	
5	65	191	127	323	140	886	1060	681	139	107	103	81	
6	60	176	111	274	140	663	1270	512	139	262	103	79	
7	61	132	140	263	140	565	1270	416	134	167	148	78	
8	84	113	172	257	140	664	1700	346	134	194	199	76	
9	121	123	151	201	140	650	1260	302	134	120	132	75	
10	95	489	311	186	140	554	976	273	125	108	110	77	
11	76	539	1040	200	140	731	860	255	123	98	101	73	
12	70	299	657	190	200	2110	750	242	242	90	97	70	
13	69	209	564	180	270	1320	656	252	207	85	93	69	
14	67	165	789	170	400	962	599	224	155	81	89	68	
15	68	149	648	170	520	747	546	343	137	2740	176	67	
16	88	144	461	160	540	631	546	453	135	1960	517	67	
17	76	132	389	160	540	562	470	593	129	681	544	68	
18	84	125	318	160	520	484	411	460	140	383	248	66	
19	72	147	295	150	480	434	380	632	134	265	165	64	
20	68	159	331	150	430	405	354	413	125	206	136	65	
21	71	148	342	150	457	362	329	321	114	182	124	63	
22	123	130	1010	150	2100	357	313	289	111	1050	113	63	
23	179	122	608	150	7150	399	292	263	224	536	104	61	
24	126	117	424	150	7940	387	277	238	160	309	155	67	
25	95	114	351	140	5130	354	266	214	125	224	370	66	
26	102	111	277	140	2320	314	246	195	110	186	188	67	
27	106	109	264	140	1600	307	231	181	102	233	142	79	
28	95	153	261	140	1160	306	223	211	97	172	120	70	
29	122	221	243	140	---	331	207	203	93	143	109	65	
30	123	177	513	140	---	5090	197	181	89	137	102	63	
31	104	---	671	140	---	7950	---	174	---	130	99	---	
TOTAL	2813	5378	12066	6576	33297	31470	25539	13972	4168	11292	5109	2161	
MEAN	90.7	179	389	212	1189	1015	851	451	139	364	165	72.0	
MAX	179	539	1040	533	7940	7950	4870	2360	242	2740	544	93	
MIN	60	92	111	140	140	306	197	174	89	81	89	61	
CFSM	.20	.39	.85	.46	2.59	2.21	1.85	.98	.30	.79	.36	.16	
IN.	.23	.44	.98	.53	2.70	2.55	2.07	1.13	.34	.92	.41	.18	
CAL YR 1984	TOTAL	166008		MEAN	454	MAX	5610	MIN	45	CFSM	.99	IN.	13.43
WTR YR 1985	TOTAL	153841		MEAN	421	MAX	7950	MIN	60	CFSM	.92	IN.	12.47

## HOCKING RIVER BASIN

03159510 HOCKING RIVER BELOW ATHENS, OH

## NATIONAL STREAM-QUALITY ACCOUNTING NETWORK STATION

LOCATION.--Lat 39°19'39", long 82°00'18", Athens County, Hydrologic Unit 05030204, at downstream side of Harmony Lane Bridge, 3.5 mi east of Athens, 1.1 mi downstream from Strouds Run, and 2.8 mi upstream from Scott Creek.

DRAINAGE AREA.--957 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 17, 1931, nonrecording gage at site 5.3 mi upstream at datum 11.26 ft higher, Aug. 18, 1931 to June 18, 1970, at datum 14.81 ft higher, and Oct. 1, 1971 to Sept. 30, 1976, at datum 11.26 ft higher.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 20. Records good except for estimated daily discharges, which are fair. Some regulation by Burr Oak Reservoir on East Branch Sunday Creek 34.3 mi upstream beginning 1952; by Hocking Lake, capacity 3,080 acre-ft, on Clear Fork 44.7 mi upstream beginning in 1949; by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft, constructed between 1955 and 1961 upstream from Lancaster, and Dow Lake capacity 1,884 acre-ft, on Strouds Run, 1.1 mi upstream.

AVERAGE DISCHARGE.--9 years, 1,130 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,600 ft<sup>3</sup>/s Feb. 27, 1979, gage height, 25.45 ft; minimum daily, 71 ft<sup>3</sup>/s Sept. 23, 1984.

EXTREMES OUTSIDE PERIOD RECORD.--Flood of Mar. 11, 1964 reached a stage of 24.18 ft at site and datum then in use, discharge, 32,900 ft<sup>3</sup>/s. Flood in March 1907 reached a stage of 27 ft, site and datum then in use, discharge 50,000 ft<sup>3</sup>/s, estimated by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,500 ft<sup>3</sup>/s Feb. 25, gage height, 23.67 ft; minimum daily, 72 ft<sup>3</sup>/s Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	157	479	1260	290	2640	11000	369	347	172	196	145
2	106	141	420	1170	290	2320	9050	1120	329	168	190	138
3	128	233	366	1050	290	1610	4410	4530	299	173	206	132
4	113	291	394	861	280	1320	3210	2920	284	193	183	126
5	97	226	382	795	280	1250	2540	1590	268	194	168	124
6	87	250	303	722	280	1410	2370	1160	256	270	159	118
7	83	254	254	645	280	1170	2710	1010	251	320	156	116
8	83	201	245	619	280	1100	3620	807	246	272	162	109
9	90	229	287	572	280	1190	3520	668	241	253	295	107
10	118	431	518	473	280	1120	2430	585	238	222	210	103
11	133	1260	1610	420	280	1170	1960	527	229	208	174	99
12	108	939	1730	380	400	4260	1750	493	273	184	159	96
13	95	568	1220	350	580	4560	1520	490	354	169	149	90
14	89	397	1150	350	800	2750	1360	471	332	157	142	87
15	90	313	1320	340	1150	1980	1220	516	268	342	142	84
16	91	270	1090	340	1100	1520	1120	1660	242	3550	189	83
17	92	247	876	330	1050	1310	1110	2200	232	1720	648	81
18	103	232	772	330	980	1170	965	1790	227	873	598	80
19	98	271	715	320	940	1030	909	1770	232	524	339	79
20	98	358	785	320	1320	937	832	1440	229	393	251	77
21	92	377	887	310	1500	853	754	968	215	372	204	74
22	111	334	2110	310	2920	793	705	761	206	323	183	72
23	186	292	1960	310	7990	864	648	672	208	1040	171	74
24	248	268	1260	300	11700	905	592	595	272	610	162	88
25	195	241	1030	300	14300	843	552	525	261	412	203	73
26	151	228	796	300	9630	764	509	464	213	332	388	76
27	142	222	657	300	4520	706	461	424	192	280	259	78
28	155	295	596	300	3230	688	448	407	182	299	203	80
29	164	484	555	290	---	697	421	417	175	259	175	84
30	159	518	580	290	---	4210	389	392	171	221	163	79
31	170	---	1190	290	---	9290	---	357	---	203	154	---
TOTAL	3772	10527	26537	14947	67220	56430	63085	32098	7472	14708	6981	2852
MEAN	122	351	856	482	2401	1820	2103	1035	249	474	225	95.1
MAX	248	1260	2110	1260	14300	9290	11000	4530	354	3550	648	145
MIN	83	141	245	290	280	688	389	357	171	157	142	72
CAL YR 1984	TOTAL	363968		MEAN	994	MAX	9190	MIN	71			
WTR YR 1985	TOTAL	306629		MEAN	840	MAX	14300	MIN	72			



HOCKING RIVER BASIN  
03159510 HOCKING RIVER BELOW ATHENS, OH  
WATER-QUALITY RECORDS

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PERIOD OF RECORD.--Water years 1966 to current year.

REMARKS.--Water-quality monitor data collected at this site 1966 to 1980. Daily sediment data collected 1978-1982.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 1984									
05...	12:30	372	620	7.3	1.0	3.0	6.0	13.0	98
MAR 1985									
05...	14:30	1210	560	7.3	1.5	8.0	25	11.5	100
JUN									
05...	09:00	269	820	7.6	21.5	20.0	3.0	8.7	98
AUG									
14...	11:00	140	850	7.6	30.5	25.5	27	6.7	83

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 1984									
05...	550	70	57	20	31	2.3	76	140	52
MAR 1985									
05...	2000	270	57	20	23	2.1	80	120	44
JUN									
05...	480	320	74	27	43	3.0	116	200	67
AUG									
14...	350	86	67	24	40	5.4	--	--	64

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
DEC 1984									
05...	0.2	6.4	357	0.93	0.12	0.5	0.05	<0.01	40.01
MAR 1985									
05...	0.2	9.1	342	--	--	0.6	0.10	0.03	--
JUN									
05...	0.3	8.1	567	1.60	0.06	0.6	0.03	0.02	0.02
AUG									
14...	0.5	6.6	401	2.50	0.13	1.1	0.75	0.69	0.64

## HOCKING RIVER BASIN

03159510 HOCKING RIVER BELOW ATHENS, OH--Continued

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
DEC 1984											
05...	12:30	372	20	<1	43	<0.5	<1	1	5	11	24
MAR 1985											
05...	14:30	1210	20	1	57	<0.5	<1	<1	<3	2	6
JUN											
05...	09:00	269	<10	1	61	1	2	4	<3	5	11
AUG											
14...	11:00	140	40	5	77	<0.5	<1	<1	<3	20	48

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 1984											
05...	2	14	630	0.1	<10	12	<1	<1	360	<6	8
MAR 1985											
05...	<1	13	500	0.2	<10	12	<1	<1	300	<6	5
JUN											
05...	1	23	150	0.5	<10	2	<1	<1	400	<6	17
AUG											
14...	<1	8	15	0.5	--	1	<1	<1	290	<6	7

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
DEC 1984					
05...	12:30	372	3.0	10	10
MAR 1985					
05...	14:30	1210	8.0	60	196
JUN					
05...	09:00	269	20.0	14	10
AUG					
14...	11:00	140	25.5	13	4.9

## SHADE RIVER BASIN

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03159534 WEST BRANCH SHADE RIVER NEAR BURLINGHAM, OH

LOCATION.--Lat 39°10'14", long 82°03'04", Meigs County, Hydrologic Unit 05030202, on right bank at downstream side of bridge on S.R. 681, 1.6 mi west of Burlingham, 9.6 mi upstream from Langsbury Creek, and 11.4 mi south-southeast of Athens.

DRAINAGE AREA.--22.2 mi<sup>2</sup>.

## WATER-DISCHARGE RECORD

PERIOD OF RECORD.--June 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 680 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-15, Jan. 4 to Feb. 21, Apr. 24 to May 6, July 29 to Sept. 30. Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 798 ft<sup>3</sup>/s Mar. 31, 1985, gage height, 9.99 ft; minimum daily discharge, no flow many days in 1983-1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 22	0145	416	8.01	Mar. 30	0600	434	7.51
Feb. 23	0245	514	8.77	Mar. 31	0130	*798	*9.99
Mar. 12	1045	627	8.90				

Minimum daily discharge, no flow for many days in Oct, Jul, Aug, and Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	4.1	35	51	6.4	50	188	4.5	4.5	2.5	.00	1.5
2	.00	2.7	21	45	6.4	48	112	100	3.5	3.0	.00	.84
3	.00	1.9	18	36	6.4	40	90	170	3.2	4.8	.00	.60
4	.00	4.2	14	32	6.4	42	73	110	3.0	3.1	.00	.37
5	.00	7.5	13	27	6.4	58	63	60	3.1	3.1	.00	.28
6	.00	3.8	14	24	6.4	39	80	35	3.1	3.1	.00	.22
7	.00	2.4	17	21	6.4	38	85	20	4.0	2.8	.00	.15
8	.00	1.8	14	19	6.4	53	96	14	4.4	1.8	.00	.10
9	.00	33	17	17	6.4	50	73	11	3.1	1.8	.00	.06
10	.00	87	82	15	6.4	47	57	9.2	2.6	1.8	.00	.04
11	.00	78	70	14	11	146	53	7.8	4.3	2.1	.00	.02
12	.00	21	32	13	19	440	46	9.6	13	1.8	.00	.01
13	.00	13	24	12	30	143	41	12	5.1	1.7	.00	.00
14	.00	9.8	22	11	48	118	39	7.5	3.1	1.7	.00	.00
15	.00	9.2	21	11	42	86	35	81	2.8	13	.00	.00
16	.13	8.5	18	10	40	77	29	156	2.7	2.8	.00	.00
17	.06	6.0	16	9.6	40	62	23	148	2.3	1.4	.00	.00
18	.06	23	16	9.2	40	47	19	78	2.3	.81	.00	.00
19	.05	83	22	8.8	40	38	16	82	2.6	.65	.00	.00
20	.05	39	26	8.4	40	35	15	38	3.1	.64	.00	.00
21	.25	20	154	8.1	100	29	13	22	2.4	35	.00	.00
22	5.8	17	225	7.8	316	42	12	15	2.4	6.3	.00	.00
23	3.2	14	74	7.6	469	71	10	21	3.1	2.9	.05	.00
24	1.7	11	55	7.4	257	61	11	15	2.3	1.9	.50	.00
25	.90	8.8	65	7.2	125	52	9.4	10	2.2	1.3	14	.00
26	.66	7.2	45	7.0	88	45	8.2	7.5	2.1	8.9	4.5	.00
27	.42	6.4	43	6.8	71	39	7.4	13	2.1	5.4	1.5	.00
28	2.6	34	36	6.7	54	32	6.4	12	1.9	3.1	.88	.00
29	22	29	33	6.6	---	34	5.6	11	1.9	.30	.64	.00
30	8.0	21	53	6.5	---	370	5.0	7.5	1.8	.02	.70	.00
31	4.5	---	58	6.4	---	536	---	5.2	---	.00	3.0	---
TOTAL	50.38	607.3	1353	472.1	1894.0	2968	1321.0	1292.8	98.0	119.52	25.77	4.19
MEAN	1.63	20.2	43.6	15.2	67.6	95.7	44.0	41.7	3.27	3.86	.83	.14
MAX	22	87	225	51	469	536	188	170	13	35	14	1.5
MIN	.00	1.8	13	6.4	6.4	29	5.0	4.5	1.8	.00	.00	.00
CFSM	.07	.91	1.96	.68	3.05	4.31	1.98	1.88	.15	.17	.04	.01
IN.	.08	1.02	2.27	.79	3.17	4.97	2.21	2.17	.16	.20	.04	.01
CAL YR 1984	TOTAL	7851.72	MEAN	21.5	MAX	277	MIN	.00	CFSM	0.97	IN.	13.16
WTR YR 1985	TOTAL	10206.06	MEAN	28.0	MAX	536	MIN	.00	CFSM	1.26	IN.	17.10

## SHADE RIVER BASIN

03159534 WEST BRANCH SHADE RIVER NEAR BURLINGHAM, OH--Continued

## WATER-QUALITY RECORDS

## PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: June 1983 to current year.

INSTRUMENTATION.--Sediment-pumping sampler since June 1983.

REMARKS.--In addition to the sediment-pumping sampler, sediment samples were collected by a local observer on a daily basis.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,770 mg/L Aug. 11, 1984; minimum daily mean no flow many days.

SEDIMENT LOADS: Maximum daily 167,000 tons Aug. 11, 1980; minimum daily, no flow many days.

## EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,770 mg/L Nov. 11; minimum daily mean, no flow many days.

SEDIMENT LOADS: Maximum daily, 381 tons Nov. 11; minimum daily, no flow many days.

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUC- TANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	ALKA- LINITY FIELD (MG/L AS CAO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)
JAN , 1985									
09...	1630	13	380	6.4	<7.5	.0	20	150	1200
JUN									
03...	1300	2.8	420	6.7	30.0	24.5	41	170	700
		ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN , 1985									
09...	--	200	1400	--	410	2000	--	1800	
JUN									
03...	0	700	760	700	60	1900	0	1900	



## SHADE RIVER BASIN

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03159534 WEST BRANCH SHADE RIVER NEAR BURLINGHAM, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.00	0	.00	4.2	19	.22	35	68	6.4
2	.00	0	.00	2.7	14	.10	21	30	1.7
3	.00	0	.00	1.9	17	.09	18	25	1.2
4	.00	0	.00	4.2	32	.42	14	20	.76
5	.00	0	.00	7.5	54	.91	13	15	.53
6	.00	0	.00	3.8	23	.24	14	12	.45
7	.00	0	.00	2.4	19	.12	17	71	4.1
8	.00	0	.00	1.9	15	.08	14	27	1.0
9	.00	0	.00	33	747	135	17	17	.78
10	.00	0	.00	87	906	234	82	194	67
11	.00	0	.00	78	1770	381	70	200	38
12	.00	0	.00	21	440	25	32	68	5.9
13	.00	0	.00	13	52	1.8	24	41	2.7
14	.00	0	.00	9.8	28	.74	22	30	1.8
15	.00	0	.00	9.2	19	.47	21	24	1.4
16	.13	4	.00	8.5	17	.39	18	20	.97
17	.06	5	.00	6.0	17	.28	16	19	.82
18	.06	5	.00	23	856	118	16	17	.73
19	.05	5	.00	83	1650	370	22	51	3.5
20	.05	3	.00	39	500	53	26	33	2.3
21	.25	2	.00	20	48	2.6	154	448	367
22	5.8	62	1.7	17	34	1.6	225	983	793
23	3.2	45	.39	14	29	1.1	74	148	30
24	1.7	25	.11	11	8	.24	55	99	20
25	.90	18	.04	8.8	6	.14	65	96	16
26	.66	12	.02	7.2	6	.12	45	31	3.8
27	.42	8	.00	6.5	6	.11	43	19	2.2
28	2.6	30	.61	34	230	34	36	15	1.5
29	22	604	54	29	200	16	33	14	1.2
30	8.0	179	4.3	21	67	5.5	53	20	2.4
31	4.5	65	.79	---	---	---	58	66	10
TOTAL	50.38	---	61.96	607.6	---	1383.27	1353	---	1389.14
JANUARY			FEBRUARY			MARCH			
1	51	42	5.4	6.4	8	.14	50	46	6.2
2	45	28	3.4	6.4	8	.14	48	39	5.1
3	36	17	1.7	6.4	7	.12	40	37	4.0
4	32	24	3.0	6.4	7	.12	42	36	4.1
5	27	45	3.3	6.4	6	.10	58	84	13
6	24	30	1.9	6.4	6	.10	39	53	5.6
7	21	26	1.5	6.4	6	.10	38	45	4.6
8	19	25	1.3	6.4	5	.09	53	51	7.3
9	17	77	9.6	6.4	5	.09	50	40	5.4
10	15	28	1.1	6.4	4	.07	47	36	4.6
11	14	16	.60	11	4	.12	146	130	79
12	13	13	.46	19	125	6.4	440	381	482
13	12	12	.39	30	255	21	143	150	58
14	11	12	.36	48	155	20	118	73	23
15	11	11	.33	42	128	15	86	39	9.1
16	10	11	.30	40	111	12	77	37	7.7
17	9.6	11	.29	40	98	11	62	36	6.0
18	9.2	10	.25	40	91	9.8	47	35	4.4
19	8.8	10	.24	40	84	9.1	38	37	3.8
20	8.4	9	.20	40	82	8.9	35	39	3.7
21	8.1	9	.20	100	205	90	29	38	3.0
22	7.8	9	.19	316	655	650	42	37	4.2
23	7.6	9	.18	469	551	697	71	70	13
24	7.4	9	.18	257	330	229	61	42	6.9
25	7.2	8	.16	125	160	54	52	35	4.9
26	7.0	8	.15	88	95	23	45	30	3.6
27	6.8	8	.15	71	74	14	39	28	2.9
28	6.7	8	.14	54	60	8.7	32	23	2.0
29	6.6	8	.14	---	---	---	34	19	1.7
30	6.5	8	.14	---	---	---	370	1130	1370
31	6.4	8	.14	---	---	---	536	850	1420
TOTAL	472.1	---	37.39	1894.0	---	1880.09	2968	---	3568.8

## SHADE RIVER BASIN

03159534 WEST BRANCH SHADE RIVER NEAR BURLINGHAM, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	188	280	142	4.5	80	.97	4.5	45	.55
2	112	105	32	100	1070	289	3.5	45	.43
3	90	77	19	170	290	133	3.3	44	.39
4	73	76	15	110	80	24	3.0	43	.35
5	63	76	13	60	41	6.6	3.1	42	.35
6	80	136	29	35	40	3.8	3.1	42	.35
7	85	175	40	20	39	2.1	4.0	41	.44
8	96	80	21	14	37	1.4	4.4	39	.46
9	73	46	9.1	11	36	1.1	3.1	36	.30
10	57	34	5.2	9.2	35	.87	2.6	34	.24
11	53	34	4.9	7.8	34	.72	4.3	48	.75
12	46	33	4.1	9.6	43	1.1	13	72	2.9
13	41	35	3.9	12	51	1.7	5.1	49	.67
14	39	34	3.6	7.5	25	.51	3.1	47	.39
15	35	34	3.2	81	380	151	2.8	46	.35
16	29	33	2.6	156	360	152	2.7	45	.33
17	23	33	2.0	148	230	92	2.3	45	.28
18	19	32	1.6	78	498	144	2.3	44	.27
19	16	32	1.4	82	700	155	2.6	43	.30
20	15	31	1.3	38	260	27	3.1	41	.34
21	13	31	1.1	22	148	8.8	2.4	40	.26
22	12	30	.97	15	95	3.8	2.4	39	.25
23	10	30	.81	21	70	4.0	3.1	38	.32
24	11	28	.83	15	45	1.8	2.3	37	.23
25	9.4	28	.71	10	46	1.2	2.2	34	.20
26	8.2	28	.62	7.5	44	.89	2.1	32	.18
27	7.4	29	.58	13	101	4.5	2.1	31	.18
28	6.4	28	.48	12	78	2.5	1.9	30	.15
29	5.6	27	.41	11	56	1.7	1.9	27	.14
30	5.0	26	.35	7.5	50	1.0	1.8	25	.12
31	---	---	---	5.2	46	.65	---	---	---
TOTAL	1321.0	---	360.76	1292.8	---	1218.71	98.1	---	12.47
JULY			AUGUST			SEPTEMBER			
1	2.5	24	.16	.00	0	.00	1.5	17	.07
2	3.0	23	.19	.00	0	.00	.84	17	.04
3	4.8	40	.52	.00	0	.00	.60	15	.02
4	3.1	26	.22	.00	0	.00	.37	15	.01
5	3.1	25	.21	.00	0	.00	.28	12	.00
6	3.1	25	.21	.00	0	.00	.22	11	.00
7	2.8	24	.18	.00	0	.00	.15	8	.00
8	1.8	22	.11	.00	0	.00	.10	7	.00
9	1.8	22	.11	.00	0	.00	.06	5	.00
10	1.8	21	.10	.00	0	.00	.04	2	.00
11	2.1	20	.11	.00	0	.00	.02	0	.00
12	1.8	19	.09	.00	0	.00	.01	0	.00
13	1.7	18	.08	.00	0	.00	.00	0	.00
14	1.7	18	.08	.00	0	.00	.00	0	.00
15	13	55	1.4	.00	0	.00	.00	0	.00
16	2.8	27	.20	.00	0	.00	.00	0	.00
17	1.4	24	.09	.00	0	.00	.00	0	.00
18	.81	21	.05	.00	0	.00	.00	0	.00
19	.65	21	.04	.00	0	.00	.00	0	.00
20	.64	20	.03	.00	0	.00	.00	0	.00
21	35	374	35	.00	0	.00	.00	0	.00
22	6.3	115	2.0	.00	0	.00	.00	0	.00
23	2.9	68	.53	.05	25	.00	.00	0	.00
24	1.9	60	.31	.50	30	.04	.00	0	.00
25	1.3	49	.17	14	63	2.4	.00	0	.00
26	8.9	95	2.3	4.5	35	.43	.00	0	.00
27	5.4	110	1.6	1.5	20	.08	.00	0	.00
28	3.1	32	.27	.88	18	.04	.00	0	.00
29	.30	9	.00	.64	14	.02	.00	0	.00
30	.02	0	.00	.70	9	.02	.00	0	.00
31	.00	0	.00	3.0	35	.28	---	---	---
TOTAL	119.52	---	46.36	25.77	---	3.31	4.19	---	0.14
YEAR	10206.46		9962.40						

## SHADE RIVER BASIN

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03159540 SHADE RIVER NEAR CHESTER, OH

LOCATION.--Lat 39°03'49", long 81°52'55", in NE 1/4 sec. 10, T.3N., R.12 W., Meigs County, Hydrologic Unit 05030202, on right bank at downstream side of bridge on Oak Hill Road, 200 ft upstream from Sugar Run, 2.8 mi southeast of Chester, and 8.5 mi northeast of Pomeroy.

DRAINAGE AREA.--156 mi<sup>2</sup>, includes that of Sugar Run.

PERIOD OF RECORD.--Water years 1956, 1962-64 (Occasional low-flow measurements), June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 576.91 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 20. Records fair. Water-quality data collected at this site 1965-77, 1979-81. Sediment data collected 1970-74.

AVERAGE DISCHARGE.--20 years, 171 ft<sup>3</sup>/s, 14.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,170 ft<sup>3</sup>/s May 25, 1968, gage height, 27.39 ft; minimum, 0.30 ft<sup>3</sup>/s Sept. 7-10, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	2200	2,750	17.75	Mar. 31	1930	*2,890	*17.88

Minimum discharge, 0.59 ft<sup>3</sup>/s Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	1.6	27	143	254	46	165	1710	34	33	4.4	18	11	
2	2.1	16	144	241	46	147	477	321	27	10	9.5	8.0	
3	1.8	12	104	164	45	125	304	1770	22	32	7.3	5.3	
4	1.5	13	83	141	45	113	218	405	19	29	4.6	3.9	
5	1.2	36	67	180	45	116	171	168	19	15	3.5	3.1	
6	1.1	52	71	157	45	118	152	113	20	9.0	3.1	2.3	
7	.91	37	63	136	44	101	165	89	19	7.3	2.7	1.9	
8	.90	22	65	137	44	98	244	71	28	9.3	2.6	1.5	
9	1.1	138	69	113	44	113	213	60	30	8.7	2.5	1.3	
10	1.0	484	302	91	44	108	159	53	23	16	2.4	1.3	
11	.90	692	634	82	43	308	138	47	18	16	2.3	1.3	
12	.87	261	267	76	94	2110	125	44	47	13	2.3	1.2	
13	.74	107	163	72	160	1170	109	51	52	9.3	2.4	1.2	
14	.82	69	129	66	290	401	103	49	33	6.7	1.9	1.7	
15	.85	53	128	62	240	281	98	179	20	28	1.9	1.4	
16	1.1	50	115	60	230	198	101	975	15	52	5.7	1.1	
17	1.1	44	97	56	230	163	112	803	13	23	5.3	1.2	
18	1.3	88	85	54	240	133	84	350	12	9.9	7.3	1.2	
19	2.1	630	95	52	280	112	75	386	11	6.5	6.7	.92	
20	1.7	333	172	50	400	104	69	200	11	4.8	4.8	.68	
21	1.5	153	631	49	610	93	64	115	11	86	3.7	.84	
22	4.8	92	1950	48	1290	92	60	85	9.4	97	2.7	.90	
23	19	69	551	48	2460	194	56	77	9.6	35	2.2	.96	
24	35	60	256	48	2190	197	51	77	13	15	1.8	1.7	
25	16	52	275	48	801	161	52	64	11	9.3	30	1.8	
26	8.0	46	198	47	398	126	48	53	8.4	8.2	183	1.8	
27	4.1	42	149	47	280	109	43	46	6.5	14	41	1.8	
28	21	140	130	47	199	104	42	57	5.4	18	17	1.6	
29	82	273	114	47	---	99	44	56	4.7	8.2	9.6	1.5	
30	117	141	176	47	---	891	38	47	4.3	5.9	7.0	1.3	
31	57	---	287	47	---	2690	---	38	---	5.1	6.9	---	
TOTAL	390.09	4232	7713	2767	10883	10940	5325	6883	555.3	611.6	401.7	65.70	
MEAN	12.6	141	249	89.3	389	353	178	222	18.5	19.7	13.0	2.19	
MAX	117	692	1950	254	2460	2690	1710	1770	52	97	183	11	
MIN	.74	12	63	47	43	92	38	34	4.3	4.4	1.8	.68	
CFSM	.08	.90	1.60	.57	2.49	2.26	1.14	1.42	.12	.13	.08	.01	
IN.	.09	1.01	1.84	.66	2.60	2.61	1.27	1.64	.13	.15	.10	.02	
CAL YR 1984	TOTAL	49717.9		MEAN	136	MAX	2550	MIN	.74	CFSM	.87	IN.	11.84
WTR YR 1985	TOTAL	50767.39		MEAN	139	MAX	2690	MIN	.68	CFSM	.89	IN.	12.11

## SHADE RIVER BASIN

03159555 EAST BRANCH SHADE RIVER NEAR TUPPERS PLAINS, OH

LOCATION.--Lat 39°08'29", long 81°52'39", Meigs County, Hydrologic Unit 05030202, on right bank at upstream side of bridge on Township Road, 2.1 mi downstream from Meigs Creek, 2.8 mi upstream from Big Run and 2.7 mi southwest of Tuppers Plains.

DRAINAGE AREA.--37.5 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1980 to September 1981, May 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 600 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 5 to Feb. 20, May 7-18. Record good except for estimated records which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1320 ft<sup>3</sup>/s Feb. 2, 1981, gage height, 13.26 ft; minimum daily, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 550 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 22	0200	756	10.90	Mar. 31	0145	*979	*11.99
Feb. 23	0200	826	11.25	May 3	0015	699	10.61
Mar. 12	0615	910	11.66				

Minimum daily discharge, no flow many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	.06	4.5	51	60	9.2	44	216	5.2	5.2	.93	.93	2.4	
2	.13	3.6	39	56	9.2	37	111	227	4.4	1.0	.75	1.4	
3	.14	3.1	31	43	9.2	30	79	286	3.9	2.4	.62	1.0	
4	.16	3.0	23	40	9.2	27	59	66	3.8	2.8	.56	.62	
5	.17	8.4	18	36	9.2	29	47	37	3.8	2.1	.50	.50	
6	.17	10	18	32	9.2	27	43	27	3.8	1.7	.50	.34	
7	.17	7.0	13	29	9.2	24	45	23	3.4	2.4	.46	.34	
8	.17	5.5	13	26	9.2	25	63	18	3.4	2.6	.44	.30	
9	.17	54	15	23	9.2	27	55	15	3.4	1.8	.44	.25	
10	.17	129	122	22	9.2	25	45	13	3.2	1.7	.43	.24	
11	.17	173	125	20	13	145	40	12	3.1	4.4	.41	.21	
12	.17	51	66	19	21	634	34	11	6.6	2.6	.33	.17	
13	.17	25	45	17	23	144	30	12	6.3	1.7	.29	.03	
14	.17	17	35	16	60	101	27	12	4.1	1.3	.26	.00	
15	.18	13	34	15	63	73	25	61	3.1	40	.25	.00	
16	.25	13	31	14	58	56	23	230	2.8	8.4	.25	.00	
17	.25	9.9	26	13	57	48	22	92	2.5	3.6	.46	.00	
18	.25	27	25	12	58	37	18	39	2.2	2.3	.68	.00	
19	.46	135	29	12	60	31	17	47	2.1	1.6	.85	.00	
20	.60	78	46	11	81	29	15	26	2.0	1.3	1.0	.00	
21	.65	37	288	10	158	24	13	18	1.8	11	.72	.00	
22	1.4	24	394	10	453	24	11	15	1.7	9.1	.48	.00	
23	5.8	19	104	9.7	633	48	10	14	1.7	3.6	.62	.00	
24	5.0	16	70	9.6	362	46	8.7	13	2.0	2.2	.82	.00	
25	3.2	13	75	9.4	111	37	8.5	10	2.0	1.6	23	.00	
26	2.6	12	54	9.3	92	30	7.9	8.5	1.6	1.3	8.8	.00	
27	2.0	10	45	9.2	68	28	7.2	7.3	1.3	2.0	2.4	.00	
28	4.2	43	37	9.2	52	26	7.1	9.2	1.1	2.0	1.4	.00	
29	27	66	32	9.2	---	25	6.4	8.7	.94	1.4	1.0	.00	
30	19	36	47	9.2	---	523	5.4	6.7	.94	1.1	1.2	.00	
31	6.9	---	67	9.2	---	632	---	5.7	---	.95	5.0	---	
TOTAL	81.93	1046.0	2018	620.0	2515.0	3036	1099.2	1375.3	88.18	122.88	55.85	7.80	
MEAN	2.64	34.9	65.1	20.0	89.8	97.9	36.6	44.4	2.94	3.96	1.80	.26	
MAX	27	173	394	60	633	634	216	286	6.6	40	23	2.4	
MIN	.06	3.0	13	9.2	9.2	24	5.4	5.2	.94	.93	.25	.00	
CFSM	.07	.93	1.74	.53	2.39	2.61	.98	1.18	.08	.11	.05	.01	
IN.	.08	1.04	2.00	.62	2.49	3.01	1.09	1.36	.09	.12	.06	.01	
CAL YR 1984	TOTAL	11903.85		MEAN	32.5	MAX	414	MIN	.00	CFSM	.87	IN.	11.77
WTR YR 1985	TOTAL	12066.14		MEAN	33.1	MAX	634	MIN	.00	CFSM	.88	IN.	11.97



## SHADE RIVER BASIN

03159555 EAST BRANCH SHADE RIVER NEAR TUPPERS PLAINS, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1980 to September 1981, May 1983 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1980 to September 1981.

pH: December 1980 to September 1981.

WATER TEMPERATURE: April 1980 to September 1981.

SUSPENDED SEDIMENT DISCHARGE: April 1980 to September 1981, May 1983 to current year.

INSTRUMENTATION.--Sediment-pumping sampler.

REMARKS.--Sediment samples were collected by a sediment-pumping sampler. Daily sediment samples collected by a local observer.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,710 mg/L Aug. 11, 1980; minimum daily mean 2 mg/L Jan. 28, 1983.

SEDIMENT LOADS: Maximum daily 167,000 tons Aug. 11, 1980; minimum daily, 0.0 tons many days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 608 mg/L Mar. 30; minimum daily mean, 3 mg/L Oct. 1.

SEDIMENT LOADS: Maximum daily, 977 tons Mar. 12; minimum daily, 0.0 tons many days.

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUC- TANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)
JAN , 1985									
09...	1210	22	325	7.7	<6.0	1.0	74	42	400
JUN									
04...	1000	3.6	420	7.5	16.0	21.0	160	32	1100

DATE	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN , 1985								
09...	--	300	440	--	190	130	--	120
JUN								
04...	400	700	1100	1100	20	300	50	250

## SHADE RIVER BASIN

03159555 EAST BRANCH SHADE RIVER NEAR TUPPERS PLAINS, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.06	3	.00	4.5	32	.39	51	31	4.9
2	.13	14	.00	3.6	28	.27	39	16	1.7
3	.14	14	.00	3.2	22	.19	31	11	.92
4	.16	14	.00	3.0	18	.15	23	9	.56
5	.17	13	.00	8.4	30	.80	18	7	.34
6	.17	13	.00	10	28	.76	18	6	.29
7	.17	12	.00	7.0	18	.34	13	6	.21
8	.17	12	.00	5.5	12	.18	13	6	.21
9	.17	12	.00	54	98	29	15	5	.20
10	.17	11	.00	129	184	66	122	116	64
11	.17	10	.00	173	168	78	125	100	34
12	.17	10	.00	51	45	6.2	66	23	4.1
13	.17	11	.00	25	16	1.1	45	14	1.7
14	.17	11	.00	17	11	.50	35	12	1.1
15	.18	10	.00	13	8	.28	34	12	1.1
16	.25	9	.00	13	7	.25	31	12	1.0
17	.25	9	.00	9.9	9	.24	26	11	.77
18	.25	10	.00	27	45	8.5	25	10	.68
19	.46	14	.02	135	63	23	29	21	2.0
20	.60	17	.03	78	24	5.1	46	115	14
21	.65	16	.03	37	19	1.9	288	417	485
22	1.5	35	.22	24	15	.97	394	130	138
23	5.8	34	.57	19	13	.67	104	70	20
24	5.0	22	.30	16	12	.52	70	53	10
25	3.2	20	.17	13	11	.39	75	38	7.7
26	2.6	19	.13	12	11	.36	54	25	3.6
27	2.0	21	.11	10	9	.24	45	17	2.1
28	4.2	31	.47	43	38	7.9	37	14	1.4
29	27	75	8.2	66	45	8.0	32	11	.95
30	19	65	3.3	36	17	1.7	47	64	11
31	6.9	38	.71	---	---	---	67	420	76
TOTAL	82.03	---	14.26	1046.1	---	243.90	2018	---	889.53
JANUARY			FEBRUARY			MARCH			
1	60	290	47	9.2	49	14	44	16	1.9
2	56	190	29	9.2	17	.42	37	13	1.3
3	43	109	13	9.2	11	.27	30	11	.89
4	40	70	7.6	9.2	8	.20	27	10	.73
5	36	60	5.8	9.2	8	.20	29	60	4.7
6	32	57	4.9	9.2	8	.20	27	18	1.3
7	29	54	4.2	9.2	8	.20	24	17	1.1
8	26	56	3.9	9.2	7	.17	25	17	1.1
9	23	56	3.5	9.2	7	.17	27	17	1.2
10	22	55	3.3	9.2	7	.17	25	17	1.1
11	20	55	3.0	13	8	.28	145	248	217
12	19	54	2.8	21	80	81	634	500	977
13	17	115	5.3	23	55	3.4	144	85	33
14	16	115	5.0	60	31	5.0	101	41	11
15	15	100	4.1	63	24	4.1	73	28	5.5
16	14	94	3.6	58	19	3.0	56	23	3.5
17	13	92	3.2	57	15	2.3	48	22	2.9
18	12	90	2.9	58	15	2.3	37	20	2.0
19	12	88	2.9	60	28	7.1	31	18	1.5
20	11	86	2.6	81	81	25	29	17	1.3
21	10	84	2.3	158	159	82	24	17	1.1
22	10	81	2.2	453	470	679	24	16	1.0
23	9.7	80	2.1	633	320	583	48	43	5.3
24	9.6	78	2.0	362	160	156	46	9	1.1
25	9.4	76	1.9	111	100	30	37	7	.70
26	9.3	75	1.9	92	55	14	30	6	.49
27	9.2	74	1.8	68	30	5.5	28	6	.45
28	9.2	67	1.7	52	22	3.1	26	6	.42
29	9.2	57	1.4	---	---	---	25	6	.41
30	9.2	48	1.2	---	---	---	523	608	947
31	9.2	53	8.4	---	---	---	632	236	426
TOTAL	620.0	---	184.5	2515.0	---	1702.08	3036	---	2653.99

## SHADE RIVER BASIN

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03159555 EAST BRANCH SHADE RIVER NEAR TUPPERS PLAINS, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	216	122	77	5.2	17	.24	5.2	45	.63
2	111	40	12	227	232	229	4.4	52	.62
3	79	27	5.8	286	150	139	3.9	52	.55
4	59	21	3.3	66	35	6.2	3.8	52	.53
5	47	19	2.4	37	22	2.2	3.8	52	.53
6	43	16	1.9	27	21	1.5	3.8	47	.48
7	45	50	6.1	23	23	1.4	3.4	45	.41
8	63	60	10	18	23	1.1	3.4	41	.38
9	55	23	3.4	15	22	.89	3.4	38	.35
10	45	13	1.6	13	22	.77	3.2	34	.29
11	40	12	1.3	12	19	.62	3.1	31	.26
12	34	16	1.5	11	16	.48	6.6	70	1.2
13	30	17	1.4	12	18	.58	6.3	75	1.3
14	27	18	1.3	12	24	.78	4.1	61	.68
15	25	19	1.3	61	232	229	3.1	58	.49
16	23	20	1.2	230	150	139	2.8	54	.41
17	22	18	1.1	92	35	8.7	2.5	57	.38
18	18	19	.92	39	29	2.8	2.2	52	.31
19	17	19	.87	47	80	10	2.1	47	.27
20	15	17	.69	26	37	2.6	2.0	44	.24
21	13	17	.60	18	26	1.3	1.8	40	.19
22	11	18	.53	15	32	1.3	1.7	36	.17
23	10	17	.46	14	50	1.9	1.7	36	.17
24	8.7	16	.38	13	56	2.0	2.0	35	.19
25	8.5	15	.34	10	54	1.5	2.0	34	.18
26	7.9	13	.28	8.5	51	1.2	1.6	32	.14
27	7.2	14	.27	7.3	48	.95	1.3	31	.11
28	7.1	16	.31	9.2	46	1.1	1.1	27	.08
29	6.4	19	.33	8.7	42	.99	.94	25	.06
30	5.4	18	.26	6.7	37	.67	.94	24	.06
31	---	---	---	5.7	34	.52	---	---	---
TOTAL	1099.2	---	138.84	1375.3	---	790.29	88.18	---	11.66
JULY			AUGUST			SEPTEMBER			
1	.93	23	.06	.93	16	.04	2.4	35	.23
2	1.0	23	.06	.75	19	.04	1.4	29	.11
3	2.4	38	.16	.62	18	.03	1.0	23	.06
4	2.8	23	.17	.56	15	.02	.62	16	.03
5	2.1	21	.12	.50	12	.02	.50	15	.02
6	1.7	21	.10	.50	10	.01	.34	15	.01
7	2.4	21	.14	.46	10	.01	.34	14	.01
8	2.6	21	.15	.44	9	.01	.30	10	.00
9	1.8	20	.10	.44	8	.00	.25	8	.00
10	1.7	21	.10	.43	7	.00	.24	5	.00
11	4.4	20	.24	.41	7	.00	.21	3	.00
12	2.6	21	.15	.33	7	.00	.17	2	.00
13	1.7	20	.09	.29	7	.00	.03	0	.00
14	1.3	20	.07	.26	7	.00	.00	0	.00
15	40	174	30	.25	6	.00	.00	0	.00
16	8.4	107	2.5	.25	5	.00	.00	0	.00
17	3.6	71	.69	.46	5	.00	.00	0	.00
18	2.3	55	.34	.68	5	.00	.00	0	.00
19	1.6	44	.19	.85	5	.01	.00	0	.00
20	1.3	34	.12	1.0	5	.01	.00	0	.00
21	12	72	2.4	.72	5	.00	.00	0	.00
22	9.1	83	2.0	.48	6	.00	.00	0	.00
23	3.6	41	.40	.62	6	.01	.00	0	.00
24	2.2	30	.18	.82	6	.01	.00	0	.00
25	1.6	27	.12	23	69	8.2	.00	0	.00
26	1.3	23	.08	8.8	111	2.6	.00	0	.00
27	2.0	20	.11	2.4	58	.38	.00	0	.00
28	2.0	16	.09	1.4	41	.15	.00	0	.00
29	1.4	14	.05	1.0	37	.10	.00	0	.00
30	1.1	15	.04	1.2	36	.12	.00	0	.00
31	.95	15	.04	5.0	60	.81	---	---	---
TOTAL	123.88	---	41.06	55.85	---	12.58	7.80	---	0.47
YEAR	12067.34		6683.16						

## RACCOON CREEK BASIN

03201555 RACCOON CREEK NEAR NEW PLYMOUTH, OH

LOCATION.--Lat 39°52'25", long 82°23'45", in NW 1/4 sec. 35, T.11N., R.16W., Vinton County, Hydrologic Unit 05090101, on left upstream side of bridge of Hwy 328, 0.6 mi downstream from East Branch Raccoon Creek, 2.0 mi upstream of Two Mile Run.

DRAINAGE AREA.--22.7 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1984 to September 1985.

GAGE.--Water-stage recorder. Elevation of gage is 750 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Sediment data collected at this site 1984 to 1985.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1140 ft<sup>3</sup>/s Feb. 23, 1985, gage height 13.15 ft; minimum, 0.0 ft<sup>3</sup>/s several days.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 490 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	0300	*1,140	*13.15	Mar. 30	1130	603	10.37
Mar. 12	1030	546	9.98	Mar. 31	0300	692	10.95

Minimum daily discharge, 0.0 ft<sup>3</sup>/s several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	7.4	44	.00
2									---	6.2	42	.00
3									---	11	39	.00
4									---	21	36	.00
5									---	31	45	.00
6									---	38	52	.00
7									---	32	49	.00
8									---	29	56	.00
9									---	37	27	.00
10									---	36	26	.00
11									---	38	25	.00
12									---	38	24	.00
13									---	38	17	.00
14									---	38	15	.00
15									---	37	14	.00
16									---	36	13	.00
17									---	33	10	.00
18									---	29	9.0	.00
19									---	28	8.0	.00
20									---	36	5.4	.00
21									---	36	1.9	.00
22									---	33	.52	.00
23									---	30	.58	.00
24									---	27	.17	.00
25									---	35	.00	.00
26									---	39	.00	.00
27									---	16	53	.00
28									---	26	49	.00
29									---	13	45	.00
30									---	33	42	.00
31									---	43	.00	---
TOTAL									---	1031.6	559.57	.00
MEAN									---	33.3	18.1	.00
MAX									---	53	56	.00
MIN									---	6.2	.00	.00



## RACCOON CREEK BASIN

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03201555 RACCOON CREEK NEAR NEW PLYMOUTH, OH--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.59	2.0	51	6.4	68	217	7.7	8.5	1.3	.92	.00
2	.00	6.8	.00	43	20	60	114	128	7.6	8.5	1.5	.25
3	1.0	13	.00	34	17	51	86	107	6.6	11	1.1	.84
4	.52	12	.00	32	15	49	70	50	5.8	.02	.03	.39
5	.02	15	.00	28	13	47	60	32	6.0	.00	.00	.25
6	.00	.76	.00	22	11	40	135	22	6.2	6.5	.00	.88
7	.00	.00	.00	22	9.4	38	123	14	5.0	.12	.00	1.3
8	.00	.00	.00	20	8.1	45	151	7.6	4.0	.00	.00	1.3
9	6.9	7.5	.00	14	7.0	41	118	1.7	2.2	.00	.00	1.5
10	5.0	79	57	15	9.0	37	86	.10	2.3	9.1	.00	1.8
11	1.5	50	97	14	14	118	75	.18	1.8	.00	.00	1.7
12	.68	20	49	12	38	414	63	6.7	11	.00	.00	1.2
13	.24	10	37	9.5	111	139	55	7.8	1.2	.00	.00	.82
14	.20	6.9	45	6.0	130	93	49	.74	.12	.00	.00	.50
15	.23	7.6	42	3.6	91	70	44	37	.00	47	6.3	.22
16	.12	7.2	32	2.5	70	58	41	87	.00	15	12	.00
17	.25	4.7	26	1.8	63	52	34	157	.01	3.7	4.3	.00
18	.29	4.6	31	1.4	57	44	30	88	3.0	1.8	2.2	.00
19	.37	12	35	1.1	60	40	26	106	2.1	2.0	1.1	.00
20	.09	16	42	.90	69	37	23	52	2.9	1.4	.61	.00
21	.00	11	92	.86	96	33	20	32	7.6	5.2	1.1	.00
22	16	7.5	220	.62	446	34	18	24	8.8	9.1	.80	.00
23	7.2	6.5	69	.54	916	39	14	20	17	5.6	.04	.00
24	.00	6.7	46	.47	652	36	13	14	12	2.1	.00	.00
25	.00	7.1	36	.39	273	32	11	10	9.9	.61	28	.00
26	.00	6.9	27	.35	137	28	6.8	8.3	9.8	.17	.08	.00
27	.28	6.5	25	.30	99	28	3.2	19	8.2	6.5	.00	.00
28	.53	19	23	.27	77	28	3.3	18	16	2.8	.00	.00
29	2.9	17	21	.24	---	34	1.1	14	8.4	.35	.00	.00
30	2.6	1.8	67	.22	---	455	1.7	12	3.4	.00	.00	.00
31	.80	---	65	1.8	---	544	---	9.6	---	.20	.00	---
TOTAL	47.72	363.65	1186.00	339.86	3514.9	2832	1692.1	1093.42	177.43	140.07	60.08	12.95
MEAN	1.54	12.1	38.3	11.0	126	91.4	56.4	35.3	5.91	4.52	1.94	.43
MAX	16	79	220	51	916	544	217	157	17	47	28	1.8
MIN	.00	.00	.00	.22	6.4	28	1.1	.10	.00	.00	.00	.00
WTR YR 1985	TOTAL	11460.18		MEAN	31.4	MAX	916	MIN	.00			

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

INSTRUMENTATION.--PS-69 sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT LOADS: Maximum daily, 450 tons Mar. 30, 1985; minimum daily, 0.0 tons on many days during 1984 and 1985.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 489 mg/L Aug. 25; minimum daily mean, 0.0 mg/L on many days during the water year.

SEDIMENT LOADS: Maximum daily, 450 tons Mar. 30; minimum daily, 0.0 tons on many days during the water year.

## WATER QUALITY DATA

[illegible]

RACCOON CREEK BASIN

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03201555 RACCOON CREEK NEAR NEW PLYMOUTH, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY				AUGUST				SEPTEMBER	
1	7.4	---	---	44	3	.36	.00	0	.00
2	6.2	---	---	42	3	.34	.00	0	.00
3	11	---	---	39	3	.32	.00	0	.00
4	21	---	---	36	3	.29	.00	0	.00
5	31	---	---	45	5	.61	.00	0	.00
6	38	---	---	52	5	.70	.00	0	.00
7	32	---	---	49	5	.66	.00	0	.00
8	29	---	---	56	7	1.1	.00	0	.00
9	37	---	---	27	6	.44	.00	0	.00
10	36	---	---	26	5	.35	.00	0	.00
11	38	---	---	25	6	.41	.00	0	.00
12	38	---	---	24	13	.84	.00	0	.00
13	38	---	---	17	6	.28	.00	0	.00
14	38	---	---	15	4	.16	.00	0	.00
15	37	---	---	14	4	.15	.00	0	.00
16	36	---	---	13	4	.14	.00	0	.00
17	33	---	---	10	4	.11	.00	0	.00
18	29	---	---	9.0	4	.10	.00	0	.00
19	28	---	---	8.0	4	.09	.00	0	.00
20	36	7	.68	5.4	4	.06	.00	0	.00
21	36	7	.68	1.9	4	.02	.00	0	.00
22	33	7	.62	.52	3	.00	.00	0	.00
23	30	7	.57	.58	3	.00	.00	0	.00
24	27	7	.51	.17	3	.00	.00	0	.00
25	35	6	.57	.00	0	.00	.00	0	.00
26	39	5	.53	.00	0	.00	.00	0	.00
27	53	7	1.0	.00	0	.00	.00	0	.00
28	49	5	.66	.00	0	.00	.00	0	.00
29	45	4	.49	.00	0	.00	.00	0	.00
30	42	3	.34	.00	0	.00	.00	0	.00
31	43	3	.35	.00	0	.00	---	---	---
TOTAL	1031.6	---	7.00	559.57	---	7.53	0.00	---	0.00
YEAR	1679.17		14.53						

## RACCOON CREEK BASIN

03201555 RACCOON CREEK NEAR NEW PLYMOUTH, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	.00	0	.00	.59	5	.00	2.0	5	.03
2	.00	0	.00	6.8	4	.07	.00	0	.00
3	1.0	7	.02	13	4	.14	.00	0	.00
4	.52	7	.00	12	4	.13	.00	0	.00
5	.02	6	.00	15	3	.12	.00	0	.00
6	.00	0	.00	.76	3	.00	.00	0	.00
7	.00	0	.00	.00	0	.00	.00	0	.00
8	.00	0	.00	.00	0	.00	.00	0	.00
9	6.9	10	.19	7.5	5	.10	.00	0	.00
10	5.0	10	.14	79	111	24	57	70	11
11	1.5	3	.01	50	15	2.0	97	27	7.1
12	.68	4	.00	20	10	.54	49	8	1.1
13	.24	4	.00	10	6	.16	37	7	.70
14	.20	4	.00	6.9	5	.09	45	6	.73
15	.23	4	.00	7.6	4	.08	42	6	.68
16	.12	4	.00	7.2	3	.06	32	6	.52
17	.25	5	.00	4.7	3	.04	26	5	.35
18	.29	7	.00	4.6	3	.04	31	5	.42
19	.37	7	.00	12	3	.10	35	19	1.8
20	.09	9	.00	16	3	.13	42	20	2.3
21	.00	0	.00	11	3	.09	92	114	28
22	16	23	.99	7.5	3	.06	220	159	94
23	7.2	12	.23	6.5	3	.05	69	16	3.0
24	.00	0	.00	6.8	3	.06	46	15	1.9
25	.00	0	.00	7.1	3	.06	36	14	1.4
26	.00	0	.00	6.9	3	.06	27	13	.95
27	.28	4	.00	6.5	3	.05	25	11	.74
28	.53	4	.00	19	9	.46	23	10	.62
29	2.9	5	.04	17	7	.32	21	8	.45
30	2.6	5	.04	1.8	5	.02	67	59	11
31	.80	5	.01	---	---	---	65	23	4.0
TOTAL	47.72	---	1.67	363.75	---	29.03	1186.00	---	172.79
JANUARY				FEBRUARY			MARCH		
1	51	16	2.2	6.4	13	.22	68	12	2.2
2	43	15	1.7	20	10	.54	60	12	1.9
3	34	15	1.4	17	9	.41	51	12	1.7
4	32	14	1.2	15	7	.28	49	12	1.6
5	28	14	1.1	13	5	.18	47	11	1.4
6	22	14	.83	11	5	.15	40	11	1.2
7	22	14	.83	9.4	5	.13	38	11	1.1
8	20	14	.76	8.1	5	.11	45	10	1.2
9	14	13	.49	7.0	5	.09	41	10	1.1
10	15	13	.53	9.0	5	.12	37	10	1.0
11	14	13	.49	14	7	.26	118	107	34
12	12	13	.42	38	20	2.1	414	283	316
13	9.6	12	.31	111	104	31	139	50	19
14	6.0	12	.19	130	50	18	93	30	7.5
15	3.6	12	.12	91	26	6.4	70	27	5.1
16	2.5	12	.08	70	15	2.8	58	26	4.1
17	1.8	12	.06	63	8	1.4	52	26	3.7
18	1.4	12	.05	57	8	1.2	44	25	3.0
19	1.1	11	.03	60	12	1.9	40	23	2.5
20	.90	11	.03	69	14	2.6	37	22	2.2
21	.86	10	.02	96	22	5.7	33	20	1.8
22	.62	10	.02	446	355	427	34	19	1.7
23	.54	10	.01	916	145	359	39	17	1.8
24	.47	10	.01	652	120	211	36	17	1.7
25	.39	9	.00	273	83	61	32	15	1.3
26	.35	8	.00	137	50	18	28	14	1.1
27	.30	8	.00	99	33	8.8	28	12	.91
28	.27	7	.00	77	13	2.7	28	10	.76
29	.24	7	.00	---	---	---	34	8	.73
30	.22	7	.00	---	---	---	455	366	450
31	1.8	12	.06	---	---	---	544	250	367
TOTAL	339.96	---	12.94	3514.9	---	1163.09	2832	---	1240.30



## RACCOON CREEK BASIN

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03201555 RACCOON CREEK NEAR NEW PLYMOUTH, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	217	78	46	7.7	10	.21	8.5	6	.14
2	114	20	6.2	128	111	38	7.6	6	.12
3	86	11	2.6	107	30	8.7	6.6	6	.11
4	70	10	1.9	50	15	2.0	5.8	5	.08
5	60	10	1.6	32	14	1.2	6.0	5	.08
6	135	82	30	22	13	.77	6.2	7	.12
7	123	55	18	14	12	.45	5.0	8	.11
8	151	49	20	7.6	10	.21	4.0	7	.08
9	118	36	11	1.7	9	.04	2.2	8	.05
10	86	27	6.3	.10	8	.00	2.3	8	.05
11	75	23	4.7	.18	7	.00	1.8	8	.04
12	63	20	3.4	6.7	10	.18	11	10	.30
13	55	17	2.5	7.8	10	.21	1.2	6	.02
14	49	15	2.0	.74	8	.02	.12	5	.00
15	44	15	1.8	37	67	6.7	.00	5	.00
16	41	14	1.5	87	170	40	.00	5	.00
17	34	12	1.1	157	77	33	.01	6	.00
18	30	10	.81	88	29	6.9	3.0	10	.08
19	26	10	.70	106	65	19	2.1	6	.03
20	23	10	.62	52	21	2.9	2.9	5	.04
21	20	10	.54	32	19	1.6	7.6	5	.10
22	18	10	.49	24	17	1.1	8.8	5	.12
23	14	10	.38	20	16	.86	17	9	.41
24	13	10	.35	14	14	.53	12	5	.16
25	11	10	.30	10	12	.32	9.9	5	.13
26	6.9	10	.19	8.3	10	.22	9.8	5	.13
27	3.3	10	.09	19	16	.82	8.2	5	.11
28	3.3	10	.09	18	10	.49	16	9	.39
29	1.1	10	.03	14	8	.30	8.5	5	.11
30	1.7	10	.05	12	7	.23	3.4	5	.05
31	---	---	---	9.6	7	.18	---	---	---
TOTAL	1692.3	---	165.24	1093.42	---	167.14	177.53	---	3.16
JULY			AUGUST			SEPTEMBER			
1	1.4	5	.02	.92	5	.01	.00	0	.00
2	8.5	15	.34	1.5	5	.02	.25	5	.00
3	11	28	.83	1.2	5	.02	.84	10	.02
4	.02	5	.00	.03	5	.00	.39	7	.00
5	.00	0	.00	.00	0	.00	.25	6	.00
6	6.5	10	.18	.00	0	.00	.88	8	.02
7	.12	6	.00	.00	0	.00	1.3	7	.02
8	.00	0	.00	.00	0	.00	1.3	6	.02
9	.00	0	.00	.00	0	.00	1.6	5	.02
10	9.1	5	.12	.00	0	.00	1.9	4	.02
11	.00	0	.00	.00	0	.00	1.7	3	.01
12	.00	0	.00	.00	0	.00	1.2	3	.00
13	.00	0	.00	.00	0	.00	.82	3	.00
14	.00	0	.00	.00	0	.00	.50	3	.00
15	47	407	52	6.3	30	.51	.22	3	.00
16	15	10	.41	12	25	.81	.00	0	.00
17	3.7	8	.08	4.3	5	.06	.00	0	.00
18	1.8	7	.03	2.2	5	.03	.00	0	.00
19	2.0	5	.03	1.1	5	.01	.00	0	.00
20	1.4	5	.02	.61	5	.00	.00	0	.00
21	5.2	6	.08	1.1	5	.01	.00	0	.00
22	9.1	6	.15	.80	5	.01	.00	0	.00
23	5.6	6	.09	.04	4	.00	.00	0	.00
24	2.1	5	.03	.00	0	.00	.00	0	.00
25	.61	5	.00	28	489	37	.00	0	.00
26	.17	5	.00	.08	25	.00	.00	0	.00
27	6.6	5	.09	.00	0	.00	.00	0	.00
28	2.8	5	.04	.00	0	.00	.00	0	.00
29	.35	5	.00	.00	0	.00	.00	0	.00
30	.00	0	.00	.00	0	.00	.00	0	.00
31	.20	5	.00	.00	0	.00	---	---	---
TOTAL	140.27	---	54.54	60.18	---	38.49	13.15	---	0.13
YEAR	11461.18		3048.52						

## RACCOON CREEK BASIN

03201902 RACCOON CREEK NEAR BOLIN MILLS, OH

LOCATION.--Lat 39°10'40", long 82°18'54", in NE 1/4 sec. 32, T.10N., R.15W., Vinton County, Hydrologic Unit 05090101, on left upstream side of bridge of unnamed county dirt road going south, 0.8 mi upstream of Russell Run and 2.8 mi downstream of Merritt Run.

DRAINAGE AREA.--205 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1984 to June 1985.

GAGE.--Water-stage recorder. Elevation of gage is 660 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Sediment data collected at this site 1984 to 1985.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3130 ft<sup>3</sup>/s Feb. 25, 1985, gage height 14.50 ft; minimum discharge, 0.0 ft<sup>3</sup>/s several days.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1780 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 25	0530	*3,130	*14.50	May 3	2400	2,000	13.44
Apr. 1	0400	2,200	13.68				

Minimum daily discharge, 0.0 ft<sup>3</sup>/s several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	4.7	.14
2										---	5.0	.14
3										---	7.2	.42
4										---	7.3	.56
5										---	16	.28
6										---	38	.42
7										---	32	.28
8										---	21	.28
9										---	17	3.4
10										---	13	.42
11										---	11	.28
12										---	9.9	.14
13										---	8.0	1.0
14										---	9.5	.28
15										---	11	3.4
16										---	9.3	2.7
17										---	6.7	2.5
18										3.8	5.5	2.2
19										3.3	5.0	2.0
20										2.6	4.0	2.0
21										2.6	3.5	1.7
22										2.3	3.4	1.5
23										4.7	3.9	1.3
24										1.7	2.8	1.1
25										1.4	1.7	1.4
26										1.8	1.1	1.1
27										3.9	.72	.70
28										6.4	.52	.42
29										14	.31	.70
30										11	.14	.70
31										7.0	.28	---
TOTAL										---	259.47	33.46
MEAN										---	8.37	1.12
MAX										---	38	3.4
MIN										---	.14	.14

RACCOON CREEK BASIN

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03201902 RACCOON CREEK NEAR BOLIN MILLS, OH--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	11	135	331	103	318	2190	60	53	10		
2	.70	11	117	277	170	268	1900	543	47	8.6		
3	.70	10	95	224	155	221	1010	1770	41	9.5		
4	.42	5.4	73	187	145	191	437	1800	38	---		
5	.28	.13	67	150	132	182	341	821	33	---		
6	.00	.93	66	123	120	164	481	284	35	---		
7	.00	.00	65	106	110	140	711	201	29	---		
8	.00	.00	62	94	102	140	861	152	29	---		
9	.00	.06	55	86	94	155	748	119	33	---		
10	.14	71	130	80	86	147	524	96	34	---		
11	.98	307	500	74	81	192	408	81	31	---		
12	1.3	220	430	70	79	1190	344	74	36	---		
13	2.0	111	251	66	78	1490	283	68	91	---		
14	2.7	70	202	63	78	1160	246	63	72	---		
15	2.8	54	220	60	115	480	220	353	40	---		
16	3.2	47	199	57	240	327	201	1440	29	---		
17	3.2	43	159	54	410	267	180	1600	27	---		
18	3.1	38	135	52	383	223	148	1440	24	---		
19	3.4	49	149	50	385	185	132	862	21	---		
20	4.1	74	250	49	425	166	119	536	19	---		
21	5.4	78	313	48	504	150	109	300	17	---		
22	9.4	64	935	47	944	137	99	203	16	---		
23	20	56	940	46	1940	162	89	166	15	---		
24	1.2	50	405	46	2720	175	82	146	17	---		
25	3.6	49	259	45	3030	159	76	117	19	---		
26	.16	48	190	45	2280	137	69	93	15	---		
27	1.4	46	152	44	1190	123	62	81	13	---		
28	4.6	60	141	44	433	121	115	84	12	---		
29	8.2	154	129	44	---	126	120	87	11	---		
30	9.6	162	135	44	---	947	73	73	11	---		
31	14	---	316	70	---	1930	---	60	---	---		
TOTAL	107.28	1889.52	7275	2776	16532	11773	12378	13773	908	---		
MEAN	3.46	63.0	235	89.5	590	380	413	444	30.3	---		
MAX	20	307	940	331	3030	1930	2190	1800	91	---		
MIN	.00	.00	55	44	78	121	62	60	11	---		

## RACCOON CREEK BASIN

03201902 RACCOON CREEK NEAR BOLIN MILLS, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1984 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: October 1984 to June 1985 (discontinued).

INSTRUMENTATION.--PS-69 sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 863 mg/L May 2, 1985; minimum daily mean, 0.0 several days in Oct., Nov. 1984.

SEDIMENT LOADS: Maximum daily, 3,300 tons May 3, 1985; minimum daily, 0.0 tons on several days in Oct., Nov., 1984.

## WATER QUALITY DATA

DATE	TIME	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	ALKA- LITY FIELD (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
NOV 1984								
15...	10:00	5.0	5.0	51	640	4.9	2	20
DEC								
19...	14:00	10.0	5.0	139	475	5.3	3	25
MAR 1985								
13...	14:00	6.5	4.5	1350	220	5.4	3	15
APR								
18...	13:00	16.0	--	159	325	5.1	2	15
MAY								
15...	11:45	19.5	--	108	405	5.1	3	20
JUN								
18...	10:15	22.5	--	29	455	5.0	2	15
SEP								
23...	17:30	22.0	24.0	0.91	400	6.8	9	--

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	DRAIN- AGE AREA (SQ. MI.)
NOV 1984								
15...	240	360	260	4400	---	2100	1300	205
DEC								
19...	160	550	150	2800	2800	2000	900	205
MAR 1985								
13...	74	1500	120	1000	900	600	100	205
APR								
18...	120	620	450	2000	1400	1500	1500	205
MAY								
15...	140	780	120	2400	2400	1900	900	205
JUN								
18...	170	360	160	3600	3500	500	500	205
SEP								
23...	150	1000	320	2900	2800	300	100	205



RACCOON CREEK BASIN

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03201902 RACCOON CREEK NEAR BOLIN MILLS, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.70	0	.00	11	9	.27	135	8	2.9
2	.70	5	.00	11	8	.24	117	8	2.5
3	.70	7	.01	10	6	.16	95	8	2.1
4	.42	7	.00	5.4	6	.09	73	8	1.6
5	.28	5	.00	.13	4	.00	67	9	1.6
6	.00	0	.00	.93	6	.02	66	9	1.6
7	.00	0	.00	.00	0	.00	65	9	1.6
8	.00	0	.00	.00	0	.00	62	8	1.3
9	.00	0	.00	.06	0	.00	55	7	1.0
10	.14	2	.00	71	7	1.3	130	55	19
11	.98	3	.00	307	27	22	500	37	50
12	1.3	3	.01	220	35	21	430	19	22
13	2.0	4	.02	111	18	5.4	251	17	12
14	2.7	6	.04	70	16	3.0	202	15	8.2
15	2.8	5	.04	54	15	2.2	220	16	9.5
16	3.2	6	.05	47	14	1.8	199	13	7.0
17	3.2	3	.03	43	7	.81	159	12	5.2
18	3.1	6	.05	38	7	.72	135	11	4.0
19	3.4	6	.06	49	8	1.1	149	10	4.0
20	4.1	8	.09	74	19	3.8	250	13	8.8
21	5.4	10	.15	78	15	3.2	313	32	27
22	9.4	7	.18	64	12	2.1	935	140	353
23	20	13	.70	56	8	1.2	940	21	53
24	1.2	8	.03	50	7	.95	405	10	11
25	3.6	6	.06	49	6	.79	259	9	6.3
26	.16	3	.00	48	7	.91	190	8	4.1
27	1.5	3	.01	46	7	.87	152	7	2.9
28	4.6	12	.15	60	8	1.3	141	6	2.3
29	8.2	12	.27	154	7	2.9	129	5	1.7
30	9.7	10	.26	162	8	3.5	135	7	2.6
31	14	9	.34	---	---	---	316	10	8.5
TOTAL	107.48	---	2.55	1889.52	---	81.63	7275	---	638.3
JANUARY			FEBRUARY			MARCH			
1	331	27	24	103	15	4.2	318	19	16
2	277	23	17	170	18	8.3	268	18	13
3	224	20	12	155	18	7.5	221	17	10
4	187	18	9.1	145	17	6.7	191	16	8.3
5	150	17	6.9	132	16	5.7	182	15	7.4
6	123	17	5.6	120	16	5.2	164	14	6.2
7	106	16	4.6	110	15	4.5	140	13	4.9
8	94	16	4.1	102	15	4.1	140	12	4.5
9	86	15	3.5	94	14	3.6	155	13	5.4
10	80	15	3.2	86	14	3.3	147	15	6.0
11	74	14	2.8	81	14	3.1	192	22	11
12	70	14	2.6	79	14	3.0	1190	165	530
13	66	14	2.5	78	14	2.9	1490	35	141
14	63	14	2.4	78	14	2.9	1160	25	78
15	60	13	2.1	115	20	6.2	480	23	30
16	57	13	2.0	240	30	19	327	21	19
17	54	12	1.7	410	20	22	267	20	14
18	52	12	1.7	383	15	16	223	18	11
19	50	12	1.6	385	15	16	185	17	8.5
20	49	11	1.5	425	25	29	166	16	7.2
21	48	11	1.4	504	27	37	150	15	6.1
22	47	11	1.4	944	64	163	137	14	5.2
23	46	10	1.2	1940	195	1020	162	13	5.7
24	46	10	1.2	2720	37	272	175	12	5.7
25	45	10	1.2	3030	25	205	159	12	5.2
26	45	10	1.2	2280	23	142	137	11	4.1
27	44	9	1.1	1190	21	67	123	10	3.3
28	44	9	1.1	433	20	23	121	10	3.3
29	44	9	1.1	---	---	---	126	10	3.4
30	44	9	1.1	---	---	---	947	249	637
31	70	9	1.7	---	---	---	1930	58	302
TOTAL	2776	---	124.6	16532	---	2102.2	11773	---	1912.4

## RACCOON CREEK BASIN

03201902 RACCOON CREEK NEAR BOLIN MILLS, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	2190	23	136	60	15	2.4	53	10	1.4
2	1900	13	67	543	863	1270	47	9	1.1
3	1010	11	30	1770	691	3300	41	8	.89
4	437	10	12	1800	223	1080	38	7	.72
5	341	9	8.3	821	40	89	33	7	.62
6	481	32	42	284	17	13	35	7	.66
7	711	23	44	201	17	9.2	29	7	.55
8	861	39	91	152	16	6.6	29	7	.55
9	748	28	57	119	15	4.8	33	7	.62
10	524	27	38	96	14	3.6	34	7	.64
11	408	26	29	81	13	2.8	31	7	.59
12	344	25	23	74	12	2.4	36	8	.78
13	283	23	18	68	11	2.0	91	15	3.7
14	246	20	13	63	10	1.7	72	10	1.9
15	220	20	12	353	491	468	40	8	.86
16	201	20	11	1440	504	1800	29	8	.63
17	180	20	9.7	1600	60	259	27	7	.51
18	148	20	8.0	1440	29	113	24	7	.45
19	132	20	7.1	862	20	47	21	7	.40
20	119	19	6.1	536	19	27	19	7	.36
21	109	18	5.3	300	17	14	17	6	.28
22	99	17	4.5	203	16	8.8	16	6	.26
23	89	16	3.8	166	15	6.7	15	6	.24
24	82	15	3.3	146	14	5.5	17	6	.28
25	76	14	2.9	117	14	4.4	19	6	.31
26	69	12	2.2	93	13	3.3	15	5	.20
27	62	10	1.7	81	13	2.8	13	5	.18
28	115	19	5.9	84	12	2.7	12	5	.16
29	120	19	6.2	87	12	2.8	11	5	.15
30	73	17	3.4	73	11	2.2	11	5	.15
31	---	---	---	60	10	1.6	---	---	---
TOTAL	12378	---	701.4	13773	---	8556.3	908	---	20.14

RACCOON CREEK BASIN

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03201980 LITTLE RACCOON CREEK NEAR EWINGTON, OH

LOCATION.--Lat 39°00'38", long 82°27'08", in SW 1/4 sec. 12, T.8N., R.17W., Jackson County, Hydrologic Unit 05090101, on right downstream side of Old Keystone Rd, 3.6 mi downstream from Tarcamp Creek, 0.15 mi upstream of Kuger Run.

DRAINAGE AREA.--99.7 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1984 to June 1985.

GAGE.--Water-stage recorder. Elevation of gage is 630 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Sediment data collected at this site 1984 to 1985.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1270 ft<sup>3</sup>/s Mar. 31, 1985, gage height 12.33 ft; minimum discharge, 2.3 ft<sup>3</sup>/s Oct. 2, 1984.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 860 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	1200	1,070	11.86	Mar. 31		*1,270	*12.33

Minimum daily discharge, 2.8 ft<sup>3</sup>/s Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	8.1	5.2
2										---	8.1	4.8
3										---	13	4.6
4										---	15	5.0
5										---	95	5.4
6										---	67	5.2
7										---	37	4.8
8										---	23	4.4
9										---	20	4.0
10										---	18	3.8
11										---	36	3.5
12										---	37	3.3
13										---	24	3.2
14										---	18	3.4
15										---	13	8.1
16										---	11	7.4
17										---	11	4.8
18										---	10	3.5
19										---	10	3.0
20										---	9.2	2.5
21										---	7.8	2.3
22										---	8.2	2.7
23										---	9.2	2.8
24										---	9.2	3.9
25										8.3	7.7	6.2
26										8.4	6.4	6.5
27										13	5.7	4.1
28										15	5.8	3.6
29										14	6.1	3.5
30										11	5.8	4.0
31										8.7	5.6	---
TOTAL										---	560.9	129.5
MEAN										---	18.1	4.32
MAX										---	95	8.1
MIN										---	5.6	2.3

## RACCOON CREEK BASIN

03201980 LITTLE RACCOON CREEK NEAR EWINGTON, OH--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	25	84	156	70	155	1210	40	39			
2	4.8	19	82	140	100	132	780	195	35			
3	5.1	17	67	115	96	111	462	619	34			
4	4.2	17	57	100	92	100	257	534	33			
5	3.3	17	48	94	90	100	192	343	35			
6	3.0	30	45	86	82	91	297	158	34			
7	2.8	28	47	80	76	82	292	110	34			
8	2.9	22	42	72	70	82	339	84	45			
9	5.5	20	40	68	64	84	289	70	38			
10	4.3	55	103	64	60	76	223	59	56			
11	4.0	203	267	60	72	119	187	53	40			
12	3.9	210	194	57	214	532	161	53	84			
13	3.8	125	134	54	273	599	141	68	82			
14	3.8	65	122	51	344	534	129	62	52			
15	3.7	40	126	48	345	302	117	161	40			
16	4.2	38	109	46	271	190	100	480	36			
17	5.3	33	92	44	239	149	103	570	32			
18	5.5	39	80	42	213	123	90	600	31			
19	5.1	196	77	40	215	105	83	563	28			
20	5.6	180	94	38	241	94	78	305	29			
21	5.8	101	207	37	325	82	73	167	26			
22	9.0	63	679	36	522	81	68	116	23			
23	18	49	512	35	811	97	62	103	26			
24	13	44	350	34	1030	98	58	98	22			
25	10	38	213	33	895	164	55	83	21			
26	9.3	34	149	32	639	160	51	69	18			
27	8.5	32	120	32	348	130	48	59	18			
28	9.0	41	106	31	204	115	47	54	17			
29	31	85	95	31	---	110	43	52	16			
30	51	76	107	30	---	455	40	46	15			
31	30	---	157	45	---	1270	---	41	---			
TOTAL	279.9	1942	4605	1831	8001	6522	6075	6015	1039			
MEAN	9.03	64.7	149	59.1	286	210	203	194	34.6			
MAX	51	210	679	156	1030	1270	1210	619	84			
MIN	2.8	17	40	30	60	76	40	40	15			



## RACCOON CREEK BASIN

03201980 LITTLE RACCOON CREEK NEAR EWINGTON, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1984 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: August 1984 to June 1985 (discontinued).

INSTRUMENTATION.--PS-69 sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 148 mg/L May 15, 1985; minimum daily mean, 3 mg/L on many days during 1984 and 1985.

SEDIMENT LOADS: Maximum daily, 302 tons Mar. 31, 1985; minimum daily, .02 tons Oct. 6, 7, 1984.

## WATER QUALITY DATA

DATE	TIME	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	ALKA- LINITY FIELD (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
SEP 1984								
27...	09:45	15.5	11.0	4.3	845	3.6	--	35
OCT								
17...	15:45	19.0	21.0	6.4	1060	3.3	--	104
NOV								
14...	14:15	5.0	4.5	43	740	3.6	--	74
DEC								
19...	10:00	10.0	7.0	76	535	4.1	1	60
MAR 1985								
13...	10:45	6.5	4.5	518	310	4.5	--	30
APR								
18...	11:00	15.5	---	105	465	4.1	--	40
MAY								
14...	16:00	20.5	---	54	530	4.2	--	35
JUN								
18...	15:40	20.0	27.0	3.7	605	3.9	--	30
SEP								
24...	12:45	19.0	21.0	3.6	800	5.1	3	25

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	DRAIN- AGE AREA (SQ. MI.)
SEP 1984								
27...	310	500	360	3400	3400	1300	1300	99.7
OCT								
17...	420	1500	1300	5300	5300	7200	6100	99.7
NOV								
14...	270	6800	5900	3500	3500	6200	6200	99.7
DEC								
19...	210	7900	1900	2800	2800	4800	4300	99.7
MAR 1985								
13...	120	4300	2100	1100	1100	1500	1400	99.7
APR								
18...	210	6000	1100	2500	1700	4800	4600	99.7
MAY								
14...	--	3500	580	2600	2600	3100	2300	99.7
JUN								
18...	240	1300	710	3200	3100	2800	2800	99.7
SEP								
24...	310	350	140	2800	2600	2400	2400	99.7

## RACCOON CREEK BASIN

03201980 LITTLE RACCOON CREEK NEAR EWINGTON, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY				AUGUST				SEPTEMBER	
1	---			8.1	---	---	5.2	7	.10
2	---			8.1	---	---	4.8	7	.09
3	---			13	---	---	4.7	7	.09
4	---			15	---	---	5.0	6	.08
5	---			95	---	---	5.4	5	.07
6	---			67	---	---	5.3	4	.06
7	---			37	---	---	4.8	3	.04
8	---			23	---	---	4.4	3	.04
9	---			20	4	.22	4.0	3	.03
10	---			18	4	.19	3.8	4	.04
11	---			36	20	1.9	3.5	5	.05
12	---			37	7	.70	3.3	5	.04
13	---			24	10	.65	3.2	4	.03
14	---			18	9	.44	3.4	3	.03
15	---			13	8	.28	8.1	3	.07
16	---			11	7	.21	7.4	4	.08
17	---			11	7	.21	4.8	5	.06
18	---			10	6	.16	3.5	6	.06
19	---			10	4	.11	3.0	6	.05
20	---			9.2	4	.10	2.5	6	.04
21	---			7.8	4	.08	2.3	6	.04
22	---			8.2	7	.15	2.7	5	.04
23	---			9.2	5	.12	2.8	4	.03
24	---			9.2	5	.12	3.9	4	.04
25	8.3			7.7	6	.12	6.2	4	.07
26	8.4			6.4	6	.10	6.5	3	.05
27	13			5.7	7	.11	4.1	3	.03
28	15			5.8	7	.11	3.6	3	.03
29	14			6.1	6	.10	3.5	4	.04
30	11			5.8	5	.08	4.0	4	.04
31	8.7			5.6	6	.09	---	---	---
TOTAL	78.4			560.9	---	6.35	129.7	---	1.56
YEAR	769.0		7.91						

## RACCOON CREEK BASIN

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03201980 LITTLE RACCOON CREEK NEAR EWINGTON, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	4.5	10	.12	25	4	.27	84	8	1.8
2	4.8	8	.10	19	3	.15	82	8	1.8
3	5.1	6	.08	17	3	.14	67	7	1.3
4	4.2	3	.03	17	3	.14	57	7	1.1
5	3.3	3	.03	17	3	.14	48	7	.91
6	3.0	3	.02	30	5	.41	45	6	.73
7	2.8	3	.02	28	5	.38	47	6	.76
8	2.9	4	.03	22	5	.30	42	6	.68
9	5.5	5	.07	20	12	.65	40	5	.54
10	4.4	4	.05	55	7	1.0	103	26	7.2
11	4.0	3	.03	203	5	2.7	267	23	17
12	3.9	3	.03	210	5	2.8	194	20	10
13	3.8	3	.03	125	4	1.4	134	20	7.2
14	3.8	3	.03	65	4	.70	122	19	6.3
15	3.7	3	.03	40	3	.32	126	18	6.1
16	4.2	3	.03	38	3	.31	109	18	5.3
17	5.3	3	.04	33	3	.27	92	17	4.2
18	5.5	3	.04	39	11	1.2	80	17	3.7
19	5.1	3	.04	196	14	7.4	75	16	3.2
20	5.6	3	.05	180	10	4.9	79	30	6.4
21	5.8	3	.05	101	9	2.5	94	73	64
22	9.0	4	.10	63	8	1.4	207	94	166
23	18	6	.29	49	8	1.1	679	33	60
24	13	4	.14	44	8	.95	512	30	41
25	10	3	.08	38	8	.82	350	27	26
26	9.3	3	.08	34	7	.64	213	25	14
27	8.5	3	.07	32	7	.60	149	23	9.3
28	9.0	4	.10	41	16	1.8	120	22	7.1
29	31	10	.84	85	15	3.4	106	20	5.7
30	51	6	.83	76	8	1.6	95	33	8.5
31	30	5	.41	---	---	---	107	30	8.7
TOTAL	280.0	---	3.89	1942	---	40.39	4525	---	496.52
JANUARY			FEBRUARY			MARCH			
1	156	25	11	70	15	2.8	155	37	15
2	140	23	8.7	100	12	3.2	132	36	13
3	115	22	6.8	96	10	2.6	111	35	10
4	100	21	5.7	92	9	2.2	100	30	8.1
5	94	20	5.1	90	9	2.2	100	25	6.8
6	86	19	4.4	82	8	1.8	91	24	5.9
7	80	17	3.7	76	8	1.6	82	23	5.1
8	72	16	3.1	70	10	1.9	82	22	4.9
9	68	16	2.9	64	11	1.9	84	21	4.8
10	64	15	2.6	60	10	1.6	76	20	4.1
11	60	15	2.4	72	10	1.9	119	20	9.0
12	57	15	2.3	214	45	26	532	102	154
13	54	14	2.0	273	55	41	599	45	73
14	51	14	1.9	344	40	37	534	33	48
15	48	14	1.8	345	23	21	302	32	26
16	46	14	1.7	271	15	11	190	32	16
17	44	13	1.5	239	12	7.7	149	30	12
18	42	13	1.5	213	11	6.3	123	27	9.0
19	40	13	1.4	215	11	6.4	105	26	7.4
20	38	13	1.3	241	10	6.5	94	26	6.6
21	37	12	1.2	325	17	15	82	26	5.8
22	36	12	1.2	522	42	65	81	26	5.7
23	35	12	1.1	811	78	169	97	26	6.8
24	34	11	1.0	1030	45	125	98	27	7.1
25	33	11	.98	895	44	106	164	53	23
26	32	11	.95	639	43	74	160	25	11
27	32	10	.86	348	42	39	130	23	8.1
28	31	10	.84	204	38	21	115	21	6.5
29	31	10	.84	---	---	---	110	20	5.9
30	30	10	.81	---	---	---	455	---	---
31	45	23	2.8	---	---	---	1270	98	302
TOTAL	1831	---	84.38	8001	---	800.6	6522	---	820.6

## RACCOON CREEK BASIN

03201980 LITTLE RACCOON CREEK NEAR EWINGTON, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	1210	55	180	40	7	.76	39	12	1.3
2	780	42	88	195	131	128	35	11	1.0
3	462	38	47	619	106	170	34	10	.92
4	257	36	25	534	30	43	33	10	.89
5	192	35	18	343	28	26	35	9	.85
6	297	34	27	158	27	12	34	9	.83
7	292	33	26	110	25	7.4	34	8	.73
8	339	30	27	84	23	5.2	45	8	.97
9	289	28	22	70	22	4.2	38	7	.72
10	223	26	16	59	22	3.5	56	7	1.1
11	187	24	12	53	21	3.0	40	7	.76
12	161	22	9.6	53	21	3.0	84	7	1.6
13	141	20	7.6	68	20	3.7	82	6	1.3
14	129	18	6.3	62	20	3.3	52	6	.84
15	117	16	5.1	161	148	107	40	6	.65
16	100	14	3.8	480	107	137	36	5	.49
17	103	13	3.6	570	42	65	32	5	.43
18	90	12	2.9	600	34	55	31	5	.42
19	83	11	2.5	563	34	52	28	5	.38
20	78	11	2.3	305	33	27	29	5	.39
21	73	10	2.0	167	32	14	26	4	.28
22	68	10	1.8	116	30	9.4	23	4	.25
23	62	10	1.7	103	29	8.1	26	4	.28
24	58	9	1.4	98	28	7.4	22	4	.24
25	55	9	1.3	83	27	6.1	21	4	.23
26	51	9	1.2	69	24	4.5	18	3	.15
27	48	9	1.2	59	22	3.5	18	3	.15
28	47	8	1.0	54	20	2.9	17	3	.14
29	43	8	.93	52	19	2.7	16	3	.13
30	40	8	.86	46	16	2.0	15	3	.12
31	---	---	---	41	14	1.5	---	---	---
TOTAL	6075	---	545.09	6015	---	918.16	1039	---	18.54



# RACCOON CREEK BASIN

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03201988 LITTLE RACCOON CREEK NEAR VINTON, OH

LOCATION.--Lat 38°57'11", long 82°21'56", in NW 1/4 sec. 34, T.7N., R.16W., Gallia County, Hydrologic Unit 05090101, on left upstream side of bridge on Koontzsailor Rd 0.6 mi upstream of Dear Creek and 3.03 mi downstream of Keeton Run.

DRAINAGE AREA.--154 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1984 to September 1985.

GAGE.--Water-stage recorder. Elevation of gage is 590 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Sediment data collected at this site 1984 to 1985.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1630 ft<sup>3</sup>/s Apr. 1, 1985, gage height 13.21 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1060 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 25	0200	1,430	12.46	Apr. 1	1300	*1,630	*13.24

Minimum daily discharge, 0.2 ft<sup>3</sup>/s Oct. 6.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	15	6.0
2										---	14	5.8
3										---	15	5.6
4										---	22	6.0
5										---	72	6.4
6										---	93	4.5
7										---	61	5.2
8										---	28	5.2
9										---	26	4.5
10										---	24	4.1
11										---	49	4.5
12										---	30	3.1
13										---	22	2.4
14										---	18	3.1
15										---	16	3.4
16										---	15	6.2
17										---	14	5.2
18										---	13	3.8
19										17	12	3.1
20										17	11	2.1
21										19	10	2.2
22										21	12	2.8
23										19	11	4.0
24										17	10	5.0
25										13	8.8	7.0
26										11	7.8	6.8
27										13	7.0	5.6
28										19	6.6	4.6
29										23	7.4	3.7
30										21	6.8	3.0
31										18	6.2	---
TOTAL										---	663.6	134.9
MEAN										---	21.4	4.50
MAX										---	93	7.0
MIN										---	6.2	2.1

## RACCOON CREEK BASIN

03201988 LITTLE RACCOON CREEK NEAR VINTON, OH--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	30	99	226	120	252	1610	49	52	42	34	10
2	4.1	23	109	210	200	199	1410	221	46	31	50	10
3	3.1	17	90	174	175	169	1020	752	42	31	19	10
4	1.7	17	77	159	155	150	509	753	41	53	10	13
5	.34	29	66	162	145	146	288	558	43	35	6.9	15
6	.20	43	61	148	138	135	312	262	42	27	7.6	14
7	3.1	34	58	133	120	120	395	161	40	24	12	14
8	.69	28	67	126	105	117	399	123	54	45	15	16
9	1.0	48	56	113	90	123	370	99	55	41	16	20
10	2.8	233	108	99	78	115	305	83	55	70	17	23
11	1.1	292	324	94	90	168	251	72	52	145	16	24
12	1.3	197	281	88	232	629	218	67	110	100	19	24
13	.92	111	193	84	543	791	189	82	84	54	19	19
14	.99	72	160	78	724	727	171	87	66	53	19	18
15	1.2	57	164	72	781	483	155	190	58	44	18	16
16	1.8	51	150	70	410	285	151	560	50	31	30	15
17	3.5	44	129	68	343	221	150	780	45	29	27	16
18	8.5	52	103	66	310	185	133	845	42	42	22	14
19	17	227	104	63	309	158	117	840	36	33	19	13
20	22	263	127	60	339	139	108	520	31	25	22	11
21	29	161	294	58	454	122	101	300	33	21	24	8.4
22	44	96	787	56	736	116	92	200	28	30	28	5.8
23	50	72	805	54	1070	134	86	167	29	59	29	5.3
24	60	62	498	52	1310	150	79	150	29	35	31	5.2
25	55	54	309	51	1380	304	75	135	25	18	100	4.3
26	53	47	224	49	1190	266	68	103	24	20	99	6.1
27	56	41	177	48	859	206	62	90	23	56	36	8.1
28	63	50	156	47	523	181	60	80	22	59	16	8.6
29	96	97	138	46	---	166	56	71	21	26	11	11
30	81	106	152	45	---	483	51	65	20	14	8.6	10
31	45	---	221	66	---	1220	---	57	---	13	9.5	---
TOTAL	710.14	2654	6287	2865	12929	8660	8991	8522	1298	1306	790.6	387.8
MEAN	22.9	88.5	203	92.4	462	279	300	275	43.3	42.1	25.5	12.9
MAX	96	292	805	226	1380	1220	1610	845	110	145	100	24
MIN	.20	17	56	45	78	115	51	49	20	13	6.9	4.3
WTR YR 1985	TOTAL	55400.54		MEAN	152	MAX	1610	MIN	.20			

RACCOON CREEK BASIN

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03201988 LITTLE RACCOON CREEK NEAR VINTON, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1984 to September 1985 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: August 1984 to September 1985 (discontinued).

INSTRUMENTATION.--PS-69 sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 159 mg/L Mar. 31, 1985; minimum daily mean, 1 mg/L several days in Oct. 1984.

SEDIMENT LOADS: Maximum daily, 500 tons Mar. 31, 1985; minimum daily, 0.0 tons several days in Oct. 1984 and 1985.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 159 mg/L Mar. 31, 1985; minimum daily mean, 1 mg/L several days in Oct. 1984.

SEDIMENT LOADS: Maximum daily, 500 tons Mar. 31, 1985; minimum daily, 0.0 tons several days in Oct. 1984 and 1985.

WATER QUALITY DATA

DATE	TIME	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	ALKA- LITY FIELD (MG/L AS CAO3)	ACIDITY (MG/L AS CAO3)
SEP 1984								
26...	13:15	17.5	18.5	1.4	770	4.2	--	20
OCT								
17...	13:50	17.5	21.0	3.5	975	3.5	--	89
NOV								
14...	10:00	4.5	0.0	73	570	4.1	--	40
DEC								
18...	16:00	9.5	4.5	105	445	4.3	<1	30
MAR 1985								
12...	15:30	8.5	4.0	720	350	4.7	3	30
APR								
17...	14:30	14.5	--	171	405	4.2	--	40
MAY								
14...	13:45	20.0	--	81	540	3.9	--	99
JUN								
18...	13:15	20.0	26.5	42	532	4.2	--	--
SEP								
23...	15:00	21.0	28.0	5.8	610	6.9	16	--

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	DRAIN- AGE AREA (SQ. MI.)
SEP 1984								
26...	280	380	150	2900	2900	1000	1000	154
OCT								
17...	410	1400	910	6000	6000	11000	11000	154
NOV								
14...	230	2600	2500	2800	2800	3700	3700	154
DEC								
18...	180	1600	340	2100	2100	3700	3100	154
MAR 1985								
12...	130	8600	900	1600	1500	3100	2700	154
APR								
17...	180	2000	600	1900	1400	3600	3100	154
MAY								
14...	230	790	490	2600	2600	5000	5000	154
JUN								
18...	210	560	190	2900	2900	2500	2500	154
SEP								
23...	240	610	20	1400	1300	200	<100	154

## RACCOON CREEK BASIN

03201988 LITTLE RACCOON CREEK NEAR VINTON, OH

## WATER QUALITY DATA

DATE	TIME	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	ALKA- LILITY FIELD (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
SEP 1984								
26...	13:15	17.5	18.5	1.4	770	4.2	--	20
OCT								
17...	13:50	17.5	21.0	3.5	975	3.5	--	89
NOV								
14...	10:00	4.5	0.0	73	570	4.1	--	40
DEC								
18...	16:00	9.5	4.5	105	445	4.3	<1	30
MAR 1985								
12...	15:30	8.5	4.0	720	350	4.7	3	30
APR								
17...	14:30	14.5	--	171	405	4.2	--	40
MAY								
14...	13:45	20.0	--	81	540	3.9	--	99
JUN								
18...	13:15	20.0	26.5	42	532	4.2	--	--
SEP								
23...	15:00	21.0	28.0	5.8	610	6.9	16	--

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	DRAIN- AGE AREA (SQ. MI.)
SEP 1984								
26...	280	380	150	2900	2900	1000	1000	154
OCT								
17...	410	1400	910	6000	6000	11000	11000	154
NOV								
14...	230	2600	2500	2800	2800	3700	3700	154
DEC								
18...	180	1600	340	2100	2100	3700	3100	154
MAR 1985								
12...	130	8600	900	1600	1500	3100	2700	154
APR								
17...	180	2000	600	1900	1400	3600	3100	154
MAY								
14...	230	790	490	2600	2600	5000	5000	154
JUN								
18...	210	560	190	2900	2900	2500	2500	154
SEP								
23...	240	610	20	1400	1300	200	<100	154



RACCOON CREEK BASIN

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03201988 LITTLE RACCOON CREEK NEAR VINTON, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	2.8	3	.02	30	3	.24	99	8	2.1
2	4.1	4	.04	23	3	.19	109	9	2.6
3	3.1	4	.03	17	3	.14	90	8	1.9
4	1.7	3	.01	17	3	.14	77	8	1.7
5	.34	1	.00	29	5	.39	66	7	1.2
6	.20	1	.00	43	5	.58	61	7	1.2
7	3.1	3	.03	34	3	.28	58	6	.94
8	.69	1	.00	28	3	.23	67	6	1.1
9	1.0	1	.00	48	5	.65	56	6	.91
10	2.8	3	.02	233	22	14	108	24	7.0
11	1.2	1	.00	292	11	8.7	324	40	35
12	1.3	1	.00	197	10	5.3	281	12	9.1
13	.92	1	.00	111	8	2.4	193	11	5.7
14	.99	1	.00	72	7	1.4	160	10	4.3
15	1.2	1	.00	57	7	1.1	164	10	4.4
16	1.8	2	.00	51	6	.83	150	10	4.1
17	3.5	4	.04	44	5	.59	129	10	3.5
18	8.5	5	.11	52	7	.98	103	9	2.5
19	17	7	.32	227	30	18	104	12	3.4
20	22	8	.48	263	20	14	127	14	4.8
21	29	9	.70	161	17	7.4	294	87	112
22	44	9	1.1	96	13	3.4	787	154	323
23	50	9	1.2	72	11	2.1	805	61	135
24	60	7	1.1	62	10	1.7	498	48	65
25	55	6	.89	54	10	1.5	309	42	35
26	53	5	.72	47	10	1.3	224	30	18
27	56	4	.60	41	9	1.0	177	17	8.1
28	63	7	1.2	50	9	1.2	156	14	5.9
29	96	7	1.8	97	9	2.4	138	13	4.8
30	81	5	1.1	106	9	2.6	152	20	8.2
31	45	4	.49	---	---	---	221	33	20
TOTAL	710.24	---	12.00	2654	---	94.74	6287	---	832.45
JANUARY			FEBRUARY			MARCH			
1	226	24	15	120	25	8.1	252	23	16
2	210	17	9.6	200	20	11	199	23	12
3	174	16	7.5	175	15	7.1	169	23	10
4	159	16	6.9	155	13	5.4	150	22	8.9
5	162	16	7.0	145	11	4.3	146	22	8.7
6	148	16	6.4	138	11	4.1	135	21	7.7
7	133	15	5.4	120	10	3.2	120	21	6.8
8	126	15	5.1	105	10	2.8	117	21	6.6
9	113	14	4.3	90	9	2.2	123	20	6.6
10	99	14	3.7	78	8	1.7	115	20	6.2
11	94	14	3.6	90	7	1.7	168	32	15
12	88	13	3.1	232	45	28	629	146	227
13	84	13	2.9	543	114	168	791	54	111
14	78	12	2.5	724	65	127	727	30	59
15	72	12	2.3	781	37	78	483	22	29
16	70	11	2.1	410	20	22	285	20	15
17	68	11	2.0	343	16	15	221	18	11
18	66	10	1.8	310	15	13	185	17	8.5
19	63	10	1.7	309	15	13	158	16	6.8
20	60	9	1.5	339	17	16	139	15	5.6
21	58	9	1.4	454	45	55	122	14	4.6
22	56	8	1.2	736	125	266	116	13	4.1
23	54	8	1.2	1070	92	259	134	12	4.3
24	52	8	1.1	1310	40	141	150	35	14
25	51	7	.96	1380	30	112	304	55	45
26	49	7	.93	1190	25	80	266	30	22
27	48	7	.91	859	25	58	206	22	12
28	47	6	.76	523	24	34	181	17	8.3
29	46	6	.75	---	---	---	166	15	6.7
30	45	5	.61	---	---	---	483	81	144
31	66	5	.89	---	---	---	1220	159	500
TOTAL	2865	---	105.11	12929	---	1536.6	8660	---	1342.4

## RACCOON CREEK BASIN

03201988 LITTLE RACCOON CREEK NEAR VINTON, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	1610	60	261	49	5	.66	52	6	.84
2	1410	40	152	221	73	121	46	6	.75
3	1020	37	102	752	98	194	42	6	.68
4	509	35	48	753	43	87	41	6	.66
5	288	32	25	558	25	38	43	6	.70
6	312	50	42	262	16	11	42	5	.57
7	395	50	53	161	12	5.2	40	5	.54
8	399	40	43	123	8	2.7	54	5	.73
9	370	35	35	99	7	1.9	55	5	.74
10	305	30	25	83	6	1.3	55	5	.74
11	251	27	18	72	5	.97	52	5	.70
12	218	23	14	67	4	.72	110	11	3.3
13	189	20	10	82	5	1.1	84	5	1.1
14	171	17	7.8	87	4	.94	66	5	.89
15	155	15	6.3	190	50	26	58	5	.78
16	151	15	6.1	560	150	227	50	5	.68
17	150	14	5.7	780	125	263	45	5	.61
18	133	14	5.0	845	80	183	42	5	.57
19	117	13	4.1	840	65	147	36	5	.49
20	108	13	3.8	520	25	35	31	5	.42
21	101	12	3.3	300	25	20	33	5	.45
22	92	11	2.7	200	24	13	28	5	.38
23	86	10	2.3	167	21	9.5	29	5	.39
24	79	9	1.9	150	19	7.7	29	5	.39
25	75	8	1.6	135	16	5.8	25	5	.34
26	68	7	1.3	103	13	3.6	24	4	.26
27	62	7	1.2	90	10	2.4	23	4	.25
28	60	6	.97	80	8	1.7	22	4	.24
29	56	5	.76	71	7	1.3	21	4	.23
30	51	5	.69	65	6	1.1	20	4	.22
31	---	---	---	57	---	---	---	---	---
TOTAL	8991	---	883.52	8522	---	1413.59	1298	---	19.64
JULY			AUGUST			SEPTEMBER			
1	42	10	1.1	34	16	1.5	10	7	.19
2	31	7	.59	50	10	1.4	10	7	.19
3	31	7	.59	19	6	.31	10	6	.16
4	53	7	1.0	10	5	.14	13	5	.18
5	35	6	.57	6.9	5	.09	15	5	.20
6	27	5	.36	7.6	5	.10	14	4	.15
7	24	4	.26	12	5	.16	14	4	.15
8	45	9	1.1	15	4	.16	16	6	.26
9	41	12	1.3	16	4	.17	20	7	.38
10	70	17	3.2	17	4	.18	23	13	.81
11	145	30	12	16	3	.13	24	15	.97
12	100	18	4.9	19	3	.15	24	10	.65
13	54	10	1.5	19	4	.21	19	6	.31
14	53	8	1.1	19	5	.26	18	6	.29
15	44	7	.83	18	5	.24	16	6	.26
16	31	5	.42	30	9	.73	15	6	.24
17	29	5	.39	27	7	.51	16	6	.26
18	42	9	1.0	22	6	.36	14	6	.23
19	33	9	.80	19	6	.31	13	6	.21
20	25	10	.68	22	6	.36	11	6	.18
21	21	11	.62	24	7	.45	8.5	7	.16
22	30	11	.89	28	7	.53	5.8	7	.11
23	59	13	2.1	29	7	.55	5.3	7	.10
24	35	8	.76	31	7	.59	5.2	7	.10
25	18	4	.19	100	112	63	4.3	7	.08
26	20	4	.22	99	21	5.6	6.1	7	.12
27	56	12	1.8	36	10	.97	8.1	7	.15
28	59	11	1.8	16	9	.39	8.6	7	.16
29	26	7	.49	11	9	.27	11	7	.21
30	14	5	.19	8.6	8	.19	10	7	.19
31	13	5	.18	9.5	8	.21	---	---	---
TOTAL	1306	---	42.93	790.6	---	80.22	387.9	---	7.65
YEAR	55400.74		6370.85						

## RACCOON CREEK BASIN

03201988 LITTLE RACCOON CREEK NEAR VINTON, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	---		15	---		6.0	5		.08
2	---		14	---		5.8	3		.05
3	---		15	---		5.6	5		.08
4	---		22	---		6.0	5		.08
5	---		72	---		6.4	19		.33
6	---		93	---		4.5	24		.29
7	---		61	---		5.2	7		.10
8	---		28	---		5.2	6		.08
9	---		26	---		4.5	5		.06
10	---		24	---		4.1	4		.04
11	---		49	---		4.5	5		.06
12	---		30	---		3.1	4		.03
13	---		22	---		2.4	3		.02
14	---		18	---		3.1	3		.03
15	---		16	---		3.4	3		.03
16	---		15	---		6.2	6		.10
17	---		14	---		5.2	5		.07
18	---		13	---		3.8	3		.03
19	17		12	---		3.1	3		.03
20	17		11	---		2.1	2		.01
21	19		10	---		2.2	2		.01
22	21		12	---		2.8	2		.02
23	19		11	---		4.0	3		.03
24	17		10	---		5.0	4		.05
25	13		8.8	6	.14	7.0	5		.09
26	11		7.8	6	.13	6.8	7		.13
27	13		7.0	6	.11	5.6	7		.11
28	19		6.6	6	.11	4.6	5		.06
29	23		7.4	8	.16	3.7	4		.04
30	21		6.8	7	.13	3.0	3		.02
31	18		6.2	6	.10	---	---		---
TOTAL	228		663.6	---	---	0.88	134.9	---	2.16
YEAR	1026.5		3.04						

## RACCOON CREEK BASIN

03202000 RACCOON CREEK AT ADAMSVILLE, OH

LOCATION.--Lat 38°51'32", long 82°21'43", in SE 1/4 sec. 26, T.6N., R.16W., Gallia County, Hydrologic Unit 05090101, on right bank downstream of Cora Road, approximately 1 mi south of State Route 35.

DRAINAGE AREA.--595 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1915 to December 1935, October 1938 to current year.

REVISED RECORDS.--WSP 873: 1916-18, 1920, 1922, 1924, 1926-27, 1931, 1933, 1935(M). WSP 1908: Drainage area. WSP 2108: 1968-70(M).

GAGE.--Water-stage recorder. Datum of gage is 570.04 ft above National Geodetic Vertical Datum of 1929. Prior to July 8, 1984 water-stage recorder 1.7 mi upstream at same datum.

REMARKS.--Records fair. Sediment data collected at this site 1969 to 1974.

AVERAGE DISCHARGE.--67 years, 645 ft<sup>3</sup>/s, 15.02 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft<sup>3</sup>/s May 28, 1968, gage height 28.69 ft, from rating curve extended above 13,000 ft<sup>3</sup>/s on basis of slope-conveyance estimate of peak flow; minimum, 1.1 ft<sup>3</sup>/s Oct. 17-19, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1937 reached a stage of 25.2 ft, from floodmark, discharge, 16,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 27	1330	4,510	14.84	May 17	0530	3,820	13.90
Apr. 2	1130	*5,450	*15.95				

Minimum daily discharge, 5.2 ft<sup>3</sup>/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	15	81	398	777	300	2080	4480	232	195	68	87	100	
2	16	64	401	827	375	813	5390	402	174	81	145	80	
3	18	54	362	701	420	659	4820	1930	159	73	103	64	
4	15	49	294	627	380	574	3340	2300	153	86	76	50	
5	14	49	241	601	350	537	1430	2380	152	80	60	42	
6	7.1	61	210	553	325	493	923	2070	140	78	53	40	
7	5.7	80	180	498	303	451	1130	911	130	81	49	35	
8	6.1	74	160	457	286	431	1340	542	139	155	47	33	
9	5.7	179	196	413	270	442	1400	430	145	149	45	31	
10	5.2	539	404	330	260	426	1270	352	162	212	43	31	
11	5.3	764	864	300	350	649	1020	297	170	608	39	30	
12	6.3	702	1010	275	585	1950	835	263	205	268	37	31	
13	6.9	559	911	250	1000	2310	720	254	270	161	34	32	
14	15	362	697	245	1150	2410	636	302	267	114	33	27	
15	7.5	236	598	228	1200	2100	575	727	221	99	30	24	
16	6.0	178	569	218	1180	1280	555	2800	174	96	34	22	
17	6.3	144	521	208	1150	844	524	3790	144	86	69	22	
18	7.0	179	465	195	1090	689	470	3530	137	103	178	21	
19	8.7	777	458	187	1070	594	419	3280	120	123	198	20	
20	12	633	475	178	1160	524	376	2640	107	88	124	19	
21	13	483	1060	170	1500	466	352	1270	104	76	85	17	
22	17	342	2230	162	2350	439	326	758	96	103	65	16	
23	31	252	2150	158	3280	458	300	585	89	210	54	15	
24	52	201	1750	150	3580	533	275	504	88	182	49	12	
25	38	170	1200	147	3920	1520	257	441	81	126	141	11	
26	63	147	790	143	4360	912	239	373	73	93	430	11	
27	48	132	620	139	4470	689	219	312	67	108	350	10	
28	54	189	525	137	3890	612	205	277	64	143	260	9.7	
29	101	279	464	135	---	524	232	257	60	118	190	9.3	
30	127	337	560	133	---	1080	274	239	57	91	140	10	
31	106	---	697	215	---	2940	---	222	---	82	94	---	
TOTAL	838.8	8296	21460	9757	40554	30429	34332	34670	4143	4141	3342	875.0	
MEAN	27.1	277	692	315	1448	982	1144	1118	138	134	108	29.2	
MAX	127	777	2230	827	4470	2940	5390	3790	270	608	430	100	
MIN	5.2	49	160	133	260	426	205	222	57	68	30	9.3	
CFSM	.05	.47	1.18	.54	2.48	1.68	1.96	1.91	.24	.23	.18	.05	
IN.	.05	.53	1.36	.62	2.58	1.93	2.18	2.20	.26	.26	.21	.06	
CAL YR 1984	TOATL	183116.4		MEAN	500	MAX	3650	MIN	5.2	CFSM	.84	IN.	11.41
WTR YR 1985	TOTAL	192837.8		MEAN	528	MAX	5390	MIN	5.2	CFSM	.90	IN.	12.26



03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-54, 1964 to September 1985(discontinued).

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1967 to September 1984 (discontinued).

pH: May 1967 to September 1984 (discontinued).

WATER TEMPERATURES: October 1951 to September 1954, October 1964 to September 1984 (discontinued).

DISSOLVED OXYGEN: May 1967 to September 1984 (discontinued).

SUSPENDED SEDIMENT DISCHARGE: July 1984 to September 1985 (discontinued).

INSTRUMENTATION.--PS-69 sediment sampler.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,930 microsiemens Nov. 29, 1964; minimum, 81 microsiemens July 9, 1980.

pH: Maximum, 8.8 units Feb. 16, 1972; minimum, 2.0 units May 6, 1972.

WATER TEMPERATURES: Maximum, 29.0 °C June 16, 1952; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 15.7 mg/L Mar. 4, 1980; minimum recorded, 2.5 mg/L May 6, 1972.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 502 mg/L May 16, 1985; minimum daily mean, 5.0 mg/L

Sept. 10-14, Oct. 20, 1984, June 7, Aug. 15-16, and Sept. 27-31, 1985.

SEDIMENT LOADS: Maximum daily, 3,210 tons May 16, 1985; minimum daily, 0.07 tons Sept. 13-14, 1984.

## EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 502 mg/L May 16; minimum daily mean, 5.0 mg/L Oct. 20, June 7, Aug. 15-16, and Sept. 27-31.

SEDIMENT LOADS: Maximum daily, 3,210 tons May 16; minimum daily, 0.11 tons Oct. 10-11.

## WATER QUALITY DATA

DATE	TIME	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	ALKA- LITY FIELD (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
SEP 1984								
26...	11:00	18.5	14.0	5.2	585	6.2	15	9.9
OCT								
17...	12:00	17.5	21.0	6.5	730	6.4	16	5.0
NOV								
13...	13:00	7.0	0.0	559	530	5.6	3	15
DEC								
18...	13:30	9.5	4.5	593	390	6.6	8	--
MAR 1985								
12...	11:45	7.5	4.0	2130	200	6.9	79	--
APR								
17...	12:00	14.5	22.0	623	310	5.7	3	9.9
MAY								
14...	12:15	21.0	--	285	325	6.0	8	9.9
JUN								
18...	11:45	20.0	26.0	128	409	6.5	14	--
SEP								
23...	13:30	22.0	28.0	14	620	7.0	14	--

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	DRAIN- AGE AREA (SQ. MI.)
SEP 1984								
26...	170	1000	50	2100	2100	<100	<100	585
OCT								
17...	240	600	70	2900	2900	300	<100	585
NOV								
13...	190	1200	370	2900	2800	900	400	585
DEC								
18...	130	840	90	1600	1600	1000	300	585
MAR 1985								
12...	64	15000	20	1000	400	6000	<100	585
APR								
17...	110	1300	1100	1400	1000	900	600	585
MAY								
14...	120	250	120	1500	1400	600	100	585
JUN								
18...	160	430	60	1700	1700	300	200	585
SEP								
23...	190	630	<10	1500	1400	200	<100	585

## RACCOON CREEK BASIN

03202000 RACCOON CREEK AT ADAMSVILLE, OH

## WATER QUALITY DATA

DATE	TIME	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	ALKA- LILITY FIELD (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
SEP 1984								
26...	11:00	18.5	14.0	5.2	585	6.2	15	9.9
OCT								
17...	12:00	17.5	21.0	6.5	730	6.4	16	5.0
NOV								
13...	13:00	7.0	0.0	559	530	5.6	3	15
DEC								
18...	13:30	9.5	4.5	593	390	6.6	8	--
MAR 1985								
12...	11:45	7.5	4.0	2130	200	6.9	79	--
APR								
17...	12:00	14.5	22.0	623	310	5.7	3	9.9
MAY								
14...	12:15	21.0	--	285	325	6.0	8	9.9
JUN								
18...	11:45	20.0	26.0	128	409	6.5	14	--
SEP								
23...	13:30	22.0	28.0	14	620	7.0	14	--

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	DRAIN- AGE AREA (SQ. MI.)
SEP 1984								
26...	170	1000	50	2100	2100	<100	<100	585
OCT								
17...	240	600	70	2900	2900	300	<100	585
NOV								
13...	190	1200	370	2900	2800	900	400	585
DEC								
18...	130	840	90	1600	1600	1000	300	585
MAR 1985								
12...	64	15000	20	1000	400	6000	<100	585
APR								
17...	110	1300	1100	1400	1000	900	600	585
MAY								
14...	120	250	120	1500	1400	600	100	585
JUN								
18...	160	430	60	1700	1700	300	200	585
SEP								
23...	190	630	410	1500	1400	200	<100	585

## RACCOON CREEK BASIN

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03202000 RACCOON CREEK AT ADAMSVILLE, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	15	10	.41	81	17	3.7	398	23	25
2	16	10	.43	64	16	2.8	401	23	25
3	18	12	.58	54	16	2.3	362	22	22
4	15	12	.49	49	15	2.0	294	21	17
5	14	14	.53	49	15	2.0	241	20	13
6	7.1	12	.23	61	15	2.5	210	20	11
7	5.7	10	.15	80	21	4.5	180	20	9.7
8	6.1	9	.15	74	17	3.4	160	17	7.3
9	5.7	8	.12	179	39	30	196	15	7.9
10	5.2	8	.11	539	45	65	404	53	72
11	5.3	8	.11	764	37	76	864	28	65
12	6.3	8	.14	702	27	51	1010	17	46
13	6.9	8	.15	559	23	35	911	13	32
14	15	8	.32	362	17	17	697	12	23
15	7.5	8	.16	236	15	9.6	598	12	19
16	6.1	8	.13	178	12	5.8	569	12	18
17	6.3	8	.14	144	10	3.9	521	11	15
18	7.0	8	.15	179	15	7.2	465	10	13
19	8.7	7	.16	777	143	308	458	10	12
20	12	5	.16	633	80	137	475	11	14
21	13	7	.25	483	40	52	1060	67	323
22	17	12	.55	342	16	15	2230	149	916
23	31	17	1.4	252	10	6.8	2150	70	406
24	52	23	3.2	201	10	5.4	1750	44	208
25	38	13	1.3	170	10	4.6	1200	35	113
26	63	13	2.2	147	10	4.0	790	27	58
27	48	10	1.3	132	10	3.6	620	20	33
28	54	9	1.3	189	12	6.1	525	18	26
29	101	32	8.7	279	44	33	464	20	25
30	127	26	8.9	337	28	25	560	35	53
31	106	20	5.7	---	---	---	697	38	72
TOTAL	838.9	---	39.62	8296	---	924.2	21460	---	2699.9
JANUARY			FEBRUARY			MARCH			
1	777	36	76	484	25	33	2080	25	140
2	827	30	67	540	13	19	813	23	50
3	701	21	40	562	10	15	659	22	39
4	627	18	30	552	10	15	574	21	33
5	601	18	29	520	10	14	537	20	29
6	553	17	25	485	10	13	493	18	24
7	498	17	23	454	10	12	451	17	21
8	457	17	21	405	10	11	431	16	19
9	413	17	19	350	10	9.5	442	15	18
10	330	17	15	306	10	8.3	426	13	15
11	300	16	13	289	10	7.8	649	78	230
12	275	16	12	600	50	81	1950	309	1530
13	250	15	10	1070	70	202	2310	123	765
14	238	15	9.6	1210	35	114	2410	67	436
15	220	15	8.9	1280	27	93	2100	52	295
16	208	15	8.4	1280	23	79	1280	37	128
17	195	15	7.9	1190	19	61	844	30	68
18	185	14	7.0	1090	18	53	689	28	52
19	175	13	6.1	1070	17	49	594	26	42
20	165	13	5.8	1160	15	47	524	25	35
21	158	13	5.5	1500	15	61	466	24	30
22	150	12	4.9	2350	107	762	439	23	27
23	145	12	4.7	3280	142	1250	458	22	27
24	140	12	4.5	3580	80	773	533	91	211
25	133	11	4.0	3920	53	561	1520	428	1950
26	130	11	3.9	4360	40	471	912	57	140
27	127	10	3.4	4470	33	398	689	53	99
28	120	10	3.2	3890	30	315	612	45	74
29	118	8	2.5	---	---	---	524	37	52
30	115	7	2.2	---	---	---	1080	138	574
31	270	28	20	---	---	---	2940	298	2240
TOTAL	9601	---	492.5	42247	---	5527.6	30429	---	9393

## RACCOON CREEK BASIN

03202000 RACCOON CREEK AT ADAMSVILLE, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	4480	63	724	232	8	5.0	195	7	3.7
2	5390	27	393	402	79	165	174	7	3.3
3	4820	23	299	1930	182	895	159	6	2.6
4	3340	22	198	2300	94	584	153	6	2.5
5	1430	21	81	2380	51	328	152	6	2.5
6	923	21	52	2070	36	201	140	6	2.3
7	1130	40	122	911	30	74	130	5	1.8
8	1340	57	206	542	23	34	139	7	2.6
9	1400	50	189	430	20	23	145	7	2.7
10	1270	43	147	352	17	16	162	7	3.1
11	1020	37	102	297	15	12	170	8	3.7
12	835	35	79	263	13	9.2	205	7	3.9
13	720	33	64	254	10	6.9	270	17	12
14	636	31	53	302	10	8.2	267	11	7.9
15	575	30	47	727	297	718	221	9	5.4
16	555	27	40	2800	502	3210	174	8	3.8
17	524	25	35	3790	184	1870	144	7	2.7
18	470	25	32	3530	70	667	137	7	2.6
19	419	23	26	3280	43	381	120	7	2.3
20	376	21	21	2640	34	242	107	7	2.0
21	352	20	19	1270	23	79	104	7	2.0
22	326	18	16	758	17	35	96	7	1.8
23	300	17	14	585	15	24	89	7	1.7
24	275	15	11	504	13	18	88	7	1.7
25	257	14	9.7	441	12	14	81	7	1.5
26	239	13	8.4	373	10	10	73	7	1.4
27	219	11	6.5	312	8	6.7	67	6	1.1
28	205	10	5.5	277	7	5.2	64	6	1.0
29	232	12	7.5	257	7	4.9	60	6	.97
30	274	8	5.9	239	7	4.5	57	6	.92
31	---	---	---	222	7	4.2	---	---	---
TOTAL	34332	---	3013.5	34670	---	9654.8	4143	---	87.49
JULY			AUGUST			SEPTEMBER			
1	68	6	1.1	87	15	3.5	103	9	2.5
2	81	20	4.4	145	20	7.8	84	9	2.0
3	73	15	3.0	103	12	3.3	64	9	1.6
4	86	16	3.7	76	9	1.8	50	9	1.2
5	80	15	3.2	60	9	1.5	42	9	1.0
6	78	15	3.2	53	9	1.3	40	8	.86
7	81	15	3.3	49	9	1.2	35	8	.76
8	155	25	10	47	8	1.0	33	8	.71
9	149	20	8.0	45	7	.85	31	8	.67
10	212	31	48	43	7	.81	31	8	.67
11	608	84	182	39	7	.74	30	8	.65
12	268	25	18	37	6	.60	31	8	.67
13	161	17	7.4	34	6	.55	32	8	.69
14	114	14	4.3	33	6	.53	27	7	.51
15	99	12	3.2	30	5	.41	24	7	.45
16	96	12	3.1	34	5	.46	22	7	.42
17	86	7	1.6	69	10	1.9	22	7	.42
18	103	12	3.3	178	33	19	21	7	.40
19	123	15	5.0	198	12	6.4	20	7	.38
20	88	10	2.4	124	10	3.3	19	6	.31
21	76	10	2.1	85	10	2.3	17	6	.28
22	103	12	3.3	65	9	1.6	16	6	.26
23	210	30	17	54	8	1.2	15	6	.24
24	182	17	8.4	49	7	.93	12	6	.19
25	126	8	2.7	141	34	29	11	6	.18
26	93	8	2.0	430	47	55	11	6	.18
27	108	15	4.4	340	13	12	10	5	.14
28	143	13	5.0	270	10	7.3	9.7	5	.13
29	118	12	3.8	210	10	5.7	9.3	5	.13
30	91	12	2.9	160	10	4.3	10	5	.14
31	82	14	3.1	130	10	3.5	---	---	---
TOTAL	4141	---	372.9	3418	---	179.78	882.0	---	18.74
YEAR	194457.9		32404.03						



RACCOON CREEK BASIN

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03202000 RACCOON CREEK AT ADAMSVILLE, OH

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	89	---	---	59	20	3.2	15	7	.28
2	123	---	---	59	18	2.9	12	7	.23
3	130	---	---	60	17	2.8	10	7	.19
4	118	---	---	59	15	2.4	9.0	7	.17
5	115	---	---	75	20	4.1	8.6	6	.14
6	184	---	---	192	25	13	7.4	6	.12
7	400	---	---	194	23	12	6.8	6	.11
8	294	---	---	115	15	4.7	6.2	6	.10
9	213	---	---	99	10	2.7	6.0	6	.10
10	141	---	---	93	10	2.5	6.0	5	.08
11	105	---	---	105	30	8.5	6.0	5	.08
12	90	---	---	88	10	2.4	5.8	5	.08
13	90	---	---	87	10	2.3	5.4	5	.07
14	86	---	---	72	9	1.7	5.2	5	.07
15	73	---	---	66	9	1.6	7.8	10	.21
16	69	---	---	64	8	1.4	11	8	.24
17	66	---	---	62	8	1.3	15	17	.69
18	75	---	---	57	8	1.2	11	12	.36
19	69	---	---	46	8	.99	8.8	10	.24
20	63	---	---	39	8	.84	6.4	8	.14
21	59	---	---	30	8	.65	5.2	7	.10
22	56	---	---	28	8	.60	5.4	8	.12
23	54	---	---	20	7	.38	5.8	8	.13
24	54	---	---	15	7	.28	6.0	9	.15
25	52	23	3.2	13	7	.25	5.8	8	.13
26	51	20	2.8	11	6	.18	5.4	7	.10
27	52	21	2.9	12	7	.23	5.6	7	.11
28	53	22	3.1	13	7	.25	5.8	7	.11
29	56	23	3.5	14	7	.26	6.3	8	.14
30	63	25	4.3	16	7	.30	6.9	9	.17
31	62	23	3.9	17	7	.32	---	---	---
TOTAL	3205	---	23.7	1880	---	76.23	227.6	---	4.96
YEAR	202100.8		104.89						

## SCIOTO RIVER BASIN

03219500 SCIOTO RIVER NEAR PROSPECT, OH

LOCATION.--Lat 40°25'10", long 83°11'50", Delaware County, Hydrologic Unit 05060001, on right bank at downstream side of Hoskins Bridge, 1.5 mi upstream from Ottawa Creek, 2.0 mi south of Prospect, and 2.5 mi downstream from Patton Run.

DRAINAGE AREA.--567 mi<sup>2</sup>.

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.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 886.9 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). July 24, 1925, to Oct. 31, 1932, nonrecording gage at site 2.5 mi upstream at datum 4.8 ft higher. Oct. 16 to Dec. 5, 1939, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Jan. 11 to Apr. 3 and Apr. 10 to May 12. Records good except for estimated daily discharges, which are poor. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1951 to 1953.

AVERAGE DISCHARGE.--53 years, 453 ft<sup>3</sup>/s, 10.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft<sup>3</sup>/s 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 ft<sup>3</sup>/s Sept. 13, 1953.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913, reached a stage of 21.1 ft, discharge, 27,000 ft<sup>3</sup>/s, computed by Franklin County Conservancy District, at site and datum used 1925-32.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	unknown	*6,800	unknown	No other peak greater than base discharge			
Minimum discharge 11 ft <sup>3</sup> /s Sept. 22, 23, 29, 30.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	12	21	71	1600	44	1100	2200	150	147	50	26	113	
2	12	31	72	1780	44	840	2000	850	121	83	21	96	
3	13	29	67	1740	44	600	1800	3000	105	251	18	75	
4	13	57	58	1430	43	460	882	1600	91	200	17	53	
5	13	168	50	768	43	840	619	1000	83	125	17	38	
6	13	126	51	475	43	700	1090	450	74	361	20	31	
7	13	97	58	362	43	580	1490	250	70	283	23	35	
8	14	70	44	297	43	620	1340	220	66	293	25	25	
9	17	56	37	238	43	640	1220	210	454	185	22	19	
10	16	87	37	180	43	680	990	180	896	113	18	19	
11	18	152	59	160	47	580	800	150	641	86	17	16	
12	15	182	102	130	50	700	640	115	1070	73	16	15	
13	14	157	175	112	52	1010	500	108	1200	60	16	15	
14	14	115	329	100	54	800	450	99	1090	48	16	15	
15	15	94	501	88	57	650	400	93	744	50	19	14	
16	16	79	578	78	58	500	350	143	534	53	62	14	
17	18	63	419	70	60	420	300	298	431	42	143	13	
18	18	52	290	62	62	300	270	430	395	38	120	13	
19	18	46	218	57	70	250	250	424	395	35	73	13	
20	19	40	176	56	230	255	215	411	305	32	57	13	
21	20	35	152	54	600	270	200	568	228	30	43	13	
22	22	32	354	53	1400	285	180	867	176	27	30	11	
23	21	29	481	50	3100	290	165	648	146	29	23	11	
24	19	27	465	48	6000	270	150	391	125	29	23	16	
25	19	27	317	47	4000	250	138	270	107	23	51	18	
26	20	27	218	46	3000	230	132	205	91	27	85	14	
27	22	26	169	46	2100	220	128	166	77	33	116	13	
28	25	37	148	46	1600	200	120	172	67	26	100	12	
29	56	61	147	45	---	310	108	197	59	25	68	11	
30	37	63	535	45	---	700	92	220	53	24	60	11	
31	25	---	1240	45	---	2300	---	184	---	23	76	---	
TOTAL	587	2086	7618	10308	22973	17850	19219	14069	10041	2757	1421	775	
MEAN	18.9	69.5	246	333	820	576	641	454	335	88.9	45.8	25.8	
MAX	56	182	1240	1780	6000	2300	2200	3000	1200	361	143	113	
MIN	12	21	37	45	43	200	92	93	53	23	16	11	
CFSM	.03	.12	.43	.59	1.45	1.02	1.13	.80	.59	.16	.08	.05	
IN.	.04	.14	.50	.68	1.51	1.17	1.26	.92	.66	.18	.09	.05	
CAL YR 1984	TOTAL	168385		MEAN	460	MAX	5330	MIN	12	CFSM	.81	IN.	11.02
WTR YR 1985	TOTAL	109704		MEAN	301	MAX	6000	MIN	11	CFSM	.53	IN.	7.20

SCIOTO RIVER BASIN

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03219590 BOKES CREEK NEAR WARRENSBURG, OH

LOCATION.--Lat 40°19'20", long 83°10'30", Delaware County, Hydrologic Unit 05060001, on right bank at downstream side of bridge on State Highway 257, 3.4 mi downstream from Fulton Creek, 0.7 mi upstream from Moors Run, and 1.2 mi north of Warrensburg.

DRAINAGE AREA.--83.2 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 870 ft above National Geodetic Vertical Datum of 1929 from topographic map.

REMARKS.--Estimated daily discharges: Dec. 6-8, 26, Jan. 9 to Feb. 20. Records fair except for estimated record, which is poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,220 ft<sup>3</sup>/s Feb. 24, 1985, gage height 11.30 ft; minimum, no flow many days during 1982-1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	1430	*2220	*11.63	No other peak greater than base discharge.			
Minimum, no flow many days during the year.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.44	29	299	9.0	112	559	14	4.0	.07	.01	.01
2	.00	.59	20	535	9.0	92	260	255	2.9	.11	.00	.01
3	.00	.52	15	247	9.0	82	143	662	2.1	16	.00	.01
4	.00	5.7	12	110	9.0	73	98	284	1.7	27	.00	.01
5	.00	28	9.6	70	9.0	136	81	103	1.3	11	.00	.01
6	.00	67	8.8	51	9.0	183	217	65	1.0	44	.00	.00
7	.00	41	8.0	42	9.0	104	221	38	.82	46	.00	.00
8	.00	24	7.4	36	9.0	85	128	27	.66	22	.01	.00
9	.00	17	7.2	30	9.0	91	84	19	72	7.0	.01	.00
10	.00	23	8.2	25	9.0	88	61	20	61	2.9	.00	.00
11	.00	93	16	22	9.0	73	51	19	133	1.2	.00	.00
12	.00	86	35	19	9.8	126	35	16	388	.49	.00	.00
13	.00	47	65	17	11	190	34	13	124	.29	.00	.00
14	.00	28	171	15	12	120	33	26	64	.18	.00	.00
15	.00	19	253	14	12	87	32	70	41	.22	.00	.00
16	.00	13	149	13	12	68	28	50	33	.25	.01	.00
17	.00	10	88	12	13	55	17	115	25	.43	.01	.00
18	.00	8.9	58	11	13	46	19	83	14	.39	.01	.00
19	.00	7.3	44	10	14	42	17	92	9.1	.17	.01	.00
20	.00	6.2	36	10	15	39	15	76	6.3	.10	.00	.00
21	.00	5.2	34	9.8	40	38	15	48	3.9	.06	.00	.00
22	.00	4.4	120	9.7	164	38	14	33	2.5	.02	.00	.00
23	.00	4.2	228	9.4	804	37	14	42	1.7	.01	.00	.00
24	.00	4.2	93	9.3	1930	36	16	30	1.1	.01	.00	.00
25	.00	4.2	53	9.2	1500	35	14	20	.67	.01	.01	.00
26	.00	4.2	38	9.0	673	33	16	14	.44	.01	.01	.00
27	.00	3.9	32	9.0	311	31	16	10	.29	.01	.01	.00
28	.00	6.7	28	9.0	152	30	14	9.0	.20	.01	.00	.00
29	.30	13	26	9.0	---	30	9.7	7.4	.15	.01	.00	.00
30	.51	35	181	9.0	---	35	10	5.5	.11	.01	.01	.00
31	.46	---	416	9.0	---	231	---	4.8	---	.01	.01	---
TOTAL	1.27	610.65	2289.2	1689.4	5784.8	2466	2271.7	2270.7	995.94	179.97	.12	.05
MEAN	.04	20.4	73.8	54.5	207	79.5	75.7	73.2	33.2	5.81	.00	.00
MAX	.51	93	416	535	1930	231	559	662	388	46	.01	.01
MIN	.00	.44	7.2	9.0	9.0	30	9.7	4.8	.11	.01	.00	.00
CFSM	.00	.25	.89	.66	2.49	.96	.91	.88	.40	.07	.00	.00
IN.	.00	.27	1.02	.76	2.59	1.10	1.02	1.02	.45	.08	.00	.00
CAL YR 1984	TOTAL	24540.00		MEAN	67.0	MAX	1210	MIN	.00	CFSM	.81	IN. 10.94
WTR YR 1985	TOTAL	18559.80		MEAN	50.8	MAX	1930	MIN	.00	CFSM	.61	IN. 8.30

## SCIOTO RIVER BASIN

03220000 MILL CREEK NEAR BELLEPOINT, OH

LOCATION.--Lat 40°14'54", long 83°10'26", Delaware County, Hydrologic Unit 05060001, on left bank at upstream side of county road bridge, 1.2 mi west of Bellepoint, 1.5 mi upstream from mouth, and 2.3 mi downstream from Blues Creek.

DRAINAGE AREA.--178 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 865.14 ft above National Geodetic Vertical Datum of 1929 (levels by students of Ohio State University, City of Columbus bench mark). Prior to Jan. 1, 1948, nonrecording gage, at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 20. Records good except for period of estimated record, which are fair. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--43 years, 153 ft<sup>3</sup>/s, 11.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 13.85 ft, from rating curve extended above 14,000 ft<sup>3</sup>/s; no flow Sept. 25, 26, 1944, Sept. 19, 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 18.0 ft occurred in March 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 2,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	1300	*4,580	*8.24	No other peak greater than base discharge.			

Minimum daily discharge, 1.9 ft<sup>3</sup>/s Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	4.7	13	64	596	21	157	1410	34	18	8.0	6.9	18	
2	4.4	13	45	1070	21	136	419	1250	15	9.1	8.2	7.8	
3	3.4	15	35	342	21	128	215	1800	14	82	6.2	7.7	
4	5.3	84	29	176	21	122	149	477	13	65	5.6	4.7	
5	5.6	265	26	121	21	409	121	197	13	37	5.1	4.4	
6	4.8	190	22	90	21	307	996	113	14	162	4.4	3.9	
7	5.1	79	20	76	21	146	551	77	13	77	8.8	4.6	
8	5.4	44	18	64	21	187	221	58	12	32	70	3.7	
9	7.0	38	20	34	21	232	147	45	16	19	26	3.8	
10	7.7	168	24	33	22	146	109	39	14	14	14	3.5	
11	6.4	481	106	30	30	153	89	34	44	11	10	3.4	
12	6.1	229	210	29	35	653	76	28	715	8.5	7.3	5.0	
13	5.5	101	216	28	38	496	66	26	316	7.7	5.0	3.3	
14	6.4	58	684	25	41	209	60	226	145	7.2	4.5	2.5	
15	5.8	42	735	23	42	150	56	477	71	71	6.1	2.8	
16	5.5	32	277	22	44	109	55	163	52	166	10	2.3	
17	5.0	26	160	22	45	86	48	309	42	48	15	2.7	
18	6.6	22	108	21	47	73	42	242	32	26	8.8	1.9	
19	7.1	21	83	21	50	61	39	268	25	18	5.8	2.5	
20	5.8	22	77	21	60	59	35	155	20	11	4.0	2.9	
21	8.7	18	77	21	124	54	32	84	17	9.8	4.3	3.3	
22	11	17	311	21	694	53	29	56	15	9.9	4.4	3.0	
23	11	15	366	21	3230	52	29	48	15	14	4.2	2.6	
24	9.3	14	137	21	4140	51	28	39	16	8.3	6.0	3.0	
25	9.1	13	92	21	1810	51	29	31	12	7.6	11	4.6	
26	8.9	13	62	21	592	47	27	24	11	9.2	19	6.2	
27	8.5	13	47	21	341	41	26	21	9.1	18	13	3.4	
28	12	37	44	21	212	41	25	20	8.9	13	7.8	2.5	
29	57	124	48	21	---	46	22	22	7.9	9.0	6.9	2.4	
30	33	110	753	21	---	197	23	19	8.6	6.8	7.0	2.7	
31	23	---	914	21	---	1260	---	20	---	6.9	15	---	
TOTAL	305.1	2317	5810	3075	11786	5912	5174	6402	1724.5	992.0	330.3	125.1	
MEAN	9.84	77.2	187	99.2	421	191	172	207	57.5	32.0	10.7	4.17	
MAX	57	481	914	1070	4140	1260	1410	1800	715	166	70	18	
MIN	3.4	13	18	21	21	41	22	19	7.9	6.8	4.0	1.9	
CFSM	.06	.43	1.05	.56	2.37	1.07	.97	1.16	.32	.18	.06	.02	
IN.	.06	.48	1.21	.64	2.46	1.24	1.08	1.34	.36	.21	.07	.03	
CAL YR 1984	TOTAL	56999.3		MEAN	156	MAX	2850	MIN	2.9	CFSM	.89	IN.	11.88
WTR YR 1985	TOTAL	43953.0		MEAN	120	MAX	4140	MIN	1.9	CFSM	.67	IN.	9.19



## SCIOTO RIVER BASIN

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03221000 SCIOTO RIVER BELOW O'SHAUGHNESSY DAM, NEAR DUBLIN, OH

LOCATION.--Lat 40°08'36", long 83°07'14", Delaware County, Hydrologic Unit 05060001, on left bank, 0.2 mi north of county line, 0.8 mi downstream from O'Shaughnessy Dam, and 3.0 mi north of Dublin.

DRAINAGE AREA.--980 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 803: 1924-35. WSP 1725: 1924. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 775.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 26, 1921, nonrecording gage at site 0.8 mi upstream at same datum. Aug. 26, 1921, to Oct. 13, 1924, nonrecording gage at site 100 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1924 by O'Shaughnessy Reservoir 0.8 mi upstream (see station 03220500). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--64 years, 788 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 22.04 ft, from flood-mark; minimum daily, 0.4 ft<sup>3</sup>/s Nov. 8, 1924.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 24.6 ft, discharge, 74,500 ft<sup>3</sup>/s at Griggs Dam, 9 mi downstream from gage, computed by C.E. Sherman, Ohio State University.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,500 ft<sup>3</sup>/s Feb. 24, gage height, 11.66 ft; minimum daily, 19 ft<sup>3</sup>/s Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	66	230	2610	80	3390	4240	196	274	86	58	112
2	19	66	194	3680	80	2190	3150	1840	235	107	35	140
3	45	65	173	2710	80	1530	2620	4180	210	236	30	128
4	84	77	149	2010	80	1230	1740	2460	170	408	29	104
5	82	54	139	1300	80	1580	1140	1470	158	325	29	81
6	82	27	132	830	80	2060	2370	920	144	467	28	65
7	85	27	102	644	80	1580	2680	631	132	610	42	54
8	85	27	106	529	80	1050	2080	482	126	462	83	50
9	85	34	102	416	80	1090	1420	384	190	389	81	49
10	87	36	109	346	80	1040	987	328	967	273	60	49
11	90	69	180	280	86	936	802	282	942	182	54	46
12	90	334	346	245	90	1490	675	251	2480	145	31	33
13	90	413	513	215	98	1890	587	234	1960	116	27	24
14	90	290	1090	195	105	1440	520	241	1560	110	26	21
15	92	225	1680	175	110	1070	484	697	1130	160	40	20
16	93	186	1240	160	113	834	470	475	842	243	59	21
17	96	152	904	140	118	677	403	817	690	181	82	61
18	95	141	634	130	120	558	369	969	569	115	157	125
19	96	155	474	120	124	507	340	1060	518	87	143	73
20	97	99	397	108	140	480	315	863	457	75	100	24
21	100	86	350	100	258	490	292	725	368	69	72	25
22	91	74	574	94	1030	595	270	952	303	68	57	24
23	80	75	1270	90	6970	574	254	937	258	55	47	26
24	82	75	925	86	12500	509	248	674	223	48	57	27
25	82	72	636	84	10700	482	243	488	185	46	66	26
26	82	70	459	84	8470	449	227	378	160	66	90	27
27	82	66	350	84	7050	418	218	315	136	65	120	27
28	86	99	300	84	5060	396	215	300	119	65	143	26
29	86	178	288	82	---	403	188	274	103	54	128	26
30	84	267	1040	82	---	571	173	292	93	48	119	27
31	77	---	2720	80	---	2230	---	302	---	49	97	---
TOTAL	2534	3605	17806	17793	53942	33739	29720	24417	15702	5410	2190	1541
MEAN	81.7	120	574	574	1927	1088	991	788	523	175	70.6	51.4
MAX	100	413	2720	3680	12500	3390	4240	4180	2480	610	157	140
MIN	19	27	102	80	80	396	173	196	93	46	26	20
CAL YR 1984	TOTAL	300291	MEAN	820	MAX	9980	MIN	19				
WTR YR 1985	TOTAL	208399	MEAN	571	MAX	12500	MIN	19				

## SCIOTO RIVER BASIN

03223000 OLENTANGY RIVER AT CLARIDON, OH

LOCATION.--Lat 40°34'58", long 82°59'20". in NW 1/4 sec. 26, T.5 S., R.16 E., Marion County, Hydrologic Unit 05060001, on left bank 900 ft downstream from bridge on State Highway 95, 0.5 mi east of Claridon, 0.8 mi downstream from Otter Creek, and 1.4 mi upstream from Beaver Run.

DRAINAGE AREA.--157 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1235: 1947, 1948(P). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 961.72 ft above National Geodetic Vertical Datum of 1929. (Levels by U.S. Army Corps of Engineers). Prior to Aug. 18, 1969 water-stage recorder at site 1,000 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 20. Records good except estimated daily discharges, which are fair. Small diversion at gage for irrigation of golf course. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--39 years, 154 ft<sup>3</sup>/s, 13.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 16.77 ft, from rating curve extended above 4,700 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; no flow Oct. 2-26, 1953, Sept. 14-22, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 1,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	1200	*5870	*13.38	No other peak greater than base discharge.			

Minimum discharge, 4.4 ft<sup>3</sup>/s Sept. 22, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	7.3	35	76	879	33	283	1010	28	55	17	7.8	121	
2	6.4	61	65	1130	33	250	493	217	42	123	8.1	50	
3	5.6	123	61	531	33	205	254	252	39	373	8.0	30	
4	7.5	188	54	249	32	207	208	123	35	133	7.2	20	
5	6.9	895	42	177	32	511	170	78	32	65	7.5	17	
6	5.6	572	42	134	32	349	493	62	32	100	7.4	14	
7	5.3	195	43	116	32	195	486	54	30	70	8.0	12	
8	6.4	114	39	100	32	221	236	46	26	42	39	11	
9	6.3	84	37	76	32	249	172	39	196	31	39	10	
10	7.9	254	52	66	32	185	141	36	312	26	19	13	
11	9.3	592	234	58	32	154	126	33	149	42	13	17	
12	8.4	421	321	54	50	366	113	31	890	36	8.9	13	
13	10	202	333	50	60	416	103	28	673	23	7.2	9.9	
14	7.9	131	441	47	68	217	99	25	312	18	7.3	8.1	
15	6.9	95	503	45	74	163	102	55	168	73	13	7.0	
16	6.9	79	269	43	78	130	88	52	147	106	282	6.6	
17	6.0	68	178	41	82	115	73	101	155	64	287	6.0	
18	5.6	57	130	39	86	97	66	145	184	33	83	5.6	
19	6.3	54	106	38	88	85	61	135	163	21	48	5.6	
20	5.9	48	96	37	92	86	56	82	89	17	38	5.4	
21	5.8	40	98	36	113	83	51	421	61	15	24	5.1	
22	6.6	35	526	36	535	73	48	395	48	14	17	4.5	
23	11	34	413	35	2220	70	45	163	51	12	13	4.4	
24	15	34	178	35	5350	73	43	90	46	11	13	5.1	
25	12	32	121	35	2930	79	41	65	35	10	99	5.1	
26	11	31	85	34	1350	70	36	52	29	10	93	8.0	
27	9.9	29	80	34	579	64	32	44	25	11	43	7.0	
28	18	42	76	34	372	66	31	136	22	10	27	5.5	
29	132	119	115	33	---	110	28	229	20	9.8	19	4.9	
30	149	112	957	33	---	272	26	112	18	8.0	98	5.4	
31	60	---	1040	33	---	706	---	72	---	8.5	293	---	
TOTAL	568.7	4776	6811	4288	14482	6150	4931	3401	4084	1532.3	1677.4	437.2	
MEAN	18.3	159	220	138	517	198	164	110	136	49.4	54.1	14.6	
MAX	149	895	1040	1130	5350	706	1010	421	890	373	293	121	
MIN	5.3	29	37	33	32	64	26	25	18	8.0	7.2	4.4	
CFSM	.12	1.01	1.40	.88	3.29	1.26	1.04	.70	.87	.31	.34	.09	
IN.	.13	1.13	1.61	1.02	3.43	1.46	1.17	.81	.97	.36	.40	.10	
CAL YR 1984	TOTAL	60967.1		MEAN	167	MAX	2710	MIN	3.1	CFSM	1.06	IN.	14.44
WTR YR 1985	TOTAL	53138.6		MEAN	146	MAX	5350	MIN	4.4	CFSM	.93	IN.	12.59

## SCIOTO RIVER BASIN

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03225500 OLENTANGY RIVER NEAR DELAWARE, OH

LOCATION.--Lat 40°21'18", long 83°04'02", in NE 1/4 T.5 N., R.19 W., Delaware County, Hydrologic Unit 05060001, on left bank 500 ft upstream from highway bridge, 1,000 ft downstream from Delaware Dam, 1.3 ft upstream from Norfolk and Western Railway bridge, and 4.0 mi north of Delaware.

DRAINAGE AREA.--393 mi<sup>2</sup>.

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 National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1950, water-stage recorder at this site 500 ft downstream at datum 76.7 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Delaware Lake since 1951. Water-quality data collected at this site 1965 to 1977. Water-temperature data collected 1946 to 1961.

AVERAGE DISCHARGE.--58 years, 352 ft<sup>3</sup>/s, 10.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft<sup>3</sup>/s Mar. 21, 1927, gage-height, 16.9 ft, site and datum then in use; minimum daily, 0.1 ft<sup>3</sup>/s Sept. 14-29, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,590 ft<sup>3</sup>/s Feb. 27, gage height, 86.59 ft; minimum daily, 18 ft<sup>3</sup>/s Oct. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	210	2000	60	4430	1380	51	57	22	39	131
2	21	21	208	2520	60	4240	1290	569	56	147	39	175
3	21	22	132	2470	60	2110	452	374	90	542	39	173
4	22	26	101	849	60	403	366	724	106	341	39	94
5	22	796	109	345	60	1120	501	1090	66	64	39	39
6	22	1760	100	345	60	1090	736	812	46	234	39	35
7	22	868	73	267	60	299	1080	160	46	336	39	25
8	21	612	66	233	60	395	1080	37	46	110	39	25
9	20	635	66	112	60	438	486	46	65	34	40	24
10	21	635	66	111	60	438	267	66	709	28	41	24
11	21	652	273	111	60	524	311	75	1090	23	41	24
12	21	1070	703	111	84	1010	157	74	1070	51	40	23
13	21	1340	858	111	168	1250	99	74	1610	75	41	22
14	22	986	964	113	170	555	215	73	1820	75	41	21
15	23	415	1120	114	109	366	331	74	741	76	42	22
16	24	412	1110	112	109	360	230	162	395	75	42	23
17	24	406	473	111	109	360	134	378	352	111	40	22
18	23	401	232	111	281	184	54	487	277	81	40	22
19	23	179	262	111	258	165	54	401	273	46	64	22
20	22	42	228	102	150	245	74	230	170	46	76	22
21	21	56	207	61	704	176	74	256	122	41	57	22
22	21	66	210	61	2290	140	131	827	122	32	41	22
23	21	66	210	61	1660	161	168	647	80	35	39	22
24	22	66	804	61	1040	161	112	221	60	34	40	22
25	22	66	945	61	2480	180	74	154	78	34	39	22
26	22	63	751	61	4290	165	64	107	57	35	113	22
27	22	63	200	61	4480	140	50	86	46	35	118	22
28	20	62	153	61	4430	140	50	76	31	34	67	22
29	18	117	163	61	---	140	49	184	23	34	44	22
30	18	193	195	72	---	144	49	253	22	34	40	22
31	20	---	1620	83	---	180	---	143	---	34	40	---
TOTAL	664	12116	12812	11063	23472	21709	10118	8911	9726	2899	1498	1188
MEAN	21.4	404	413	357	838	700	337	287	324	93.5	48.3	39.6
MAX	24	1760	1620	2520	4480	4430	1380	1090	1820	542	118	175
MIN	18	20	66	61	60	140	49	37	22	22	39	21
CAL YR 1985	TOTAL	175640		MEAN	480	MAX	3840	MIN	17			
WTR YR 1985	TOTAL	116176		MEAN	318	MAX	4480	MIN	18			

## SCIOTO RIVER BASIN

03227500 SCIOTO RIVER AT COLUMBUS, OH

LOCATION.--Lat 39°54'34", long 83°00'33", Franklin County, Hydrologic Unit 05060001, on right bank at sewage-treatment plant of city of Columbus, 0.4 mi downstream from bridge on Frank Road, 2.8 mi upstream from Scioto Big Run, and 5 mi downstream from Olentangy River.

DRAINAGE AREA.--1,629 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 743: 1927(M). WSP 803: 1922-24, 1926-30, 1932-33. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 680.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1924, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 14 to Feb. 18. Records good except for estimated daily discharges, Jan. 14 to Feb. 18, which are fair. Flow regulated by Griggs Reservoir 10.4 mi upstream (see station 03221500), O'Shaughnessy Reservoir 20.4 mi upstream (see station 03220500), and Delaware Lake 35 mi upstream from station. Records include sewage return flow from Frank Road Treatment Plant. Shadeville Treatment Plant flow enters downstream. Water supply for city of Columbus is obtained from Scioto River downstream from Griggs Dam and Big Walnut Creek downstream from Central College. For statement on diversions from Big Walnut Creek, see REMARKS for station 03229500. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--65 years, 1,392 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,200 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 27.22 ft, from high-water mark in well, from rating curve extended above 46,000 ft<sup>3</sup>/s; minimum daily, 47 ft<sup>3</sup>/s Sept. 6, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 25.9 ft, discharge, 138,000 ft<sup>3</sup>/s, estimated by Franklin County Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,600 ft<sup>3</sup>/s Feb. 24, gage height, 18.26 ft; minimum daily, 150 ft<sup>3</sup>/s Oct. 13, 14, Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	421	596	4610	250	8360	4670	373	579	206	306	233
2	173	660	543	5840	250	6850	5530	2510	426	428	227	281
3	158	264	556	5530	250	5890	3600	5730	390	586	199	404
4	151	571	431	4450	240	4320	2730	3620	383	1070	182	381
5	162	854	368	2310	240	2570	2000	2990	386	935	187	290
6	151	1500	391	1560	240	3130	3120	2390	356	973	200	205
7	157	1640	339	1300	240	2950	3840	1560	293	1050	206	173
8	219	807	302	1110	240	2140	3690	884	288	978	231	160
9	191	923	314	889	240	1820	2660	646	291	702	200	167
10	166	1340	613	698	240	1790	1870	539	796	498	187	173
11	160	1140	680	619	240	1910	1440	502	2030	377	175	170
12	154	1060	981	562	300	2870	1320	484	3550	299	179	163
13	150	1820	1710	495	400	3310	1070	463	3440	258	184	160
14	150	1730	2560	470	450	2900	869	464	3520	246	211	155
15	170	1060	3090	440	480	1850	964	1600	2790	1990	235	150
16	258	759	2670	420	520	1600	1030	1220	1650	617	273	160
17	236	687	2220	400	540	1430	874	1700	1350	473	209	159
18	196	686	1180	380	560	1250	713	1990	1130	394	183	161
19	188	716	1070	360	589	1060	640	2120	960	348	182	170
20	176	423	938	350	828	922	524	1670	902	266	203	172
21	308	260	962	330	815	935	520	1260	704	401	229	165
22	481	239	1250	320	2240	930	482	1320	565	581	207	159
23	305	247	1620	310	10200	958	520	2050	525	268	175	169
24	221	236	1530	300	16200	956	543	1440	454	230	697	247
25	204	232	1790	290	14100	875	522	954	341	214	496	187
26	202	233	1600	290	10100	814	414	735	328	220	600	229
27	186	240	1260	280	11400	793	392	613	306	262	293	199
28	208	415	706	270	10200	731	362	719	260	203	343	165
29	558	386	637	260	---	976	343	521	234	205	291	162
30	293	469	1780	260	---	1860	312	573	214	202	302	177
31	222	---	3260	260	---	2950	---	684	---	216	282	---
TOTAL	6734	22018	37947	35963	82592	71700	47564	44324	29441	15696	8074	5946
MEAN	217	734	1224	1160	2950	2313	1585	1430	981	506	260	198
MAX	558	1820	3260	5840	16200	8360	5530	5730	3550	1990	697	404
MIN	150	232	302	260	240	731	312	373	214	202	175	150
CAL YR 1984	TOTAL	529694		MEAN	1447	MAX	16300	MIN	147			
WTR YR 1985	TOTAL	407999		MEAN	1118	MAX	16200	MIN	150			



SCIOTO RIVER BASIN

151

03228500 BIG WALNUT CREEK AT CENTRAL COLLEGE, OH

LOCATION.--Lat 40°06'13", long 82°53'03", T.2 N., R.17 W., Franklin County, Hydrologic Unit 05060001, on right bank at upstream side of county road bridge, 0.2 mi east of Central College, 0.4 mi downstream from Hoover Dam, and 3 mi southeast of Westerville.

DRAINAGE AREA.--190 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 873: 1938. WSP 1435: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 815.16 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Hoover Reservoir since September 1954. (See station 03228400). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 188 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,800 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 19.75 ft, from rating curve extended above 7,200 ft<sup>3</sup>/s on basis of computation of peak flow over Hoover Dam; no flow for many days in 1944 and 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,150 ft<sup>3</sup>/s Feb. 24, gage height, 8.01 ft; minimum daily, 86 ft<sup>3</sup>/s Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	106	102	91	110	130	501	131	146	150	127	106
2	106	112	102	95	96	137	352	176	122	110	113	117
3	112	110	108	103	118	137	166	519	129	126	129	130
4	119	101	104	109	115	136	153	337	116	115	143	126
5	99	115	103	102	110	119	137	192	112	111	120	140
6	113	105	107	103	114	133	509	154	147	119	106	131
7	102	103	106	105	107	130	345	134	139	106	131	145
8	108	120	110	109	112	130	212	140	136	116	124	163
9	110	101	109	102	107	130	193	142	117	138	144	139
10	108	115	110	102	113	134	129	140	136	131	150	125
11	119	100	116	111	128	138	131	148	124	123	140	132
12	109	105	94	100	103	168	129	138	108	140	142	125
13	100	107	104	101	121	795	126	141	142	144	161	130
14	114	115	97	113	103	782	116	144	132	139	151	121
15	118	105	96	109	118	621	135	132	109	165	121	138
16	113	110	101	109	109	544	130	126	106	150	120	129
17	115	101	103	112	118	581	119	180	123	117	114	138
18	101	100	102	102	109	299	127	135	155	129	126	142
19	137	103	102	109	123	127	136	144	130	133	139	153
20	106	107	98	148	107	124	138	141	117	119	123	165
21	103	103	104	136	118	123	138	131	121	125	118	164
22	103	106	98	112	146	127	134	141	123	120	140	178
23	102	89	97	121	122	114	130	133	107	125	126	169
24	121	94	94	117	1230	127	125	142	134	130	115	138
25	112	94	86	114	868	131	119	139	133	139	113	139
26	119	117	102	114	152	128	128	138	147	122	111	121
27	111	109	97	116	151	122	131	138	148	116	113	114
28	104	109	99	122	135	118	130	122	155	134	121	122
29	114	114	100	108	---	115	137	142	170	140	127	126
30	114	106	103	113	---	145	143	131	183	141	118	116
31	108	---	94	106	---	181	---	123	---	124	115	---
TOTAL	3432	3182	3148	3414	5163	6926	5299	4974	3967	3997	3941	4082
MEAN	111	106	102	110	184	223	177	160	132	129	127	136
MAX	137	120	116	148	1230	795	509	519	183	165	161	178
MIN	99	89	86	91	96	114	116	122	106	106	106	106
CAL YR 1984	TOTAL	83932	MEAN	229	MAX	2470	MIN	86				
WTR YR 1985	TOTAL	51525	MEAN	141	MAX	1230	MIN	86				

## SCIOTO RIVER BASIN

03228805 ALUM CREEK AT AFRICA, OH

LOCATION.--Lat 40°11'00", long 82°57'47", in SE 1/4 sec. 1, T.3 N., R.18 W., Delaware County, Hydrologic Unit 05060001, on right bank 400 ft upstream of bridge on Lewis Center Road, 1,200 ft downstream from outlet of Alum Creek Dam, 0.3 mi west of Africa, 2.8 mi upstream from Westerville Reservoir outlet, and 4.2 mi northwest of Westerville.

DRAINAGE AREA.--122 mi<sup>2</sup>.

PERIOD OF RECORD.--Water year 1962 (occasional low-flow measurements) June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above National Geodetic Vertical Datum of 1929. (levels by U.S. Army Corps of Engineers). Oct. 17, 1973 to July 9, 1974 nonrecording gage at bridge 400 ft downstream at same datum. Prior to Oct. 17, 1973 water-stage recorder 600 ft downstream at datum 17.37 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Alum Creek Lake since August 1973. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--9 years (water years 1964-72), 115 ft<sup>3</sup>/s, 12 years (water years 1974-85), 106 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,160 ft<sup>3</sup>/s Mar. 10, 1964, gage height, 13.95 ft, from graph based on gage readings, site and datum then in use; no flow at times 1963-65.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 5, 1963 reached a stage of 14.2 ft, from floodmarks, discharge, 6,460 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,900 ft<sup>3</sup>/s Feb. 27, gage height, 27.41 ft; minimum daily, 7.8 ft<sup>3</sup>/s Nov. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	16	164	667	29	1740	12	12	9.9	13	11	11
2	13	184	164	536	29	1640	10	14	9.9	11	11	11
3	17	432	136	215	29	575	9.5	62	9.9	9.2	11	11
4	17	429	45	29	29	119	10	83	10	9.0	11	11
5	17	162	19	29	29	255	12	83	10	11	11	11
6	17	16	19	28	29	352	13	138	9.9	12	11	11
7	17	16	18	28	29	173	12	159	9.9	11	11	11
8	17	16	17	28	29	95	12	133	9.9	11	11	12
9	17	244	17	28	29	95	13	64	10	11	11	12
10	17	669	17	28	29	94	13	44	9.9	10	11	12
11	17	663	58	28	30	163	12	44	13	10	11	13
12	17	257	132	28	30	298	12	35	156	11	11	13
13	17	8.5	502	28	30	347	12	19	268	10	11	13
14	17	8.5	413	28	49	347	12	18	308	10	11	12
15	17	7.8	97	28	86	171	12	56	323	27	11	12
16	17	8.3	97	28	88	90	12	56	260	34	12	12
17	17	8.4	455	28	88	90	11	43	113	34	12	13
18	17	8.1	236	29	88	90	9.7	42	42	25	15	12
19	17	8.1	25	29	132	71	9.8	41	13	21	15	12
20	17	8.5	25	30	196	44	9.9	40	13	21	15	12
21	17	8.3	25	30	197	44	11	41	13	21	13	12
22	19	8.1	24	30	202	45	13	69	13	21	11	12
23	19	7.9	24	30	203	46	13	56	13	20	11	12
24	18	8.0	97	29	203	46	13	47	13	15	11	13
25	18	8.0	153	29	141	46	12	37	14	12	11	13
26	75	100	138	29	511	46	12	24	13	12	11	12
27	171	162	105	29	1430	46	12	15	13	12	11	13
28	173	163	71	29	1710	46	12	11	13	11	11	12
29	71	164	27	29	---	28	12	10	13	11	11	11
30	16	164	30	29	---	24	12	10	13	11	11	11
31	16	---	417	29	---	17	---	10	---	11	12	---
TOTAL	941.5	3963.5	3767	2222	5704	7283	350.9	1516	1739.3	468.2	358	358
MEAN	30.4	132	122	71.7	204	235	11.7	48.9	58.0	15.1	11.5	11.9
MAX	173	669	502	667	1710	1740	13	159	323	34	15	13
MIN	9.5	7.8	17	28	29	17	9.5	10	9.9	9.0	11	11
CAL YR 1984	TOTAL	39849.1	MEAN	109	MAX	1040	MIN	6.4				
WTR YR 1985	TOTAL	28671.4	MEAN	78.6	MAX	1740	MIN	7.8				

SCIOTO RIVER BASIN

153

03229000 ALUM CREEK AT COLUMBUS, OH

LOCATION.--Lat 39°56'42", long 82°56'28", in NW 1/4 sec. 24, T.5 N., R.22 W., Franklin County, Hydrologic Unit 05060001, on left bank 0.2 mi downstream from Livingston Avenue bridge in Columbus, and 6 mi upstream from mouth.

DRAINAGE AREA.--189 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 758 1933. WSP 1305: 1928(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 733.69 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 20 and July 25 to Aug. 22. Records poor. Flow regulated by Alum Creek Lake 19 mi upstream, since Aug. 1973. Water-quality data collected at this site 1960 to 1977. Sediment data collected 1960 to 1965.

AVERAGE DISCHARGE.--59 years, 172 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 19.59 ft (from high-water mark in well), from rating curve extended above 17,000 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; no flow Sept. 21-29, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,860 ft<sup>3</sup>/s July 15, gage height, 6.71 ft; minimum daily, 8.4 ft<sup>3</sup>/s Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	172	207	999	41	2100	193	58	30	21	60	12
2	29	170	196	947	41	2080	101	591	24	49	45	10
3	17	521	213	511	41	1440	76	148	25	40	30	11
4	23	791	122	118	41	202	67	118	24	19	22	10
5	23	569	49	92	41	410	68	107	23	94	16	9.4
6	22	65	46	82	41	533	222	115	23	142	17	9.2
7	31	43	42	88	41	426	104	167	20	32	20	8.8
8	57	36	44	90	41	294	81	160	20	40	32	10
9	32	75	47	75	42	191	75	102	39	20	21	9.7
10	26	1000	216	65	42	164	58	57	31	22	16	8.9
11	24	917	165	58	45	309	52	53	70	19	21	8.4
12	25	698	170	54	47	840	47	56	160	15	17	9.1
13	26	59	593	52	54	591	44	41	425	15	15	9.9
14	26	37	1180	50	80	548	43	56	401	17	13	11
15	44	39	239	49	98	416	42	187	473	758	23	11
16	54	39	163	48	100	151	45	181	454	69	66	12
17	33	39	330	47	105	143	42	229	187	48	42	11
18	30	49	659	45	108	138	39	162	89	43	26	11
19	30	58	106	44	110	136	39	131	37	31	16	11
20	33	37	86	43	115	104	37	72	27	28	11	11
21	100	30	114	43	326	91	36	68	26	121	12	11
22	141	30	217	42	1240	84	39	67	27	64	13	11
23	58	29	100	42	1600	90	41	91	33	30	10	10
24	35	32	88	41	825	101	41	60	26	27	177	29
25	33	29	202	41	554	83	45	58	23	25	124	33
26	38	29	200	41	293	75	32	41	24	37	84	41
27	158	182	147	41	1440	75	30	46	22	68	23	47
28	249	288	140	41	2080	79	31	99	21	40	14	21
29	308	210	90	41	---	137	28	31	20	22	13	17
30	49	206	454	41	---	427	28	28	19	21	22	18
31	32	---	353	41	---	579	---	27	---	19	23	---
TOTAL	1820	6479	6978	4012	9632	13037	1826	3407	2823	1996	1044	442.4
MEAN	58.7	216	225	129	344	421	60.9	110	94.1	64.4	33.7	14.7
MAX	308	1000	1180	999	2080	2100	222	591	473	758	177	47
MIN	17	29	42	41	41	75	28	27	19	15	10	8.4
CAL YR 1984	TOTAL	72596		MEAN	198	MAX	2810	MIN	11			
WTR YR 1985	TOTAL	53496.4		MEAN	147	MAX	2100	MIN	8.4			

## SCIOTO RIVER BASIN

03229500 BIG WALNUT CREEK AT REES, OH

LOCATION.--Lat 39°51'24", long 82°57'26", in NE 1/4 sec. 26, T.4 N., R.22 W., Franklin County, Hydrologic Unit 05060001, on right bank at downstream side of bridge on Reese Road, 0.5 mi southwest of Rees, 4.2 mi downstream from Alum Creek, and 10.5 mi upstream from mouth.

DRAINAGE AREA.--544 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1921 to December 1935, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1053: 1929, 1933(M), 1945. WSP 1305: 1923(M), 1925-26(M).

GAGE.--Water-stage recorder. Datum of gage is 698.20 ft above National Geodetic Vertical Datum of 1929. Aug. 18, 1921, to Oct. 23, 1927, nonrecording gage at site 0.3 mi upstream at datum 2.00 ft higher prior to Oct. 1, 1924, at present datum thereafter.

REMARKS.--Estimated daily discharges: Jan. 14 to Feb. 20. Record good except for periods of estimated record, which are fair. Flow regulated by Hoover Reservoir 26 mi upstream (see station 03228400) and Alum Creek Lake 30 mi upstream since August 1973. Beginning June 15, 1956, diversion at Morse Road Treatment Plant, 21 mi upstream from station, for municipal water supply for the city of Columbus. Water-quality data collected at this site 1964 to 1977.

AVERAGE DISCHARGE.--61 years, 521 ft<sup>3</sup>/s (adjusted for diversion).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,800 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 22.03 ft (from high-water mark in well), from rating curve extended above 13,000 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; minimum, 5 ft<sup>3</sup>/s Sept. 4, 5, 10-12, 1925; minimum daily, since 1956, 9.4 ft<sup>3</sup>/s Sept. 13, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 20.5 ft, present datum, at site 0.3 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,910 ft<sup>3</sup>/s Feb. 23, gage height, 9.80 ft; minimum daily, 36 ft<sup>3</sup>/s Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	187	267	1060	67	1940	1100	94	97	71	199	67
2	90	620	243	1100	67	1930	841	1380	83	92	103	58
3	51	455	269	652	67	1650	471	787	78	236	81	56
4	42	807	194	289	67	390	324	693	77	109	77	55
5	48	956	118	193	67	846	280	384	73	108	69	54
6	47	232	98	166	67	704	494	276	72	691	81	58
7	52	134	89	157	67	604	707	295	68	179	77	61
8	88	104	91	177	67	827	428	272	70	257	106	55
9	96	138	98	139	67	550	331	215	76	145	82	53
10	62	1180	276	129	67	386	264	154	102	97	72	53
11	52	1060	661	129	67	558	206	128	118	94	79	54
12	47	809	401	115	74	1750	189	128	333	79	70	47
13	50	185	585	106	108	1260	168	129	394	67	62	45
14	53	114	1650	98	150	1400	165	109	407	67	60	44
15	52	106	716	94	168	1170	150	451	457	3550	162	54
16	177	111	362	90	180	728	153	431	479	765	200	46
17	98	88	319	85	188	661	140	552	307	310	100	41
18	67	96	785	84	193	671	126	407	188	195	73	37
19	57	137	241	82	200	305	117	464	157	156	67	39
20	52	97	215	80	240	235	112	242	119	126	60	40
21	107	79	210	78	452	209	111	194	87	124	61	38
22	251	74	677	76	1920	192	105	179	83	805	63	36
23	214	71	327	74	5180	220	102	175	101	205	57	49
24	100	73	216	73	3210	218	100	149	84	143	283	90
25	78	72	263	72	2650	203	103	129	72	121	268	98
26	80	65	264	71	862	188	94	117	66	123	421	104
27	117	164	226	70	1480	179	82	98	64	199	113	124
28	241	393	204	69	1950	181	82	235	62	113	76	67
29	457	312	170	68	---	371	79	135	62	97	67	51
30	156	269	894	68	---	1670	71	98	62	95	65	46
31	86	---	617	67	---	2120	---	127	---	92	86	---
TOTAL	3232	9188	11746	5811	19942	24316	7695	9227	4498	9511	3440	1720
MEAN	104	306	379	187	712	784	257	298	150	307	111	57.3
MAX	457	1180	1650	1100	5180	2120	1100	1380	479	3550	421	124
MIN	42	65	89	67	67	179	71	94	62	67	57	36
(+)	112	102	100	110	115	119	120	126	140	152	163	148
CAL YR 1984 TOTAL	165211		MEAN	451	MAX	8940	MIN	33	(+)	115		
WTR YR 1985 TOTAL	110326		MEAN	302	MAX	5180	MIN	36	(+)	126		

(+) average diversions to City of Columbus Municipal Water Supply.



## 03230500 BIG DARBY CREEK AT DARBYVILLE, OH

LOCATION.--Lat 39°42'02", long 83°06'37", Pickaway County, Hydrologic Unit 05060001, on left bank 150 ft downstream from bridge on State Highway 316, 0.4 mi northeast of Darbyville, 0.4 mi upstream from Lizzard Run, and 3.0 mi downstream from Greenbrier Creek.

DRAINAGE AREA.--534 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Prior to October 1959, published as Darby Creek at Darbyville.

REVISED RECORDS.--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.

GAGE.--Water-stage recorder. Datum of gage is 713.69 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 17, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 14 to Feb. 21 and May 9-28. Records good except for estimated daily discharges, which are fair. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--61 years, 453 ft<sup>3</sup>/s, 11.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,000 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 17.94 ft from rating curve extended above 22,000 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; minimum observed, 1.4 ft<sup>3</sup>/s Sept. 17, 1932.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 4,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 25	0300	*8,130	*11.59	No other peak greater than base discharge.			
Minimum discharge, 25 ft <sup>3</sup> /s Oct. 7, 8.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	93	295	1520	120	1090	3740	150	180	67	86	64
2	28	169	224	1650	120	907	2120	855	160	72	85	61
3	28	108	189	1460	120	765	1330	3050	147	94	83	66
4	28	96	159	913	120	691	1010	2410	139	93	72	63
5	28	350	145	681	120	859	809	1170	133	91	71	55
6	27	641	139	515	120	975	1130	816	131	168	66	49
7	26	403	152	440	120	743	1820	597	127	115	62	46
8	26	245	116	398	110	778	1150	487	123	115	58	43
9	27	195	128	327	110	909	900	420	120	99	69	41
10	29	396	128	280	110	809	723	370	117	92	158	39
11	29	425	408	269	110	822	629	340	118	76	107	37
12	29	730	523	237	110	1690	549	310	143	67	80	36
13	29	517	682	208	140	2010	486	290	230	60	66	34
14	28	315	1020	200	180	1220	450	380	364	55	58	34
15	28	236	1800	190	170	896	427	520	274	1370	62	34
16	30	198	1330	180	160	705	404	680	219	1080	80	34
17	33	165	860	170	170	610	366	520	186	1020	69	34
18	33	152	624	170	180	525	324	720	174	512	73	33
19	31	147	497	160	190	452	298	500	156	315	71	32
20	31	140	453	160	190	416	278	420	139	223	67	31
21	33	124	473	150	210	376	257	360	124	180	58	31
22	47	118	959	150	1060	343	239	320	116	315	52	29
23	59	105	899	150	3620	339	226	300	118	231	48	27
24	52	104	684	140	6180	338	214	270	102	169	90	27
25	45	101	495	140	7050	318	208	250	98	133	162	28
26	44	96	375	140	2940	282	195	240	94	117	461	32
27	43	95	316	140	1810	256	179	220	87	110	160	30
28	42	119	293	130	1360	255	172	210	78	97	105	29
29	42	180	283	130	---	412	162	199	74	86	89	29
30	50	341	631	130	---	2130	149	184	71	77	80	32
31	82	---	2010	130	---	3640	---	176	---	76	70	---
TOTAL	1115	7104	17290	11658	27000	26561	20944	17734	4342	7375	2918	1160
MEAN	36.0	237	558	376	964	857	698	572	145	238	94.1	38.7
MAX	82	730	2010	1650	7050	3640	3740	3050	364	1370	461	66
MIN	26	93	116	130	110	255	149	150	71	55	48	27
CFSM	.07	.44	1.04	.70	1.81	1.60	1.31	1.07	.27	.45	.18	.07
IN.	.08	.49	1.20	.81	1.88	1.85	1.46	1.24	.30	.51	.20	.08
CAL YR 1984	TOTAL	173707	MEAN	475	MAX	5800	MIN	20	CFSM	.89	IN.	12.08
WTR YR 1985	TOTAL	145201	MEAN	398	MAX	7050	MIN	26	CFSM	.75	IN.	10.12

## SCIOTO RIVER BASIN

03230900 DEER CREEK NEAR PANCOASTBURG, OH

LOCATION.--Lat 39°37'14", long 83°12'47", Pickaway County, Hydrologic Unit 05060002, on left bank 200 ft downstream from bridge on Crownover Mill Road, 1,200 ft downstream from Deer Creek Dam, and 2.8 mi east of Pancoastburg.

DRAINAGE AREA.--277 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1964-66 (Occasional low-flow measurements and annual maximums), July 1966 to current year.

REVISED RECORDS.--WRD Ohio 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 768.00 ft above National Geodetic Vertical Datum of 1929, U.S. Army Corps of Engineers bench mark. Oct. 23, 1963, to June 30, 1966, crest-stage gage at site 200 ft upstream at datum 8.16 ft lower. July 1, 1966 to Sept. 30, 1983 at datum 68.00 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Deer Creek Lake (capacity 26,440 acre-ft) since April 1, 1968. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--19 years 265 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft<sup>3</sup>/s (estimated) Mar. 10, 1964, gage height, 12.93 ft, present datum; no flow May 25-27, 1968, result of dam closure.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,790 ft<sup>3</sup>/s Feb. 28, gage height, 5.44 ft; minimum daily, 11 ft<sup>3</sup>/s Aug. 15-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	204	222	811	93	1740	172	123	85	14	17	88
2	89	264	221	803	93	1730	559	294	84	14	17	34
3	84	264	218	789	93	1670	818	662	83	18	17	15
4	83	264	184	487	59	1580	490	772	72	24	17	15
5	85	420	140	303	42	1220	385	766	52	42	17	15
6	85	611	139	303	54	639	384	750	51	50	17	15
7	85	604	115	303	68	428	387	737	66	50	17	15
8	85	593	69	265	68	425	625	569	85	103	17	15
9	83	495	69	218	69	428	737	239	85	127	17	15
10	83	363	174	164	69	428	498	139	83	75	17	15
11	85	367	406	140	66	429	315	121	62	31	17	14
12	85	363	558	141	66	800	282	120	51	21	17	12
13	85	475	483	143	68	1100	282	119	51	21	17	12
14	85	532	651	140	68	849	282	118	51	21	14	12
15	86	526	798	162	80	466	191	240	51	73	11	12
16	87	518	790	140	97	368	129	422	51	243	11	12
17	87	512	455	140	96	368	152	472	51	376	11	12
18	85	506	352	140	98	260	184	472	51	338	11	12
19	84	499	343	138	116	212	159	472	51	192	11	12
20	85	493	311	137	140	209	147	383	50	93	11	12
21	85	487	303	81	156	160	148	234	50	52	11	12
22	87	479	308	42	391	137	148	174	50	52	14	12
23	88	359	318	42	609	137	111	174	51	103	17	12
24	89	271	562	60	901	138	88	174	51	126	17	12
25	85	267	748	84	654	139	85	174	51	124	34	12
26	83	264	730	93	380	140	85	146	51	123	83	12
27	83	246	471	93	832	140	83	83	34	123	125	12
28	85	223	271	93	1730	141	81	85	16	90	124	12
29	85	223	219	93	---	142	82	84	13	54	121	12
30	85	223	223	93	---	149	86	85	14	37	118	12
31	85	---	539	93	---	164	---	85	---	17	118	---
TOTAL	2621	11915	11390	6734	7256	16936	8175	9488	1647	2827	1083	484
MEAN	84.5	397	367	217	259	546	273	306	54.9	91.2	34.9	16.1
MAX	89	611	798	811	1730	1740	818	772	85	376	125	88
MIN	65	204	69	42	42	137	81	83	13	14	11	12
CAL YR 1984	TOTAL	95014	MEAN	260	MAX	1540	MIN	11				
WTR YR 1985	TOTAL	80556	MEAN	221	MAX	1740	MIN	11				

## SCIOTO RIVER BASIN

157

03231000 DEER CREEK AT WILLIAMSPORT, OH

LOCATION.--Lat 39°35'09", long 83°07'22", Pickaway County, Hydrologic Unit 05060002, on left bank at downstream side of bridge on U.S. Highway 22 at west edge of Williamsport, 2.0 mi downstream from Dry Run, and 7.6 mi upstream from Hay Run.

DRAINAGE AREA.--333 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1083: 1929. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 718.66 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 29, 1940, nonrecording gage, and Feb. 29, 1940, to Aug. 24, 1954, water-stage recorder, 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.

REMARKS.--Estimated daily discharges: Dec. 10-18 and Jan. 10 to Feb. 19. Records good except for estimated daily discharges, which are fair. Flow regulated by Deer Creek Lake 9.0 mi upstream beginning in 1968. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--50 years (1926-35, 1938-56, 1962-85), 301 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,600 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 17.6 ft (from flood-marks), from rating curve extended above 25,000 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow; minimum daily, 1.8 ft<sup>3</sup>/s July 25, 1934, Oct. 1-4, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,410 ft<sup>3</sup>/s Mar. 30, gage height, 7.97 ft; minimum daily, 8.4 ft<sup>3</sup>/s Sept. 21-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	178	260	1020	110	2070	496	120	99	18	22	121
2	92	302	253	985	105	2030	645	598	97	20	19	56
3	93	295	249	966	92	1980	1060	966	95	21	19	21
4	93	295	245	962	70	1910	694	986	94	28	18	16
5	93	415	173	469	48	1700	493	924	67	40	18	16
6	93	717	165	359	56	857	479	882	65	78	18	16
7	95	698	175	359	70	526	467	852	68	71	18	16
8	104	672	144	335	76	546	671	712	98	96	17	14
9	97	617	110	262	76	544	870	309	100	143	17	14
10	97	461	96	200	76	522	661	174	99	114	17	14
11	97	485	150	170	74	636	396	142	89	56	17	14
12	98	438	700	160	72	1080	324	140	100	29	17	11
13	98	509	660	160	72	1390	320	138	87	27	17	9.5
14	98	614	600	160	78	1160	320	171	77	27	17	9.5
15	101	612	740	160	82	620	256	346	73	99	12	9.5
16	105	601	1000	160	96	448	160	556	72	225	12	9.5
17	104	592	1100	160	105	436	162	665	70	451	11	9.1
18	103	583	453	160	115	341	203	599	70	426	10	9.0
19	100	573	456	160	130	253	187	612	67	269	10	9.8
20	100	567	455	150	166	246	166	504	65	131	10	9.4
21	100	561	484	100	205	206	162	301	61	65	10	8.4
22	101	543	770	45	888	170	159	205	61	65	10	8.4
23	101	456	547	50	1830	170	137	206	63	90	15	8.4
24	100	304	648	66	1810	170	107	198	64	135	21	9.8
25	100	293	919	86	1730	164	102	194	63	135	23	10
26	99	293	906	100	946	161	97	183	63	136	65	11
27	97	279	900	105	755	164	96	106	58	135	134	12
28	97	262	860	110	2010	165	93	105	27	120	135	12
29	100	279	820	110	---	191	90	100	20	61	134	12
30	100	268	786	110	---	1230	90	99	19	58	133	10
31	100	---	824	110	---	1210	---	100	---	23	131	---
TOTAL	2992	13762	16648	8509	11943	23296	10163	12193	2151	3392	1127	506.3
MEAN	96.5	459	537	274	427	751	339	393	71.7	109	36.4	16.9
MAX	105	717	1100	1020	2010	2070	1060	986	100	451	135	121
MIN	36	178	96	45	48	161	90	99	19	18	10	8.4
CAL YR 1984	TOTAL	119511.0		MEAN	327	MAX	1940	MIN	10.0			
WTR YR 1985	TOTAL	106682.3		MEAN	292	MAX	2070	MIN	8.4			

## SCIOTO RIVER BASIN

03231500 SCIOTO RIVER AT CHILLICOTHE, OH

LOCATION.--Lat 39°20'29", long 82°58'16", Ross County, Hydrologic Unit 05060002, on right bank at north end of Chillicothe, 1,400 ft downstream from Bridge Street bridge, 7.4 mi upstream from Paint Creek, and 15.4 mi downstream from Deer Creek.

DRAINAGE AREA.--3,849 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1913 to September 1914 (gage heights and discharge measurements only). October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected in this vicinity since 1907 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 803: 1929(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 594.05 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1914, nonrecording gage at site 1,300 ft upstream of 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.

REMARKS.--Estimated daily discharges: Jan. 14 to Feb. 20. Records good except for period of estimated record, which are fair. Flow regulated by 6 reservoirs 36 mi to 91 mi upstream from station.

AVERAGE DISCHARGE.--65 years, 3,439 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 144,000 ft<sup>3</sup>/s Jan. 23, 1959, gage height, 32.5 ft, (from high-water mark in well); minimum daily, 166 ft<sup>3</sup>/s Sept. 27, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913 reached a stage of 39.8 ft, discharge, 260,000 ft<sup>3</sup>/s (estimated by Franklin County Conservancy District).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,600 ft<sup>3</sup>/s Feb. 26, gage height, 13.86 ft; minimum daily, 360 ft<sup>3</sup>/s Sept. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	438	747	1770	8740	680	17300	17700	1150	1560	662	759	754
2	468	1250	1770	9530	680	15500	14600	3610	1300	683	928	696
3	594	2210	1630	10800	680	13400	11400	12700	1170	1030	776	584
4	556	1470	1620	9370	680	11500	8200	13300	1120	1270	674	650
5	518	2310	1370	6980	680	9110	6120	8900	1090	1660	620	708
6	493	3180	1190	4210	685	7450	5080	6620	1070	2980	600	642
7	506	3400	1090	3240	690	7090	7580	5280	1020	2540	601	548
8	535	2970	980	2920	690	6270	8450	4030	969	2190	603	486
9	613	2150	930	2550	700	6070	7790	2940	952	1940	645	451
10	662	2560	994	2180	700	5230	5850	2250	1040	1440	609	425
11	593	4620	2930	1870	720	4850	4340	1910	2670	1100	644	433
12	553	3930	3940	1700	760	8740	3550	1740	4730	917	588	430
13	532	3570	3820	1520	840	11000	3250	1860	5230	785	558	410
14	507	3490	5830	1400	1000	9630	2850	1680	5260	726	543	391
15	503	3080	8620	1300	1250	7670	2630	1850	4670	5230	589	385
16	525	2330	7940	1220	1410	5540	2550	5690	3340	13600	754	375
17	721	2000	6140	1150	1480	4470	2460	5550	2600	6470	952	367
18	714	1840	4520	1080	1500	3980	2200	5910	2210	3180	749	382
19	626	1840	3610	1000	1550	3470	2030	5670	1830	2230	600	382
20	571	1930	2960	970	1800	2860	1860	6100	1680	1660	544	385
21	566	1650	2780	940	2290	2550	1720	4480	1520	1310	528	378
22	655	1360	5160	890	4730	2390	1680	3370	1280	1590	535	360
23	1060	1280	5510	860	15300	2320	1600	2970	1280	2910	522	360
24	1020	1080	4450	810	20700	2350	1530	3540	1210	1480	508	376
25	753	1010	4090	780	27700	2310	1550	2990	1050	1170	1460	396
26	689	985	4010	740	31700	2150	1510	2280	901	1040	1660	492
27	662	976	3610	720	23200	2030	1370	1940	853	1000	1890	449
28	629	1020	2790	710	17800	1960	1320	1670	801	1090	1070	527
29	752	1690	2160	690	---	1950	1240	1790	730	890	877	461
30	1340	1720	2660	685	---	8440	1180	1660	697	780	801	405
31	951	---	6620	680	---	18100	---	1440	---	772	745	---
TOTAL	20305	63648	107494	82235	162595	207680	135190	126870	55833	66325	23932	14088
MEAN	655	2122	3468	2653	5807	6699	4506	4093	1861	2140	772	470
MAX	1340	4620	8620	10800	31700	18100	17700	13300	5260	13600	1890	754
MIN	438	747	930	680	680	1950	1180	1150	697	662	508	360
CAL YR 1984	TOTAL	1331413		MEAN	3640	MAX	33200	MIN	408			
WTR YR 1985	TOTAL	1066195		MEAN	2921	MAX	31700	MIN	360			



## SCIOTO RIVER BASIN

159

03232470 PAINT CREEK BELOW PAINT CREEK DAM, NEAR BAINBRIDGE, OH

LOCATION.--Lat 39°15'08", long 83°20'58", Highland County, Hydrologic Unit 05060003, on right bank, 400 ft downstream from Paint Creek dam, 700 ft upstream from Cliff Creek, and 4.5 mi northwest of Bainbridge.

DRAINAGE AREA.--570 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1962-67, (occasional low-flow measurements), water years 1963-67 (annual maximums). Published as "at damsite near Bainbridge" 1963-67, October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 745.00 ft above National Geodetic Vertical Datum of 1929. (Levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1984, datum 45.00 ft lower. Prior to May 3, 1968, water-stage recorder and crest-stage gage at partial-record site 1,000 ft downstream at datum 2.04 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Paint Creek Lake. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--18 years, 576 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 45,000 ft<sup>3</sup>/s Mar. 10, 1964, gage height, 27.3 ft, site and datum then in use; minimum daily, 4.7 ft<sup>3</sup>/s Sept. 1, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,990 ft<sup>3</sup>/s Feb. 28, gage height, 9.64 ft; minimum daily, 11 ft<sup>3</sup>/s Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	284	717	2070	124	6640	1710	215	218	43	128	86
2	100	716	411	1260	124	6420	4860	782	180	43	154	60
3	111	1120	387	1050	124	2360	5000	1100	149	43	154	24
4	75	1120	440	886	124	716	5140	4040	150	132	154	20
5	58	1120	314	737	124	726	2990	5200	149	218	108	20
6	58	1140	261	870	124	991	1080	2650	110	325	55	21
7	58	1630	260	832	124	972	1220	819	96	721	43	21
8	59	1680	170	649	124	966	1390	541	96	654	22	21
9	105	868	124	470	124	966	1240	466	96	441	22	21
10	142	1010	512	342	124	862	890	341	96	172	22	22
11	142	1140	1050	312	124	837	778	297	119	140	19	19
12	106	1150	1220	312	124	2050	559	295	1000	159	15	16
13	64	1570	1030	261	124	2520	465	295	1230	364	15	14
14	52	1910	1310	219	124	2420	466	295	1190	149	16	14
15	33	1540	1460	348	124	1430	463	298	720	149	16	14
16	45	650	1120	273	124	775	463	580	365	75	16	15
17	55	367	960	224	124	700	463	983	249	43	16	15
18	79	367	743	224	126	700	347	920	218	43	16	16
19	94	547	573	227	126	491	299	763	218	43	16	17
20	71	621	636	224	125	330	300	485	218	43	16	17
21	53	502	1100	126	408	304	227	619	130	43	16	17
22	53	451	2550	73	1550	304	177	675	98	43	17	17
23	122	450	2520	71	1550	304	178	467	99	43	17	30
24	149	448	2450	71	1210	304	178	371	100	43	17	41
25	234	345	1360	72	1300	304	178	341	100	43	17	40
26	230	291	636	72	1540	261	180	326	100	43	17	40
27	137	291	640	72	4000	242	181	290	100	43	15	40
28	107	445	691	119	6260	243	181	215	61	42	11	40
29	171	947	693	124	---	245	181	216	44	42	62	39
30	414	992	1130	124	---	1510	87	216	43	42	90	39
31	341	---	2030	126	---	538	---	217	---	43	88	---
TOTAL	3575	25712	29498	12840	20303	38431	31871	25318	7742	4470	1390	816
MEAN	115	857	952	414	725	1240	1062	817	258	144	44.8	27.2
MAX	414	1910	2550	2070	6260	6640	5140	5200	1230	721	154	86
MIN	33	284	124	71	124	242	87	215	43	42	11	14
CAL YR 1984	TOTAL	218074	MEAN	596	MAX	3620	MIN	13				
WTR YR 1985	TOTAL	201966	MEAN	553	MAX	6640	MIN	11				

## SCIOTO RIVER BASIN

03232500 ROCKY FORK NEAR BARRETTS MILLS, OH

LOCATION.--Lat 39°13'06", long 83°23'08", Highland County, Hydrologic Unit 05060003, on left bank at downstream side of highway bridge, 1.1 mi north of Barretts Mills, 2 mi east of Rainsboro, 2.8 mi upstream from mouth, and 6 mi downstream from Rocky Fork Lake.

DRAINAGE AREA.--140 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 770.8 ft above National Geodetic Vertical Datum of 1929, (levels by U.S. Army Corps of Engineers). Prior to Feb. 15, 1940, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Some diurnal fluctuation caused by mill 6 mi upstream from station. Flow regulated by Rocky Fork Lake 6 mi upstream, since 1952, capacity, 34,100 acre-ft. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--46 years, 153 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,400 ft<sup>3</sup>/s Mar. 10, 1964 from rating curve extended above 8,800 ft<sup>3</sup>/s on basis of velocity-area studies; maximum gage height, 15.56 ft Mar. 6, 1945; minimum daily discharge, 0.90 ft<sup>3</sup>/s Sept. 10, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,350 ft<sup>3</sup>/s Mar. 30, gage height, 6.90 ft; minimum daily, 3.5 ft<sup>3</sup>/s Sept. 21-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	10	183	318	20	83	1150	74	45	18	23	6.5
2	98	19	146	294	25	96	635	1030	42	18	18	5.7
3	17	12	130	245	23	97	433	1250	41	22	14	5.4
4	14	11	116	228	20	106	322	643	50	20	11	5.0
5	14	24	114	233	18	117	265	357	46	26	10	4.8
6	13	37	116	228	17	106	248	258	42	46	9.6	5.0
7	13	30	110	215	19	100	221	194	49	36	8.5	5.3
8	17	27	111	196	19	111	223	152	58	31	8.2	4.8
9	16	31	117	186	21	117	205	124	60	25	7.8	4.7
10	15	97	179	281	24	109	185	107	54	23	7.6	4.5
11	15	121	172	276	31	202	35	93	55	20	6.7	4.5
12	10	96	159	273	96	823	44	119	150	17	6.4	4.3
13	5.8	74	158	272	270	550	61	147	144	15	5.8	4.5
14	4.8	59	167	270	110	385	73	120	109	15	5.3	3.8
15	5.8	55	160	269	65	281	81	208	88	17	5.3	4.1
16	7.6	52	156	218	21	221	113	151	79	15	6.7	4.6
17	8.2	40	153	21	21	185	106	151	67	12	7.1	4.5
18	7.6	41	149	18	23	158	102	143	71	9.1	6.3	3.9
19	7.6	57	155	18	101	197	94	173	57	7.9	5.6	4.0
20	8.2	60	154	18	160	215	89	114	46	7.4	7.2	3.7
21	11	52	286	17	171	178	83	96	39	9.7	6.9	3.5
22	16	48	585	17	986	164	78	82	36	8.4	7.0	3.5
23	15	45	431	17	2030	164	74	84	34	7.7	9.3	3.5
24	11	43	324	17	1450	176	69	76	33	6.2	9.3	4.6
25	8.8	42	256	17	866	198	65	69	37	5.6	9.8	4.7
26	8.6	42	203	17	668	19	58	63	31	8.1	7.8	5.0
27	7.9	41	178	16	294	16	55	57	26	9.1	7.0	5.6
28	7.9	88	163	16	65	16	55	66	22	7.3	6.6	4.5
29	9.4	124	154	16	---	17	50	57	19	6.6	6.2	4.3
30	8.6	126	269	16	---	1170	50	50	17	6.0	7.4	4.4
31	7.9	---	315	17	---	2060	---	50	---	12	7.0	---
TOTAL	434.7	1604	6069	4260	7634	8437	5322	6358	1647	487.1	264.4	137.2
MEAN	14.0	53.5	196	137	273	272	177	205	54.9	15.7	8.53	4.57
MAX	98	126	585	318	2030	2060	1150	1250	150	46	23	6.5
MIN	4.8	10	110	16	17	16	35	50	17	5.6	5.3	3.5
CAL YR 1984	TOTAL	48740.7		MEAN	133	MAX	1230	MIN	4.8			
WTR YR 1985	TOTAL	42654.4		MEAN	117	MAX	2060	MIN	3.5			

## SCIOTO RIVER BASIN

161

03234000 PAINT CREEK NEAR BOURNEVILLE, OH

LOCATION.--Lat 39°15'49", long 83°10'01", Ross County, Hydrologic Unit 05060003, on upstream side of left abutment of highway bridge, 0.2 mi downstream from Sulfur Lick, 1.2 mi southwest of Bourneville, and 1.2 mi upstream from Upper Twin Creek.

DRAINAGE AREA.--807 mi<sup>2</sup>.

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.

REVISED RECORDS.--WRD Ohio 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 665.56 ft above National Geodetic Vertical Datum of 1929. See WSP 1725 for history of changes prior to May 3, 1939.

REMARKS.--Estimated daily discharges: Jan. 22-28 and May 2-16. Records fair. Flow regulated by Paint Creek Lake 17 mi upstream since 1971, capacity 145,000 acre-ft and Rocky Fork Lake 23 mi upstream since 1952, capacity, 34,100 acre-ft. Water-quality data collected at this site 1965 to 1977. Sediment data 1956 to 1962.

AVERAGE DISCHARGE.--62 years (1921-36, 1939-85), 805 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,900 ft<sup>3</sup>/s Mar. 10, 1964, gage height, 20.50 ft, from rating curve extended above 30,000 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 20.08 ft; minimum daily, 5 ft<sup>3</sup>/s Oct. 29, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,980 ft<sup>3</sup>/s Mar. 31, gage height, 9.56 ft; minimum daily, 27 ft<sup>3</sup>/s Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	272	930	3130	161	6870	2650	212	324	111	132	105
2	130	467	705	2050	177	6780	6170	3060	315	111	194	106
3	160	1180	441	1450	186	4980	5950	3400	270	107	193	78
4	122	1210	520	1420	196	1030	6020	4470	258	109	189	49
5	88	1230	466	1000	154	984	4880	6150	263	252	185	39
6	85	1270	368	1150	156	1080	1770	4230	254	337	138	37
7	85	1620	351	1220	197	1270	1750	1420	215	613	95	36
8	90	2170	324	901	189	1270	2020	1060	218	914	81	36
9	94	1060	245	715	196	1270	1900	741	216	541	64	35
10	148	1140	406	634	186	1190	1500	679	217	350	52	34
11	152	1440	1390	608	136	1110	1050	502	209	180	48	34
12	146	1390	1540	591	192	3530	836	493	1220	213	46	33
13	105	1610	1310	569	304	3910	625	574	1630	378	41	31
14	80	2280	1520	508	358	3500	625	549	1560	246	38	29
15	75	2080	1870	506	358	2640	626	830	1150	201	38	28
16	57	979	1590	602	267	1320	657	900	543	189	41	28
17	66	411	1220	335	176	1050	660	1310	429	107	41	28
18	73	391	1090	264	201	982	601	1490	353	94	41	27
19	99	467	711	237	178	866	479	1210	338	90	38	28
20	102	616	732	248	294	731	462	920	322	86	37	28
21	85	560	1080	314	258	615	437	771	294	87	37	28
22	87	462	3860	150	2750	583	337	846	204	94	37	28
23	96	451	3510	100	5460	577	327	748	193	97	36	28
24	151	446	3280	100	3640	567	329	551	188	87	36	35
25	162	411	2380	100	2750	623	318	504	186	82	39	51
26	250	326	954	100	2470	470	308	472	185	80	41	53
27	187	321	817	100	4250	355	300	449	180	84	38	52
28	126	385	800	100	5930	350	297	383	172	82	35	52
29	137	967	869	145	---	348	295	352	130	78	32	51
30	262	1270	1200	167	---	2930	269	337	113	80	84	53
31	399	---	2550	158	---	5290	---	330	---	89	105	---
TOTAL	3950	28882	39029	19672	31770	59071	44448	39943	12149	6169	2252	1280
MEAN	127	963	1259	635	1135	1906	1482	1288	405	199	72.6	42.7
MAX	399	2280	3860	3130	5930	6870	6170	6150	1630	914	194	106
MIN	51	272	245	100	136	348	269	212	113	78	32	27
CAL YR 1984	TOTAL	311378		MEAN	851	MAX	4840	MIN	40			
WTR YR 1985	TOTAL	288615		MEAN	791	MAX	6870	MIN	27			

## SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH  
(National stream quality accounting network station)

LOCATION.--Lat 39°12'44", long 82°51'50", in sec. 6, T.7 N., R.20 W., Ross County, Hydrologic Unit 05060002, on left bank at downstream side of highway bridge, 0.8 mi downstream from Walnut Creek, 1.2 mi north of Higby, 3 mi northwest of Richmondale and 5.0 mi upstream from Salt Creek.

DRAINAGE AREA.--5,131 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 893: 1937(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 567.28 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 7, 1930, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1, 2, Jan. 14 to Feb. 20, and Sept. 8-16. Records good except for estimated daily discharges which are fair. Flow slightly regulated by 8 reservoirs 45 mi to 105 mi upstream from station.

AVERAGE DISCHARGE.--55 years, 4,583 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177,000 ft<sup>3</sup>/s Jan. 23, 1937, from rating curve extended above 112,000 ft<sup>3</sup>/s; maximum gage height, 26.4 ft Jan. 23, 1937, from floodmarks, and Jan. 23, 1959; minimum daily discharge, 244 ft<sup>3</sup>/s Oct. 23, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 31.6 ft occurred Mar. 26, 1913, and has not been exceeded since.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,600 ft<sup>3</sup>/s Feb. 26, gage height, 15.96 ft; minimum daily, 460 ft<sup>3</sup>/s Sept. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	1280	2990	11200	1130	23300	24000	1590	2370	973	1100	985
2	600	1420	2830	11300	1120	21800	21300	8390	2280	927	1190	942
3	817	3310	2360	11700	1110	19100	18200	20600	2020	1000	1190	827
4	844	2780	2350	10700	1100	13300	14800	17100	1680	1460	1050	836
5	752	3290	2210	8330	1100	10500	12400	14800	1540	1710	977	888
6	668	4620	1900	5840	1100	8830	8440	11600	1530	2260	920	818
7	660	4520	1710	4830	1100	8470	9960	7210	1520	3650	865	706
8	696	5090	1610	4270	1100	7840	11700	5430	1450	3100	829	618
9	761	3820	1500	3750	1100	7700	10800	4060	1360	2690	843	570
10	871	3730	1680	3210	1110	6850	8720	3320	1350	2160	841	540
11	883	6240	4200	2910	1120	6570	6820	2810	1560	1640	848	540
12	830	5550	5640	2640	1150	13700	5660	2580	4440	1400	813	538
13	794	5030	5390	2440	1350	15400	4960	2700	6430	1250	728	518
14	711	5550	6640	2290	1790	13300	4380	2440	6180	1290	691	500
15	661	5260	9770	2100	2000	11000	4250	3470	6000	2250	740	490
16	660	4020	9370	2000	2050	7610	3710	7610	4770	12300	959	480
17	784	2810	7390	1890	2080	6240	3710	7340	3420	8220	1080	470
18	929	2500	5940	1750	2150	5540	3330	7590	2850	3560	1000	480
19	835	2470	4760	1650	2800	4950	2930	7450	2450	2450	814	490
20	783	2710	4050	1580	2600	4220	2720	6880	2170	1930	724	490
21	779	2570	4400	1500	3110	3740	2510	5060	2010	1590	690	475
22	811	2130	9560	1420	9460	3500	2340	4240	1780	1560	683	460
23	1160	1990	9320	1350	25400	3390	2230	4090	1590	3030	677	460
24	1360	1850	7790	1310	27500	3460	2140	4350	1600	1810	661	480
25	1140	1720	6990	1280	29400	3380	2130	3630	1500	1460	1130	560
26	1070	1610	5370	1250	33000	3180	2080	3020	1350	1320	1700	728
27	1090	1570	4730	1220	28300	2810	1920	2760	1240	1260	1920	670
28	988	1660	4030	1190	22900	2760	1840	2490	1190	1310	1260	785
29	1000	2600	3460	1170	---	2820	1760	2610	1110	1190	1080	765
30	1510	3220	4350	1150	---	13200	1680	2360	1020	1030	994	610
31	1570	---	8790	1140	---	29500	---	2210	---	1090	968	---
TOTAL	27577	96920	153080	110360	209230	287960	203420	181790	71760	72870	29965	18719
MEAN	890	3231	4938	3560	7473	9289	6781	5864	2392	2351	967	624
MAX	1570	6240	9770	11700	33000	29500	24000	20600	6430	12300	1920	985
MIN	560	1280	1500	1140	1100	2760	1680	1590	1020	927	661	460

CAL YR 1984 TOTAL 1727021 MEAN 4720 MAX 34900 MIN 520  
WTR YR 1985 TOTAL 1463651 MEAN 4010 MAX 33000 MIN 460



## SCIOTO RIVER BASIN

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03234500 SCIOTO RIVER AT HIGBY, OH--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1967 to current year.

pH: March 1967 to current year.

WATER TEMPERATURES: October 1953 to current year.

DISSOLVED OXYGEN: March 1967 to current year.

INSTRUMENTATION.--Water-quality monitor since March 1967.

REMARKS.--Samples were collected each month as part of the National Stream Quality Accounting Network.

Interruptions in the water-quality record were due to malfunction of the instrument. Daily Sediment data collected 1954-1974, 1979-1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,070 microsiemens Sept. 29, 1984; minimum, 113 microsiemens Sept. 16, 1975.

pH: Maximum, 9.3 units July 21, 1982, July 19, Aug. 21, 1984; minimum, 5.9 units Mar. 8, 1980.

WATER TEMPERATURES: Maximum, 34.0°C June 29, 1966; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, &gt;20.0 mg/L on several days during period 1982 to 1985; minimum, 0.0 mg/L on many days during 1968, Sept. 13, 1969.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,040 microsiemens Oct. 3; minimum, 314 microsiemens March 30.

pH: Maximum, 9.1 units Nov. 22; minimum 7.4 units May 3-6.

WATER TEMPERATURES: Maximum, 28.0°C Sept. 10; minimum, 0.5°C many times during winter periods.

DISSOLVED OXYGEN: Maximum, &gt;20.0 mg/L several times during year; minimum, 6.4 mg/L Oct. 1.

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTANTANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 1984									
05...	09:00	2070	740	8.0	4.0	4.5	6.5	12.5	98
MAR 1985									
06...	09:30	8780	538	8.0	-3.0	6.0	35	12.1	100
JUN									
04...	11:00	1640	740	8.1	23.5	22.5	3.5	8.6	102
AUG									
15...	10:30	678	810	8.8	28.5	26.5	0.5	10.8	137
DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 1984									
05...	2200	200	74	28	30	3.4	206	94	41
MAR 1985									
06...	8800	1800	63	22	17	2.4	149	58	60
JUN									
04...	2100	190	77	28	30	3.3	219	88	46
AUG									
15...	390	60	76	29	60	5.4	227	120	67
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
DEC 1984									
05...	0.4	5.5	447	4.00	0.14	0.5	0.38	0.33	0.31
MAR 1985									
06...	0.3	6.7	312	--	--	0.6	0.30	0.28	--
JUN									
04...	0.2	3.8	475	4.60	<0.01	1.0	0.36	0.33	0.31
AUG									
15...	0.6	--	520	1.10	0.02	1.8	0.46	0.32	0.31

## SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
DEC 1984 05...	09:00	2070	20	1	73	<0.5	<1	2	<3	24	33
MAR 1985 06...	09:30	8780	20	1	65	<0.5	<1	<1	<3	20	30
JUN 04...	11:00	1640	<10	1	80	1	1	10	<3	9	22
AUG 15...	10:30	678	60	4	96	0.9	<1	<1	<3	15	15

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 1984 05...	4	9	12	0.1	<10	2	<1	<1	1800	<6	13
MAR 1985 06...	9	7	9	0.2	<10	4	<1	<1	1100	<6	3
JUN 04...	5	20	6	0.3	<10	<1	<1	<1	1400	<6	16
AUG 15...	<1	14	9	0.3	10	2	<1	<1	1600	<6	22

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
DEC 1984 05...	09:00	2070	4.5	10	56
MAR 1985 06...	09:30	8780	6.0	72	1710
JUN 04...	11:00	1640	22.5	31	137
AUG 15...	10:30	678	26.5	28	51

## SCIOTO RIVER BASIN

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03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	1020	1000	1010	806	776	798	810	782	802	578	564	572
2	1000	978	984	772	696	726	782	770	775	582	566	570
3	1040	938	982	718	676	700	824	782	810	584	568	579
4	976	946	960	708	604	646	822	790	802	580	550	566
5	982	962	975	656	600	631	804	744	770	550	546	547
6	1000	964	988	682	614	654	812	740	776	576	548	560
7	994	960	984	630	594	607	802	792	797	604	576	588
8	----	----	----	652	632	646	806	796	801	622	606	612
9	----	----	----	654	648	651	844	804	829	634	620	627
10	----	----	----	658	626	649	850	682	803	664	634	655
11	----	----	----	654	630	643	718	684	701	668	658	662
12	----	----	----	626	596	604	776	726	758	674	666	669
13	----	----	----	642	606	626	----	----	----	676	664	672
14	----	----	----	642	624	629	----	----	----	708	674	695
15	----	----	----	632	620	624	----	----	----	728	708	718
16	----	----	----	654	634	648	----	----	----	724	708	715
17	----	----	----	692	654	675	----	----	----	732	704	718
18	----	----	----	700	694	696	656	646	652	748	734	744
19	----	----	----	706	696	701	660	652	658	776	744	761
20	----	----	----	734	702	713	650	640	645	822	776	801
21	----	----	----	734	728	732	666	516	629	858	822	836
22	----	----	----	730	710	722	546	494	515	850	834	844
23	----	----	----	750	722	735	564	538	553	846	836	842
24	----	----	----	766	744	755	554	528	538	842	830	839
25	----	----	----	812	750	786	596	556	570	830	804	817
26	----	----	----	868	814	838	632	602	620	808	800	803
27	----	----	----	884	868	878	632	626	629	818	806	811
28	----	----	----	882	818	852	642	626	630	818	812	816
29	802	792	794	816	798	807	642	640	641	816	804	810
30	842	804	824	806	782	792	644	542	608	812	802	806
31	854	800	831	----	----	----	588	548	567	804	788	792
MONTH	1040	792	933	884	594	705	850	494	688	858	546	711
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	792	772	779	----	----	----	436	344	393	718	692	707
2	796	778	786	----	----	----	494	442	469	722	334	533
3	810	794	803	----	----	----	514	498	507	478	362	441
4	828	802	814	----	----	----	502	498	501	526	476	510
5	852	824	836	494	464	481	502	492	495	540	514	526
6	852	834	844	562	530	551	540	506	530	558	540	552
7	844	826	836	572	558	567	560	524	547	572	560	570
8	846	828	834	578	574	575	520	488	498	588	572	579
9	862	828	842	598	580	588	516	492	504	616	588	604
10	868	848	857	620	600	609	540	516	527	636	616	626
11	866	832	846	632	516	614	582	542	565	660	638	651
12	844	782	824	480	440	461	604	580	591	668	662	664
13	778	742	758	534	488	525	624	606	616	676	656	670
14	766	728	749	534	520	525	626	624	624	672	652	664
15	876	734	815	554	532	539	638	624	632	670	460	613
16	942	856	908	584	556	571	644	636	639	596	442	520
17	946	910	938	608	586	597	648	642	645	514	444	481
18	946	900	931	624	608	617	646	634	642	534	516	529
19	912	848	892	632	624	627	652	630	641	554	532	544
20	844	760	806	630	628	629	648	640	644	580	552	564
21	776	746	759	658	630	644	654	638	649	610	582	596
22	730	338	529	674	658	665	666	652	658	636	610	622
23	406	322	380	678	672	676	688	664	676	660	638	648
24	442	414	432	680	674	678	680	666	673	674	662	672
25	478	444	465	690	680	685	678	668	672	670	666	669
26	464	394	421	686	682	684	692	676	684	682	666	675
27	394	390	391	690	682	687	692	680	687	692	682	686
28	----	----	----	698	682	692	690	674	686	698	686	692
29	----	----	----	700	680	694	688	672	683	704	696	701
30	----	----	----	676	314	416	696	674	687	712	700	706
31	----	----	----	340	318	329	----	----	----	704	688	698
MONTH	946	322	744	700	314	590	696	344	599	722	334	610

## SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	718	690	709	770	750	760	728	710	717	710	678	699
2	724	716	720	816	768	797	746	714	733	714	694	706
3	722	702	714	820	792	807	748	734	739	714	690	703
4	734	704	723	794	760	780	760	696	750	722	698	713
5	738	732	735	---	---	---	---	---	---	754	720	745
6	738	730	734	---	---	---	---	---	---	780	750	770
7	738	728	734	---	---	---	782	774	779	796	766	783
8	746	730	736	---	---	---	804	784	795	774	756	766
9	750	744	748	---	---	---	814	804	810	778	758	770
10	752	742	747	---	---	---	794	788	791	798	774	786
11	758	750	753	---	---	---	820	806	816	796	738	776
12	754	590	679	---	---	---	820	790	803	774	718	751
13	660	592	637	---	---	---	---	---	---	756	710	739
14	648	632	640	---	---	---	---	---	---	774	702	735
15	648	642	644	---	---	---	832	810	818	784	682	722
16	648	634	641	---	---	---	848	760	798	800	724	777
17	646	640	643	---	---	---	818	772	794	828	796	817
18	644	640	641	---	---	---	826	812	818	846	830	818
19	644	640	642	---	---	---	830	798	819	870	778	834
20	664	644	655	---	---	---	800	794	798	870	704	794
21	674	664	668	---	---	---	802	768	791	---	---	---
22	680	668	673	674	630	653	788	754	776	---	---	---
23	694	682	689	724	676	702	788	760	772	960	944	949
24	706	694	702	682	556	595	804	766	794	944	924	934
25	720	706	716	612	556	578	844	806	824	960	940	948
26	718	712	716	656	614	636	814	782	803	990	958	978
27	722	702	715	710	658	686	774	650	686	982	974	978
28	728	714	722	736	712	725	656	636	647	976	956	969
29	732	716	725	756	738	749	654	614	635	956	942	948
30	754	720	745	766	752	761	622	612	614	944	914	937
31	---	---	---	774	720	757	676	624	655	---	---	---
MONTH	758	590	698	820	556	713	848	612	762	990	678	817
YEAR	1040	314	700									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.1	7.9	8.0	8.0	7.9	8.0	8.4	8.2	8.3	8.0	7.9	7.9
2	8.2	8.0	8.1	8.2	8.0	8.0	8.4	8.2	8.3	8.0	7.9	7.9
3	8.5	8.1	8.2	8.2	8.1	8.1	8.5	8.1	8.2	8.2	8.0	8.1
4	8.5	8.2	8.3	8.1	8.0	8.1	8.7	8.2	8.4	8.2	8.1	8.1
5	8.4	8.1	8.2	8.2	8.1	8.1	8.7	7.9	8.3	8.1	8.1	8.1
6	8.3	8.1	8.2	8.1	8.0	8.0	8.9	8.5	8.8	8.1	8.1	8.1
7	8.1	8.0	8.1	8.3	8.1	8.2	8.8	8.7	8.7	8.2	8.1	8.1
8	---	---	---	8.2	8.1	8.2	8.7	8.6	8.6	8.3	8.2	8.2
9	---	---	---	8.2	8.1	8.1	8.6	8.5	8.6	8.7	8.3	8.4
10	---	---	---	8.2	8.1	8.1	8.5	8.4	8.5	8.7	8.5	8.5
11	---	---	---	8.1	8.0	8.0	8.5	8.4	8.4	8.5	8.4	8.4
12	---	---	---	8.1	8.0	8.0	8.4	8.3	8.3	8.4	8.4	8.4
13	---	---	---	8.2	8.0	8.1	8.3	8.3	8.3	8.4	8.3	8.4
14	---	---	---	8.2	8.1	8.2	8.3	8.2	8.3	8.6	8.3	8.4
15	---	---	---	8.1	8.1	8.1	8.3	8.1	8.2	8.6	8.3	8.5
16	---	---	---	8.1	8.1	8.1	8.4	8.2	8.3	8.5	8.2	8.3
17	---	---	---	8.2	8.1	8.2	8.3	8.3	8.3	8.2	8.1	8.1
18	---	---	---	8.3	8.2	8.2	8.4	8.2	8.3	8.1	7.8	7.9
19	---	---	---	8.5	8.2	8.2	8.4	8.3	8.3	8.1	7.8	7.9
20	---	---	---	8.6	8.2	8.4	8.4	8.3	8.3	8.3	8.2	8.3
21	---	---	---	9.0	8.6	8.8	8.4	8.2	8.3	8.2	8.1	8.2
22	---	---	---	9.1	8.7	8.9	8.2	8.1	8.1	8.2	8.1	8.2
23	---	---	---	8.8	8.5	8.7	8.3	8.2	8.2	8.1	7.9	8.0
24	---	---	---	8.7	8.4	8.5	8.3	8.2	8.2	7.9	7.6	7.8
25	---	---	---	8.4	8.2	8.3	8.4	8.2	8.3	7.9	7.6	7.7
26	---	---	---	8.3	8.1	8.2	8.4	8.3	8.4	8.1	7.9	8.0
27	---	---	---	8.3	8.0	8.2	8.3	8.2	8.3	8.1	8.0	8.0
28	---	---	---	8.3	8.1	8.2	8.2	8.1	8.2	8.2	8.0	8.1
29	7.9	7.9	7.9	8.3	8.1	8.2	8.1	8.1	8.1	8.4	8.2	8.3
30	8.0	7.9	7.9	8.6	8.2	8.4	8.1	8.0	8.0	8.5	8.4	8.4
31	8.0	7.9	7.9	---	---	---	8.0	7.9	7.9	8.5	8.3	8.4
MONTH	8.5	7.9	8.1	9.1	7.9	8.2	8.9	7.9	8.3	8.7	7.6	8.2



PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	8.4	8.4	8.4	---	---	---	7.5	7.5	7.5	8.3	7.9	8.1
2	8.4	8.3	8.3	---	---	---	7.5	7.5	7.5	7.9	7.5	7.7
3	8.3	8.3	8.3	---	---	---	7.5	7.5	7.5	7.5	7.4	7.4
4	8.3	8.2	8.3	---	---	---	7.6	7.5	7.5	7.4	7.4	7.4
5	8.3	8.2	8.3	8.0	8.0	8.0	7.6	7.5	7.6	7.4	7.4	7.4
6	8.4	8.2	8.3	8.1	8.0	8.0	7.6	7.6	7.6	7.5	7.4	7.5
7	8.3	8.2	8.3	8.1	8.1	8.1	7.8	7.6	7.7	7.5	7.5	7.5
8	8.2	8.2	8.2	8.1	8.0	8.1	7.8	7.8	7.8	7.5	7.5	7.5
9	8.2	8.2	8.2	8.1	8.0	8.1	8.0	7.9	7.9	7.5	7.5	7.5
10	8.2	8.2	8.2	8.0	8.0	8.0	8.0	7.9	8.0	7.5	7.5	7.5
11	8.2	8.2	8.2	8.0	8.0	8.0	7.9	7.9	7.9	7.5	7.5	7.5
12	8.4	8.2	8.2	8.0	8.0	8.0	7.9	7.9	7.9	7.5	7.5	7.5
13	8.4	8.4	8.4	8.0	8.0	8.0	7.9	7.8	7.9	7.8	7.5	7.7
14	8.4	8.4	8.4	8.0	8.0	8.0	7.9	7.8	7.9	7.9	7.7	7.8
15	8.4	8.3	8.3	8.0	8.0	8.0	8.0	7.9	7.9	7.9	7.7	7.9
16	8.4	8.3	8.3	8.0	8.0	8.0	8.0	7.9	8.0	7.8	7.6	7.7
17	8.3	8.3	8.3	8.0	8.0	8.0	8.1	8.0	8.0	7.8	7.6	7.7
18	8.3	8.2	8.3	8.1	8.0	8.0	8.2	8.0	8.1	7.9	7.8	7.8
19	8.3	8.3	8.3	8.1	8.1	8.1	8.5	8.1	8.3	7.9	7.9	7.9
20	8.4	8.3	8.3	8.0	8.0	8.0	8.4	8.2	8.3	7.9	7.9	7.9
21	8.4	8.3	8.4	8.0	8.0	8.0	8.4	8.1	8.3	7.9	7.9	7.9
22	8.4	8.1	8.3	8.0	8.0	8.0	8.6	8.3	8.4	8.0	7.9	8.0
23	8.1	8.0	8.1	8.0	8.0	8.0	8.6	8.3	8.5	8.0	7.9	8.0
24	8.0	7.9	8.0	8.0	8.0	8.0	8.6	8.3	8.4	8.0	7.9	7.9
25	8.0	7.9	7.9	8.0	7.9	8.0	8.5	8.3	8.4	7.9	7.9	7.9
26	7.9	7.9	7.9	8.0	8.0	8.0	8.8	8.4	8.6	7.9	7.9	7.9
27	7.9	7.9	7.9	8.0	8.0	8.0	8.7	8.4	8.6	8.0	7.9	7.9
28	---	---	---	8.0	7.9	8.0	8.5	8.2	8.3	8.0	7.9	8.0
29	---	---	---	8.0	7.9	7.9	8.5	8.2	8.3	8.2	8.0	8.1
30	---	---	---	7.9	7.6	7.7	8.5	8.2	8.3	8.2	8.0	8.1
31	---	---	---	7.6	7.5	7.6	---	---	---	8.3	8.1	8.2
MONTH	8.4	7.9	8.2	8.1	7.5	8.0	8.8	7.5	8.0	8.3	7.4	7.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	8.4	8.2	8.3	8.9	8.7	8.8	8.4	8.2	8.3	8.2	7.9	8.1
2	8.3	7.9	8.1	8.8	8.4	8.6	8.6	8.3	8.4	8.1	7.7	7.9
3	8.3	8.0	8.2	8.5	8.4	8.4	8.5	8.3	8.4	8.2	7.7	7.9
4	8.2	8.1	8.2	8.5	8.3	8.4	8.5	8.2	8.4	8.5	8.0	8.2
5	8.3	8.2	8.2	---	---	---	---	---	---	8.4	8.1	8.3
6	8.6	8.3	8.4	---	---	---	---	---	---	8.2	7.8	7.9
7	8.6	8.4	8.5	---	---	---	8.5	8.0	8.4	7.8	7.6	7.7
8	8.5	8.3	8.4	---	---	---	8.5	8.3	8.4	7.7	7.6	7.6
9	8.6	8.4	8.5	---	---	---	8.4	8.3	8.3	7.8	7.6	7.7
10	8.6	8.4	8.5	---	---	---	8.7	8.3	8.5	7.8	7.8	7.8
11	8.6	8.4	8.5	---	---	---	8.6	8.4	8.5	8.1	7.8	7.9
12	8.5	7.9	8.1	---	---	---	8.9	8.4	8.7	8.4	8.1	8.2
13	8.0	7.9	7.9	---	---	---	---	---	---	8.3	7.9	8.0
14	8.0	8.0	8.0	---	---	---	---	---	---	8.3	8.0	8.1
15	8.0	8.0	8.0	---	---	---	8.8	8.7	8.8	8.3	8.1	8.1
16	8.0	8.0	8.0	---	---	---	8.7	8.5	8.6	8.8	8.3	8.6
17	8.0	7.9	7.9	---	---	---	8.6	8.4	8.5	8.9	8.5	8.7
18	7.9	7.9	7.9	---	---	---	8.5	8.2	8.3	8.9	8.6	8.8
19	7.9	7.9	7.9	---	---	---	8.7	8.2	8.4	8.8	8.6	8.8
20	7.9	7.9	7.9	---	---	---	8.6	8.3	8.4	8.8	8.4	8.6
21	7.9	7.9	7.9	---	---	---	8.5	8.2	8.3	---	---	---
22	7.9	7.9	7.9	8.1	7.8	8.0	8.5	8.2	8.4	---	---	---
23	8.0	7.9	7.9	8.1	7.8	7.9	8.5	8.2	8.4	8.7	8.4	8.6
24	8.2	7.9	8.0	7.8	7.8	7.8	8.5	8.1	8.3	8.8	8.4	8.6
25	8.4	8.1	8.2	7.9	7.8	7.8	8.1	7.9	7.9	8.7	8.4	8.5
26	8.5	8.2	8.3	7.9	7.9	7.9	7.9	7.6	7.7	8.5	8.1	8.2
27	8.8	8.4	8.5	8.1	7.9	8.0	7.6	7.5	7.6	8.1	8.0	8.0
28	8.8	8.5	8.6	8.3	8.1	8.2	8.1	7.5	7.8	8.3	8.0	8.1
29	9.0	8.6	8.7	8.5	8.2	8.3	8.0	7.8	7.9	8.2	7.9	8.1
30	8.9	8.7	8.8	8.6	8.2	8.4	8.0	7.8	7.9	8.1	7.9	8.0
31	---	---	---	8.5	8.4	8.4	8.1	7.8	7.9	---	---	---
MONTH	9.0	7.9	8.2	8.9	7.8	8.2	8.9	7.5	8.3	8.9	7.6	8.2
YEAR	9.1	7.4	8.1									

## SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	14.5	14.0	14.5	18.5	17.5	18.0	7.0	6.5	7.0	10.5	9.5	10.0
2	15.5	13.5	14.5	17.5	14.5	16.0	7.0	6.0	6.5	9.5	7.5	8.5
3	16.0	13.5	14.5	14.5	13.0	13.5	7.0	6.0	7.0	7.5	6.5	7.0
4	16.5	14.5	15.5	14.0	13.5	13.5	6.0	5.0	5.5	6.5	6.0	6.0
5	17.5	15.5	16.5	14.5	13.0	14.0	5.0	3.5	4.5	6.0	5.5	5.5
6	17.5	15.5	16.5	13.0	12.0	12.5	3.5	2.0	3.0	6.0	5.5	5.5
7	20.5	17.0	18.0	11.5	11.0	11.5	2.0	1.0	1.5	5.5	5.0	5.5
8	---	---	---	11.0	10.5	11.0	2.0	1.0	1.5	5.0	4.5	5.0
9	---	---	---	11.5	11.0	11.0	3.0	1.5	2.5	4.0	3.0	3.5
10	---	---	---	11.5	11.5	11.5	3.5	3.0	3.5	3.5	2.5	3.0
11	---	---	---	11.5	10.0	11.0	4.5	3.5	4.0	3.0	2.5	2.5
12	---	---	---	10.0	9.0	9.5	5.0	4.5	5.0	2.5	2.0	2.0
13	---	---	---	9.0	8.5	8.5	6.5	5.0	6.0	2.0	1.0	1.5
14	---	---	---	8.5	8.0	8.5	8.0	6.5	7.0	2.0	1.5	1.5
15	---	---	---	9.0	8.5	8.5	9.0	7.5	8.5	1.5	.5	1.0
16	---	---	---	9.0	8.0	8.5	9.0	8.0	8.5	1.0	.5	.5
17	---	---	---	7.5	7.0	7.0	10.0	9.0	9.5	1.5	.5	1.0
18	---	---	---	7.0	6.0	6.5	10.0	9.5	10.0	2.0	1.5	1.5
19	---	---	---	6.5	6.0	6.0	9.5	9.0	9.0	1.5	1.0	1.5
20	---	---	---	6.5	5.5	6.0	9.0	8.5	8.5	.5	.5	.5
21	---	---	---	5.5	5.0	5.5	8.5	8.0	8.0	.5	.5	.5
22	---	---	---	5.0	4.0	4.5	9.0	8.0	8.5	.5	.5	.5
23	---	---	---	5.0	4.0	4.5	8.0	6.5	7.0	1.5	.5	1.0
24	---	---	---	5.5	4.0	5.0	6.5	6.0	6.5	1.5	1.0	1.0
25	---	---	---	6.0	4.5	5.5	6.5	5.0	5.5	1.5	.5	1.0
26	---	---	---	6.5	5.0	5.5	5.0	4.0	4.5	1.5	.5	.5
27	---	---	---	8.0	6.0	7.0	5.5	4.5	5.0	1.5	.5	1.0
28	---	---	---	8.5	7.5	8.0	9.5	5.5	7.5	2.0	1.0	1.5
29	18.0	17.5	18.0	7.5	7.0	18.0	11.0	9.5	10.5	1.5	1.0	1.5
30	18.0	17.5	17.5	6.5	6.0	6.0	11.0	10.0	10.5	2.0	.5	1.5
31	19.0	17.5	18.0	---	---	---	10.0	9.5	9.5	2.0	1.5	2.0
MONTH	20.5	13.5	16.5	18.5	4.0	9.5	11.0	1.0	6.5	10.5	.5	2.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.0	1.5	1.5	---	---	---	10.5	9.5	10.0	20.0	19.0	19.5
2	1.5	1.0	1.0	---	---	---	10.0	9.0	9.5	19.0	15.5	17.0
3	1.5	.5	1.0	---	---	---	10.5	9.0	10.0	17.0	15.5	16.0
4	1.5	.5	1.0	---	---	---	12.0	10.0	11.0	17.0	15.5	16.0
5	1.5	1.0	1.0	7.0	6.5	7.0	12.5	11.5	12.0	18.0	16.0	17.0
6	2.0	1.5	1.5	7.0	5.5	6.5	12.5	11.5	11.5	18.5	17.5	18.0
7	1.5	.5	1.0	6.0	5.5	6.0	11.5	10.5	11.0	19.0	17.5	18.5
8	1.5	.5	1.0	7.0	6.0	6.5	10.0	9.5	9.5	19.5	17.5	18.5
9	1.5	.5	1.0	8.0	6.0	7.0	9.5	8.5	9.0	20.5	17.5	19.0
10	2.0	.5	1.0	9.0	7.0	8.0	10.0	7.5	8.5	20.5	18.5	19.5
11	2.5	1.5	2.0	8.5	8.0	8.0	11.5	9.5	10.5	21.5	19.5	20.5
12	2.5	1.5	2.5	9.0	8.0	8.5	14.0	11.0	12.0	21.0	20.5	21.0
13	1.5	.5	1.0	8.0	7.5	7.5	14.5	13.0	14.0	22.5	20.0	21.0
14	2.0	1.0	1.5	8.5	7.5	8.0	16.0	13.5	14.5	23.0	21.0	22.0
15	2.0	1.0	1.5	8.5	7.0	8.0	16.5	14.5	15.5	22.0	20.5	21.5
16	2.0	.5	1.0	8.5	7.0	7.5	17.5	15.5	16.5	21.0	19.0	20.0
17	3.0	1.5	2.0	8.0	7.5	8.0	17.5	15.0	16.5	19.0	17.0	18.0
18	3.0	1.5	2.5	8.0	6.5	7.5	18.0	15.0	16.5	17.0	16.0	16.5
19	4.0	3.0	3.5	9.0	6.5	7.5	19.5	17.0	18.5	17.5	15.5	16.5
20	4.0	2.5	3.5	10.5	8.0	9.5	20.5	18.0	19.0	19.5	16.5	18.0
21	4.0	2.5	3.5	10.0	9.0	9.5	20.5	18.5	20.0	19.0	18.0	18.5
22	4.0	2.0	3.0	10.0	9.0	9.5	22.0	19.0	20.5	18.5	17.5	18.0
23	4.5	2.5	3.5	9.5	9.0	9.0	21.5	20.0	21.0	18.5	17.0	17.5
24	6.0	4.5	5.0	10.0	9.0	9.5	21.5	20.0	20.5	18.5	17.5	18.0
25	6.0	5.5	6.0	11.0	9.5	10.0	20.5	19.0	20.0	21.0	17.5	19.0
26	5.5	5.0	5.5	12.0	9.5	10.5	21.5	19.0	20.5	22.0	19.0	20.5
27	5.5	5.5	5.5	12.0	10.5	11.5	21.0	20.0	20.5	23.0	20.5	21.5
28	---	---	---	14.0	12.0	13.0	21.5	20.0	20.5	22.5	20.5	21.5
29	---	---	---	15.5	14.0	15.0	21.0	18.5	20.0	22.0	19.5	20.5
30	---	---	---	15.5	11.0	12.5	20.5	18.5	20.0	22.5	20.0	21.5
31	---	---	---	11.0	10.5	10.5	---	---	---	23.0	21.5	22.5
MONTH	6.0	.5	2.5	15.5	5.5	9.0	22.0	7.5	15.5	23.0	15.5	19.0

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	24.5	22.0	23.0	24.5	23.5	24.0	25.0	24.0	24.5	24.5	22.0	23.5
2	24.0	22.5	23.0	24.0	23.0	23.5	25.5	22.5	23.5	25.0	23.5	24.0
3	24.0	22.5	23.5	24.5	22.5	23.5	25.0	22.5	24.0	26.0	24.0	25.0
4	23.5	22.0	22.5	26.0	23.0	25.0	26.5	22.5	24.0	26.0	24.5	25.0
5	22.5	22.0	22.0	---	---	---	---	---	---	26.0	24.5	25.5
6	23.0	20.5	23.0	---	---	---	---	---	---	26.5	25.0	25.5
7	22.5	21.0	21.5	---	---	---	24.0	23.0	23.5	27.5	25.5	26.0
8	23.0	20.5	21.5	---	---	---	24.5	23.0	23.5	27.5	26.0	27.0
9	24.5	22.5	23.5	---	---	---	24.0	23.5	23.5	27.5	26.0	27.0
10	25.5	23.5	24.5	---	---	---	26.5	25.5	26.0	28.0	26.0	27.0
11	25.0	23.5	24.5	---	---	---	26.5	24.5	25.5	26.5	24.5	25.5
12	24.5	20.5	22.5	---	---	---	27.0	24.5	26.0	24.5	21.5	23.0
13	20.5	19.0	20.0	---	---	---	---	---	---	22.0	19.5	21.0
14	20.5	18.5	19.5	---	---	---	---	---	---	22.0	18.5	20.0
15	20.0	19.0	19.5	---	---	---	27.0	26.0	26.5	21.5	18.0	20.0
16	21.5	19.0	20.0	---	---	---	26.0	25.0	25.5	22.0	18.0	20.0
17	21.5	20.0	20.5	---	---	---	26.5	24.5	25.0	22.0	18.5	20.5
18	22.0	20.0	21.0	---	---	---	27.5	25.0	26.0	22.5	19.5	21.0
19	21.5	20.0	21.0	---	---	---	27.5	26.0	26.5	23.5	19.5	21.5
20	22.5	20.0	21.0	---	---	---	26.5	24.5	25.0	23.5	20.5	22.0
21	22.5	21.0	21.5	---	---	---	24.5	23.0	24.0	---	---	---
22	22.5	21.0	22.0	26.0	23.5	25.0	25.0	22.0	23.5	---	---	---
23	24.5	21.5	23.0	26.0	23.5	25.0	25.0	22.5	23.5	23.5	19.0	21.5
24	25.0	23.0	24.0	25.5	23.0	24.0	24.0	22.5	23.0	22.5	20.5	21.5
25	26.0	23.5	24.5	26.0	24.0	25.0	24.0	22.0	22.5	21.0	18.5	20.0
26	25.5	23.0	24.5	25.5	24.5	25.0	24.0	22.5	23.0	20.0	19.0	19.5
27	25.5	23.0	24.5	26.0	23.0	24.5	24.0	22.0	23.0	18.5	17.5	18.0
28	25.0	23.0	24.0	26.0	23.5	24.5	24.0	22.5	23.5	19.0	16.5	17.5
29	25.5	23.0	24.0	26.5	24.5	25.5	24.0	22.5	23.5	19.5	16.5	18.0
30	25.0	23.0	24.0	27.0	25.0	26.0	24.0	23.0	23.5	19.5	17.0	18.5
31	---	---	---	26.5	25.0	25.5	24.5	23.0	23.5	---	---	---
MONTH	26.0	18.5	22.5	27.0	22.5	24.5	27.5	22.0	24.5	28.0	16.5	22.5
YEAR	28.0	.5	14.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	7.7	6.4	7.0	8.1	7.2	7.6	12.2	11.6	11.9	11.1	9.4	10.5
2	8.8	6.9	7.7	9.5	7.7	8.4	12.3	11.9	12.1	11.3	8.0	10.5
3	10.9	7.8	9.0	9.4	8.4	8.8	12.0	11.4	11.7	12.3	11.3	11.7
4	10.3	8.3	9.2	9.1	8.3	8.8	13.0	12.0	12.5	12.3	11.9	12.1
5	9.8	7.8	8.7	9.7	9.0	9.3	13.2	12.6	12.9	12.2	11.9	12.0
6	9.3	7.5	8.3	9.5	9.0	9.2	13.9	13.1	13.4	12.3	12.0	12.1
7	7.9	6.7	7.3	10.4	9.5	10.1	14.3	13.8	14.0	12.2	11.9	12.1
8	---	---	---	10.7	10.1	10.4	14.4	14.0	14.2	12.7	12.0	12.4
9	---	---	---	10.7	10.5	10.6	14.3	13.9	14.1	13.1	12.7	12.9
10	---	---	---	10.7	10.3	10.5	13.8	13.3	13.6	13.2	13.0	13.1
11	---	---	---	10.3	9.7	10.0	13.7	13.1	13.5	13.1	13.0	13.1
12	---	---	---	10.8	10.0	10.4	13.1	12.3	12.7	13.2	13.0	13.1
13	---	---	---	11.5	10.9	11.2	12.8	12.0	12.4	13.4	13.1	13.2
14	---	---	---	11.9	11.6	11.7	12.0	11.6	11.9	13.4	13.1	13.2
15	---	---	---	11.7	11.5	11.6	11.7	10.0	10.9	13.4	13.2	13.3
16	---	---	---	11.7	11.3	11.6	11.5	10.9	11.2	13.5	13.2	13.3
17	---	---	---	12.0	11.6	11.8	11.9	10.4	10.9	13.3	12.9	13.1
18	---	---	---	11.9	11.8	11.8	11.1	10.5	10.9	12.9	12.7	12.7
19	---	---	---	12.4	11.9	12.1	11.1	10.6	10.9	12.8	12.6	12.7
20	---	---	---	12.8	12.3	12.6	11.1	10.5	10.8	12.9	12.6	12.7
21	---	---	---	13.3	12.8	13.0	11.5	10.7	11.1	13.0	12.3	12.5
22	---	---	---	13.4	13.2	13.3	11.5	10.5	11.1	12.5	12.4	12.4
23	---	---	---	13.5	13.0	13.3	11.9	11.2	11.6	12.5	12.3	12.4
24	---	---	---	13.3	13.1	13.2	12.1	11.5	11.9	12.3	12.2	12.2
25	---	---	---	13.1	12.8	12.9	12.7	11.9	12.4	12.3	12.1	12.2
26	---	---	---	12.8	12.4	12.5	13.0	12.7	12.9	12.3	12.1	12.2
27	---	---	---	12.4	12.0	12.2	12.8	12.6	12.8	12.4	12.2	12.3
28	---	---	---	12.0	11.3	11.5	12.6	11.5	12.1	12.3	12.2	12.3
29	7.5	7.3	7.4	12.0	11.3	11.7	11.5	10.5	10.9	12.5	12.2	12.3
30	7.9	7.4	7.6	12.0	11.7	11.9	10.8	10.3	10.5	12.8	12.6	12.7
31	7.6	6.8	7.3	---	---	---	10.9	9.6	10.5	13.0	12.5	12.8
MONTH	10.9	6.4	8.0	13.5	7.2	11.1	14.4	9.6	12.1	13.5	8.0	12.5

## SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	12.9	12.6	12.8	---	---	---	10.3	10.0	10.1	13.2	8.8	10.8
2	13.1	12.9	13.0	---	---	---	10.9	10.3	10.7	9.2	7.9	8.5
3	13.3	13.1	13.2	---	---	---	11.0	10.7	10.8	8.6	7.4	7.8
4	13.3	13.1	13.2	---	---	---	10.7	10.4	10.6	8.4	7.5	8.1
5	13.3	13.0	13.2	12.4	12.1	12.2	10.4	9.8	10.1	8.5	8.2	8.4
6	13.1	12.9	13.0	12.2	12.0	12.1	9.8	9.6	9.7	8.4	8.0	8.2
7	13.2	13.0	13.1	12.6	12.3	12.5	10.1	9.3	9.7	8.2	7.8	8.0
8	13.3	13.1	13.2	12.6	12.2	12.4	10.7	10.2	10.5	8.6	7.9	8.2
9	13.4	13.1	13.3	12.3	11.7	12.1	11.2	10.7	11.0	8.7	7.9	8.2
10	13.3	13.1	13.2	11.6	11.4	11.5	11.2	10.7	11.0	8.3	7.5	7.9
11	13.4	13.2	13.3	11.5	11.3	11.4	10.7	10.0	10.5	8.7	7.5	8.1
12	13.3	12.6	12.8	11.7	11.5	11.6	10.3	9.8	10.1	8.4	7.6	8.0
13	13.2	12.7	12.9	11.9	11.5	11.7	10.1	9.7	9.9	8.9	7.1	7.9
14	13.4	13.1	13.2	12.1	11.9	12.0	9.9	9.4	9.6	7.8	6.8	7.2
15	13.5	13.0	13.2	12.2	12.0	12.1	10.3	9.3	9.8	8.0	7.5	7.7
16	13.4	12.9	13.1	12.0	11.7	11.9	10.8	9.5	10.1	7.7	6.6	7.1
17	13.6	13.2	13.4	11.7	11.6	11.7	11.3	9.6	10.4	7.5	7.0	7.2
18	13.8	13.1	13.4	12.0	11.6	11.8	12.7	9.9	11.1	8.0	7.6	7.7
19	14.0	13.2	13.6	12.2	11.8	12.0	15.3	10.5	12.6	8.8	8.0	8.5
20	14.4	13.2	13.8	11.8	11.3	11.6	14.8	10.6	12.7	8.8	8.4	8.7
21	14.4	13.5	14.0	11.3	11.0	11.1	14.6	10.2	12.4	8.9	8.7	8.8
22	14.2	11.7	13.5	11.1	10.9	11.0	16.3	10.7	13.3	9.1	8.7	8.9
23	13.6	12.4	13.0	11.2	10.9	11.0	16.0	10.6	13.3	9.1	8.8	8.9
24	12.4	11.5	12.0	11.3	10.9	11.1	16.0	10.2	12.6	8.9	8.3	8.6
25	11.4	10.9	11.0	11.3	10.8	11.1	19.4	10.3	14.5	8.8	8.3	8.6
26	11.5	10.9	11.2	11.8	10.9	11.3	20.0	11.2	15.5	8.8	8.3	8.5
27	11.4	10.9	11.3	11.4	10.7	11.1	18.7	12.0	14.6	9.0	8.2	8.6
28	---	---	---	11.0	10.4	10.7	18.7	9.9	13.7	8.8	8.1	8.4
29	---	---	---	10.7	9.8	10.3	18.7	10.4	14.1	10.8	8.3	9.4
30	---	---	---	10.5	9.8	10.2	18.6	11.0	14.4	11.2	8.7	9.9
31	---	---	---	10.5	10.1	10.3	---	---	---	12.5	8.7	10.4
MONTH	14.4	10.9	13.0	12.6	9.8	11.5	20.0	9.3	11.7	13.2	6.6	8.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.3	9.1	11.4	18.7	12.6	15.6	11.9	8.0	9.7	13.9	8.5	10.7
2	11.0	7.5	8.9	15.7	11.5	12.8	16.1	9.0	11.7	14.1	8.9	11.2
3	12.3	8.4	10.1	14.1	9.9	11.8	15.3	9.3	12.0	18.0	9.3	12.9
4	12.5	8.6	10.6	14.1	10.6	12.0	12.1	7.7	9.6	18.4	9.9	13.8
5	13.1	10.1	11.5	---	---	---	---	---	---	18.0	10.4	14.2
6	19.1	10.8	14.3	---	---	---	---	---	---	15.6	8.9	12.2
7	15.4	12.0	12.9	---	---	---	14.0	9.2	11.4	16.5	8.5	12.1
8	17.1	10.5	13.4	---	---	---	13.7	8.9	10.9	15.3	8.4	11.9
9	16.4	11.6	13.8	---	---	---	11.6	8.7	9.8	12.8	8.4	10.9
10	15.5	10.1	12.7	---	---	---	---	---	---	15.4	7.8	11.2
11	16.0	10.3	12.6	---	---	---	---	---	---	16.0	8.4	12.1
12	12.5	7.0	8.2	---	---	---	---	---	---	18.7	9.7	13.8
13	8.6	7.1	7.8	---	---	---	---	---	---	20.0	14.4	18.5
14	8.9	8.6	8.8	---	---	---	---	---	---	20.0	14.6	17.6
15	9.0	8.9	9.0	---	---	---	14.4	10.8	13.3	20.0	15.0	17.4
16	9.1	8.9	9.0	---	---	---	13.2	7.5	10.1	19.2	11.5	15.4
17	8.9	8.6	8.7	---	---	---	15.5	8.5	11.4	18.9	11.4	15.0
18	8.9	8.4	8.6	---	---	---	16.8	8.5	11.9	17.0	11.2	14.8
19	8.9	8.5	8.7	---	---	---	18.0	8.9	13.1	20.0	10.4	14.5
20	9.1	8.6	8.8	---	---	---	14.8	8.9	11.3	19.2	9.0	14.4
21	9.2	8.4	8.8	---	---	---	17.0	8.5	11.8	---	---	---
22	9.1	8.5	8.8	10.2	7.5	9.1	18.7	9.9	13.8	---	---	---
23	9.9	8.3	8.9	9.5	7.1	8.1	20.0	10.5	14.7	16.5	10.1	12.9
24	12.8	8.7	10.2	7.5	6.9	7.2	17.3	10.2	12.1	20.0	9.0	13.6
25	15.0	9.9	12.0	8.4	7.0	7.5	11.1	7.7	9.2	20.0	10.5	15.2
26	16.0	10.0	12.6	8.0	7.5	7.8	10.9	7.1	8.6	15.3	9.2	10.7
27	20.0	10.9	14.7	9.9	7.4	8.4	10.5	7.6	8.7	10.5	8.0	9.2
28	18.8	10.8	14.6	12.8	8.1	9.9	11.7	7.8	9.6	14.2	8.6	10.9
29	20.0	11.7	16.1	14.8	8.9	11.3	10.9	7.9	9.4	13.0	9.1	10.9
30	20.0	13.4	16.6	17.8	9.4	13.0	10.2	7.9	8.9	12.9	9.0	10.8
31	---	---	---	13.4	9.4	11.4	11.6	7.9	9.4	---	---	---
MONTH	20.0	7.0	11.1	18.7	6.9	10.4	20.0	7.1	10.9	20.0	7.8	13.2
YEAR	20.0	6.4	11.4									



SCIOTO RIVER BASIN

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03234500 SCIOTO RIVER AT HIGBY, OH--Continued  
SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	800	804	572	776	---	396	704	711	762	717	703
2	980	722	776	568	786	---	471	570	720	796	738	708
3	973	700	816	582	803	---	506	460	719	807	738	702
4	960	640	798	567	815	---	501	514	729	782	752	716
5	974	635	764	546	835	482	494	527	734	---	---	747
6	989	652	778	559	844	552	532	554	735	---	---	772
7	983	604	796	585	836	570	549	571	734	---	779	783
8	---	647	802	611	832	574	495	578	734	---	798	770
9	---	652	832	628	841	589	504	603	748	---	805	770
10	---	652	844	658	855	608	526	625	748	---	792	786
11	---	642	699	662	844	627	568	654	752	---	818	788
12	---	603	756	668	831	462	590	664	665	---	807	755
13	---	627	---	674	754	532	617	671	644	---	---	740
14	---	626	---	700	752	524	624	666	638	---	---	732
15	---	623	---	718	823	538	634	644	644	---	815	712
16	---	651	---	715	914	571	638	516	639	---	790	730
17	---	676	---	721	942	597	644	485	642	---	796	821
18	---	696	652	746	934	617	642	532	640	---	818	838
19	---	702	658	763	906	627	642	550	642	---	826	839
20	---	707	645	806	813	630	644	561	657	---	798	786
21	---	732	651	834	757	646	650	592	670	---	797	---
22	---	723	517	844	531	665	659	621	672	654	778	---
23	---	733	556	842	398	676	676	648	690	703	771	945
24	---	756	537	840	432	678	673	674	702	579	796	935
25	---	792	569	816	469	684	690	670	718	573	827	947
26	---	842	619	802	414	684	683	676	716	635	802	978
27	---	880	628	812	391	687	686	686	719	685	661	976
28	---	837	628	816	---	694	686	692	722	726	649	971
29	792	809	640	810	---	696	685	702	727	750	637	948
30	819	790	627	806	---	379	686	706	750	760	612	940
31	838	---	564	790	---	328	---	700	---	766	669	---
MEAN	931	705	691	712	745	590	600	613	699	713	762	816

WTR YR 1985 MEAN 701 MAX 1000 MIN 328  
PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	8.0	8.3	7.9	8.4	---	7.5	8.1	8.3	8.8	8.3	8.0
2	8.1	8.0	8.3	7.9	8.3	---	7.5	7.8	8.1	8.6	8.3	7.9
3	8.2	8.1	8.2	8.1	8.3	---	7.5	7.4	8.1	8.4	8.4	7.9
4	8.3	8.1	8.4	8.1	8.3	---	7.5	7.4	8.2	8.4	8.4	8.2
5	8.2	8.1	8.4	8.1	8.3	8.0	7.6	7.4	8.2	---	---	8.2
6	8.2	8.0	8.8	8.1	8.3	8.0	7.6	7.5	8.5	---	---	7.9
7	8.1	8.2	8.7	8.1	8.3	8.1	7.7	7.5	8.4	---	8.4	7.8
8	---	8.2	8.6	8.2	8.2	8.1	7.8	7.5	8.4	---	8.4	7.7
9	---	8.1	8.6	8.4	8.2	8.1	7.9	7.5	8.5	---	8.3	7.7
10	---	8.1	8.5	8.5	8.2	8.0	8.0	7.5	8.5	---	8.5	7.8
11	---	8.0	8.4	8.4	8.2	8.0	7.9	7.5	8.5	---	8.5	7.8
12	---	8.0	8.3	8.4	8.2	8.0	7.9	7.5	7.9	---	8.7	8.1
13	---	8.1	8.2	8.4	8.4	8.0	7.9	7.7	7.9	---	---	8.0
14	---	8.2	8.3	8.4	8.4	8.0	7.9	7.8	8.0	---	---	8.1
15	---	8.1	8.2	8.4	8.3	8.0	7.9	7.9	8.0	---	8.8	8.1
16	---	8.1	8.3	8.4	8.3	8.0	8.0	7.7	8.0	---	8.6	8.6
17	---	8.2	8.3	8.2	8.3	8.0	8.0	7.8	7.9	---	8.5	8.8
18	---	8.2	8.3	7.9	8.3	8.0	8.1	7.8	7.9	---	8.4	8.8
19	---	8.2	8.3	7.8	8.3	8.1	8.2	7.9	7.9	---	8.4	8.8
20	---	8.4	8.3	8.3	8.3	8.0	8.4	7.9	7.9	---	8.4	8.5
21	---	8.7	8.3	8.2	8.4	8.0	8.3	7.9	7.9	---	8.3	---
22	---	8.9	8.1	8.2	8.3	8.0	8.4	8.0	7.9	8.1	8.4	---
23	---	8.7	8.2	8.0	8.1	8.0	8.5	8.0	7.9	7.9	8.4	8.6
24	---	8.5	8.2	7.9	8.0	8.0	8.5	7.9	8.0	7.8	8.3	8.6
25	---	8.3	8.3	7.6	7.9	8.0	8.5	7.9	8.2	7.8	7.9	8.6
26	---	8.2	8.4	8.0	7.9	8.0	8.7	7.9	8.3	7.9	7.6	8.2
27	---	8.1	8.3	8.0	7.9	8.0	8.6	7.9	8.5	7.9	7.6	8.0
28	---	8.2	8.2	8.1	---	8.0	8.4	8.0	8.6	8.1	7.9	8.1
29	7.9	8.2	8.1	8.3	---	7.9	8.4	8.0	8.7	8.2	7.9	8.1
30	7.9	8.3	8.0	8.4	---	7.6	8.4	8.1	8.9	8.4	7.9	8.0
31	7.9	---	7.9	8.5	---	7.6	---	8.1	---	8.4	7.9	---
MEAN	8.1	8.2	8.3	8.2	8.2	8.0	8.1	7.8	8.2	8.2	8.3	8.2

WTR YR 1985 MEAN 8.1 MAX 8.9 MIN 7.4

## SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH--Continued  
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	18.0	6.5	10.0	1.5	---	10.0	19.5	23.0	24.0	24.5	23.5
2	14.0	16.0	6.5	9.0	1.0	---	9.5	17.5	23.5	23.5	23.5	24.0
3	14.5	13.5	7.0	7.0	1.0	---	9.5	16.0	23.5	23.5	24.0	24.5
4	15.0	13.5	5.5	6.0	1.0	---	10.5	16.0	22.5	25.0	24.0	25.0
5	16.0	14.0	4.5	5.5	1.5	7.0	12.0	17.0	22.0	---	---	25.5
6	16.5	12.5	3.0	5.5	1.5	6.5	11.5	18.0	22.0	---	---	25.5
7	17.5	11.5	1.5	5.5	1.0	6.0	11.0	18.5	21.5	---	23.5	26.0
8	---	11.0	1.5	5.0	1.0	6.5	9.5	18.5	21.0	---	23.5	26.5
9	---	11.0	2.0	3.5	1.0	6.5	9.0	18.5	23.0	---	23.5	27.0
10	---	11.5	3.5	3.0	1.5	7.5	8.5	19.5	24.0	---	26.0	27.0
11	---	11.0	4.5	2.5	2.0	8.0	10.0	20.5	24.5	---	25.5	25.5
12	---	9.5	5.0	2.0	2.5	8.5	11.5	21.0	22.0	---	26.0	22.5
13	---	9.0	6.0	1.5	1.0	7.5	13.5	21.0	20.0	---	---	21.0
14	---	8.5	7.0	1.5	1.0	7.5	14.5	22.5	19.5	---	---	20.0
15	---	8.5	8.5	1.0	1.5	8.0	15.5	21.5	19.5	---	26.5	19.5
16	---	8.5	8.5	1.0	1.0	7.5	16.0	20.0	19.5	---	25.0	19.0
17	---	7.5	9.0	1.0	2.0	8.0	16.5	18.0	20.5	---	25.0	20.0
18	---	6.5	10.0	1.5	2.5	7.5	16.5	16.5	20.5	---	26.0	20.5
19	---	6.5	9.0	1.5	3.0	7.5	18.0	17.0	21.0	---	27.0	21.0
20	---	6.0	8.5	.5	3.5	9.0	19.0	17.5	21.0	---	25.0	22.0
21	---	5.5	8.0	.5	3.5	10.0	20.0	18.5	21.5	---	24.0	---
22	---	5.0	8.5	.5	2.5	9.5	20.5	18.0	22.0	25.5	23.5	---
23	---	4.5	7.0	1.0	3.0	9.0	21.0	17.5	22.0	25.0	23.5	22.0
24	---	5.0	6.5	1.5	5.0	9.5	20.5	18.0	23.5	24.5	22.5	21.5
25	---	5.5	5.5	1.0	6.0	10.0	20.0	18.5	24.5	25.0	22.5	20.0
26	---	5.5	4.5	.5	5.5	10.5	20.5	20.0	24.5	25.0	23.0	19.5
27	---	6.5	5.0	1.0	5.5	11.5	20.5	21.5	24.5	24.0	23.0	18.0
28	---	8.5	7.0	1.5	---	12.5	20.5	21.0	24.0	24.5	23.0	17.5
29	18.0	7.0	10.0	1.5	---	15.0	20.0	20.5	24.0	25.5	23.5	17.5
30	17.5	6.0	10.5	1.5	---	12.0	20.0	21.5	24.5	26.0	23.5	18.0
31	18.0	---	9.5	2.0	---	10.5	---	22.0	---	25.5	23.5	---
MEAN	16.0	9.0	6.5	3.0	2.5	9.0	15.0	19.0	22.5	25.0	24.0	22.0

WTR YR 1985 MEAN 14.0 MAX 27.0 MIN .5  
OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.5	11.8	10.6	12.8	---	10.2	10.8	11.3	15.7	9.6	10.1
2	7.4	8.2	12.1	10.9	13.0	---	10.7	8.5	9.1	12.6	10.6	11.0
3	8.5	8.8	11.6	11.7	13.2	---	10.8	7.6	9.9	11.4	11.8	12.0
4	9.2	8.9	12.5	12.1	13.2	---	10.6	8.3	10.5	11.2	9.5	13.3
5	8.7	9.2	12.9	12.1	13.3	12.2	10.1	8.4	11.4	---	---	14.4
6	8.3	9.2	13.4	12.1	13.1	12.1	9.7	8.2	13.2	---	---	12.4
7	7.0	10.2	13.9	12.1	13.1	12.5	9.8	8.0	12.8	---	11.2	11.7
8	---	10.5	14.3	12.4	13.2	12.3	10.6	8.1	12.5	---	10.6	11.9
9	---	10.6	14.0	12.9	13.3	12.2	11.1	8.2	13.7	---	9.7	11.3
10	---	10.5	13.6	13.1	13.1	11.6	11.1	8.0	12.8	---	---	10.5
11	---	10.0	13.5	13.1	13.3	11.3	10.5	8.2	12.4	---	---	12.1
12	---	10.5	12.8	13.1	12.7	11.6	10.1	8.0	7.3	---	---	13.0
13	---	11.4	12.3	13.2	12.9	11.6	9.9	7.7	7.8	---	---	20.0
14	---	11.8	11.9	13.1	13.3	12.0	9.7	7.1	8.7	---	---	15.9
15	---	11.7	10.9	13.4	13.1	12.1	9.9	7.7	9.0	---	13.9	17.0
16	---	11.6	11.2	13.3	13.2	11.9	10.0	7.1	9.0	---	10.0	17.0
17	---	11.9	11.0	13.1	13.5	11.7	10.3	7.3	8.7	---	10.8	14.8
18	---	11.8	10.9	12.7	13.4	11.9	10.8	7.7	8.6	---	11.4	15.3
19	---	12.2	10.9	12.6	13.6	12.1	12.0	8.5	8.7	---	12.7	19.1
20	---	12.6	10.8	12.8	13.8	11.6	12.8	8.7	8.7	---	11.4	14.6
21	---	13.0	11.2	12.4	14.1	11.2	12.5	8.8	8.8	---	10.6	---
22	---	13.3	11.2	12.4	13.6	11.0	12.9	8.9	8.8	9.0	13.2	---
23	---	13.4	11.6	12.4	13.1	11.1	13.3	8.9	8.7	7.7	13.9	14.9
24	---	13.2	12.0	12.2	12.1	11.1	12.4	8.6	9.4	7.2	11.1	13.9
25	---	12.9	12.4	12.2	11.0	11.0	14.5	8.6	11.7	7.3	9.3	15.4
26	---	12.5	12.9	12.2	11.2	11.3	15.5	8.6	12.0	7.8	8.7	10.2
27	---	12.2	12.8	12.3	11.3	11.1	14.0	8.6	13.0	7.9	8.3	9.2
28	---	11.4	12.1	12.3	---	10.7	13.5	8.4	14.2	9.0	8.3	10.1
29	7.4	11.7	10.9	12.3	---	10.4	13.9	9.3	12.4	10.7	9.3	10.9
30	7.6	11.9	10.5	12.7	---	10.2	14.1	9.8	14.5	12.4	8.9	10.6
31	7.3	---	10.6	12.9	---	10.3	---	9.9	---	11.2	9.0	---
MEAN	7.8	11.2	12.1	12.5	13.0	11.5	11.6	8.4	10.7	10.1	10.6	13.3
WTR YR 1985	MEAN	11.3	MAX	20.0	MIN	7.0						

## RESERVOIRS IN SCIOTO RIVER BASIN

03220500 O'SHAUGHNESSY RESERVOIR NEAR DUBLIN.--Lat 40°09'14", long 83°07'33", Delaware County, Hydrologic Unit 05060001, in gate house of dam on Scioto River, 4.0 mi north of Dublin. DRAINAGE AREA, 979 mi<sup>2</sup>. PERIOD OF RECORD, October 1924 to current year. GAGE, water-stage recorder. Monthend contents only for some periods published in WSP 1305. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by city of Columbus). Prior to Dec. 2, 1940, nonrecording gage at same site and datum.

Reservoir is 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.

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.

EXTREMES FOR CURRENT YEAR: Maximum contents, 20,130 acre-ft Feb. 24, elevation, 850.94 ft; minimum, 11,510 acre-ft Nov. 30, elevation, 840.81 ft.

03221500 GRIGGS RESERVOIR NEAR COLUMBUS.--Lat 40°00'54", long 83°05'38", Franklin County, Hydrologic Unit 05060001, on left abutment of dam on Scioto River, 6.2 mi northwest of State Capitol building in Columbus, and 6.5 mi upstream from Olentangy River. DRAINAGE AREA, 1,044 mi<sup>2</sup>. PERIOD OF RECORD, January 1921 to current year. GAGE, water-stage recorder. Monthend contents only for some periods, published in WSP 1305. Daily readings have been obtained by city of Columbus, Division of Water, since 1908. Datum of gage is 680.38 ft National Geodetic Vertical Datum, adjustment of 1929 (levels by city of Columbus). Prior to Oct. 4, 1940 nonrecording gage at same site and datum.

Reservoir formed by concrete dam; dam completed and storage began in 1905. Usable capacity, 3,700 acre-ft between elevations, 735.4 ft (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.

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.

EXTREMES FOR CURRENT YEAR: Maximum contents, 5,770 acre-ft Feb. 24, elevation, 759.26 ft; minimum, 3,720 acre-ft Sept. 30, elevation, 753.46 ft.

03228400 HOOVER RESERVOIR AT CENTRAL COLLEGE.--Lat 40°06'30", long 82°52'59", in T.2 N., R.17 W., Franklin County, Hydrologic Unit 05060001, in gate house of dam on Big Walnut Creek, 0.5 mi northeast of Central College, and 12 mi northeast of Columbus. DRAINAGE AREA, 190 mi<sup>2</sup>. PERIOD OF RECORD, March 1955 to current year. REVISED RECORDS, WRD OH-78-1: 1975 (M). GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Sept. 10, 1956, nonrecording gage at same site and datum.

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.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 83,260 acre-ft, revised, Feb. 24, 1975, elevation, 897.26 ft; minimum, 19,010 acre-ft Mar. 1, 1964, elevation, 868.58 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 71,470 acre-ft Mar. 13, elevation, 893.87 ft; minimum, 31,950 acre-ft Nov. 2, elevation, 877.71 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)	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			03228400 HOOVER RESERVOIR		
Sept. 30.....	843.50	13,380	--	754.33	4,010	--	881.32	38,780	--
Oct. 31.....	840.82	11,520	-1,860	755.37	4,370	+360	877.81	32,130	-6,650
Nov. 30.....	840.81	11,510	-10	755.62	4,450	+80	878.60	33,560	+1,430
Dec. 31.....	849.15	18,210	+6,700	756.93	4,910	+460	883.88	44,400	+10,840
CAL YR 1984	--	--	+920	--	--	+380	--	--	-15,060
Jan. 31.....	848.06	17,120	-1,090	755.67	4,470	-440	883.45	43,400	-1,000
Feb. 29.....	849.82	18,910	+1,790	757.12	4,980	+510	892.28	66,500	+23,100
Mar. 31.....	850.12	19,230	+320	757.17	5,000	+20	893.33	69,720	+3,220
Apr. 30.....	848.28	17,340	-1,890	755.51	4,420	-580	892.25	66,410	-3,310
May 31.....	848.43	17,490	+150	755.66	4,470	+50	892.07	65,880	-530
June 30.....	848.12	17,180	-310	755.40	4,380	-90	890.00	60,130	-5,750
July 31.....	848.04	17,100	-80	755.39	4,370	-10	887.69	53,980	-6,150
Aug. 31.....	848.09	17,150	+50	755.38	4,370	0	884.14	45,020	-7,660
Sept. 30.....	847.47	16,580	-570	753.48	3,720	-650	879.69	35,580	-9,440
WTR YR 1985	--	--	+3,200	--	--	-290	--	--	-3,200

## UPPER TWIN CREEK BASIN

03237280 UPPER TWIN CREEK AT MCGAW, OH

(HYDROLOGIC BENCH-MARK STATION)

LOCATION.--Lat 38°38'37", long 83°12'57", Scioto County, Hydrologic Unit 05090201, on right bank, 0.3 mi downstream from Brown Run, 0.3 mi upstream from Tucker Run, 0.7 mi upstream from bridge on U.S. Highway 52 at McGaw, 2.7 mi northeast of Buena Vista, and 3.2 mi upstream from mouth.

DRAINAGE AREA.-- 12.2 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 538.41 ft above National Geodetic Vertical Datum of 1929 (revised). Ohio Department of Highways bench mark. Prior to July 21, 1972 at site 0.7 mi downstream at datum 18.41 ft lower. July 21, 1972 to September 30, 1984 at same site at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Dec. 24 to Feb. 19, Feb. 25 to Mar. 10, Mar. 15-29 and Apr. 2-18. Records poor.

AVERAGE DISCHARGE.--22 years, 13.5 ft<sup>3</sup>/s, 15.03 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft<sup>3</sup>/s Mar. 4, 1964, gage height, 9.7 ft, in gage well, 10.2 ft, from outside highwater mark from rating curve extended above 300 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; no flow for many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 3, 1960 reached a stage of 11.62 ft, discharge, 7,230 ft<sup>3</sup>/s, on basis of contracted-opening and flow over road measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 21	1930	875	7.48	Aug. 25	0700	*1,050	*7.82
May 2	2030	490	6.70				

Minimum daily discharge, 0.04 ft<sup>3</sup>/s Sept. 20-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	.10	2.0	5.2	50	9.0	8.6	49	3.0	1.1	.17	.14	.55	
2	.08	1.7	4.8	40	5.2	8.0	35	94	.83	.31	.13	.41	
3	.09	1.1	4.7	22	3.3	7.8	22	123	.83	.31	.11	.30	
4	.11	1.0	4.1	21	2.7	7.8	15	35	8.1	.29	.11	.20	
5	.11	1.1	3.8	19	2.5	7.6	13	17	5.1	.24	.11	.17	
6	.15	1.4	3.8	23	2.6	7.2	27	10	3.3	.24	.11	.16	
7	.15	1.6	3.6	20	2.8	7.6	25	7.0	2.5	.22	.11	.14	
8	.11	1.2	3.4	17	2.9	8.0	30	5.1	22	.20	.11	.13	
9	.11	6.9	3.4	15	2.8	8.0	25	3.9	7.3	.16	.09	.12	
10	.11	12	71	10	2.7	7.8	20	3.3	49	.26	.08	.11	
11	.11	9.8	48	9.0	5.0	74	16	3.0	16	.18	.08	.08	
12	.11	5.7	15	7.6	7.8	120	14	3.3	29	.14	.08	.06	
13	.11	4.0	9.0	6.8	8.2	48	12	3.2	25	.14	.08	.06	
14	.11	3.1	15	6.0	5.8	29	11	2.5	12	.80	.08	.06	
15	.11	2.6	13	5.3	3.3	23	10	13	6.8	2.0	.08	.05	
16	.11	2.3	7.9	4.6	3.5	18	9.2	9.9	4.6	1.1	.17	.05	
17	.11	2.0	5.4	4.2	3.0	14	10	28	3.3	.71	.14	.05	
18	.11	7.8	5.3	3.8	2.8	12	8.2	18	2.5	.40	.16	.05	
19	.11	62	20	3.5	9.0	10	7.1	22	1.9	.19	.16	.05	
20	.11	13	30	3.3	21	9.0	6.6	13	1.4	.16	.16	.04	
21	.13	6.3	288	3.1	41	8.4	5.8	7.6	1.1	.14	.15	.04	
22	.24	4.9	88	3.0	189	8.0	5.4	5.1	.87	.14	.13	.04	
23	.31	4.1	30	2.9	245	10	5.2	4.8	.96	.13	.13	.06	
24	.95	3.5	25	2.9	107	13	6.6	4.2	.80	.13	.67	.08	
25	1.7	3.0	28	2.8	65	12	5.8	3.7	.72	.13	168	.08	
26	1.7	2.6	17	2.7	40	11	4.9	2.9	.65	.20	12	.09	
27	1.3	2.4	14	2.7	22	7.0	4.7	2.3	.44	.21	4.1	.08	
28	1.4	3.4	12	2.7	8.0	6.8	4.2	2.5	.31	.16	2.1	.08	
29	6.6	5.3	11	2.7	---	6.8	3.7	2.0	.22	.16	1.3	.08	
30	4.7	5.3	25	2.7	---	33	3.0	1.7	.17	.16	.85	.07	
31	3.1	---	40	5.0	---	68	---	1.4	---	.14	.77	---	
TOTAL	24.35	183.1	854.4	324.3	822.9	619.4	414.4	455.4	208.80	9.92	192.49	3.54	
MEAN	.79	6.10	27.6	10.5	29.4	20.0	13.8	14.7	6.96	.32	6.21	.12	
MAX	6.6	62	288	50	245	120	49	123	49	2.0	168	.55	
MIN	.08	1.0	3.4	2.7	2.5	6.8	3.0	1.4	.17	.13	.08	.04	
CFSM	.06	.50	2.26	.86	2.41	1.64	1.13	1.20	.57	.03	.51	.01	
IN.	.07	.56	2.61	.99	2.51	1.89	1.26	1.39	.64	.03	.59	.01	
CAL YR 1984	TOTAL	4578.71		MEAN	12.5	MAX	290	MIN	.00	CFSM	1.02	IN.	13.91
WTR YR 1985	TOTAL	4113.00		MEAN	11.3	MAX	288	MIN	.04	CFSM	.93	IN.	12.54



UPPER TWIN CREEK BASIN

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03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: March 1985 to September 1985.

pH: March 1985 to September 1985.

WATER TEMPERATURES: Water years 1963-66, 1967-70, 1972-1982, 1984-1985.

SUSPENDED SEDIMENT DISCHARGE: Water years 1964-69 (periodic), 1969 to 1973 (daily), 1974 to current year (periodic).

INSTRUMENTATION.--Water temperature recorder since July 1972.

REMARKS.--Water temperature unavailable for 1983 water year due to malfunction of the instrument or probe out of water.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 184 microsiemens Aug. 20, 1985; minimum, 46 microsiemens Aug. 25, 1985.

pH: Maximum, 7.6 units April 13, 1985; minimum, 5.8 units June 27-31, July 1, 3-5, 1985.

WATER TEMPERATURES: Maximum, 36.5°C June 19, 1984; minimum, 0.6°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 184 microsiemens Aug. 20; minimum, 46 microsiemens Aug. 25.

pH: Maximum, 7.6 units April 13; minimum, 5.8 units June 27-31 July 1, 3-5.

WATER TEMPERATURE: Maximum, 36.5°C June 19, 1984; minimum, 0.0°C on several days during winter periods.

UPPER TWIN CREEK BASIN  
03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued  
WATER QUALITY DATA

WATER QUALITY DATA											
		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)		
OCT	1984										
	16...	11:30	0.1	160	6.9	21.0	19.0	7.6	84		
	NOV										
	08...	11:30	1.2	125	6.7	10.0	10.5	11.6	105		
	DEC										
	11...	13:00	37	85	6.5	6.0	6.5	12.0	99		
JAN	1985										
	29...	11:30	2.8	90	7.0	-2.0	1.0	13.4	96		
	FEB										
	27...	11:30	23	75	6.8	7.0	6.0	12.1	98		
	MAR										
	26...	11:00	11	83	6.9	8.5	8.5	12.0	103		
	APR										
	30...	12:00	2.9	94	7.0	27.0	17.0	11.8	124		
	MAY										
	29...	11:55	2.0	120	6.8	21.0	17.5	9.6	103		
	JUN										
	24...	11:45	0.86	110	6.8	23.0	20.5	7.7	88		
	JUL										
	09...	11:30	0.15	125	7.0	28.5	23.5	7.2	87		
	AUG										
	07...	11:30	0.12	140	7.2	25.5	21.5	8.9	103		
	SEP										
	04...	11:00	0.22	120	6.7	25.0	23.5	7.0	84		
DATE		TIME	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT	1984										
	16...	58	K3	8.9	7.4	4.6	2.3	21	38	4.4	
	NOV										
	08...	20	42	7.2	6.2	3.8	1.9	16	33	2.7	
	DEC										
	11...	32	240	4.9	4.2	2.2	1.5	10	23	1.5	
JAN	1985										
	29...	K1	K1	5.1	4.6	2.7	1.4	9.0	27	1.9	
	FEB										
	27...	K2	K10	4.2	3.9	2.1	1.4	8.0	24	1.8	
	MAR										
	26...	K1	K6	5.0	4.5	2.5	1.3	8.0	28	1.7	
	APR										
	30...	34	100	5.6	5.0	2.9	1.8	11	31	2.0	
	MAY										
	29...	60	97	5.9	5.1	3.2	1.9	14	26	2.8	
	JUN										
	24...	190	280	6.6	5.5	3.2	2.6	16	27	2.5	
	JUL										
	09...	K7	210	7.5	6.2	3.7	3.0	19	30	2.7	
	AUG										
	07...	K6	150	8.5	7.1	4.3	2.5	22	33	3.3	
	SEP										
	04...	34	100	7.3	6.0	3.7	2.3	18	29	3.3	
DATE		TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT	1984										
	16...	<0.1	9.5	98	<0.10	<0.01	0.1	0.01	0.01	<0.01	
	NOV										
	08...	<0.1	9.4	76	0.23	<0.01	0.3	0.01	<0.01	<0.01	
	DEC										
	11...	<0.1	8.6	48	0.50	<0.01	0.3	<0.01	<0.01	<0.01	
JAN	1985										
	29...	<0.1	8.2	54	0.20	0.07	<0.1	<0.01	<0.01	<0.01	
	FEB										
	27...	<0.1	8.8	48	--	--	0.1	0.31	0.14	--	
	MAR										
	26...	<0.1	9.2	63	0.22	<0.01	0.3	<0.01	<0.01	<0.01	
	APR										
	30...	<0.1	10	65	<0.10	<0.01	0.1	<0.01	<0.01	<0.01	
	MAY										
	29...	0.4	10	75	0.20	<0.01	0.5	0.01	<0.01	0.01	
	JUN										
	24...	<0.1	10	66	0.27	<0.01	0.2	<0.01	<0.01	0.01	
	JUL										
	09...	<0.1	11	80	0.30	<0.01	0.1	0.02	0.02	0.03	
	AUG										
	07...	<0.1	11	93	0.25	<0.01	0.5	0.01	0.02	<0.01	
	SEP										
	04...	<0.1	11	81	0.29	0.04	0.2	0.02	0.03	<0.01	

## UPPER TWIN CREEK BASIN

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03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 1984											
16...	11:30	0.1	10	<1	35	<0.5	<1	<1	<3	1	5
JAN 1985											
29...	11:30	2.8	10	2	23	0.9	<1	1	<3	4	10
APR											
30...	12:00	2.9	20	<1	26	<0.5	1	<1	<3	2	24
JUL											
09...	11:30	0.15	20	<1	35	<0.5	<1	<1	<3	8	19

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 1984											
16...	<1	<4	2	0.1	<10	1	<1	<1	68	<6	<3
JAN 1985											
29...	3	<4	1	<0.1	<10	2	<1	<1	37	<6	8
APR											
30...	2	6	2	0.1	<10	<1	<1	<1	44	<6	5
JUL											
09...	3	<4	5	<0.1	<10	3	<1	<1	55	<6	7

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 1984					
16...	11:30	0.1	19.0	3	0.0
NOV					
08...	11:30	1.2	10.5	1	0.0
DEC					
11...	13:00	37	6.5	2	0.2
JAN 1985					
29...	11:30	2.8	1.0	<1	--
FEB					
27...	11:30	23	6.0	<1	--
MAR					
26...	11:00	11	8.5	<1	--
APR					
30...	12:00	2.9	17.0	1	0.01
MAY					
29...	11:55	2.0	17.5	<1	--
JUN					
24...	11:45	0.86	20.5	1	0.0
JUL					
09...	11:30	0.15	23.5	1	0.0
AUG					
07...	11:30	0.12	21.5	1	0.0
SEP					
04...	11:00	0.22	23.5	<1	--

## UPPER TWIN CREEK BASIN

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	70	99	110	119	129	115
2						---	73	93	110	118	130	117
3						---	75	70	110	117	132	119
4						---	76	---	95	118	134	121
5						---	78	---	102	119	134	122
6						---	76	---	107	120	135	123
7						---	74	86	105	120	137	124
8						---	73	87	91	121	139	126
9						---	73	90	100	126	136	127
10						---	74	92	86	124	142	128
11						---	75	94	93	128	141	127
12						---	76	94	86	129	145	126
13						73	78	95	86	131	147	127
14						73	79	99	89	130	146	127
15						74	80	92	92	115	145	127
16						75	80	93	94	121	140	128
17						76	82	87	96	124	144	129
18						77	84	86	100	124	138	131
19						78	86	85	103	125	134	132
20						79	---	86	104	125	132	133
21						81	---	89	106	126	132	134
22						81	---	91	107	126	132	135
23						81	---	92	107	128	133	136
24						82	---	93	111	129	127	140
25						84	---	94	114	130	79	139
26						85	---	97	115	127	104	140
27						84	---	100	116	127	112	140
28						84	---	101	118	126	112	140
29						85	---	103	118	127	113	141
30						74	98	106	119	130	114	142
31						72	---	108	---	130	114	---
MEAN						79	78	93	103	125	130	130
WTR YR 1985	MEAN	109		MAX	147	MIN	70					

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	6.6	6.8	6.7	5.9		
2						---	6.6	6.8	6.7	6.0		
3						---	6.6	6.8	6.8	5.9		
4						---	6.6	---	6.9	6.0		
5						---	6.7	---	6.9	5.9		
6						---	6.7	---	6.8	---		
7						---	6.6	6.9	6.8	---		
8						---	6.6	6.9	6.9	---		
9						---	6.6	6.9	6.9	---		
10						---	6.6	6.9	6.8	---		
11						---	6.6	6.9	6.8	---		
12						---	6.7	6.9	6.9	---		
13						6.1	6.7	6.9	7.0	---		
14						6.2	6.8	6.7	7.0	---		
15						6.3	6.7	6.9	6.9	---		
16						6.4	6.8	6.9	6.9	---		
17						6.4	6.8	6.9	6.9	---		
18						6.5	6.8	6.9	6.7	---		
19						6.5	6.8	6.9	6.6	---		
20						6.5	---	6.9	6.6	---		
21						6.6	---	7.0	6.5	---		
22						6.6	---	7.0	6.5	---		
23						6.6	---	7.0	6.5	---		
24						6.7	---	7.0	6.3	---		
25						6.7	---	7.0	6.2	---		
26						6.7	---	7.0	6.1	---		
27						6.7	---	7.0	6.1	---		
28						6.7	---	6.9	6.0	---		
29						6.7	---	6.9	6.0	---		
30						6.7	6.9	6.8	5.9	---		
31						6.6	---	6.7	---	---		
MEAN						6.5	6.7	6.9	6.6	5.9		
WTR YR 1985	MEAN	6.7		MAX	7.0	MIN	5.9					



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PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1				---	---	---	6.8	6.5	6.6	7.0	6.7	6.8
2				---	---	---	6.8	6.5	6.6	7.0	6.7	6.8
3				---	---	---	7.0	6.5	6.7	6.9	6.8	6.8
4				---	---	---	7.0	6.6	6.7	---	---	---
5				---	---	---	6.9	6.6	6.7	---	---	---
6				---	---	---	7.1	6.6	6.8	---	---	---
7				---	---	---	7.2	6.6	6.7	7.1	6.9	7.0
8				---	---	---	7.0	6.6	6.7	7.2	6.8	7.0
9				---	---	---	7.0	6.6	6.7	7.1	6.8	6.9
10				---	---	---	7.4	6.6	6.8	7.1	6.8	6.9
11				---	---	---	7.2	6.6	6.8	7.0	6.8	6.9
12				---	---	---	7.4	6.6	6.8	7.0	6.8	6.9
13				6.2	6.0	6.1	7.6	6.6	6.8	7.0	6.7	6.9
14				6.3	6.1	6.2	7.4	6.7	6.9	7.0	6.7	6.8
15				6.4	6.1	6.2	7.3	6.7	6.8	7.2	6.7	6.9
16				6.4	6.3	6.4	7.3	6.7	6.9	7.3	6.8	6.9
17				6.5	6.4	6.4	7.5	6.7	7.0	7.1	6.8	6.9
18				6.5	6.4	6.5	7.2	6.7	6.8	7.3	6.8	7.0
19				6.5	6.4	6.5	7.0	6.7	6.8	7.4	6.8	7.0
20				6.6	6.5	6.5	---	---	---	7.4	6.8	7.0
21				6.6	6.5	6.6	---	---	---	7.5	6.8	7.0
22				6.7	6.6	6.6	---	---	---	7.3	6.9	7.0
23				6.7	6.6	6.6	---	---	---	7.1	6.9	7.0
24				6.7	6.6	6.7	---	---	---	7.4	6.9	7.1
25				6.7	6.6	6.7	---	---	.0	7.5	6.9	7.1
26				6.8	6.6	6.7	---	---	---	7.3	6.9	7.1
27				6.8	6.6	6.7	---	---	---	7.2	6.9	7.0
28				6.8	6.7	6.7	---	---	---	7.0	6.8	6.9
29				6.8	6.7	6.7	---	---	---	7.0	6.8	6.9
30				6.8	6.6	6.7	7.3	6.7	6.9	6.9	6.7	6.8
31				6.7	6.5	6.6	---	---	---	7.0	6.7	6.8
MONTH				6.8	6.0	6.5	7.6	6.5	6.5	7.5	6.7	6.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	6.9	6.6	6.7	6.4	5.8	6.0						
2	6.9	6.6	6.7	6.5	5.9	6.0						
3	6.9	6.6	6.7	6.5	5.8	6.0						
4	7.2	6.6	6.9	6.6	5.8	6.1						
5	7.1	6.8	6.9	6.5	5.8	6.0						
6	7.3	6.7	6.9	---	---	---						
7	7.1	6.7	6.8	---	---	---						
8	7.5	6.8	7.0	---	---	---						
9	7.5	6.5	7.0	---	---	---						
10	7.3	6.6	6.9	---	---	---						
11	7.2	6.7	6.9	---	---	---						
12	7.0	6.7	6.9	---	---	---						
13	7.5	6.9	7.1	---	---	---						
14	7.5	6.8	7.1	---	---	---						
15	7.5	6.8	7.0	---	---	---						
16	7.4	6.7	7.0	---	---	---						
17	7.2	6.7	6.9	---	---	---						
18	7.3	6.6	6.8	---	---	---						
19	6.9	6.5	6.7	---	---	---						
20	6.8	6.5	6.6	---	---	---						
21	6.7	6.3	6.5	---	---	---						
22	6.6	6.4	6.5	---	---	---						
23	6.8	6.3	6.5	---	---	---						
24	6.5	6.1	6.3	---	---	---						
25	6.5	5.9	6.2	---	---	---						
26	6.4	5.9	6.1	---	---	---						
27	6.5	5.8	6.1	---	---	---						
28	7.4	5.8	6.1	---	---	---						
29	6.5	5.8	6.0	---	---	---						
30	6.7	5.8	6.0	---	---	---						
31	---	---	---	---	---	---						
MONTH	7.5	5.8	6.7	6.6	5.8	6.0						
YEAR	7.6	5.8	6.6									

## UPPER TWIN CREEK BASIN

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	15.5	11.0	13.0	7.0	5.5	6.5	2.5	1.0	1.5
2	---	---	---	16.5	11.5	14.0	6.0	5.0	5.5	2.5	1.5	2.0
3	---	---	---	17.0	13.0	15.0	6.5	6.0	6.5	3.0	1.5	2.0
4	---	---	---	12.5	9.5	10.5	8.0	6.5	8.0	2.5	1.5	2.0
5	---	---	---	13.0	10.0	11.0	9.0	8.0	8.5	2.5	1.5	2.0
6	---	---	---	11.5	8.0	9.5	9.5	7.5	8.5	4.0	2.0	2.5
7	---	---	---	12.0	8.0	9.5	7.5	6.5	7.0	3.0	1.0	2.0
8	---	---	---	11.0	7.0	9.0	7.0	6.5	7.0	4.0	1.0	2.5
9	---	---	---	11.5	7.5	9.0	7.0	6.5	6.5	4.0	2.0	3.0
10	---	---	---	12.5	9.5	11.0	8.0	6.5	7.5	3.0	1.0	2.0
11	---	---	---	10.0	9.0	9.5	8.5	7.5	8.0	1.5	.5	.5
12	---	---	---	9.5	8.0	9.0	9.5	8.5	9.0	1.0	.5	.5
13	---	---	---	9.5	7.5	8.0	8.5	8.5	8.5	1.5	.5	1.0
14	---	---	---	9.5	6.5	8.0	8.5	8.0	8.5	2.0	1.0	1.5
15	---	---	---	9.5	8.5	9.0	8.0	7.0	7.5	2.0	1.0	1.5
16	---	---	---	8.5	8.0	8.5	6.5	5.0	6.0	1.5	.5	1.0
17	---	---	---	9.0	8.0	8.5	5.0	3.5	4.0	2.5	1.0	1.5
18	---	---	---	9.5	7.5	8.5	4.5	2.5	3.5	1.5	.5	1.0
19	15.0	12.5	14.0	12.5	9.0	10.5	3.5	2.0	2.5	2.0	.0	.5
20	14.5	11.5	13.0	11.5	10.0	11.0	2.5	1.5	2.0	1.5	.0	.5
21	14.5	13.5	14.0	11.5	8.5	10.0	3.5	2.0	3.0	2.0	.0	.5
22	14.5	13.5	14.5	12.0	8.0	9.5	4.5	3.0	3.5	1.5	.0	.5
23	15.0	14.0	14.5	11.5	10.0	10.5	5.0	2.0	2.5	1.0	.0	.5
24	15.0	14.5	14.5	11.5	8.5	10.5	2.0	.5	1.0	1.0	.0	.5
25	15.0	14.0	14.5	9.0	7.0	8.0	2.5	.5	1.5	1.0	.0	.5
26	14.5	12.5	13.5	9.0	6.5	7.5	2.0	.5	1.5	2.5	.5	1.0
27	14.5	12.0	13.0	8.0	6.5	7.5	2.5	1.0	1.5	3.0	.5	1.5
28	15.0	11.0	13.0	10.5	8.0	9.0	4.5	1.0	2.5	3.5	1.5	2.5
29	14.5	11.0	13.0	8.5	7.0	7.5	2.5	.5	1.5	3.0	2.0	2.5
30	14.0	10.5	12.0	8.0	6.5	7.0	2.5	.5	1.5	3.0	1.5	2.0
31	14.5	10.0	12.5	---	---	---	2.5	.5	1.5	2.5	.5	1.5
MONTH	15.0	10.0	13.5	17.0	6.5	9.5	9.5	.5	5.0	4.0	.0	1.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3.0	.5	1.5	5.0	2.5	4.0	9.0	6.5	7.5	16.5	11.0	13.5
2	4.0	.5	2.0	6.0	4.0	4.5	10.0	6.0	8.0	13.0	11.0	12.0
3	3.5	2.5	3.0	5.5	2.0	4.0	8.0	7.5	7.5	13.5	11.0	12.0
4	4.0	2.0	3.0	5.5	1.5	4.0	8.0	7.0	7.5	12.5	11.0	12.0
5	4.0	2.0	3.0	6.0	4.5	5.5	8.0	7.5	7.5	14.0	10.5	12.0
6	3.0	1.0	2.0	5.5	4.5	5.0	7.5	6.5	7.0	12.5	11.5	12.0
7	3.0	.5	1.0	6.0	3.0	4.5	10.5	6.0	8.0	14.0	12.0	13.0
8	2.5	.5	1.5	5.5	2.0	4.0	8.5	7.0	7.5	13.0	10.5	12.0
9	4.0	1.5	2.5	4.0	1.0	2.5	8.5	7.5	8.0	11.5	9.5	10.5
10	4.5	2.5	3.5	4.5	1.5	2.5	12.5	8.0	9.5	14.5	9.0	11.5
11	6.5	4.0	5.0	6.0	2.5	4.0	13.0	7.0	9.5	16.0	11.0	13.5
12	7.5	5.0	6.5	5.5	1.5	3.5	12.0	7.5	9.5	17.5	13.5	15.0
13	8.5	7.0	8.0	6.0	4.5	5.5	14.0	9.5	11.5	13.5	12.0	13.0
14	8.0	6.5	7.0	6.5	5.0	5.5	14.0	9.5	11.0	15.0	11.5	13.0
15	7.0	5.5	6.0	9.0	4.5	6.5	13.0	8.5	10.5	16.0	10.0	12.5
16	7.5	5.0	6.0	9.5	7.5	8.0	11.0	9.0	10.0	16.5	10.0	13.0
17	8.0	6.5	8.0	7.5	6.0	7.0	9.5	8.0	9.0	17.5	10.0	13.5
18	9.0	7.0	8.0	7.5	6.5	7.0	8.0	7.5	8.0	18.5	11.5	14.5
19	10.0	7.0	8.5	9.5	6.0	7.5	10.0	7.0	8.5	20.5	13.0	16.0
20	8.0	6.5	7.5	9.5	7.5	8.0	12.5	7.5	10.0	20.5	14.5	17.0
21	7.5	5.0	6.0	7.0	6.5	7.0	9.5	8.5	9.0	19.5	15.5	17.5
22	7.5	5.0	6.0	6.5	5.5	6.0	10.5	8.5	9.0	23.0	16.0	18.5
23	7.5	5.0	6.0	8.0	5.5	6.5	10.0	8.5	9.0	22.0	17.0	19.0
24	8.5	5.5	7.0	8.5	5.0	7.0	9.0	8.0	8.5	23.0	15.0	18.5
25	8.0	6.0	7.0	9.0	7.5	8.5	13.5	7.5	10.5	22.5	15.0	18.5
26	7.0	4.5	5.5	9.5	7.5	8.5	16.0	10.0	13.0	19.5	17.0	18.0
27	7.0	4.5	5.5	9.5	8.0	9.0	16.5	12.0	14.0	23.0	16.0	19.0
28	6.5	3.5	5.5	9.0	8.0	8.5	16.0	13.0	14.0	21.0	17.5	18.5
29	5.0	3.0	4.0	8.0	7.0	7.5	16.0	12.0	14.0	17.5	13.5	15.5
30	---	---	---	8.0	5.5	6.5	18.5	13.5	15.0	15.0	12.5	13.5
31	---	---	---	7.5	5.0	6.5	---	---	---	20.0	11.5	14.5
MONTH	10.0	.5	5.0	9.5	1.0	6.0	18.5	6.0	9.5	23.0	9.0	14.5



## UPPER TWIN CREEK BASIN

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	14.5	11.5	13.0	19.0	14.5	16.5						
2	18.5	9.5	13.0	16.0	11.0	14.0						
3	18.0	8.5	13.0	13.5	9.5	11.5						
4	20.0	11.5	15.5	14.0	12.5	13.5						
5	21.0	13.5	16.5	15.5	12.0	13.5						
6	20.5	13.0	16.5	12.5	9.0	11.5						
7	21.5	15.5	17.5	12.0	8.0	9.5						
8	19.0	16.0	17.0	11.5	7.5	8.5						
9	24.0	15.5	19.0	---	---	---						
10	22.0	15.5	18.5	---	---	---						
11	22.5	15.0	17.5	---	---	---						
12	20.5	16.0	17.5	---	---	---						
13	21.5	15.5	17.5	---	---	---						
14	21.0	14.5	17.5	---	---	---						
15	22.5	14.0	17.5	---	---	---						
16	23.5	14.5	18.5	---	---	---						
17	23.0	16.0	19.0	---	---	---						
18	23.0	16.5	19.5	---	---	---						
19	23.0	16.0	19.5	---	---	---						
20	19.5	13.0	16.5	---	---	---						
21	22.0	15.5	18.5	---	---	---						
22	18.0	15.0	16.5	---	---	---						
23	15.0	14.0	14.5	---	---	---						
24	16.0	14.0	15.0	---	---	---						
25	18.5	14.5	16.0	---	---	---						
26	20.0	15.5	17.0	---	---	---						
27	20.0	15.0	17.5	---	---	---						
28	18.5	17.0	18.0	---	---	---						
29	17.5	16.5	17.0	---	---	---						
30	18.5	16.0	17.0	---	---	---						
31	18.5	15.5	16.5	---	---	---						
MONTH	24.0	8.5	17.0	19.0	7.5	12.5						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1				---	---	---	11.0	9.0	10.0	18.5	16.5	17.5
2				---	---	---	11.0	8.0	9.5	16.5	13.5	15.5
3				---	---	---	14.5	8.0	11.0	15.5	13.5	14.0
4				---	---	---	16.0	9.5	12.5	---	---	---
5				---	---	---	16.0	12.0	14.0	---	---	---
6				---	---	---	13.0	10.0	11.5	---	---	---
7				---	---	---	12.0	9.0	10.0	18.5	15.0	17.0
8				---	---	---	11.0	8.0	9.5	18.5	12.5	15.5
9				---	---	---	9.5	7.0	8.0	19.5	13.0	16.0
10				---	---	---	12.0	5.5	8.5	20.0	14.0	16.5
11				---	---	---	12.5	9.0	10.5	20.0	15.0	17.0
12				---	---	---	16.0	9.0	12.5	20.0	16.0	17.5
13				7.5	7.0	7.5	16.0	12.0	14.0	22.0	15.5	18.5
14				9.5	7.0	8.0	17.0	13.0	14.5	22.5	17.0	19.5
15				10.0	6.0	7.5	16.0	13.0	14.5	20.0	17.0	18.5
16				9.0	5.0	7.0	18.0	13.5	15.5	19.0	15.0	16.5
17				8.5	5.5	7.0	18.5	12.0	15.0	15.5	13.5	14.5
18				8.5	4.0	6.0	19.5	12.0	15.5	15.5	12.5	14.0
19				10.0	4.0	6.5	22.0	14.5	18.0	17.5	12.5	14.5
20				11.0	6.5	8.0	---	---	---	19.0	13.0	16.0
21				8.5	6.0	7.5	---	---	---	19.5	14.5	16.5
22				8.0	6.5	7.5	---	---	---	16.5	14.5	15.0
23				8.5	7.0	7.5	---	---	---	15.0	14.5	14.5
24				11.5	6.5	8.5	---	---	---	16.0	14.0	15.0
25				10.0	6.0	7.5	---	---	---	20.5	13.5	16.5
26				12.5	5.0	8.5	---	---	---	20.5	14.5	17.5
27				11.5	7.5	9.5	---	---	---	21.5	15.5	18.5
28				14.0	11.0	12.0	---	---	---	18.5	16.5	17.5
29				14.0	12.0	13.0	---	---	---	20.0	15.5	17.5
30				13.5	11.0	12.0	20.5	15.5	18.5	20.5	15.5	18.0
31				12.5	9.5	10.5	---	---	---	22.0	17.5	19.5
MONTH				14.0	4.0	8.5	22.0	5.5	12.5	22.5	12.5	16.5





03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1				---	---	---	72	68	70	100	98	99
2				---	---	---	75	72	73	98	60	86
3				---	---	---	76	74	75	71	68	70
4				---	---	---	77	75	76	---	---	---
5				---	---	---	79	76	78	---	---	---
6				---	---	---	80	75	76	---	---	---
7				---	---	---	76	73	74	87	84	86
8				---	---	---	73	72	73	89	87	88
9				---	---	---	74	73	73	91	89	90
10				---	---	---	75	73	74	94	91	92
11				---	---	---	76	74	75	95	93	94
12				---	---	---	78	75	76	95	88	93
13				73	73	73	79	77	78	97	93	95
14				74	72	73	80	78	79	100	98	99
15				75	73	74	80	79	80	101	89	93
16				76	74	75	82	80	81	95	89	93
17				77	75	76	84	81	82	90	85	87
18				78	76	77	86	82	84	87	85	86
19				79	77	78	87	85	86	86	83	85
20				81	78	79	---	---	---	88	85	86
21				82	80	81	---	---	---	90	88	89
22				81	80	81	---	---	---	92	90	91
23				82	80	81	---	---	---	93	91	92
24				84	80	82	---	---	---	94	92	93
25				85	84	84	---	---	---	97	93	95
26				86	84	85	---	---	---	100	96	97
27				85	83	84	---	---	---	101	97	100
28				85	83	84	---	---	---	102	100	101
29				86	84	85	---	---	---	105	102	103
30				87	73	77	100	97	98	108	105	106
31				74	67	71	---	---	---	110	107	108
MONTH				87	67	79	100	68	78	110	60	93
JUNE				JULY			AUGUST			SEPTEMBER		
1	111	109	110	126	114	119	131	127	129	117	98	115
2	112	108	110	119	117	118	133	128	131	119	60	117
3	110	108	109	118	115	117	135	130	132	120	68	119
4	111	90	98	120	117	118	137	132	134	122	119	121
5	106	96	102	122	114	119	136	130	134	123	120	122
6	109	106	107	121	119	120	137	132	135	124	122	123
7	110	99	106	122	119	120	139	133	135	126	123	124
8	98	79	90	123	120	121	139	133	135	127	124	126
9	103	90	99	137	122	127	144	135	138	128	125	127
10	92	78	86	127	101	123	146	140	142	129	126	128
11	94	89	92	137	123	127	143	140	141	129	126	127
12	90	85	86	133	126	129	155	140	146	128	126	127
13	88	85	86	133	128	131	152	143	147	128	125	127
14	91	88	89	134	93	124	149	143	146	128	125	127
15	94	91	92	118	113	115	150	127	143	128	126	127
16	96	93	94	142	117	121	147	94	136	129	125	128
17	98	95	97	127	122	124	145	141	144	130	127	129
18	103	99	100	126	122	124	141	135	138	132	128	130
19	104	102	103	126	123	125	136	133	134	133	129	132
20	106	103	104	145	124	126	184	128	134	135	130	133
21	107	105	106	149	124	126	133	130	132	135	131	134
22	108	105	107	128	124	126	154	130	134	136	133	135
23	109	106	107	130	125	128	154	131	136	137	135	136
24	114	109	111	132	126	129	134	96	124	144	138	141
25	116	113	114	132	128	130	123	46	77	141	137	139
26	116	114	115	132	111	127	117	94	103	143	137	140
27	118	115	117	127	125	126	121	108	113	142	139	140
28	131	116	119	127	124	126	113	111	112	142	137	140
29	119	118	118	130	126	128	113	111	113	143	139	141
30	121	118	119	170	127	132	114	113	114	145	141	143
31	---	---	---	131	125	130	115	113	114	---	---	---
MONTH	131	78	103	170	93	124	184	46	130	145	60	130
YEAR	184	46	109									

## UPPER TWIN CREEK BASIN

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03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	----	13.0	6.5	1.5	1.5	4.5	7.0	13.5	15.5	21.0	24.0	
2	----	14.5	5.5	2.0	2.5	4.5	8.0	12.0	18.5	23.5	24.5	
3	----	14.5	6.5	2.0	3.0	3.5	7.5	12.5	19.0	24.0	25.0	
4	----	11.0	8.0	2.0	3.5	4.5	8.0	12.0	19.5	22.5	25.0	
5	----	11.0	8.5	2.0	3.0	5.5	7.5	12.5	21.0	22.5	25.0	
6	----	9.5	8.0	2.5	2.0	5.0	7.0	12.0	22.0	23.0	25.0	
7	----	9.0	7.0	2.0	.5	4.5	8.0	13.0	23.0	22.5	25.5	
8	----	8.5	7.0	2.0	1.5	4.5	8.0	12.5	23.0	21.0	25.0	
9	----	9.0	6.5	3.0	2.5	2.0	8.0	10.5	23.5	23.0	26.5	
10	----	11.0	7.5	2.5	4.0	3.0	9.0	12.5	23.5	25.5	24.0	
11	----	10.0	8.0	.5	5.5	4.0	9.5	14.0	23.5	24.0	23.5	
12	----	8.5	9.0	.5	6.5	4.0	10.0	14.5	24.0	23.5	22.0	
13	----	8.0	8.5	1.0	8.0	5.5	11.5	13.0	24.5	23.5	22.5	
14	----	8.0	8.5	1.5	7.0	5.5	11.0	12.5	24.5	23.5	22.5	
15	----	9.0	7.5	1.5	6.0	7.0	10.5	12.5	24.0	22.0	23.5	
16	----	8.0	6.5	1.0	6.0	8.0	9.5	12.5	23.5	22.0	23.5	
17	----	8.5	4.0	1.5	8.0	7.0	9.0	13.0	25.0	22.0	24.0	
18	----	8.5	3.5	1.0	8.0	7.0	8.0	14.5	26.0	22.0	23.0	
19	14.0	10.5	2.5	.5	9.0	8.0	8.5	16.0	26.0	21.5	22.5	
20	12.5	11.0	2.5	.5	7.5	8.0	10.0	17.0	24.0	22.0	22.5	
21	14.0	9.5	3.0	.5	6.0	6.5	9.0	17.0	25.0	22.5	23.0	
22	14.5	10.0	3.5	.5	6.0	6.5	9.0	18.5	25.0	23.0	24.0	
23	14.5	10.5	2.5	1.0	6.5	6.5	9.0	18.0	23.5	25.0	23.5	
24	14.5	10.5	1.0	.5	7.5	7.0	8.5	17.5	24.0	25.5	21.5	
25	14.5	8.0	1.5	.5	7.0	8.5	11.5	18.0	22.0	23.0	21.0	
26	13.5	7.5	1.5	1.0	5.5	8.5	13.5	17.5	22.5	22.5	21.5	
27	12.5	8.0	1.5	2.5	6.0	9.0	14.0	18.5	22.0	22.0	23.0	
28	13.5	9.0	2.0	2.5	6.0	8.5	13.5	18.0	24.0	22.0	23.5	
29	13.5	7.5	1.0	2.5	3.5	7.0	14.0	15.5	22.5	22.0	24.5	
30	11.5	7.0	1.5	2.0	---	6.5	14.5	13.5	20.5	22.0	23.5	
31	13.0	---	1.5	1.0	---	6.5	---	14.5	---	24.5	21.5	
MEAN	13.5	9.5	5.0	1.5	5.0	6.0	9.5	14.5	23.0	23.0	23.5	
WTR YR 1984	MEAN	12.0		MAX	26.5	MIN	.5					

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	17.0				---	9.5	17.0	20.0	20.5	22.0	21.5
2	11.5	14.0				---	9.0	16.5	19.5	20.5	20.5	22.0
3	13.5	12.0				---	11.0	13.5	20.0	21.0	20.5	22.5
4	15.0	13.5				---	13.0	---	19.5	21.5	21.5	22.5
5	15.5	13.5				---	14.0	---	18.0	21.5	21.0	22.5
6	16.5	11.5				---	11.5	---	18.5	21.5	21.5	23.0
7	17.0	9.5				---	10.0	17.0	18.0	21.5	21.5	23.5
8	17.0	8.0				---	9.0	15.0	18.5	22.0	23.0	24.0
9	18.5	---				---	7.5	16.0	19.5	23.0	22.0	24.5
10	17.5	---				---	10.0	17.0	18.5	22.5	23.0	23.5
11	17.0	---				---	10.5	17.0	18.5	22.5	23.5	22.0
12	16.5	---				---	13.0	17.0	16.5	22.5	23.5	19.0
13	16.5	---				7.5	13.5	19.0	15.0	22.5	25.0	17.0
14	17.0	---				8.0	14.5	19.0	16.0	24.0	24.5	16.0
15	17.5	---				7.0	14.5	18.0	16.5	23.0	23.5	15.5
16	18.0	---				7.0	15.0	16.5	18.0	22.0	23.0	16.0
17	18.0	---				6.5	14.5	15.0	17.5	20.0	23.5	16.5
18	18.5	---				5.5	16.0	13.5	18.5	20.0	23.5	18.0
19	20.0	---				7.0	17.0	15.0	18.0	21.5	22.5	18.0
20	17.0	---				8.0	---	16.0	18.0	22.0	21.5	18.5
21	18.0	---				7.5	---	16.5	18.5	21.0	20.5	19.5
22	16.5	---				7.5	---	15.0	18.5	22.0	20.0	19.0
23	14.5	---				7.5	---	14.5	20.0	21.5	20.5	19.5
24	15.0	---				8.5	---	14.5	20.0	22.5	20.5	18.5
25	16.0	---				7.5	---	16.5	21.0	22.5	19.0	16.0
26	17.0	---				8.5	---	17.5	20.5	22.0	19.5	16.5
27	18.0	---				11.0	---	19.0	20.5	21.5	20.0	15.5
28	18.0	---				12.0	---	17.5	20.0	22.0	20.0	15.0
29	17.0	---				12.5	---	17.0	20.5	22.5	21.0	15.0
30	16.5	---				12.0	18.5	18.0	20.5	22.5	20.5	16.0
31	16.0	---				10.5	---	19.5	---	22.5	21.0	---
MEAN	16.5	12.5				8.5	12.5	16.5	19.0	22.0	21.5	19.0
WTR YR 1985	MEAN	17.5		MAX	25.0	MIN	5.5					

## OHIO BRUSH CREEK BASIN

03237500 OHIO BRUSH CREEK NEAR WEST UNION, OH

LOCATION.--Lat 38°48'13", long 83°25'16", Adams County, Hydrologic Unit 05090201, on right bank at downstream side of bridge on State Highway 348, 0.3 mi downstream from Cedar Run, 7.0 mi east of West Union, and 7.1 mi upstream from Beasley Fork.

DRAINAGE AREA.--387 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 510.6 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 21 and Sept. 17-30. Records good except those for periods of estimated record, which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--54 years, 453 ft<sup>3</sup>/s, 15.90 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,200 ft<sup>3</sup>/s Mar. 10, 1964, gage height, 27.91 ft, from rating curve extended above 22,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage heights 22.70 ft, 26.5 ft, and 27.91 ft; no flow Sept. 13-23, 27, 28, 1955 and for part of each day Sept. 17, 18, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft<sup>3</sup>/s and maximum (\*)

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 22	0445	12,100	13.59	Mar. 31	0130	*19,200	*17.10
Feb. 22	2330	15,300	15.25	May 2	2115	12,900	14.03
Mar. 30	1045	14,300	14.76				

Minimum daily discharge, 1.1 ft<sup>3</sup>/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	11	49	303	934	230	324	2030	60	118	27	19	9.0	
2	9.9	53	204	761	200	291	850	4130	104	42	19	6.8	
3	10	123	165	456	170	243	560	2820	77	70	28	5.4	
4	8.2	95	154	477	150	218	421	696	989	53	18	4.4	
5	7.1	360	127	707	140	311	350	369	557	36	13	3.7	
6	6.3	234	128	643	130	259	592	261	212	27	10	3.2	
7	5.4	116	105	485	110	197	565	201	146	21	8.5	3.0	
8	6.1	80	120	425	90	208	716	157	289	36	7.5	2.8	
9	7.4	479	137	323	86	316	481	130	187	27	6.3	2.6	
10	11	1200	1620	247	80	246	372	111	598	23	5.4	2.2	
11	14	680	1720	190	78	1750	329	99	232	20	5.2	2.5	
12	14	263	605	160	250	4440	296	91	1630	16	5.0	2.8	
13	13	156	404	140	500	1110	251	266	881	12	4.3	2.6	
14	12	113	765	120	450	655	223	151	354	10	3.6	2.5	
15	12	96	771	110	420	467	206	1650	210	10	3.9	2.3	
16	11	102	437	100	390	357	215	755	155	9.9	6.4	2.2	
17	9.7	89	326	92	350	309	222	1140	127	8.5	210	2.1	
18	8.5	526	255	80	330	267	174	582	136	6.6	70	1.9	
19	8.3	2040	326	74	310	225	153	966	116	5.9	30	1.8	
20	9.2	711	731	70	300	202	138	417	90	5.7	18	1.7	
21	13	314	3230	68	1000	178	126	249	87	11	13	1.6	
22	63	196	5550	66	7480	164	116	179	70	273	9.1	1.4	
23	300	147	984	64	6960	188	107	167	64	361	7.0	1.3	
24	144	125	553	64	2990	210	100	165	60	63	8.8	1.3	
25	90	110	490	63	1180	194	95	132	53	27	12	1.5	
26	60	100	349	62	678	158	89	108	46	18	223	1.4	
27	41	92	287	62	501	139	82	90	39	14	108	1.2	
28	37	750	262	62	377	136	79	84	31	13	45	1.6	
29	223	788	236	62	---	138	72	82	26	10	25	1.2	
30	119	328	1300	62	---	10100	64	79	23	8.4	16	1.1	
31	71	---	1440	100	---	8600	---	67	---	18	12	---	
TOTAL	1355.1	10515	24084	7329	25930	32600	10074	16454	7707	1283.0	970.0	79.2	
MEAN	43.7	351	777	236	926	1052	336	531	257	41.4	31.3	2.64	
MAX	300	2040	5550	934	7480	10100	2030	4130	1630	361	223	9.0	
MIN	5.4	49	105	62	78	136	64	60	23	5.7	3.6	1.1	
CFSM	.11	.91	2.01	.61	2.39	2.72	.87	1.37	.66	.11	.08	.01	
IN.	.13	1.01	2.32	.70	2.49	3.13	.97	1.58	.74	.12	.09	.01	
CAL YR 1984	TOTAL	148561.9		MEAN	406	MAX	6670	MIN	3.2	CFSM	1.05	IN.	14.25
WTR YR 1985	TOTAL	138380.3		MEAN	379	MAX	10100	MIN	1.1	CFSM	.98	IN.	13.30



## WHITEOAK CREEK BASIN

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03238500 WHITEOAK CREEK NEAR GEORGETOWN, OH

LOCATION.--Lat 38°51'29", long 83°55'43", Brown County, Hydrologic Unit 05090201, on left bank 150 ft upstream from diversion dam for Georgetown water treatment plant, 0.7 mi upstream from Town Run, 1.4 mi southwest of Georgetown, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--218 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1923 to November 1935, October 1939 to current year.

REVISED RECORDS.--WSP 728: 1924-31. WSP 758: 1933. WSP 1908: Drainage area. WRD OH-74 1: 1973 (P)

GAGE.--Water-stage recorder. Datum of gage is 604.20 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 12, 1972 nonrecording gage at a site 1.0 mi downstream at datum 35.24 ft lower. See WSP 2108 for history of changes prior to Dec. 8, 1940.

REMARKS.--Estimated daily discharges: Jan. 11 to Mar. 25. Records fair except those below 30 ft<sup>3</sup>/s and for periods of estimated daily discharges, which are poor. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1970 to 1974. Water supply for city of Georgetown is pumped from gage pool to nearby reservoir. Pumpage from reservoir to water treatment plant averaged 0.72 ft<sup>3</sup>/s in 1985.

AVERAGE DISCHARGE.--58 years, 258 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft<sup>3</sup>/s Mar. 10, 1964; maximum gage height, 20.87 ft May 14, 1933, site and datum then in use; no flow at times in 1930, 1940-41, 1943, 1948, 1951-53, 1959, 1969, 1970, 1976-1978, 1983-1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft<sup>3</sup>/s, and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 22	0700	7,420	6.76	Mar. 12	0600	5,860	6.23
Feb. 23	1500	9,180	7.28	Mar. 30	1830	*9,880	*7.47

Minimum daily discharge, no flow Aug. 12-15, Sept. 4-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	10	106	748	30	108	1060	27	34	7.6	43	3.0
2	2.4	29	70	912	28	100	301	1390	49	10	26	1.9
3	1.6	93	59	248	27	88	173	1880	26	16	12	.08
4	1.6	56	49	324	26	78	132	283	254	11	8.8	.00
5	2.0	316	45	545	25	80	108	122	213	12	6.6	.00
6	.98	138	35	520	24	92	132	80	72	8.8	4.5	.00
7	.44	48	28	284	23	71	183	60	45	7.4	2.9	.00
8	2.3	25	52	234	23	74	278	43	98	11	1.6	.00
9	4.5	20	36	141	22	140	185	35	77	10	.54	.00
10	3.8	146	46	92	22	120	122	32	49	9.4	.45	.00
11	3.3	347	46	60	21	796	105	28	54	6.8	1.4	.00
12	6.5	109	122	50	90	4180	96	26	754	3.7	.00	.00
13	6.5	51	249	47	170	570	83	38	465	3.2	.00	.00
14	4.2	29	817	44	230	253	71	53	161	4.3	.00	.00
15	5.2	23	584	41	200	170	78	122	79	3.5	.00	.00
16	5.2	22	221	39	190	121	117	206	53	1.2	453	.00
17	4.0	22	146	36	130	98	72	205	43	2.3	182	.00
18	4.6	31	118	34	120	85	59	171	59	2.3	29	.00
19	4.6	550	154	33	120	73	49	161	60	2.3	11	.00
20	3.2	435	429	32	200	66	42	135	38	2.3	6.5	.00
21	4.0	133	248	30	300	64	37	66	29	2.0	4.3	.00
22	13	65	3500	29	1740	60	32	42	27	5.3	3.5	.00
23	22	39	523	28	8300	56	31	42	22	22	2.4	.00
24	27	32	212	27	2710	68	29	77	45	8.5	4.1	.00
25	20	29	167	26	652	60	27	53	37	5.6	77	.00
26	13	26	127	25	291	53	26	35	32	3.6	222	.00
27	8.7	23	112	24	194	43	25	27	20	4.9	47	.00
28	6.8	105	102	23	139	42	24	27	12	3.6	17	.00
29	8.2	703	86	22	---	43	20	30	9.0	3.1	9.5	.00
30	7.7	179	2040	21	---	6550	20	30	8.7	5.5	6.5	.00
31	8.7	---	1230	24	---	6360	---	22	---	40	4.6	---
TOTAL	209.42	3834	11759	4743	16047	20762	3717	5548	2924.7	239.2	1187.19	4.98
MEAN	6.76	128	379	153	573	670	124	179	97.5	7.72	38.3	.17
MAX	27	703	3500	912	8300	6550	1060	1880	754	40	453	3.0
MIN	.44	10	28	21	21	42	20	22	8.7	1.2	.00	.00

CAL YR 1984	TOTAL	86400.05	MEAN	236	MAX	5430	MIN	.00
WTR YR 1985	TOTAL	70975.49	MEAN	194	MAX	8300	MIN	.00

## LITTLE MIAMI RIVER BASIN

03240000 LITTLE MIAMI RIVER NEAR OLDTOWN, OH

LOCATION.--Lat 39°44'54", long 83°55'53", in sec. 34, R.7, T.4, Greene County, Hydrologic Unit 05090202, on right bank at downstream side of bridge on U.S. Highway 68, 0.8 mi downstream from Conner Branch, 0.9 mi upstream from Massies Creek, 1.3 mi northeast of Oldtown, and at mile 82.25.

DRAINAGE AREA.--129 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.56 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 25 to Dec. 13 and Jan. 10 to Feb. 21. Records good except for periods of estimated daily discharges, which are fair. Water-quality data collected at this site 1965 to 1977. Sedi-ment data collected 1952 to 1958.

AVERAGE DISCHARGE.--33 years, 117 ft<sup>3</sup>/s, 12.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 12.20 ft, from rating curve extended above 4,400 ft<sup>3</sup>/s on basis of slope area measurements of peak flow; minimum, 5.1 ft<sup>3</sup>/s Sept. 20-22, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 800 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0800	*2,240	*7.25	Mar. 31	0530	1,210	5.24

Minimum discharge, 5.1 ft<sup>3</sup>/s Sept. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	22	42	150	376	62	250	574	88	60	36	29	14	
2	25	81	130	392	62	221	364	312	58	39	28	13	
3	16	71	110	259	60	191	283	369	58	40	18	14	
4	18	153	98	210	60	188	233	218	54	37	18	17	
5	21	288	86	176	70	296	218	164	52	48	18	15	
6	20	161	84	151	78	221	520	137	51	49	24	12	
7	19	109	80	143	70	191	353	118	54	39	20	12	
8	24	87	80	129	62	281	293	106	55	43	25	9.5	
9	27	81	82	113	54	271	248	98	51	41	17	9.9	
10	28	121	130	105	66	213	212	93	49	36	16	11	
11	23	299	250	100	80	255	192	89	49	35	16	9.6	
12	24	221	190	94	110	589	172	86	60	30	16	8.6	
13	22	145	194	90	110	370	159	83	58	27	19	9.3	
14	22	112	364	86	100	274	151	79	51	30	16	13	
15	25	98	332	84	92	221	144	84	50	32	14	8.1	
16	32	88	231	82	90	192	135	85	51	26	24	7.7	
17	29	76	184	80	88	176	123	110	46	25	19	10	
18	26	73	151	78	86	157	116	103	46	29	20	8.7	
19	26	73	138	76	82	145	112	111	44	24	21	8.7	
20	24	68	134	76	80	137	108	102	42	24	19	5.6	
21	32	64	173	74	76	125	103	91	40	55	17	5.1	
22	41	60	407	72	505	122	99	86	44	51	16	7.2	
23	36	68	258	72	1420	123	95	83	43	32	15	7.0	
24	36	71	192	72	1780	119	94	77	41	26	36	11	
25	31	70	152	70	830	114	91	71	40	26	37	7.0	
26	30	70	125	68	492	106	86	68	40	25	32	12	
27	29	76	116	66	368	105	82	65	33	25	30	8.8	
28	34	290	112	66	288	105	80	70	34	21	23	10	
29	70	270	112	64	---	128	75	66	33	22	17	7.7	
30	58	180	450	64	---	861	73	62	33	23	18	8.9	
31	44	---	421	62	---	1030	---	61	---	22	20	---	
TOTAL	914	3666	5716	3650	7321	7777	5588	3435	1420	1018	658	301.4	
MEAN	29.5	122	184	118	261	251	186	111	47.3	32.8	21.2	10.0	
MAX	70	299	450	392	1780	1030	574	369	60	55	37	17	
MIN	16	42	80	62	54	105	73	61	33	21	14	5.1	
CFSM	.23	.95	1.43	.91	2.02	1.95	1.44	.86	.37	.25	.16	.08	
IN.	.26	1.06	1.65	1.05	2.11	2.24	1.61	.99	.41	.29	.19	.09	
CAL YR 1984	TOTAL	47139		MEAN	129	MAX	1010	MIN	14	CFSM	1.00	IN.	13.58
WTR YR 1985	TOTAL	41464.4		MEAN	114	MAX	1780	MIN	5.1	CFSM	.88	IN.	11.96

## LITTLE MIAMI RIVER BASIN

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03241500 MASSIES CREEK AT WILBERFORCE, OH

LOCATION.--Lat 39°43'22", long 83°52'58", Greene County, Hydrologic Unit 05090202, on left bank at bridge on Wilberforce-Clifton Road, 0.5 mi northwest of Wilberforce, 0.6 mi downstream from unnamed right bank tributary and 1.7 mi upstream from Clark Run.

DRAINAGE AREA.--63.2 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1952 to current year. Prior to October 1962, published as Massie Creek at Wilberforce.

REVISIONS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 865.15 ft above National Geodetic Vertical Datum of 1929. Aug. 4, 1972 to Sept. 30, 1979 at site 150 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 6-9, Jan. 1-5, Jan. 10 to Feb. 20, and Feb. 23 to Apr. 11. Records fair except for estimated daily discharges, which are poor. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1952 to 1958.

AVERAGE DISCHARGE.--33 years, 63.0 ft<sup>3</sup>/s, 13.54 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,300 ft<sup>3</sup>/s Jan. 21, 1959, Mar. 4, 1963, gage height, 11.25 ft, from rating curve extended above 3,100 ft<sup>3</sup>/s; minimum, 0.3 ft<sup>3</sup>/s Sept. 3-7, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	unknown	*1,100	unknown	Mar. 31	unknown	600	unknown

Minimum, 1.8 ft<sup>3</sup>/s Sept. 20, 21, 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	6.9	43	82	210	31	140	300	40	30	12	8.8	5.4	
2	7.8	171	66	220	30	125	200	157	26	18	8.4	4.9	
3	7.2	118	61	160	30	110	170	227	25	69	6.8	4.7	
4	6.8	190	50	120	29	110	140	136	25	44	6.3	4.1	
5	5.4	346	46	100	32	140	120	97	24	34	5.9	3.8	
6	5.4	203	42	78	37	110	270	77	24	41	5.9	3.4	
7	6.3	130	40	73	32	100	200	62	24	30	6.4	3.1	
8	9.1	97	38	63	28	130	160	53	24	32	6.6	3.0	
9	9.5	89	40	53	22	120	130	47	24	31	5.1	4.2	
10	8.8	187	77	50	27	110	110	44	21	23	4.5	3.2	
11	8.4	336	185	48	35	120	100	42	21	18	4.1	2.8	
12	8.1	209	152	45	52	300	91	41	26	15	4.0	2.2	
13	9.1	136	150	44	50	200	83	40	25	13	3.6	2.2	
14	9.7	103	239	43	48	160	78	38	22	13	3.6	2.4	
15	11	89	205	42	45	130	72	41	20	11	4.9	2.2	
16	12	75	147	41	44	110	66	44	20	11	9.8	2.4	
17	13	62	116	40	42	96	57	128	20	9.4	7.6	2.2	
18	12	57	93	39	40	86	54	92	20	8.1	6.7	2.2	
19	13	56	84	38	39	80	52	89	19	7.6	5.7	2.1	
20	12	53	82	37	39	74	49	75	17	6.9	4.9	2.0	
21	15	47	148	36	41	70	46	61	16	7.4	4.6	1.9	
22	19	44	404	35	250	68	44	53	17	14	3.8	2.0	
23	20	43	228	34	700	68	42	51	17	10	3.7	2.9	
24	20	41	152	34	800	64	42	46	16	7.6	17	5.9	
25	18	38	107	33	420	60	40	40	15	6.4	15	4.4	
26	17	36	84	33	250	58	38	38	15	6.5	11	4.0	
27	16	36	78	33	180	58	35	35	13	7.2	10	3.8	
28	17	121	73	32	160	58	35	35	13	6.9	7.5	4.0	
29	28	156	72	32	---	90	32	33	12	6.3	6.3	4.1	
30	34	107	270	31	---	50	31	31	12	5.9	6.7	4.7	
31	28	---	255	31	---	540	---	31	---	8.3	6.4	---	
TOTAL	413.5	3419	3866	1908	3533	3735	2887	2024	603	533.5	211.6	100.2	
MEAN	13.3	114	125	61.5	126	120	96.2	65.3	20.1	17.2	6.83	3.34	
MAX	34	346	404	220	800	540	300	227	30	69	17	5.9	
MIN	5.4	36	38	31	22	50	31	31	12	5.9	3.6	1.9	
CFSM	.21	1.80	1.98	.97	1.99	1.90	1.52	1.03	.32	.27	.11	.05	
IN.	.24	2.01	2.28	1.12	2.08	2.20	1.70	1.19	.35	.31	.12	.06	
CAL YR 1984	TOTAL	26622.3		MEAN	72.7	MAX	625	MIN	5.4	CFSM	1.15	IN.	15.62
WTR YR 1985	TOTAL	23233.8		MEAN	63.7	MAX	800	MIN	1.9	CFSM	1.01	IN.	13.68

## LITTLE MIAMI RIVER BASIN

03245500 LITTLE MIAMI RIVER AT MILFORD, OH  
NATIONAL STREAM-QUALITY ACCOUNTING NETWORK STATION

LOCATION.--Lat 39°10'17", long 84°17'53", Clermont County, Hydrologic Unit 05090202, on right bank 500 ft downstream from Wooster Pike Bridge on U.S. Highway 50 in Milford, 1.2 mi upstream from East Fork, 6.4 mi downstream from North Branch Creek, and at mile 12.9.

DRAINAGE AREA.--1,203 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

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.

REVISED RECORDS.--WSP 728: 1931. WSP 743: 1932. WSP 873: 1925-36. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 494.35 ft above National Geodetic Vertical Datum of 1929. June 22, 1915, to May 14, 1920, nonrecording gage at site 4 mi upstream at different datum. Mar. 11, 1925, to Aug. 16, 1928, nonrecording gage at bridge 500 ft upstream at datum 5.72 ft higher. Aug. 17, 1928 to Sept. 30, 1977 water-stage recorder at same site at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 25-28, Jan. 2-7, and Jan. 11 to Feb. 21. Records good except those estimated daily discharges which are fair. Some regulation since 1948 by Cowan Lake, capacity 12,000 acre-ft, 45 mi upstream on Cowan Creek, tributary to Todd Fork, and Caesar Creek Lake capacity 242,200 acre-ft 41.3 mi upstream on Caesar Creek. National Weather Service gage height telemeter and U.S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--60 years, (1915-17, 1925-36, 1938-85), 1,251 ft<sup>3</sup>/s, 14.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,100 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 27.30 ft present datum, from rating curve extended above 60,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum observed, 27 ft<sup>3</sup>/s Sept. 18, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 30.5 ft, present datum, from information by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 22	0100	16,900	13.57	Mar. 30	2100	*28,300	*16.75
Feb. 23	0100	23,600	15.53	May 2	1800	22,200	15.15

Minimum daily discharge, 103 ft<sup>3</sup>/s Sept. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	855	1570	4490	380	2760	6240	990	617	266	892	170
2	190	3430	1260	4800	370	2570	5060	13100	582	531	668	151
3	183	1940	1030	3500	370	2410	4250	8160	576	817	327	142
4	168	4370	944	2700	380	2480	3970	4070	563	716	256	136
5	158	5920	862	2300	410	4330	4590	3250	494	620	203	130
6	154	3040	727	1900	440	2760	8910	1840	452	874	186	128
7	155	1880	649	1700	400	2070	5120	1460	700	1070	262	124
8	215	1110	663	1580	370	2100	4280	1110	1140	662	342	120
9	215	1220	722	1290	340	2060	2570	969	710	454	293	119
10	214	6500	1600	1040	380	1700	2120	738	542	414	219	123
11	199	5930	2800	940	450	4420	1880	665	535	331	184	142
12	189	3520	2480	860	1100	7880	1530	656	2520	270	165	152
13	210	2510	2520	800	1050	4000	1300	670	1570	272	158	175
14	213	1530	3720	740	1000	2830	1200	910	1080	265	151	150
15	220	1130	3380	700	940	1770	1080	1550	792	255	202	124
16	235	874	2520	660	900	1420	1090	3340	698	245	731	113
17	183	751	1970	600	860	1300	950	3650	572	214	503	112
18	179	1090	1440	560	840	1200	843	3070	496	201	312	109
19	179	1440	1430	540	800	1070	794	2320	474	184	229	109
20	181	1310	1560	500	800	1000	755	1790	425	183	194	109
21	243	904	6070	470	1500	1010	709	1510	392	182	180	107
22	634	774	9840	460	11700	970	670	1150	373	258	165	103
23	643	659	4150	450	15600	902	644	1790	351	367	151	103
24	427	612	3100	440	8570	928	617	2650	568	266	167	146
25	323	580	2290	430	6490	783	619	1300	392	218	231	128
26	405	560	1910	430	5580	696	602	944	320	205	357	157
27	340	540	1390	420	4260	671	567	805	289	237	278	148
28	291	4500	1220	410	3690	671	965	952	266	214	225	141
29	896	3570	1190	400	---	996	740	906	251	191	194	141
30	881	2260	6400	390	---	20400	591	618	244	803	187	140
31	781	---	5610	380	---	14700	---	567	---	769	177	---
TOTAL	9705	65309	77017	36880	69970	94857	65256	67500	18984	12554	8789	3952
MEAN	313	2177	2484	1190	2499	3060	2175	2177	633	405	284	132
MAX	896	6500	9840	4800	15600	20400	8910	13100	2520	1070	892	175
MIN	154	540	649	380	340	671	567	567	244	182	151	103
CFSM	.26	1.81	2.06	.99	2.08	2.54	1.81	1.81	.53	.34	.24	.11
IN.	.30	2.02	2.38	1.14	2.16	2.93	2.02	2.09	.59	.39	.27	.12

CAL YR 1984	TOTAL	561828	MEAN	1535	MAX	10900	MIN	148	CFSM	1.28	IN.	17.33
WTR YR 1985	TOTAL	530773	MEAN	1454	MAX	20400	MIN	103	CFSM	1.21	IN.	16.41



WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1975 to current year.

pH: May 1975 to current year.

WATER TEMPERATURES: May 1975 to current year.

DISSOLVED OXYGEN: May 1975 to current year.

SUSPENDED SEDIMENT DISCHARGE: January 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1975. Prior to May 1975, sampling site was 4.2 mi upstream.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,280 microsiemens Feb. 12, 1985; minimum, 174 microsiemens July 31, 1985.

pH: Maximum, 9.3 units June 10, 1977; minimum, 6.6 units Mar. 5, 1980.

WATER TEMPERATURES: Maximum, 33.0°C July 8, 18, 20, 1977; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, >20.0 mg/L July 18, 19, 1978, July 16-19, 31, 1984; minimum 3.3 mg/L May 20, 1982.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,850 mg/L Aug. 8, 1984; minimum daily mean, 1.0 mg/L several days in 1979, 1980, 1982, 1983, 1984.

SEDIMENT LOADS: Maximum daily, 185,000 tons Sept. 14, 1979; minimum daily, 0.85 tons Dec. 15, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1280 microsiemens Feb. 12; minimum, 174 microsiemens July 31.

pH: Maximum, 9.0 units July 25; minimum, 7.5 units July 4.

WATER TEMPERATURES: Maximum, 30.0°C Sept. 9; minimum, 0.0°C on several days during the winter period.

DISSOLVED OXYGEN: Maximum, >14.8 mg/L July 19; minimum, 4.0 mg/L Sept. 7.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,280 mg/L Mar. 30; minimum daily mean, 5.0 mg/L Dec. 7, 8, Feb. 3-5.

SEDIMENT LOADS: Maximum daily, 70,200 tons Mar. 30; minimum daily, 5.1 tons Feb. 4.

WATER QUALITY DATA

WATER QUALITY DATA											
DATE		TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	
OCT	1984										
	18...	09:30	182	780	8.0	8.0	17.5	16	7.8	83	
JAN	1985										
	24...	14:30	660	900	8.2	-1.0	0.5	1.5	12.5	90	
MAR											
	21...	13:30	1280	660	8.3	5.0	10.0	7.5	11.4	103	
MAY											
	30...	10:10	538	624	8.1	24.0	20.0	11	8.6	97	
JUL											
	23...	13:15	316	830	8.8	28.0	26.5	5.0	9.8	124	
AUG											
	20...	11:00	153	720	8.1	21.0	24.5	2.5	5.9	72	
WATER QUALITY DATA											
DATE		TIME	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CAO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT	1984										
	18...	190	80	74	28	43	3.6	240	52	74	
JAN	1985										
	24...	2000	350	92	33	43	3.3	287	59	73	
MAR											
	21...	1800	550	78	28	21	2.8	236	47	40	
MAY											
	30...	810	2200	67	24	19	2.7	210	39	40	
JUL											
	23...	530	140	82	30	48	6.8	269	57	75	
AUG											
	20...	1100	440	82	30	53	4.2	--	--	--	
WATER QUALITY DATA											
DATE		TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT	1984										
	18...	0.3	5.5	459	3.10	0.09	1.0	0.67	0.62	0.62	
JAN	1985										
	24...	0.3	7.9	519	4.30	0.67	1.4	0.49	0.49	0.46	
MAR											
	21...	0.2	4.7	403	4.00	0.10	0.6	0.27	0.18	0.18	
MAY											
	30...	0.2	4.9	374	5.10	0.09	0.8	0.36	0.32	0.27	
JUL											
	23...	0.4	3.4	511	2.10	0.05	1.2	0.60	0.54	0.52	
AUG											
	20...	0.3	4.6	--	0.38	<0.01	0.8	0.11	0.04	0.02	

## LITTLE MIAMI RIVER BASIN

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 1984 18...	09:30	182	10	2	79	<0.5	<1	<1	<3	12	9
JAN 1985 24...	14:30	660	20	1	86	0.9	<1	2	<3	10	14
MAY 30...	10:10	538	<10	<1	66	1	<1	4	<3	17	8
JUL 23...	13:15	316	20	4	88	<0.5	<1	<1	<3	8	8

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 1984 18...	3	<4	11	0.2	<10	2	<1	<1	350	<6	<3
JAN 1985 24...	7	6	22	0.2	<10	1	<1	<1	440	<6	10
MAY 30...	3	13	6	<0.1	<10	<1	<1	<1	330	<6	11
JUL 23...	4	24	3	<0.1	<10	3	<1	<1	390	<6	4

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 1984 18...	09:30	182	17.5	37	18
JAN 1985 24...	14:30	660	0.5	6	11
MAR 21...	13:30	1280	10.0	17	59
MAY 30...	10:10	538	20.0	46	67
JUL 23...	13:15	316	26.5	62	53
AUG 20...	11:00	153	24.5	78	32

## LITTLE MIAMI RIVER BASIN

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03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	732	676	711	582	352	534	570	538	555	502	448	479
2	730	676	703	428	378	399	622	582	604	482	448	467
3	774	682	726	508	388	474	638	612	623	524	484	508
4	828	760	803	506	320	420	674	626	650	546	522	535
5	862	820	837	398	320	368	680	650	667	602	530	557
6	880	838	856	500	402	463	668	644	656	578	546	563
7	884	840	856	538	502	520	706	652	675	596	570	584
8	880	786	837	580	536	558	748	710	726	620	600	607
9	898	792	854	630	532	593	782	740	757	622	600	608
10	908	872	890	512	308	359	808	580	705	704	606	666
11	926	892	913	422	336	365	598	478	534	728	696	715
12	932	872	903	496	434	464	598	514	535	724	708	716
13	898	846	867	522	500	511	554	534	544	712	684	696
14	874	808	840	580	522	544	528	482	497	716	676	697
15	834	774	796	600	586	591	516	476	495	772	696	727
16	806	736	770	680	590	642	548	516	536	786	706	743
17	776	746	761	712	680	693	594	548	564	730	696	714
18	808	764	784	724	670	708	646	596	614	734	706	719
19	812	776	791	638	554	577	666	632	648	754	718	742
20	810	762	792	556	526	543	632	612	623	792	748	766
21	852	780	816	614	552	582	624	284	480	788	754	771
22	806	630	732	650	614	632	376	274	312	834	782	806
23	728	652	703	676	640	651	482	382	453	822	788	803
24	708	670	685	684	658	666	520	482	500	902	830	876
25	722	678	694	740	678	709	552	518	533	868	822	844
26	704	610	661	724	698	712	562	550	554	834	768	805
27	698	612	657	718	696	704	604	554	574	770	742	755
28	712	666	691	702	318	460	628	602	611	748	724	734
29	708	454	578	448	334	411	648	626	639	750	722	734
30	710	626	680	544	448	501	642	344	434	750	730	739
31	712	578	659	----	---	---	472	380	416	770	736	749
MONTH	932	454	769	740	308	545	808	274	571	902	448	691
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	838	774	810	596	564	579	466	366	422	692	578	662
2	826	800	810	608	594	602	500	470	486	604	258	415
3	832	806	818	606	568	586	520	502	511	418	258	329
4	826	796	805	568	534	551	530	512	523	516	424	486
5	848	802	816	522	432	471	530	384	504	530	518	524
6	842	800	820	536	498	515	412	286	349	548	516	531
7	852	818	830	560	532	544	478	416	451	608	552	588
8	824	794	806	580	556	569	504	440	467	606	598	601
9	820	796	804	596	570	583	582	506	536	662	614	643
10	840	792	807	606	590	597	596	576	588	680	648	661
11	1080	800	852	606	360	527	616	592	603	710	660	677
12	1280	830	963	432	304	354	650	606	626	748	712	731
13	848	744	768	490	440	473	666	650	657	742	704	724
14	962	760	871	530	492	512	668	646	656	692	664	676
15	816	750	774	606	530	569	660	646	651	654	490	560
16	748	714	735	626	590	606	664	638	648	494	358	445
17	720	696	705	640	620	629	680	646	660	410	320	350
18	750	726	744	644	626	632	678	660	671	494	420	477
19	762	712	735	652	630	638	702	674	687	528	490	509
20	736	698	716	658	638	649	710	688	695	548	520	534
21	740	534	659	666	634	651	714	690	699	578	540	558
22	504	260	376	648	632	638	720	696	708	592	578	584
23	298	242	266	648	626	636	742	712	725	632	570	598
24	386	302	348	662	626	647	754	730	738	562	508	527
25	436	384	400	674	652	662	752	728	739	550	518	533
26	526	442	491	702	666	679	750	734	742	676	554	606
27	560	524	545	718	690	703	756	732	742	678	632	654
28	572	558	563	710	684	696	752	658	721	680	666	673
29	---	---	---	702	448	672	656	564	600	670	608	636
30	---	---	---	360	204	240	674	612	646	650	616	630
31	---	---	---	360	208	285	---	---	---	674	630	654
MONTH	1280	242	701	718	204	571	756	286	615	748	258	573

## LITTLE MIAMI RIVER BASIN

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	722	660	688	770	742	760	736	388	566	768	716	740
2	722	700	712	752	490	661	620	502	547	806	772	789
3	700	678	691	780	678	755	752	620	711	830	808	817
4	710	678	696	768	530	622	724	550	622	854	820	835
5	710	680	693	574	498	536	556	532	542	884	838	857
6	746	690	712	666	576	602	586	532	558	908	858	884
7	750	654	725	648	540	599	658	588	611	908	874	889
8	660	558	599	612	496	530	770	618	682	914	888	902
9	640	590	614	584	514	546	758	650	697	918	872	897
10	654	628	641	646	572	606	818	684	757	928	888	909
11	706	626	669	688	628	654	870	810	826	968	904	928
12	668	362	486	726	676	701	878	848	858	924	892	909
13	482	400	442	732	674	698	884	854	870	942	900	926
14	596	564	582	776	716	749	860	806	834	954	920	939
15	618	582	595	796	744	774	828	744	796	942	920	931
16	658	606	629	792	738	761	820	516	725	938	914	925
17	694	646	670	778	714	747	638	472	564	928	898	914
18	720	684	696	770	712	747	722	610	667	892	838	864
19	758	696	720	758	690	732	764	706	735	870	850	862
20	800	752	767	754	688	724	776	712	737	892	858	873
21	796	726	755	768	730	751	734	652	698	908	870	894
22	770	732	743	828	770	797	644	622	630	924	896	909
23	770	738	753	866	828	847	740	652	691	944	874	917
24	772	590	683	876	610	778	800	748	780	946	902	920
25	728	596	678	648	544	612	814	750	782	930	872	894
26	782	726	760	768	662	727	856	780	828	914	874	899
27	782	730	760	816	760	785	884	822	853	920	888	903
28	792	754	769	802	698	757	902	848	865	930	898	913
29	790	748	770	746	692	710	900	792	851	918	890	905
30	770	736	759	790	198	683	792	664	714	940	888	913
31	---	---	---	548	174	396	714	666	685	---	---	---
MONTH	800	362	682	876	174	689	902	388	719	968	716	889
YEAR	1280	174	668									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.3	8.1	8.2	8.0	7.8	8.0	8.2	8.2	8.2	8.1	8.0	8.1
2	8.3	8.2	8.2	7.9	7.7	7.9	8.3	8.2	8.2	8.1	8.1	8.1
3	8.3	8.1	8.2	8.1	7.9	8.0	8.3	8.2	8.2	8.2	8.1	8.2
4	8.3	8.2	8.2	8.1	7.9	8.0	8.3	8.2	8.3	8.2	8.2	8.2
5	8.3	8.2	8.2	8.0	7.9	7.9	8.3	8.3	8.3	8.2	8.2	8.2
6	8.3	8.2	8.2	8.1	8.0	8.0	8.3	8.3	8.3	8.2	8.2	8.2
7	8.3	8.2	8.2	8.1	8.1	8.1	8.4	8.3	8.3	8.2	8.2	8.2
8	8.2	8.1	8.2	8.2	8.1	8.2	8.3	8.3	8.3	8.3	8.2	8.3
9	8.2	8.1	8.1	8.2	8.2	8.2	8.3	8.3	8.3	8.3	8.2	8.3
10	8.2	8.1	8.2	8.2	7.9	8.0	8.3	8.2	8.3	8.3	8.2	8.3
11	8.2	8.1	8.2	8.1	8.0	8.0	8.2	8.1	8.1	8.3	8.2	8.3
12	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.1	8.1	8.3	8.3	8.3
13	8.2	8.1	8.2	8.1	8.1	8.1	8.2	8.1	8.2	8.3	8.3	8.3
14	8.2	8.1	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.3	8.3	8.3
15	8.2	8.0	8.1	8.2	8.1	8.2	8.3	8.0	8.1	8.3	8.3	8.3
16	8.1	8.0	8.1	8.2	8.1	8.2	8.1	8.1	8.1	8.3	8.3	8.3
17	8.1	8.0	8.0	8.3	8.2	8.3	8.1	8.1	8.1	8.3	8.3	8.3
18	8.2	8.0	8.1	8.3	8.3	8.3	8.2	8.1	8.2	8.3	8.3	8.3
19	8.1	8.0	8.1	8.3	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.3
20	8.2	8.0	8.1	8.3	8.2	8.3	8.2	8.2	8.2	8.3	8.3	8.3
21	8.2	8.0	8.1	8.3	8.3	8.3	8.2	7.9	8.1	8.3	8.2	8.3
22	8.1	8.0	8.1	8.3	8.2	8.3	8.0	7.8	7.9	8.3	8.2	8.2
23	8.1	8.1	8.1	8.3	8.2	8.3	8.1	8.0	8.1	8.2	8.2	8.2
24	8.2	8.1	8.1	8.3	8.2	8.3	8.1	8.1	8.1	8.2	8.2	8.2
25	8.1	8.1	8.1	8.3	8.3	8.3	8.3	8.1	8.2	8.2	8.2	8.2
26	8.1	8.0	8.0	8.3	8.2	8.3	8.2	8.2	8.2	8.2	8.2	8.2
27	8.1	7.9	8.0	8.3	8.2	8.3	8.2	8.2	8.2	8.2	8.2	8.2
28	8.1	7.9	8.0	8.2	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.2
29	8.0	7.9	8.0	8.0	8.0	8.0	8.2	8.1	8.2	8.2	8.2	8.2
30	8.0	8.0	8.0	8.2	8.0	8.1	8.1	8.0	8.0	8.2	8.2	8.2
31	8.1	8.0	8.0	---	---	---	8.1	7.9	8.0	8.3	8.2	8.2
MONTH	8.3	7.9	8.1	8.3	7.7	8.2	8.4	7.8	8.2	8.3	8.0	8.2



## PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	8.3	8.2	8.3	8.2	8.2	8.2	8.0	7.9	8.0	8.2	8.0	8.1
2	8.3	8.3	8.3	8.2	8.2	8.2	8.2	8.1	8.1	8.1	7.8	7.9
3	8.3	8.3	8.3	8.2	8.2	8.2	8.2	8.1	8.2	7.9	7.8	7.8
4	8.3	8.3	8.3	8.2	8.1	8.2	8.3	8.2	8.2	8.0	7.9	8.0
5	8.3	8.2	8.3	8.2	8.1	8.1	8.2	8.1	8.2	8.1	8.0	8.0
6	8.4	8.2	8.3	8.2	8.1	8.1	8.1	7.9	8.0	8.1	8.0	8.1
7	8.3	8.3	8.3	8.2	8.2	8.2	8.1	8.0	8.1	8.1	8.0	8.1
8	8.4	8.3	8.3	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.0	8.1
9	8.4	8.3	8.3	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.1
10	8.4	8.3	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.1
11	8.4	8.3	8.3	8.2	8.0	8.1	8.2	8.2	8.2	8.2	8.1	8.2
12	8.3	8.2	8.2	8.0	7.9	8.0	8.2	8.1	8.2	8.2	8.1	8.2
13	8.3	8.2	8.2	8.1	8.0	8.1	8.2	8.1	8.2	8.2	8.1	8.2
14	8.3	8.2	8.2	8.2	8.1	8.1	8.3	8.1	8.2	8.1	8.0	8.0
15	8.3	8.2	8.3	8.2	8.1	8.2	8.3	8.2	8.2	8.0	7.8	7.9
16	8.4	8.2	8.3	8.2	8.2	8.2	8.3	8.1	8.2	7.8	7.6	7.8
17	8.4	8.3	8.3	8.2	8.2	8.2	8.4	8.2	8.3	7.8	7.6	7.7
18	8.4	8.3	8.4	8.3	8.2	8.3	8.5	8.2	8.4	8.0	7.8	7.9
19	8.4	8.3	8.4	8.3	8.2	8.3	8.5	8.2	8.4	8.1	8.0	8.0
20	8.4	8.3	8.4	8.3	8.2	8.2	8.5	8.3	8.4	8.0	8.0	8.0
21	8.4	8.3	8.4	8.4	8.2	8.3	8.5	8.3	8.4	8.1	8.0	8.1
22	8.3	8.0	8.1	8.3	8.2	8.3	8.5	8.3	8.4	8.1	8.1	8.1
23	8.0	7.9	8.0	8.3	8.2	8.3	8.5	8.3	8.4	8.1	8.1	8.1
24	7.9	7.9	7.9	8.4	8.2	8.3	8.4	8.3	8.4	8.1	8.0	8.1
25	8.0	7.9	7.9	8.4	8.2	8.3	8.5	8.3	8.4	8.1	8.1	8.1
26	8.1	8.0	8.0	8.5	8.3	8.4	8.5	8.4	8.4	8.2	8.1	8.1
27	8.2	8.1	8.1	8.5	8.3	8.4	8.4	8.3	8.4	8.3	8.1	8.1
28	8.2	8.1	8.2	8.6	8.3	8.4	8.4	8.2	8.3	8.2	8.1	8.1
29	---	---	---	8.5	8.2	8.4	8.2	7.9	8.0	8.1	8.1	8.1
30	---	---	---	8.1	7.8	7.9	8.3	8.1	8.2	8.2	8.1	8.1
31	---	---	---	7.9	7.9	7.9	---	---	---	8.2	8.1	8.1
MONTH	8.4	7.9	8.2	8.6	7.8	8.2	8.5	7.9	8.2	8.3	7.6	8.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	8.3	8.1	8.2	8.5	8.1	8.3	7.8	7.6	7.7	8.3	8.2	8.2
2	8.4	7.9	8.2	8.2	7.8	8.0	7.7	7.6	7.6	8.3	8.1	8.2
3	8.4	8.2	8.3	8.2	7.9	8.1	8.1	7.7	7.9	8.7	8.4	8.5
4	8.3	8.2	8.3	8.1	7.5	7.7	8.0	7.8	7.9	8.9	8.7	8.8
5	8.3	8.1	8.2	8.1	7.9	8.0	7.8	7.7	7.8	8.9	8.6	8.8
6	8.4	8.1	8.3	8.1	7.9	8.0	7.9	7.7	7.8	8.6	8.4	8.5
7	8.4	8.1	8.3	8.0	7.9	8.0	8.1	7.8	7.9	8.7	8.3	8.5
8	8.2	8.0	8.0	8.0	7.9	7.9	8.3	7.9	8.1	8.4	8.2	8.4
9	8.1	8.0	8.0	8.1	7.8	7.9	8.2	7.9	8.1	8.2	8.1	8.1
10	8.2	8.0	8.1	8.2	7.9	8.0	8.2	7.9	8.1	8.7	8.1	8.4
11	8.6	8.1	8.3	8.3	8.0	8.2	8.3	8.0	8.1	8.7	8.3	8.5
12	8.6	7.7	8.0	8.7	8.1	8.4	8.3	8.1	8.2	8.7	8.5	8.6
13	8.0	7.8	7.9	8.6	8.3	8.4	8.5	8.1	8.3	8.6	8.5	8.6
14	8.1	8.1	8.1	8.7	8.3	8.5	8.5	8.3	8.4	8.7	8.5	8.6
15	8.2	8.1	8.1	8.8	8.4	8.6	8.6	8.4	8.5	8.8	8.5	8.7
16	8.2	8.1	8.1	8.8	8.5	8.7	8.4	7.6	8.0	8.8	8.6	8.7
17	8.2	8.1	8.1	8.8	8.4	8.6	7.8	7.5	7.7	8.8	8.6	8.7
18	8.2	8.0	8.1	8.8	8.4	8.6	8.1	7.8	7.9	8.8	8.6	8.7
19	8.3	8.1	8.2	8.7	8.3	8.5	8.1	7.8	8.0	8.7	8.5	8.6
20	8.4	8.2	8.3	8.7	8.0	8.4	8.4	7.9	8.1	8.7	8.5	8.6
21	8.5	8.2	8.4	8.6	8.2	8.4	8.4	8.1	8.3	8.7	8.4	8.6
22	8.6	8.3	8.4	8.7	8.4	8.6	8.3	8.1	8.2	8.6	8.4	8.5
23	8.6	8.3	8.5	8.7	8.4	8.6	8.3	8.1	8.2	8.6	8.3	8.4
24	8.5	8.1	8.3	8.9	8.5	8.6	8.3	8.1	8.2	8.4	8.3	8.3
25	8.5	8.1	8.3	9.0	8.6	8.9	8.1	7.9	8.0	8.4	8.1	8.3
26	8.8	8.4	8.6	8.8	8.5	8.6	8.0	7.9	7.9	8.3	8.2	8.2
27	8.7	8.5	8.6	8.6	8.3	8.5	8.3	7.8	8.1	8.2	8.1	8.1
28	8.6	8.3	8.5	8.8	8.2	8.6	8.5	8.1	8.3	8.5	8.0	8.2
29	8.6	8.3	8.4	8.7	8.5	8.6	8.5	8.2	8.4	8.4	8.3	8.3
30	8.5	8.3	8.4	8.7	7.9	8.5	8.4	8.0	8.1	8.4	8.2	8.3
31	---	---	---	8.1	7.6	7.9	8.3	7.8	8.1	---	---	---
MONTH	8.8	7.7	8.3	9.0	7.5	8.3	8.6	7.5	8.1	8.9	8.0	8.5
YEAR	9.0	7.5	8.2									

## LITTLE MIAMI RIVER BASIN

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	15.0	13.5	14.5	17.5	16.5	17.0	7.5	6.5	7.0	9.5	9.5	9.5
2	15.5	13.0	14.5	17.0	13.5	15.0	6.5	6.0	6.5	9.0	7.0	8.0
3	15.5	13.5	14.5	13.5	12.0	12.5	6.5	6.0	6.5	7.0	5.5	6.5
4	17.0	14.5	16.0	13.0	12.0	12.5	5.5	4.5	5.0	5.5	4.5	5.0
5	17.5	15.5	16.5	13.5	13.0	13.0	4.0	3.0	3.5	4.5	4.0	4.5
6	17.0	15.5	16.5	12.5	11.0	12.0	3.0	1.5	2.5	4.5	4.5	4.5
7	17.0	16.5	17.0	11.0	10.0	10.5	1.0	.5	.5	4.5	4.0	4.5
8	17.5	17.0	17.0	10.0	9.5	10.0	1.5	.5	1.0	4.0	3.5	4.0
9	19.0	17.0	18.0	10.5	10.0	10.5	1.5	.5	1.0	3.5	2.5	3.0
10	19.5	17.5	18.5	11.5	11.0	11.0	3.5	1.5	2.5	2.5	1.5	2.0
11	20.0	18.0	19.0	11.5	10.0	11.0	5.0	3.0	4.0	2.0	1.5	1.5
12	19.0	18.5	18.5	10.0	9.0	9.5	6.5	5.0	5.5	1.5	.5	1.0
13	18.5	17.5	18.0	9.0	8.5	8.5	8.0	7.0	7.5	1.0	.5	.5
14	19.5	17.5	18.5	8.5	7.5	8.0	9.0	8.0	8.5	.5	.5	.5
15	19.5	18.0	19.0	8.0	8.0	8.0	9.0	9.0	9.0	1.0	.5	.5
16	20.5	18.0	19.5	8.5	7.5	8.0	10.0	9.0	9.5	.5	.5	.5
17	20.0	18.5	19.5	7.0	6.0	6.5	10.5	9.5	10.0	.5	.5	.5
18	19.5	17.0	18.5	6.5	5.5	6.0	10.0	9.5	10.0	.5	.5	.5
19	20.0	19.0	19.5	7.0	6.0	6.5	9.5	8.0	9.0	.5	.0	.5
20	19.0	17.0	18.0	6.0	4.5	5.5	8.0	7.0	7.5	.5	.0	.5
21	18.0	17.5	17.5	4.5	3.5	4.0	8.5	7.0	7.5	.5	.0	.5
22	17.5	15.5	16.5	4.0	3.0	3.5	8.5	7.5	8.0	.5	.5	.5
23	15.5	14.5	15.0	4.5	3.0	3.5	7.0	5.5	6.0	.5	.0	.5
24	15.0	14.0	14.5	4.5	3.5	4.0	6.0	5.5	5.5	.5	.0	.5
25	15.0	14.0	14.5	4.5	3.5	4.0	5.5	4.0	5.0	.5	.0	.5
26	17.0	14.5	16.0	5.5	4.0	5.0	4.5	3.5	4.0	.5	.0	.5
27	18.0	16.0	17.0	8.0	5.5	6.5	5.5	4.5	5.0	.5	.5	.5
28	18.5	17.5	18.0	8.5	7.0	7.5	9.0	5.5	7.5	.5	.5	.5
29	18.5	17.0	17.5	7.0	6.0	6.5	11.5	9.0	10.5	.5	.5	.5
30	17.5	17.0	17.0	6.5	6.5	6.5	11.5	10.0	10.5	.5	.5	.5
31	18.0	16.5	17.5	---	---	---	10.0	9.5	9.5	.5	.5	.5
MONTH	20.5	13.0	17.0	17.5	3.0	8.5	11.5	.5	6.5	9.5	.0	2.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.5	.5	.5	4.0	3.5	4.0	10.0	8.5	9.5	21.0	18.5	20.0
2	.5	.5	.5	6.0	4.5	5.0	8.5	7.5	8.0	18.5	15.5	16.5
3	.5	.5	.5	5.5	5.0	5.0	9.5	8.0	8.5	16.0	14.5	15.5
4	.5	.5	.5	7.5	5.5	6.0	11.0	8.5	10.0	16.0	14.0	15.0
5	.5	.5	.5	7.5	5.5	6.5	12.5	10.5	11.0	15.5	14.0	15.0
6	.5	.5	.5	5.5	4.5	5.0	12.0	10.0	10.5	17.5	15.0	16.0
7	.5	.5	.5	4.5	4.0	4.5	10.0	9.0	9.5	19.0	17.0	18.0
8	.5	.5	.5	6.0	4.5	5.5	8.5	8.0	8.5	18.5	16.5	17.5
9	.5	.5	.5	7.5	6.0	6.5	8.0	7.0	7.5	20.5	17.5	19.0
10	.5	.5	.5	8.5	6.5	7.5	8.0	6.0	7.5	21.0	18.5	19.5
11	.5	.5	.5	8.5	7.5	8.0	10.0	8.0	9.0	21.5	19.5	20.5
12	.5	.5	.5	9.0	8.5	8.5	13.0	9.5	11.5	22.0	20.5	21.0
13	.5	.5	.5	8.0	6.5	7.0	15.5	12.5	14.0	23.5	21.0	22.0
14	.5	.5	.5	7.0	6.0	6.5	16.5	14.5	15.5	23.0	21.5	22.0
15	.5	.5	.5	8.5	6.5	7.5	17.0	15.5	16.5	22.5	20.5	21.5
16	.5	.5	.5	8.5	6.5	7.5	18.5	16.0	17.0	21.0	18.5	20.0
17	1.0	.5	.5	8.0	7.0	7.5	18.5	16.0	17.5	18.0	16.5	17.5
18	1.0	.5	.5	7.5	6.0	6.5	19.5	16.0	18.0	16.5	14.0	15.0
19	1.5	.5	1.0	8.5	6.0	7.0	20.5	17.5	19.0	16.5	13.0	14.0
20	2.0	.5	1.0	10.5	7.5	9.0	21.5	18.5	20.0	19.0	16.0	17.0
21	1.5	.5	1.0	10.0	8.5	9.5	22.0	19.5	20.5	18.5	17.5	18.0
22	2.0	.5	1.5	9.5	9.0	9.0	22.5	20.0	21.5	18.0	16.0	16.5
23	5.0	1.5	3.0	9.0	8.5	9.0	22.0	20.5	21.5	16.0	15.5	16.0
24	7.0	5.0	6.5	9.5	8.0	9.0	21.5	20.0	20.5	16.0	15.0	15.5
25	7.5	6.0	7.0	11.0	8.5	9.5	21.5	18.5	20.0	18.0	14.5	16.0
26	6.0	5.0	5.5	12.0	9.0	10.5	22.0	19.0	20.5	21.0	16.5	18.5
27	5.0	4.0	4.5	12.0	10.5	11.5	22.5	20.5	21.5	23.0	20.0	21.5
28	4.0	3.0	4.0	14.0	12.0	13.0	22.5	20.5	21.5	22.5	21.0	21.5
29	---	---	---	15.5	14.0	14.5	21.5	19.0	20.5	21.5	19.0	20.0
30	---	---	---	13.5	9.5	11.5	21.5	18.5	20.0	22.5	19.5	20.5
31	---	---	---	10.5	9.5	10.0	---	---	---	23.0	21.5	22.0
MONTH	7.5	.5	1.5	15.5	3.5	8.0	22.5	6.0	15.0	23.5	13.0	18.5

## LITTLE MIAMI RIVER BASIN

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03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	24.0	21.0	22.5	27.0	25.0	26.0	25.0	24.0	24.5	26.5	23.0	25.0
2	24.0	22.0	23.0	25.0	23.0	24.0	25.0	22.0	23.5	26.5	24.5	25.5
3	24.0	22.5	23.0	25.5	23.5	24.0	26.0	22.5	24.0	27.5	24.5	26.0
4	23.5	22.0	22.5	25.5	23.0	24.5	26.5	23.0	25.0	28.0	25.0	26.5
5	22.0	21.5	22.0	25.5	24.0	24.5	26.0	24.0	24.5	28.0	25.5	26.5
6	23.0	20.5	21.5	25.5	24.0	24.5	25.5	23.5	24.5	28.0	26.0	27.0
7	23.0	21.5	22.0	25.0	22.5	24.0	26.0	24.5	25.5	28.5	26.0	27.5
8	22.5	20.0	21.0	26.5	23.5	25.0	26.5	24.5	25.5	29.5	26.5	28.0
9	24.5	21.5	23.0	28.5	25.0	27.0	27.5	24.5	26.0	30.0	27.0	28.5
10	24.5	23.5	24.0	29.0	27.0	28.0	28.0	25.0	27.0	29.0	27.0	28.0
11	25.0	23.0	24.0	27.0	26.0	26.5	28.0	26.5	27.5	27.0	24.5	26.0
12	23.0	18.5	21.0	28.5	25.0	27.0	28.5	25.0	27.0	24.5	21.5	23.5
13	18.5	17.5	18.0	27.0	26.0	26.5	29.5	27.0	28.0	22.0	20.0	21.0
14	20.0	18.5	19.5	28.5	25.5	27.0	29.5	27.0	28.5	21.0	18.5	20.0
15	20.0	19.0	19.5	29.5	27.0	28.0	29.0	27.0	27.5	21.0	17.5	19.5
16	22.0	19.0	20.5	28.5	26.0	27.5	26.5	25.0	26.0	21.5	17.5	19.5
17	21.5	20.5	21.0	27.5	25.5	26.5	27.0	24.0	25.5	21.5	18.0	20.0
18	23.0	20.5	21.5	28.0	24.5	26.5	28.5	25.0	26.5	22.5	19.0	20.5
19	22.5	20.5	21.5	28.0	25.0	27.0	27.5	25.5	27.0	23.5	19.5	21.5
20	23.0	20.5	21.5	27.5	25.5	26.5	26.5	24.5	25.0	23.5	19.5	21.5
21	24.0	21.0	22.5	27.5	25.5	26.5	26.0	23.0	24.5	23.5	20.0	22.0
22	24.0	22.0	23.0	28.0	25.5	27.0	25.5	23.0	24.5	23.5	20.5	22.0
23	26.0	22.0	24.0	28.0	25.0	26.5	26.0	23.0	25.0	23.0	21.5	22.5
24	25.0	23.0	24.0	27.5	24.0	26.0	24.5	24.0	24.5	22.0	19.5	20.5
25	27.5	23.5	25.5	28.5	25.5	27.0	25.0	23.0	24.0	21.0	18.0	19.5
26	28.0	25.0	26.5	27.5	26.5	27.0	24.5	23.0	24.0	21.0	19.0	20.0
27	28.0	24.5	26.5	27.5	24.5	26.0	25.0	22.0	23.5	19.5	17.5	18.5
28	27.5	24.5	26.0	27.5	24.0	26.0	26.0	22.5	24.5	19.5	16.5	18.0
29	28.0	24.5	26.0	28.5	25.5	27.0	25.5	23.0	24.5	20.0	16.5	18.5
30	27.5	24.5	26.0	28.5	23.0	26.5	26.0	24.0	25.0	20.0	17.5	19.0
31	---	---	---	24.5	23.0	24.0	25.5	24.0	25.0	---	---	---
MONTH	28.0	17.5	23.0	29.5	22.5	26.0	29.5	22.0	25.5	30.0	16.5	22.5
YEAR	30.0	.0	14.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.1	8.9	9.4	8.5	7.8	8.2	11.4	11.2	11.3	10.8	10.7	10.7
2	10.3	8.9	9.5	9.0	7.7	8.5	11.6	11.3	11.4	11.5	10.9	11.2
3	10.3	8.8	9.4	9.9	9.0	9.6	11.5	11.2	11.3	11.8	11.5	11.7
4	10.3	8.8	9.4	9.9	9.3	9.7	12.2	11.4	11.9	11.9	11.8	11.9
5	10.1	8.4	9.1	9.3	9.0	9.2	12.4	12.1	12.2	12.0	11.9	12.0
6	9.9	8.2	8.9	9.9	9.0	9.5	12.6	12.2	12.4	12.0	11.9	11.9
7	8.8	7.7	8.2	10.9	9.8	10.4	13.1	12.5	12.9	11.9	11.7	11.8
8	8.3	7.5	7.8	10.9	10.7	10.8	13.3	13.0	13.1	12.2	11.7	12.0
9	8.9	6.9	7.8	10.8	10.3	10.6	13.3	12.9	13.1	12.7	12.1	12.4
10	8.8	7.1	7.8	10.4	9.9	10.2	12.8	12.3	12.5	12.8	12.5	12.6
11	8.9	6.9	7.8	10.1	9.7	9.9	12.3	11.6	12.0	12.9	12.6	12.7
12	9.2	7.0	8.1	10.8	10.1	10.5	11.6	11.2	11.4	13.1	12.7	12.9
13	9.3	7.6	8.3	11.1	10.8	10.9	11.2	10.8	11.0	13.2	12.9	13.0
14	9.5	7.7	8.4	11.2	10.9	11.0	10.8	10.5	10.7	13.0	12.8	12.9
15	9.1	7.5	8.2	11.1	10.9	11.0	10.9	10.5	10.7	13.2	12.8	12.9
16	9.0	7.3	8.0	11.4	11.3	11.3	10.8	10.6	10.7	13.1	12.8	13.0
17	8.2	7.1	7.6	11.8	11.4	11.6	10.8	10.5	10.7	12.9	12.6	12.7
18	9.4	7.4	8.2	11.8	11.5	11.7	10.9	10.5	10.7	12.7	12.5	12.6
19	8.7	7.2	7.9	11.5	11.3	11.4	11.0	10.6	10.8	12.8	12.5	12.6
20	9.0	7.2	7.9	12.1	11.5	11.8	11.7	10.9	11.3	13.3	12.8	13.0
21	8.2	7.5	7.8	12.6	12.1	12.4	11.4	10.9	11.3	13.1	12.9	13.0
22	8.4	7.6	8.0	12.9	12.4	12.7	10.9	10.6	10.7	12.9	12.6	12.8
23	8.8	8.3	8.5	12.7	12.3	12.5	12.0	10.9	11.7	12.7	12.4	12.6
24	9.5	8.5	8.9	12.6	12.2	12.3	12.0	11.8	11.9	12.5	12.2	12.4
25	9.3	8.7	9.0	12.5	12.1	12.3	12.4	11.8	12.1	12.4	12.2	12.3
26	8.9	8.0	8.5	12.4	11.9	12.2	12.7	12.3	12.5	13.1	12.4	12.8
27	8.8	7.8	8.2	11.9	11.2	11.7	12.4	12.0	12.2	13.1	12.7	12.8
28	8.3	7.4	7.9	11.2	10.7	11.0	11.9	11.0	11.6	13.0	12.7	12.8
29	8.2	7.8	8.0	11.2	11.1	11.1	10.9	10.2	10.6	13.2	12.7	12.9
30	8.4	7.8	8.1	11.3	11.1	11.2	10.7	10.2	10.5	13.2	12.8	13.0
31	8.6	8.1	8.3	---	---	---	10.8	10.7	10.7	12.9	12.7	12.8
MONTH	10.3	6.9	8.4	12.9	7.7	10.9	13.3	10.2	11.6	13.3	10.7	12.5





## LITTLE MIAMI RIVER BASIN

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03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued  
 SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	716	569	555	484	816	583	431	671	679	762	555	743
2	700	401	607	471	808	601	488	373	712	669	539	788
3	723	485	625	509	816	583	512	325	692	756	734	814
4	810	402	654	534	802	553	524	489	696	578	606	834
5	834	378	669	547	813	474	522	524	691	528	540	855
6	855	467	656	564	822	509	342	532	713	589	557	884
7	852	519	668	584	830	543	455	590	730	612	608	883
8	852	552	726	606	805	568	465	603	586	511	661	902
9	861	599	756	606	803	584	530	648	612	538	683	897
10	890	339	740	689	804	598	590	661	642	601	760	909
11	914	360	539	719	817	596	604	671	660	647	820	930
12	906	460	529	716	885	342	623	732	445	705	853	906
13	866	508	544	697	755	480	658	724	443	692	870	932
14	842	541	491	701	871	512	656	676	586	746	834	938
15	789	590	494	716	767	576	650	559	594	779	802	932
16	766	654	539	732	735	600	647	455	627	763	761	922
17	763	694	562	715	706	628	658	346	671	743	584	916
18	784	709	610	718	746	630	670	484	692	756	678	859
19	791	574	647	746	732	637	688	508	710	736	731	864
20	799	545	624	765	712	647	695	530	761	731	731	874
21	819	576	495	772	660	652	697	560	746	755	701	897
22	748	629	302	803	380	639	708	584	742	800	628	910
23	711	647	466	800	261	636	724	594	756	846	686	917
24	684	663	499	874	351	650	736	525	657	821	781	918
25	693	710	528	841	397	661	740	530	686	612	777	889
26	662	713	554	809	495	678	742	601	762	738	830	902
27	648	704	560	755	547	703	740	654	763	782	856	903
28	690	391	609	732	562	696	733	672	768	774	862	914
29	597	430	639	734	---	688	598	635	769	706	864	905
30	680	504	393	736	---	233	647	629	762	752	704	905
31	662	---	408	745	---	287	---	655	---	392	680	---
MEAN	771	544	571	691	696	573	616	572	678	691	719	888

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	8.0	8.2	8.1	8.3	8.2	8.0	8.1	8.2	8.3	7.7	8.2
2	8.2	7.9	8.2	8.1	8.3	8.2	8.1	7.9	8.2	8.1	7.6	8.3
3	8.2	8.1	8.2	8.2	8.3	8.2	8.2	7.8	8.3	8.1	8.0	8.5
4	8.2	8.1	8.3	8.2	8.3	8.2	8.2	8.0	8.3	7.7	7.9	8.8
5	8.2	7.9	8.3	8.2	8.3	8.1	8.2	8.0	8.2	7.9	7.8	8.8
6	8.2	8.0	8.3	8.2	8.3	8.1	8.0	8.1	8.2	8.0	7.8	8.6
7	8.2	8.1	8.3	8.2	8.3	8.2	8.1	8.1	8.3	8.0	7.9	8.6
8	8.2	8.2	8.3	8.3	8.3	8.2	8.1	8.1	8.0	7.9	8.1	8.4
9	8.2	8.2	8.3	8.3	8.3	8.2	8.1	8.1	8.0	7.9	8.1	8.1
10	8.2	8.0	8.3	8.3	8.3	8.2	8.2	8.1	8.1	8.1	8.1	8.5
11	8.2	8.0	8.1	8.3	8.3	8.2	8.2	8.2	8.3	8.2	8.1	8.6
12	8.2	8.1	8.1	8.3	8.2	8.0	8.2	8.2	7.9	8.4	8.2	8.6
13	8.2	8.1	8.2	8.3	8.2	8.1	8.2	8.2	7.9	8.4	8.3	8.6
14	8.2	8.1	8.1	8.3	8.2	8.1	8.2	8.0	8.1	8.5	8.4	8.6
15	8.1	8.2	8.1	8.3	8.3	8.2	8.2	7.9	8.1	8.6	8.5	8.7
16	8.1	8.2	8.1	8.3	8.3	8.2	8.2	7.8	8.2	8.7	8.0	8.7
17	8.0	8.3	8.1	8.3	8.3	8.2	8.4	7.7	8.1	8.7	7.8	8.7
18	8.1	8.3	8.2	8.3	8.4	8.3	8.4	8.0	8.1	8.6	7.9	8.7
19	8.1	8.2	8.2	8.3	8.4	8.3	8.4	8.0	8.2	8.5	7.9	8.6
20	8.1	8.3	8.2	8.3	8.4	8.2	8.4	8.0	8.3	8.5	8.1	8.6
21	8.1	8.3	8.1	8.3	8.4	8.3	8.4	8.1	8.4	8.4	8.3	8.6
22	8.1	8.3	7.9	8.2	8.1	8.3	8.4	8.1	8.4	8.6	8.2	8.5
23	8.1	8.3	8.1	8.2	8.0	8.3	8.4	8.1	8.5	8.6	8.2	8.4
24	8.1	8.3	8.1	8.2	7.9	8.3	8.4	8.1	8.4	8.6	8.2	8.3
25	8.1	8.3	8.2	8.2	7.9	8.4	8.4	8.1	8.4	8.9	8.0	8.3
26	8.0	8.3	8.2	8.2	8.0	8.4	8.4	8.1	8.6	8.6	7.9	8.2
27	8.0	8.3	8.2	8.2	8.1	8.4	8.4	8.1	8.6	8.5	8.1	8.1
28	8.0	8.1	8.2	8.2	8.2	8.4	8.3	8.1	8.5	8.6	8.3	8.3
29	8.0	8.0	8.2	8.2	---	8.4	8.0	8.1	8.4	8.6	8.4	8.3
30	8.0	8.1	8.0	8.2	---	7.9	8.1	8.1	8.4	8.6	8.1	8.3
31	8.0	---	8.0	8.2	---	7.9	---	8.1	---	7.9	8.2	---
MEAN	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.3	8.4	8.1	8.5
WTR YR 1985	MEAN	8.2		MAX	8.9	MIN	7.6					

## LITTLE MIAMI RIVER BASIN

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued  
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	17.0	7.0	9.5	.5	4.0	9.0	20.0	22.0	26.0	24.0	25.0
2	14.5	15.0	6.5	8.0	.5	5.5	8.5	16.5	23.0	24.0	23.5	25.5
3	14.5	12.5	6.5	6.0	.5	5.5	9.0	15.0	23.0	24.0	24.0	26.5
4	16.0	12.5	5.0	5.0	.5	6.5	9.5	15.5	22.5	24.5	24.5	26.5
5	16.5	13.0	3.5	4.5	.5	6.5	11.0	15.0	22.0	24.5	24.5	26.5
6	16.5	11.5	2.5	4.5	.5	5.0	10.5	15.5	21.5	24.5	24.5	27.0
7	17.0	10.5	.5	4.5	.5	4.5	9.5	17.5	22.0	24.0	25.5	27.5
8	17.0	10.0	.5	4.0	.5	5.5	8.5	17.5	21.0	25.0	25.0	28.0
9	18.0	10.5	1.0	3.0	.5	7.0	7.5	18.5	22.5	27.0	26.0	28.5
10	19.0	11.0	2.0	2.0	.5	7.5	8.0	19.5	24.0	27.5	27.0	28.0
11	19.0	11.0	3.5	1.5	.5	8.0	9.0	20.5	23.5	26.5	27.5	26.0
12	18.5	9.5	5.5	1.0	.5	8.5	12.0	21.0	20.5	27.0	27.0	23.5
13	18.0	8.5	7.5	.5	.5	7.0	14.5	22.0	18.0	26.5	28.0	21.0
14	18.5	8.0	9.0	.5	.5	6.5	16.0	22.0	19.5	27.5	28.0	19.5
15	19.0	8.0	9.0	.5	.5	7.5	16.5	21.5	19.5	28.0	27.5	19.5
16	19.0	8.0	9.5	.5	.5	7.5	17.0	20.0	20.5	27.5	26.0	19.5
17	19.5	6.5	10.0	.5	.5	7.5	17.5	17.5	21.0	27.0	25.0	20.0
18	18.5	6.0	10.0	.5	.5	7.0	18.0	15.0	21.5	27.0	26.5	21.0
19	19.5	6.5	9.0	.5	.5	7.0	19.5	14.0	21.5	27.0	27.0	21.5
20	18.0	5.5	7.5	.5	.5	9.5	20.5	16.5	21.5	26.0	25.0	22.0
21	17.5	4.0	7.0	.5	.5	9.5	21.0	18.0	22.0	26.0	24.5	22.0
22	16.5	3.5	8.5	.5	1.5	9.0	21.5	16.5	23.0	26.5	24.5	22.0
23	15.0	3.5	6.0	.5	2.5	9.0	21.5	16.0	23.5	26.5	25.0	22.5
24	14.5	4.0	5.5	.5	6.5	9.0	20.5	15.5	24.0	26.0	24.5	20.5
25	14.5	4.0	5.0	.5	7.0	9.5	20.0	15.5	25.5	27.0	24.0	19.5
26	15.5	5.0	4.0	.5	5.5	10.5	20.5	18.0	26.5	27.0	24.0	19.5
27	17.0	6.0	5.0	.5	4.5	11.0	21.5	21.0	26.5	26.5	23.5	18.5
28	18.0	8.0	7.5	.5	4.0	13.0	21.5	21.5	26.0	26.0	24.0	18.0
29	17.5	6.5	10.5	.5	---	14.5	20.5	20.5	26.0	26.5	25.0	18.5
30	17.0	6.5	10.5	.5	---	11.5	20.0	20.5	26.5	27.0	25.0	19.0
31	17.5	---	9.5	.5	---	10.0	---	22.0	---	24.0	25.0	---
MEAN	17.0	8.5	6.5	2.0	1.5	8.0	15.5	18.0	22.5	26.0	25.5	23.0

WTR YR 1985 MEAN 14.5 MAX 28.5 MIN .5  
OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	8.2	11.3	10.7	12.7	12.2	10.3	7.5	8.5	7.6	6.4	6.3
2	9.4	8.7	11.4	11.2	12.8	12.0	11.1	8.5	8.5	7.1	6.9	6.1
3	9.3	9.7	11.4	11.8	12.9	12.0	11.0	8.9	8.5	8.4	7.1	6.8
4	9.2	9.8	12.1	11.9	13.0	11.7	10.9	9.2	8.7	7.3	6.8	9.0
5	9.0	9.2	12.2	12.0	12.8	11.1	10.6	9.3	8.5	7.0	6.4	7.9
6	8.7	9.7	12.5	12.0	12.9	12.0	10.2	9.2	8.9	7.2	6.5	6.2
7	8.1	10.8	13.0	11.8	13.1	12.1	11.0	8.6	8.7	7.2	6.9	5.4
8	7.8	10.8	13.1	12.1	13.3	11.7	11.3	8.5	8.0	7.0	7.3	5.6
9	7.7	10.7	13.1	12.5	13.4	11.4	11.4	8.7	7.8	6.7	7.5	5.6
10	7.6	10.2	12.6	12.6	13.4	11.3	11.6	8.7	7.7	6.8	7.5	7.1
11	7.8	9.9	12.1	12.7	13.1	10.9	11.4	8.8	8.8	7.4	7.4	7.8
12	7.9	10.8	11.4	12.9	12.4	10.6	11.0	8.5	7.6	8.8	7.5	9.4
13	8.2	11.0	11.0	13.0	12.4	11.3	10.4	8.4	8.2	8.1	7.9	9.0
14	8.3	11.1	10.7	12.9	12.6	11.4	10.1	7.6	8.8	8.8	8.0	9.6
15	8.1	11.0	10.8	13.0	12.9	11.3	9.8	7.6	8.6	9.4	6.9	10.2
16	8.0	11.3	10.7	13.0	13.0	11.2	9.8	7.7	8.7	9.7	5.7	10.1
17	7.6	11.6	10.7	12.7	13.2	11.2	10.2	8.2	8.3	10.1	5.8	10.3
18	8.1	11.7	10.7	12.6	13.3	11.6	10.3	9.1	8.4	11.0	6.1	10.7
19	7.8	11.4	10.8	12.7	13.4	11.5	10.2	9.7	8.8	11.4	6.0	10.7
20	7.8	11.9	11.5	13.0	13.2	11.1	10.2	8.9	9.1	9.0	6.5	10.3
21	7.7	12.4	11.4	13.0	13.0	11.0	10.2	8.7	9.3	8.6	7.4	9.8
22	8.1	12.6	10.8	12.8	12.5	10.8	9.8	9.0	9.2	9.2	7.1	9.3
23	8.5	12.5	11.8	12.6	12.2	10.8	9.8	9.1	9.7	8.8	7.5	8.5
24	8.9	12.3	11.9	12.4	11.0	11.2	9.1	9.2	7.8	9.5	6.5	8.6
25	9.0	12.2	12.1	12.3	11.0	11.4	9.9	9.6	8.6	10.8	6.3	8.8
26	8.6	12.2	12.5	12.8	11.7	11.7	9.8	9.1	10.0	7.5	6.2	8.4
27	8.2	11.8	12.3	12.8	12.1	11.3	9.2	8.6	9.7	6.5	6.9	8.6
28	8.0	11.0	11.7	12.8	12.4	10.6	8.3	8.1	8.4	9.0	7.8	8.9
29	8.0	11.1	10.7	12.9	---	10.3	7.4	8.4	8.8	9.4	8.1	8.9
30	8.1	11.2	10.6	12.9	---	9.7	8.3	8.6	9.1	8.3	6.7	8.5
31	8.3	---	10.7	12.8	---	10.4	---	8.5	---	6.7	6.6	---
MEAN	8.3	11.0	11.6	12.5	12.7	11.3	10.2	8.7	8.7	8.4	6.9	8.4
WTR YR 1985	MEAN	9.9	MAX	13.4	MIN	5.4						

## LITTLE MIAMI RIVER BASIN

201

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	201	25	14	855	278	1300	1570	40	170
2	190	28	14	3430	668	6820	1260	25	85
3	183	36	18	1940	160	838	1030	8	22
4	168	28	13	4370	527	8010	944	9	23
5	158	37	16	5920	500	7990	862	14	33
6	154	31	13	3040	200	1640	727	10	20
7	155	37	15	1880	214	1090	649	5	8.8
8	215	47	27	1110	150	450	663	5	9.0
9	215	53	31	1220	140	461	722	17	33
10	214	39	23	6500	396	6810	1600	134	703
11	199	19	10	5930	372	5960	2800	98	741
12	189	38	19	3520	140	1330	2480	58	388
13	210	31	18	2510	75	508	2520	55	374
14	213	36	21	1530	36	149	3720	125	1260
15	220	34	20	1130	28	85	3380	72	657
16	235	28	18	874	22	52	2520	60	408
17	183	48	24	751	19	39	1970	55	293
18	179	38	18	1090	15	44	1440	52	202
19	179	35	17	1440	23	89	1430	38	147
20	181	18	8.8	1310	26	92	1560	18	76
21	243	50	33	904	8	20	6070	510	14100
22	634	147	309	774	8	17	9840	653	19000
23	643	154	267	659	8	14	4150	245	2750
24	427	45	52	612	6	9.9	3100	58	485
25	323	32	28	580	6	9.4	2290	33	204
26	405	43	47	560	6	9.1	1910	24	124
27	340	49	45	540	6	8.7	1390	17	64
28	291	44	35	4500	328	5710	1220	37	122
29	896	124	301	3570	135	1300	1190	35	112
30	881	54	128	2260	60	366	6400	569	12000
31	781	82	173	---	---	---	5610	255	3860
TOTAL	9705	---	1775.8	65309	---	51221.1	77017	---	58473.8
JANUARY			FEBRUARY			MARCH			
1	4490	122	1480	380	6	6.2	2760	24	179
2	4800	230	2980	370	6	6.0	2570	23	160
3	3500	100	945	370	5	5.0	2410	23	150
4	2700	31	226	380	5	5.1	2480	45	328
5	2300	35	217	410	5	5.5	4330	220	2670
6	1900	22	113	440	6	7.1	2760	16	119
7	1700	20	92	400	6	6.5	2070	90	503
8	1580	17	73	370	6	6.0	2100	69	391
9	1290	15	52	340	7	6.4	2060	24	133
10	1040	8	22	380	7	7.2	1700	32	147
11	940	9	23	450	7	8.5	4420	610	12100
12	860	8	19	1100	8	24	7880	603	13900
13	800	9	19	1050	8	23	4000	580	6260
14	740	10	20	1000	8	22	2830	388	2960
15	700	6	11	940	9	23	1770	171	817
16	660	8	14	900	9	22	1420	132	506
17	600	8	13	860	14	33	1300	22	77
18	560	8	12	840	10	23	1200	24	78
19	540	8	12	800	8	17	1070	16	46
20	500	8	11	800	14	30	1000	14	38
21	470	8	10	1500	114	808	1010	16	44
22	460	7	8.7	11700	684	23400	970	17	45
23	450	7	8.5	15600	910	41200	902	14	34
24	440	7	8.3	8570	320	7400	928	12	30
25	430	7	8.1	6490	430	7530	783	10	21
26	430	7	8.1	5580	198	2980	696	7	13
27	420	7	7.9	4260	78	897	671	10	18
28	410	7	7.7	3690	122	1220	671	8	14
29	400	6	6.5	---	---	---	996	75	202
30	390	6	6.3	---	---	---	20400	1280	70200
31	380	6	6.2	---	---	---	14700	597	26100
TOTAL	36880	---	6440.3	69970	---	85721.5	94857	---	138283

## LITTLE MIAMI RIVER BASIN

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	5910	230	3670	863	120	280	526	45	64
2	4700	124	1570	13000	1080	49600	495	17	23
3	3880	107	1120	7920	593	14900	489	36	48
4	3600	60	583	3710	190	1900	478	40	52
5	4250	228	4320	2920	104	820	417	28	32
6	8720	565	15800	1630	38	167	380	25	26
7	4760	180	2310	1300	55	193	603	65	106
8	3920	158	1670	971	26	68	1000	93	251
9	2300	152	944	842	26	59	609	54	89
10	1890	20	102	634	20	34	459	47	58
11	1670	34	153	569	18	28	453	90	110
12	1350	23	84	561	25	38	2250	593	4360
13	1150	28	87	573	18	28	1390	240	901
14	1050	24	68	789	65	138	946	78	199
15	943	16	41	1370	279	1280	682	49	90
16	954	30	77	3040	688	7010	598	52	84
17	825	15	33	3310	703	7560	486	43	56
18	729	19	37	2750	85	631	419	35	40
19	685	15	28	2070	100	559	400	40	43
20	649	45	79	1590	138	592	356	40	38
21	608	14	23	1330	110	395	328	50	44
22	573	19	29	1000	68	184	311	21	18
23	550	12	18	1590	124	661	292	38	30
24	526	21	30	2370	120	768	484	26	34
25	527	16	23	1140	75	231	328	60	53
26	512	12	17	820	48	106	265	40	29
27	482	9	12	694	52	97	238	35	22
28	840	28	64	827	64	143	218	46	27
29	636	19	33	786	71	151	206	50	28
30	503	16	22	527	52	74	199	57	31
31	---	---	---	481	45	58	---	---	---
TOTAL	59692	---	33047	61977	---	88753	16305	---	6986
JULY			AUGUST			SEPTEMBER			
1	219	127	75	892	300	723	170	56	26
2	450	63	101	668	148	267	151	42	17
3	705	103	196	327	130	115	142	52	20
4	614	76	126	256	121	84	136	41	15
5	528	90	128	203	81	44	130	40	14
6	758	119	315	186	74	37	128	55	19
7	931	110	277	262	65	46	124	36	12
8	566	70	107	342	62	57	120	62	20
9	382	64	66	293	78	62	119	48	15
10	346	108	101	219	78	46	123	36	12
11	274	58	43	184	56	28	142	55	21
12	221	17	10	165	65	29	152	53	22
13	224	48	29	158	84	36	175	45	21
14	218	52	31	151	40	16	150	36	15
15	208	42	24	202	38	21	124	16	5.4
16	200	42	23	731	102	235	113	40	12
17	174	52	24	503	122	166	112	30	9.1
18	201	36	20	312	110	93	109	44	13
19	184	20	9.9	229	70	43	109	34	10
20	183	81	40	194	84	44	109	24	7.1
21	182	70	34	180	50	24	107	42	12
22	258	66	46	165	46	20	103	38	11
23	367	74	73	151	60	24	103	31	8.6
24	266	84	60	167	26	12	146	43	17
25	218	84	49	231	48	30	128	26	9.0
26	205	25	14	357	64	62	157	39	17
27	237	56	36	278	72	54	148	26	10
28	214	55	32	225	70	43	141	28	11
29	191	44	23	194	67	35	141	34	13
30	803	638	4870	187	114	58	140	52	20
31	769	778	1910	177	74	35	---	---	---
TOTAL	11296	---	8892.9	8789	---	2589	3952	---	434.2
YEAR	515749		482617.6						



## LITTLE MIAMI RIVER BASIN

203

03247050 EAST FORK LITTLE MIAMI RIVER NEAR BATAVIA, OH

LOCATION.--Lat 39°03'36", long 84°10'32", Clermont County, Hydrologic Unit 05090202, on right bank on Elk Lick Road, 230 ft upstream from unnamed right bank tributary, 1,400 ft upstream from Lucy Run, 1.3 mi south of Batavia, and at mile 15.7.

DRAINAGE AREA.--352 mi<sup>2</sup>, 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 National Geodetic Vertical Datum of 1929. Prior to July 17, 1968, nonrecording gage 1,100 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 12 to Feb. 12. Records good except those for periods of estimated record, which are fair. Flow regulated by William H. Harsha reservoir, formerly East Fork Lake, since 1977. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--11 years (water years 1966-76), 432 ft<sup>3</sup>/s, 9 years (water years 1977-85) 430 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,700 ft<sup>3</sup>/s Apr. 2, 1970, gage height, 20.31 ft; minimum daily, 0.14 ft<sup>3</sup>/s Sept. 23, 27, 1967. Maximum discharge since start of construction of East Fork Dam 31,000 ft<sup>3</sup>/s Aug. 30, 1974, gage height, 20.80 ft in gage well, 21.8 ft from floodmarks, result of failure of cofferdam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1964 reached a stage of 21.46 ft at site 1,100 ft downstream from information by local resident, discharge, about 32,000 ft<sup>3</sup>/s, from flood study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,280 ft<sup>3</sup>/s Feb. 26, gage height, 11.66 ft; minimum daily, 16 ft<sup>3</sup>/s July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	89	801	1670	60	2890	1180	31	35	27	39	35
2	31	165	248	1650	65	2210	2510	69	52	81	35	35
3	43	220	172	1350	68	1110	2970	860	73	138	34	35
4	43	389	80	869	68	272	3060	1570	75	138	34	36
5	43	849	119	734	65	93	2780	1560	68	134	34	36
6	42	945	164	728	62	122	1610	1240	51	64	34	37
7	44	407	147	717	58	257	1590	748	51	24	34	37
8	59	163	83	650	54	436	1560	424	38	20	34	37
9	86	34	85	494	52	381	1530	205	43	19	34	37
10	79	97	185	271	51	259	926	32	50	19	34	37
11	66	293	703	127	50	392	246	27	71	18	34	36
12	66	817	1210	110	200	1240	87	27	142	19	34	36
13	67	1230	1010	100	361	2360	54	27	475	19	34	36
14	69	935	857	97	359	2640	46	32	1080	19	34	36
15	71	250	1010	94	419	1590	33	79	894	20	35	36
16	72	154	722	86	423	289	36	139	324	16	36	36
17	66	70	329	78	382	116	42	217	138	17	35	36
18	46	135	203	66	419	138	40	268	47	17	34	38
19	48	331	333	54	366	158	31	270	50	17	34	37
20	49	592	365	45	306	153	25	301	72	17	36	36
21	71	725	837	37	437	111	24	309	77	18	35	36
22	110	362	1660	33	1310	113	23	195	77	18	34	35
23	117	90	2490	32	1770	134	24	168	61	22	34	35
24	133	144	2310	32	1760	128	30	227	27	17	35	40
25	112	166	2040	32	2160	100	29	174	26	17	35	36
26	90	166	1770	33	2900	112	28	91	70	18	35	36
27	78	139	1010	37	3170	113	28	63	75	35	34	35
28	69	286	498	40	3120	106	27	41	75	34	34	34
29	73	893	172	43	---	147	26	54	66	34	35	34
30	70	1230	349	46	---	435	26	46	29	34	36	35
31	60	---	1040	50	---	167	---	32	---	37	35	---
TOTAL	2103	12366	23002	10405	20515	18772	20621	9526	4412	1127	1074	1081
MEAN	67.8	412	742	336	733	606	687	307	147	36.4	34.6	36.0
MAX	133	1230	2490	1670	3170	2890	3060	1570	1080	138	39	40
MIN	30	34	80	32	50	93	23	27	26	16	34	34
CAL YR 1984	TOTAL	136881	MEAN	374	MAX	2910	MIN	18				
WTR YR 1985	TOTAL	125004	MEAN	342	MAX	3170	MIN	16				

## LITTLE MIAMI RIVER BASIN

03247500 EAST FORK LITTLE MIAMI RIVER AT PERINTOWN, OH

LOCATION.--Lat 39°08'14", long 84°14'17", Clermont County, Hydrologic Unit 05090202, on right bank at upstream wingwall of highway bridge at Perintown, 0.2 mi downstream from Sugarcamp Run, 5 mi upstream from mouth, and at mile 6.4.

DRAINAGE AREA.--476 mi<sup>2</sup>.

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 National Geodetic Vertical Datum of 1929. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 12 to Feb. 12. Records good except for period of estimated record which is fair. Occasional regulation by Stonelick Lake 14 mi upstream. Surface area at spillway level, 171 acres. Flow regulated by William H. Harsha Reservoir, formerly East Fork Lake, since 1977. Water-quality data collected at this site 1964 to 1977.

AVERAGE DISCHARGE.--62 years (1915-17, 1925-85), 552 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,400 ft<sup>3</sup>/s Mar. 10, 1964, gage height, 23.84 ft; minimum daily, 0.4 ft<sup>3</sup>/s July 24, 1930, Sept. 11, 12, 23, 1939; minimum gage height, -0.18 ft Oct. 3-7, 1917. Maximum discharge since start of construction of East Fork Dam 23,200 ft<sup>3</sup>/s Aug. 30, 1974, gage height, 19.52 ft, result of failure of cofferdam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,560 ft<sup>3</sup>/s Mar. 30, gage height, 12.28 ft; minimum daily, 22 ft<sup>3</sup>/s July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	359	1320	2630	98	3450	1380	123	75	40	87	35
2	36	1030	376	2450	110	2960	2990	1820	62	120	50	36
3	45	397	326	2040	110	1880	3390	1620	85	141	42	36
4	52	1050	124	1500	110	533	3510	2230	99	130	40	36
5	52	1560	162	1420	110	353	3710	2160	96	127	38	36
6	51	1520	218	1350	100	264	3040	1800	70	80	38	38
7	54	613	238	1070	98	340	2440	1040	83	43	38	37
8	62	328	132	939	92	623	2380	516	82	33	37	36
9	100	121	138	617	88	688	2200	319	64	29	38	35
10	107	1090	760	480	84	404	1640	80	57	27	36	33
11	86	1130	1120	178	84	1800	496	68	221	26	36	32
12	81	1040	1700	180	300	3030	216	61	855	28	36	33
13	82	1640	1600	170	626	2980	148	59	676	26	37	34
14	87	1510	1500	160	621	3210	132	61	1370	28	36	35
15	87	399	1610	150	555	2370	117	138	1070	29	45	37
16	91	334	1200	140	613	514	168	285	340	26	51	36
17	85	111	610	130	480	183	123	363	159	24	40	36
18	66	174	265	110	536	200	108	337	81	23	38	37
19	60	707	483	90	569	204	94	312	63	23	35	38
20	61	1010	536	80	540	219	82	306	82	22	37	38
21	90	968	2890	66	1030	159	75	359	89	26	37	35
22	211	628	3840	56	4840	160	70	232	87	29	36	32
23	250	135	3140	52	4680	173	67	200	78	73	36	34
24	186	199	2940	52	3020	196	64	248	207	28	36	40
25	166	236	2640	56	2860	141	70	224	89	24	36	35
26	126	233	2460	60	3380	152	65	117	75	25	40	38
27	117	227	1530	64	3640	152	63	106	83	49	36	36
28	88	1550	738	68	3590	156	61	73	80	41	36	34
29	299	1430	287	70	---	251	58	77	77	39	35	35
30	158	1690	1900	76	---	5480	57	71	44	39	39	35
31	109	---	1670	82	---	2140	---	53	---	65	36	---
TOTAL	3183	23419	38453	16586	32964	35365	29014	15458	6599	1463	1238	1068
MEAN	103	781	1240	535	1177	1141	967	499	220	47.2	39.9	35.6
MAX	299	1690	3840	2630	4840	5480	3710	2230	1370	141	87	40
MIN	36	111	124	52	84	141	57	53	44	22	35	32
CAL YR 1984	TOTAL	223608	MEAN	611	MAX	3840	MIN	22				
WTR YR 1985	TOTAL	204810	MEAN	561	MAX	5480	MIN	22				

## MILL CREEK BASIN

205

03255500 MILL CREEK AT READING, OH

LOCATION.--Lat 39°13'14", long 84°26'49", in sec. 32, R.1, T.4, Hamilton County, Hydrologic Unit 05090203, on right bank at upstream side of Koehler Street Bridge at Reading, 1.0 mi upstream from West Fork Mill Creek, and 13.0 mi upstream from mouth.

DRAINAGE AREA.--73.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1938 to April 1939, June 1939 to current year.

REVISED RECORDS.--WSP 1908: Drainage area. WRD OH-83-1: 1980-82 (P).

GAGE.--Water-stage recorder. Datum of gage is 527.00 ft above 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.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 1 and Feb. 11 to Apr. 9. Records good except for periods of estimated record, which are 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 data collected at this site 1965 to 1977.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,780 ft<sup>3</sup>/s Mar. 6, 1945, gage height, 20.00 ft present datum; no flow for many days in 1940-41, 1944, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov. 10	2230	1,740	9.76	May 15	0700	2,040	10.49
Dec. 21	2030	2,370	11.32	July 1	2300	2,370	11.33
Mar. 30	----	*3,200	-----				

Minimum daily 5.7 ft<sup>3</sup>/s Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	443	64	335	22	52	261	253	33	323	107	9.5
2	10	348	49	156	20	50	122	1150	70	523	20	8.8
3	9.5	88	62	97	18	38	91	261	48	72	12	12
4	10	835	44	127	18	39	134	101	70	38	10	13
5	10	270	40	99	21	178	72	64	37	116	9.2	14
6	10	91	43	81	24	68	323	51	27	54	7.2	14
7	10	57	37	78	20	56	113	43	232	29	276	11
8	10	46	48	72	18	122	145	35	94	26	169	9.2
9	10	206	52	54	16	62	93	31	52	22	53	11
10	11	851	233	51	17	49	80	30	39	23	31	9.1
11	11	471	125	43	204	88	75	27	102	19	15	12
12	11	135	88	32	404	388	63	32	148	18	9.4	11
13	11	77	141	28	155	120	54	54	71	16	8.3	7.3
14	11	64	242	25	97	82	48	79	49	15	12	9.0
15	11	64	109	23	50	65	55	840	34	20	148	5.7
16	11	49	79	22	43	55	73	279	30	16	76	7.0
17	10	42	65	24	52	46	46	258	47	15	28	10
18	10	67	55	20	65	39	41	182	35	15	17	10
19	12	117	75	18	103	37	38	101	42	13	16	12
20	11	75	58	17	129	37	33	61	21	14	25	12
21	102	52	1130	16	175	33	29	50	18	15	18	11
22	187	42	573	15	746	32	30	59	47	24	15	9.3
23	62	40	182	14	767	37	29	132	21	14	14	14
24	29	37	96	14	261	55	30	54	299	13	89	36
25	87	33	65	13	137	44	27	39	51	13	44	10
26	98	34	54	13	93	34	24	40	29	30	21	11
27	34	59	55	13	74	31	20	49	21	21	17	8.9
28	98	732	51	12	59	31	22	81	18	15	14	7.0
29	291	168	52	14	---	34	22	60	15	15	14	6.1
30	52	88	722	18	---	2060	21	58	10	151	46	8.4
31	33	---	200	23	---	1300	---	45	---	334	15	---
TOTAL	1286.5	5681	4889	1567	3808	5362	2214	4599	1810	2032	1356.1	329.3
MEAN	41.5	189	158	50.5	136	173	73.8	148	60.3	65.5	43.7	11.0
MAX	291	851	1130	335	767	2060	323	1150	299	523	276	36
MIN	9.5	33	37	12	16	31	20	27	10	13	7.2	5.7

CAL YR 1984	TOTAL	35526.0	MEAN	97.1	MAX	1130	MIN	4.8
WTR YR 1985	TOTAL	34933.9	MEAN	95.7	MAX	2060	MIN	5.7

## MILL CREEK BASIN

03259000 MILL CREEK AT CARTHAGE, OH

LOCATION.--Lat 39°12'07", long 84°28'16", in SW 1/4 sec. 1, R.1, T.3, Hamilton County, Hydrologic Unit 05090203, on right bank at Anthony Wayne Avenue Bridge in Carthage, 1.0 mi downstream from West Fork Mill Creek, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--115 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 507.00 ft above Ohio River datum. Prior to Oct. 1, 1954 at same site at datum 512.00 ft above Ohio River Datum. Oct. 1, 1954 to Sept. 30, 1977 at site 100 ft downstream at datum 512.00 ft above Ohio River Datum. Oct. 1, 1977 to Oct. 16, 1984 at site 100 ft upstream at present datum.

REMARKS.--Estimated daily discharges: Nov. 2-28, Jan. 11 to Feb. 7, Feb. 13 to Apr. 12, and May 2 and 3. Records fair except those for periods of estimated record, which are poor. 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 Creek Reservoir, 6.9 mi upstream, beginning 1953. Water-quality data collected at this site 1965 to 1977.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,030 ft<sup>3</sup>/s Sept. 14, 1979, gage height, 21.82 ft present datum, from rating curve extended above 4,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; no flow many days in 1947-48.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,500 ft<sup>3</sup>/s Mar. 30; minimum daily, 3.8 ft<sup>3</sup>/s Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	460	161	518	33	58	760	325	37	517	144	26
2	11	564	136	198	31	66	960	1300	83	822	68	6.9
3	9.5	280	105	146	28	58	580	1000	68	590	43	12
4	9.9	900	58	172	25	64	270	538	96	326	17	14
5	8.5	540	59	279	25	240	125	215	63	141	11	16
6	7.8	350	61	219	27	170	470	63	43	199	10	17
7	32	90	58	104	27	120	210	58	215	62	289	13
8	161	84	69	117	22	140	280	49	136	43	68	9.5
9	18	84	83	97	18	100	140	45	36	39	39	12
10	17	1200	266	67	20	76	115	42	32	39	38	9.3
11	11	1000	162	60	243	120	105	37	120	24	15	13
12	8.1	500	134	50	593	720	80	39	224	19	13	10
13	8.0	96	178	45	270	330	70	70	92	15	13	6.6
14	8.7	90	307	41	170	100	71	184	66	13	12	8.6
15	12	88	218	38	90	76	61	910	63	22	161	5.0
16	12	62	155	35	84	76	83	574	35	15	294	4.1
17	9.1	52	98	38	90	68	62	498	57	15	76	8.1
18	9.3	86	76	35	100	54	68	370	41	14	63	8.8
19	13	150	105	31	140	50	52	228	77	12	48	12
20	11	110	101	27	160	58	39	64	43	12	34	12
21	142	84	1260	24	220	56	33	61	16	14	18	10
22	280	70	790	23	860	38	42	77	55	29	14	7.4
23	140	66	469	22	1000	45	40	125	59	11	23	12
24	41	60	337	21	620	78	35	67	394	11	100	42
25	96	48	213	20	390	72	33	36	96	11	71	6.9
26	142	44	89	20	115	48	33	29	74	41	63	10
27	123	76	79	19	105	34	31	29	65	37	28	7.3
28	126	900	74	19	64	34	31	62	40	45	12	5.2
29	494	365	76	18	---	52	26	30	13	12	13	3.8
30	143	132	901	20	---	1800	25	26	6.9	151	47	8.1
31	67	---	388	36	---	1400	---	31	---	276	19	---
TOTAL	2184.9	8631	7266	2559	5570	6401	4930	7182	2445.9	3577	1864	336.6
MEAN	70.5	288	234	82.5	199	206	164	232	81.5	115	60.1	11.2
MAX	494	1200	1260	518	1000	1800	960	1300	394	822	294	42
MIN	7.8	44	58	18	18	34	25	26	6.9	11	10	3.8
CAL YR 1984	TOTAL	53896.5		MEAN	147	MAX	1440	MIN	5.0			
WTR YR 1985	TOTAL	52947.4		MEAN	145	MAX	1800	MIN	3.8			



## GREAT MIAMI RIVER BASIN

207

03260700 BOKENGEHALAS CREEK NEAR DE GRAFF, OH

LOCATION.--Lat 40°20'50", long 83°53'28", in E. 1/2 sec. 3, R.14, T.2, Logan County, Hydrologic Unit 05080001, on right bank at downstream side of county road bridge, 2 mi downstream from Bluejacket Creek, 2.8 mi northeast of De Graff, and 4 mi upstream from mouth.

DRAINAGE AREA.--36.3 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1962, published as Buckongahelas Creek near Degraff.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,008.76 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 5-7, Jan. 10 to Feb. 21. Records fair except those for periods of estimated record, which are poor. Diurnal fluctuation caused by municipal plant operation in Bellefontaine, 9.8 mi upstream since storage capacity is small, daily flows are not affected appreciably. Water-quality data collected at this site 1965 to 1973.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--28 years, 32.8 ft<sup>3</sup>/s, 12.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 6.83 ft minimum daily, 2.2 ft<sup>3</sup>/s Sept. 29, 30, Oct. 7, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	0700	*4.57	*479	No other peaks greater than base discharge			
Minimum daily discharge, 2.4 ft <sup>3</sup> /s Aug. 4.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	12	19	120	16	59	119	29	17	8.6	8.7	9.1
2	8.2	17	17	87	16	58	68	108	16	10	5.3	8.0
3	8.1	11	20	53	15	48	55	68	17	8.7	2.7	8.5
4	8.1	28	17	43	15	58	48	42	17	7.7	2.4	8.7
5	8.1	40	16	39	15	76	46	35	18	8.0	5.4	8.2
6	7.8	23	16	35	15	51	120	31	16	12	5.1	8.1
7	8.1	19	29	32	15	46	62	28	15	8.2	16	7.3
8	10	17	17	29	15	55	51	26	14	8.4	12	6.6
9	8.8	20	14	26	15	46	46	24	12	6.6	9.2	11
10	8.7	26	20	25	15	40	42	22	12	7.7	7.5	11
11	8.6	26	27	24	17	52	40	21	17	7.0	5.0	8.0
12	8.8	22	24	23	20	86	37	20	24	5.8	4.9	7.5
13	9.6	19	38	22	26	56	35	19	20	6.3	5.4	7.2
14	9.0	17	62	21	30	50	34	19	19	5.4	8.6	5.9
15	9.1	17	46	20	27	43	34	21	17	13	13	5.3
16	11	16	34	20	25	39	43	30	19	7.6	18	5.9
17	9.3	15	28	20	23	37	35	33	15	5.0	10	6.1
18	9.1	14	25	19	21	35	34	35	15	4.7	8.4	6.4
19	9.7	14	25	19	20	34	33	34	15	5.3	8.2	6.6
20	9.0	14	23	19	19	37	31	25	14	4.9	8.1	6.0
21	10	14	28	18	18	34	28	31	13	6.3	8.1	5.5
22	9.6	13	66	18	169	33	29	25	14	4.7	7.8	4.8
23	9.5	13	36	18	458	34	27	21	13	4.0	7.7	5.7
24	9.4	13	29	18	310	33	28	20	12	3.6	23	9.7
25	9.3	13	24	17	180	31	27	18	12	3.5	17	6.2
26	9.5	13	21	17	112	29	26	17	9.7	13	15	6.0
27	9.2	13	22	17	81	29	25	16	8.9	7.8	10	6.2
28	13	32	22	17	64	30	24	20	8.3	5.0	9.4	5.5
29	14	26	27	16	---	30	23	16	8.0	4.8	8.9	5.0
30	9.8	21	156	16	---	55	23	17	8.0	4.3	17	5.6
31	9.5	---	75	16	---	189	---	18	---	6.7	17	---
TOTAL	290.0	558	1023	884	1772	1533	1273	889	435.9	214.6	304.8	211.6
MEAN	9.35	18.6	33.0	28.5	63.3	49.5	42.4	28.7	14.5	6.92	9.83	7.05
MAX	14	40	156	120	458	189	120	108	24	13	23	11
MIN	7.8	11	14	16	15	29	23	16	8.0	3.5	2.4	4.8
CFSM	.26	.51	.91	.79	1.74	1.36	1.17	.79	.40	.19	.27	.19
IN.	.30	.57	1.05	.91	1.82	1.57	1.30	.91	.45	.22	.31	.22
CAL YR 1984	TOTAL	12792.1	MEAN	35.0	MAX	286	MIN	7.3	CFSM	.96	IN.	13.09
WTR YR 1985	TOTAL	9388.9	MEAN	25.7	MAX	458	MIN	2.4	CFSM	.71	IN.	9.62

## GREAT MIAMI RIVER BASIN

03261500 GREAT MIAMI RIVER AT SIDNEY, OH

LOCATION.--Lat 40°17'13", long 84°09'00", Shelby County, Hydrologic Unit 05080001, on right bank 50 ft upstream from North Street Bridge in Sidney, and 0.5 mi downstream from Tawawa Creek.

DRAINAGE AREA.--541 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1914 to current year. Prior to October 1962, published as Miami River at Sidney.

REVISED RECORDS.--WSP 1305: 1914(M), 1922(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 924.70 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 18, 1919, nonrecording gage at site 50 ft downstream at datum 1.76 ft higher. Sept. 18, 1919, to August, 1925, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 23. Records fair. Water supply for city of Sidney is pumped from the Great Miami River 1,200 ft upstream and from wells adjacent to Great Miami River upstream from station. The pumpage averaged 4.7 ft<sup>3</sup>/s in 1985 and is returned as sewage 1.2 mi downstream from the station. Some regulation by Indian Lake, 28 mi upstream, capacity, 45,900 acre-ft; water diverted into Miami and Erie Canal at Port Jefferson, 2.8 mi upstream, prior to 1926; amount of diversion not published. Sediment data collected at this site 1967 to 1975.

COOPERATION.--Gage-height tapes, and 6 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--60 years (1925-85) 477 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,700 ft<sup>3</sup>/s Mar. 20, 1927, gage height 14.4 ft, from rating curve extended above 8,700 ft<sup>3</sup>/s on basis of velocity-area studies; maximum gage height, 15.91 ft Jan. 21, 1959; minimum discharge, 1.5 ft<sup>3</sup>/s Aug. 13, 1963, result of temporary storage behind dam upstream; minimum daily discharge, 8.0 ft<sup>3</sup>/s Sept. 23, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 19.6 ft, present datum, discharge, 44,000 ft<sup>3</sup>/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	1930	*8,780	*11.15	No other peak greater than base discharge.			
Minimum daily discharge 28 ft <sup>3</sup> /s Sept. 23.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	86	185	1780	120	1570	2630	156	138	78	49	88
2	47	126	151	1950	120	1150	1820	717	141	86	58	73
3	48	161	139	1160	120	834	1230	1410	124	77	57	61
4	45	135	134	683	120	751	849	745	126	74	45	56
5	43	205	123	650	110	1170	627	450	124	72	40	49
6	42	201	114	575	110	982	1280	344	117	71	42	44
7	48	147	113	530	110	667	1230	312	110	103	90	41
8	52	115	116	489	110	763	910	258	105	91	135	41
9	56	107	105	389	110	816	747	220	101	85	79	43
10	54	124	115	332	110	653	563	192	102	71	63	48
11	49	200	219	280	140	726	433	180	111	66	53	49
12	47	263	305	230	180	1450	410	174	327	69	46	49
13	47	223	402	200	220	1160	368	161	549	56	43	49
14	52	155	884	180	250	735	346	156	388	54	40	47
15	56	128	1040	170	230	616	332	157	247	179	55	43
16	57	114	606	160	220	492	489	181	224	147	91	38
17	59	104	389	160	210	447	401	278	273	102	97	35
18	55	97	276	150	200	461	284	380	202	76	74	33
19	56	97	373	150	190	335	255	504	181	65	58	32
20	57	138	411	140	180	312	234	361	161	56	52	30
21	67	234	440	140	170	366	215	309	133	55	46	30
22	65	229	1200	140	600	328	206	471	116	52	41	30
23	65	230	943	140	6000	322	193	357	112	51	40	28
24	61	229	626	130	6610	344	187	300	111	50	65	29
25	58	229	497	130	5340	364	188	209	105	47	207	34
26	57	230	409	130	4220	330	180	182	93	51	192	34
27	57	195	391	130	3070	266	166	165	83	61	114	31
28	61	148	380	130	2180	265	171	171	78	64	78	29
29	91	295	275	130	---	280	171	225	77	53	63	30
30	98	253	1730	120	---	649	148	165	75	45	111	29
31	81	---	1790	120	---	2550	---	142	---	45	100	---
TOTAL	1780	5198	14881	11798	31350	22154	17263	10032	4834	2252	2324	1253
MEAN	57.4	173	480	381	1120	715	575	324	161	72.6	75.0	41.8
MAX	98	295	1790	1950	6610	2550	2630	1410	549	179	207	88
MIN	42	86	105	120	110	265	148	142	75	45	40	28

CAL YR 1984	TOTAL	182032	MEAN	497	MAX	4400	MIN	41
WTR YR 1985	TOTAL	125119	MEAN	343	MAX	6610	MIN	28

## 03261950 LORAMIE CREEK NEAR NEWPORT, OH

LOCATION.--Lat 40°18'25", long 84°23'02", in SE 1/4 sec, 24, T.11 N., R.4 E., Shelby County, Hydrologic Unit 05080001, right bank at downstream side of bridge on Cardo Roman Road, 1.1 mi northwest of Newport, 3 mi south of Fort Loramie, 3 mi downstream from Mile Creek, and at mile 16.5.

DRAINAGE AREA.--152 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WRD Ohio 1971: 1966(M).

GAGE.--Water-stage recorder. Datum of gage is 926.57 ft above National Geodetic Vertical Datum of 1929. October 1, 1964 to September 30, 1980 water-stage recorder at same site at datum 0.43 ft higher.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 23. Records good except for estimated daily discharges, which are fair. Some regulation by Lake Loramie 5 mi upstream, capacity, 13,000 acre-ft. Sediment data collected at this site 1967 to 1975.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--21 years, 131 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft<sup>3</sup>/s June 14, 1981, maximum gage height, 14.08 ft Feb. 24, 1975; minimum daily, 0.10 ft<sup>3</sup>/s Aug. 15, 16, 1965, Sept. 10-12, 14, 15, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0730	*4,110	*13.03	Mar. 31	2200	1,750	10.76

Minimum daily discharge 1.1 ft<sup>3</sup>/s Sept. 22, 23.

REVISIONS.--The maximum discharge for the water year 1984 has been revised to 2,800 ft<sup>3</sup>/s, Mar. 16, 1984, gage height, 12.00 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	34	87	1030	5.2	196	1300	12	12	4.5	4.5	10
2	3.4	271	62	1100	5.2	165	583	181	10	7.4	4.0	6.3
3	2.8	153	58	496	5.2	133	269	269	9.8	5.3	3.5	4.6
4	3.4	95	57	243	5.2	134	170	142	8.9	4.3	3.4	3.3
5	3.5	82	46	165	5.2	182	123	82	7.1	3.8	3.2	2.8
6	3.2	59	43	196	5.0	143	228	57	6.4	5.0	3.9	2.2
7	4.8	43	32	57	5.0	105	194	47	6.1	4.4	4.8	2.1
8	22	31	31	74	5.0	155	140	34	5.9	3.3	11	1.8
9	23	30	27	63	5.0	153	108	24	5.3	3.3	8.4	2.2
10	14	70	73	54	5.0	118	80	19	5.2	3.9	5.7	2.6
11	9.2	323	248	40	10	290	73	17	7.5	4.2	4.0	2.1
12	7.0	326	198	30	100	483	62	16	74	4.1	3.1	1.7
13	5.9	167	76	25	250	270	63	16	92	4.0	2.9	1.6
14	6.0	101	363	19	200	184	60	14	71	3.8	2.9	1.5
15	9.1	70	444	14	170	137	56	15	48	23	5.1	1.6
16	27	53	292	12	130	100	54	17	171	17	34	1.6
17	25	43	182	10	110	88	43	21	161	7.6	21	1.4
18	15	38	47	9.0	100	68	29	21	91	4.7	7.4	1.3
19	11	35	37	8.0	96	51	28	22	55	3.8	4.3	1.3
20	8.7	24	38	7.4	92	65	27	21	33	3.4	3.4	1.2
21	17	19	48	6.8	90	65	24	80	22	3.2	2.8	1.2
22	33	15	320	6.4	627	55	22	96	15	3.2	2.6	1.1
23	24	15	206	6.4	2560	70	20	62	14	2.9	2.5	1.1
24	16	15	138	6.2	3770	94	18	38	11	2.5	15	2.1
25	12	15	87	6.0	2130	92	18	25	9.8	2.3	54	2.1
26	10	13	64	5.8	998	65	16	17	7.4	3.9	135	1.9
27	9.7	13	54	5.6	477	60	15	14	6.0	6.3	123	2.0
28	9.3	147	44	5.6	273	63	15	35	5.1	4.5	61	1.9
29	15	225	74	5.6	---	66	12	28	4.4	4.5	29	1.8
30	12	138	840	5.4	---	275	10	18	4.3	4.5	22	1.6
31	9.7	---	718	5.4	---	1250	---	16	---	3.3	18	---
TOTAL	375.5	2663	5034	3717.6	12234.0	5375	3860	1476	979.2	161.9	605.4	70.0
MEAN	12.1	88.8	162	120	437	173	129	47.6	32.6	5.22	19.5	2.33
MAX	33	326	840	1100	3770	1250	1300	269	171	23	135	10
MIN	2.8	13	27	5.4	5.0	51	10	12	4.3	2.3	2.5	1.1
CAL YR 1984	TOTAL	53856.9		MEAN	147	MAX	2240	MIN	2.2			
WTR YR 1985	TOTAL	36551.6		MEAN	100	MAX	3770	MIN	1.1			



## GREAT MIAMI RIVER BASIN

03262000 LORAMIE CREEK AT LOCKINGTON, OH

LOCATION.--Lat 40°12'35", long 84°14'32", in NE 1/4 sec. 30, T.7 N., R.6 E., Shelby County, Hydrologic Unit 05080001, on left bank at downstream side of county road bridge, 1,300 ft downstream from Lockington Dam, 0.5 mi northwest of Lockington, and at mile 1.9.

DRAINAGE AREA.--257 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 923: 1916. WSP 1908: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 800.03 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 22. Records good except those for period of estimated record, which are fair. Slight regulation by Lake Loramie 18 mi upstream, capacity, 13,000 acre-ft. Flood flow regulated by Lockington retarding basin beginning in 1921.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--70 years, 209 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft<sup>3</sup>/s May 7, 1916, gage height, 86.4 ft, present datum, from rating curve extended above 5,400 ft<sup>3</sup>/s; minimum daily, 1.4 ft<sup>3</sup>/s Sept. 20, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 91.6 ft, present datum, discharge, 25,600 ft<sup>3</sup>/s, at site upstream from Turtle Creek, drainage area, 211 mi, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,760 ft<sup>3</sup>/s Feb. 24, gage height, 83.60 ft; minimum daily, 3.7 ft<sup>3</sup>/s Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	153	1690	14	352	2030	40	28	13	7.0	35
2	11	245	100	1690	14	300	1070	397	25	14	5.6	24
3	11	301	83	959	14	247	488	549	24	16	5.4	18
4	10	159	85	429	14	239	304	274	24	14	4.8	15
5	8.9	124	73	259	13	330	231	167	23	13	4.5	13
6	8.8	97	63	273	13	259	445	116	20	13	4.6	12
7	9.1	68	41	162	13	203	349	93	18	12	13	11
8	11	51	57	116	13	307	259	74	18	13	18	11
9	28	42	48	99	13	297	207	60	17	11	20	10
10	28	54	46	90	13	225	169	45	16	10	15	11
11	18	252	282	74	20	559	147	37	17	9.8	13	10
12	16	588	364	60	60	1070	135	34	77	5.9	11	10
13	13	295	245	50	150	514	120	32	167	5.4	12	9.6
14	11	167	676	43	250	343	121	33	125	5.5	13	8.7
15	12	106	973	36	230	254	117	43	87	24	11	3.7
16	12	80	542	32	220	198	181	63	124	43	17	4.9
17	31	63	394	29	200	167	130	51	226	23	41	8.7
18	28	56	138	26	190	148	101	55	138	13	27	8.5
19	20	52	80	25	170	132	82	52	90	9.4	17	8.2
20	16	44	76	23	160	120	76	49	63	7.8	13	8.0
21	16	34	89	21	150	126	64	51	45	6.8	10	7.7
22	20	28	856	20	800	114	58	127	36	5.7	9.9	7.7
23	37	27	462	19	3940	123	52	96	30	5.3	9.3	6.5
24	28	24	267	18	4660	155	52	69	28	4.8	11	6.4
25	21	24	184	18	4260	157	50	50	23	4.5	65	7.5
26	17	23	113	17	2140	130	40	39	21	4.9	126	7.8
27	15	21	98	16	897	114	37	32	18	5.0	166	8.2
28	16	74	86	16	495	114	38	33	16	6.0	104	7.8
29	16	413	101	15	---	117	38	48	15	6.5	60	7.6
30	17	244	1590	15	---	440	37	35	14	5.2	110	7.3
31	17	---	1350	15	---	1990	---	28	---	6.0	62	---
TOTAL	534.8	3773	9715	6355	19126	9844	7228	2872	1573	336.5	1006.1	314.8
MEAN	17.3	126	313	205	683	318	241	92.6	52.4	10.9	32.5	10.5
MAX	37	588	1590	1690	4660	1990	2030	549	226	43	166	35
MIN	8.8	17	41	15	13	114	37	28	14	4.5	4.5	3.7
CAL YR 1984	TOTAL	87335.0		MEAN	239	MAX	3340	MIN	6.3			
WTR YR 1985	TOTAL	62678.2		MEAN	172	MAX	4660	MIN	3.7			



## GREAT MIAMI RIVER BASIN

211

03262700 GREAT MIAMI RIVER AT TROY, OH

LOCATION.--Lat 40°02'25", long 84°11'52", Miami County, Hydrologic Unit 05080001, 400 ft downstream from B. and O. Railroad bridge, 1,300 ft downstream from bridge on State Highway 55 at Troy, 1.2 mi upstream from small left bank tributary, 2.3 mi downstream from Spring Creek, and at mile 105.

DRAINAGE AREA.--926 mi<sup>2</sup>.

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 22. Records good except those for periods of estimated record, which are fair. Flood flow regulated by retarding basin on Loramie Creek, 18 mi upstream. Low and medium flow slightly regulated by Indian Lake; capacity, 45,900 acre-ft, 54 mi upstream. Water supply for city of Troy is pumped from wells adjacent to the Great Miami River upstream from the station. The pumpage averaged 5.1 ft<sup>3</sup>/s in 1985 and is returned as sewage 1 mi downstream from the station. Water quality data collected at this site 1965 to 1974. Sediment data collected 1970 to 1974.

COOPERATION.--Gage-height tapes and 10 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--23 years, 804 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft<sup>3</sup>/s Mar. 6, 1963, gage height, 14.66 ft; minimum, 0.50 ft<sup>3</sup>/s July 12, 13, 1963, result of temporary storage during repair of dam upstream; minimum daily discharge, 4.3 ft<sup>3</sup>/s July 17, 1977 result of dam closure upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 11, 1958 reached a stage of 16.4 ft, discharge, 21,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,600 ft<sup>3</sup>/s Feb. 24, gage height, 12.90 ft; minimum daily, 50 ft<sup>3</sup>/s Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	129	426	3540	130	2240	5060	270	221	112	97	157
2	81	246	306	4070	130	1720	3520	1060	215	122	81	132
3	77	464	273	2620	130	1320	2200	2460	217	116	77	113
4	73	362	244	1470	130	1140	1490	1440	199	105	79	100
5	72	294	244	1050	130	1500	1120	840	195	106	73	93
6	71	360	232	961	120	1460	1780	632	176	116	60	83
7	72	280	168	843	120	1060	1920	523	159	107	53	76
8	91	217	193	691	120	1250	1440	490	159	128	176	74
9	82	184	219	621	120	1380	1130	402	152	126	157	71
10	91	186	221	464	120	1070	906	353	147	118	120	63
11	86	312	362	400	120	1280	692	303	155	106	96	59
12	81	811	684	340	200	2740	655	287	219	92	87	55
13	75	605	740	310	350	2090	589	273	685	91	69	57
14	73	394	1460	280	500	1330	568	264	613	93	63	57
15	83	288	2190	250	490	1030	536	295	435	175	64	54
16	86	229	1460	230	480	827	716	327	348	256	121	57
17	86	205	1020	200	470	687	632	428	504	172	141	52
18	100	187	656	180	450	661	505	514	427	130	152	52
19	100	178	547	160	440	577	437	574	306	98	122	55
20	97	156	610	140	430	503	394	572	264	91	96	55
21	117	231	649	130	430	509	366	418	233	95	91	53
22	113	260	1940	170	1500	528	336	589	198	92	84	51
23	100	264	1730	160	11200	531	320	551	180	84	80	52
24	111	281	1120	150	13600	553	302	478	173	77	95	68
25	105	278	849	150	10400	580	286	364	154	82	155	58
26	96	277	674	140	7140	562	281	291	152	79	329	50
27	92	276	619	140	4240	473	248	271	138	81	326	52
28	112	286	596	140	3060	461	243	261	127	81	225	57
29	124	569	566	140	---	552	232	297	122	86	145	53
30	108	603	3020	130	---	1330	231	303	113	78	230	107
31	113	---	3640	130	---	4720	---	236	---	79	212	---
TOTAL	2855	9412	27658	20400	56750	36664	29135	16366	7386	3374	3956	2116
MEAN	92.1	314	892	658	2027	1183	971	528	246	109	128	70.5
MAX	124	811	3640	4070	13600	4720	5060	2460	685	256	329	157
MIN	71	129	168	130	120	461	231	236	113	77	53	50
CAL YR 1984	TOTAL	317880		MEAN	869	MAX	7980	MIN	63			
WTR YR 1985	TOTAL	216072		MEAN	592	MAX	13600	MIN	50			

## GREAT MIAMI RIVER BASIN

03263000 GREAT MIAMI RIVER AT TAYLORSVILLE, OH

LOCATION.--Lat 39°52'27", long 84°09'45", in SW 1/4 sec. 36, R.8, T.2, Montgomery County, Hydrologic Unit 05080001, on right upstream face of Taylorsville Dam, 0.8 mi north of Taylorsville, 2.1 mi east of Vandalia, 9.5 mi upstream from Stillwater River, and at mile 90.9.

DRAINAGE AREA.--1,149 mi<sup>2</sup>.

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.

REVISED RECORDS.--WSP 743: 1924(M). WSP 853: 1930, 1937. WSP 923: 1922-24. WSP 1385: 1916. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 760.11 ft above National Geodetic Vertical Datum of 1929, levels by Miami Conservancy District. Prior to October 1921, nonrecording gage at site 1.7 mi upstream at different datum. Jan. 1, 1922, to Nov. 11, 1925, nonrecording gage at site 50 ft downstream at outlet works of Taylorsville Dam at datum 60.03 ft lower, October 1921 to September 1978 at site 650 ft downstream at datum 60.03 ft lower.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 21. Records good except for periods of estimated record, which are fair. Flood flow regulated by retarding basins on Great Miami River, just downstream from station and on Loramie Creek 28 mi upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake 64 mi upstream from station, and by Lake Loramie 47 mi upstream from station on Loramie Creek; combined capacity, 58,900 acre-ft.

COOPERATION.--Base data furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--67 years, 999 ft<sup>3</sup>/s, 11.81 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 75.44 ft at site and datum then in use; minimum daily, 25 ft<sup>3</sup>/s July 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 25.4 ft at site at Tadmor, discharge, 127,000 ft<sup>3</sup>/s computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,400 ft<sup>3</sup>/s Feb. 24, gage height, 19.52 ft; minimum daily, 77 ft<sup>3</sup>/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	129	257	670	4070	280	2760	7620	461	313	193	155	208	
2	123	456	509	4970	280	2200	4740	1560	302	203	143	169	
3	120	639	462	3240	280	1760	2860	2980	309	186	125	150	
4	113	708	411	1930	280	1540	2010	2050	290	176	126	132	
5	112	896	383	1400	270	1960	1570	1270	277	173	122	127	
6	113	661	380	1240	270	1940	2250	935	277	188	119	119	
7	116	525	329	1140	270	1500	2390	777	275	175	117	113	
8	147	415	306	942	270	1880	1910	684	266	178	177	111	
9	134	354	335	841	260	1970	1540	589	247	189	223	105	
10	134	383	366	682	260	1560	1300	534	235	174	179	99	
11	138	586	568	620	260	1660	1060	485	259	163	147	97	
12	132	976	928	560	310	3530	949	445	378	149	137	86	
13	127	893	1110	500	450	2800	867	432	693	144	125	89	
14	130	633	2150	450	580	1900	819	394	831	144	110	92	
15	138	502	2760	420	560	1490	782	494	613	260	106	88	
16	148	405	1960	390	540	1230	892	575	511	354	140	89	
17	144	353	1390	380	520	1070	877	710	570	273	172	91	
18	151	332	1000	370	500	986	752	702	603	195	186	88	
19	166	329	795	360	490	927	621	782	458	166	159	91	
20	158	304	851	350	480	796	570	804	385	144	132	88	
21	184	302	872	390	470	764	532	628	342	145	120	83	
22	197	393	2280	430	2350	787	506	664	300	162	114	79	
23	179	369	2250	400	10500	771	478	742	287	149	110	77	
24	179	391	1510	380	15700	773	469	627	266	129	146	102	
25	182	386	1140	360	14600	796	467	526	243	123	171	97	
26	173	382	906	340	11100	771	440	438	236	144	303	82	
27	163	382	817	330	5960	692	411	386	218	145	362	80	
28	268	636	788	320	3790	669	397	396	205	132	290	83	
29	729	886	792	310	---	1050	383	382	198	130	206	84	
30	395	914	3410	300	---	2660	374	429	186	129	199	88	
31	299	---	4460	290	---	6310	---	362	---	147	281	---	
TOTAL	5621	15648	36888	28705	71880	51502	40836	23243	10573	5362	5202	3087	
MEAN	181	522	1190	926	2567	1661	1361	750	352	173	168	103	
MAX	729	976	4460	4970	15700	6310	7620	2980	831	354	362	208	
MIN	112	257	306	290	260	669	374	362	186	123	106	77	
CFSM	.16	.45	1.04	.81	2.23	1.45	1.18	.65	.31	.15	.15	.09	
IN.	.18	.51	1.19	.93	2.33	1.67	1.32	.75	.34	.17	.17	.10	
CAL YR 1984	TOTAL	390435		MEAN	1067	MAX	9860	MIN	98	CFSM	.93	IN.	12.61
WTR YR 1985	TOTAL	298547		MEAN	818	MAX	15700	MIN	77	CFSM	.71	IN.	9.67

03264000 GREENVILLE CREEK NEAR BRADFORD, OH

LOCATION --Lat 40°06'08", long 84°25'48", in NW 1/4 sec. 34, T.9 N., R.4 E., Miami County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on State Highway 721, 0.8 mi downstream from small left bank tributary, 1.8 mi south of Bradford, and 6 mi upstream from mouth.

DRAINAGE AREA.--193 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1930 to current year. Prior to April 1931, monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 803: 1933(M). WSP 1235: 1936, 1937(M). WSP 1908: Drainage area. WRD-OH-82-1: 1980.

GAGE.--Water-stage recorder. Datum of gage is 948.9 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 23. Records good except for estimated daily record which are fair. Some diurnal fluctuation caused by mill 8 mi upstream from station; daily flows are not affected appreciably. Sediment data collected at this site 1970 to 1974.

COOPERATION.--Gage-height tapes and 9 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--55 years, 172 ft<sup>3</sup>/s, 12.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,320 ft<sup>3</sup>/s 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 ft<sup>3</sup>/s Sept. 17, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 12.1 ft, discharge, 18,200 ft<sup>3</sup>/s, at site with drainage area of 213 mi, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0530	*3,650	*7.75	Apr. 1	0730	2,220	6.08

Minimum daily discharge 14 ft<sup>3</sup>/s Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	50	141	941	66	375	1920	109	67	45	76	31
2	27	307	109	1080	66	330	798	518	65	130	73	27
3	26	281	102	530	66	281	532	619	65	108	49	24
4	26	165	98	354	66	268	386	323	64	73	40	23
5	23	129	87	266	66	302	326	227	62	82	37	22
6	24	115	85	211	66	250	431	184	61	126	36	21
7	28	87	63	192	66	220	350	153	59	83	36	21
8	47	78	111	167	66	501	280	132	62	62	70	21
9	58	74	98	140	66	474	242	119	62	55	93	19
10	57	75	73	129	66	315	220	113	58	49	54	17
11	47	128	100	120	66	439	211	106	69	43	42	18
12	41	208	123	110	94	790	192	103	226	41	38	18
13	36	148	204	105	170	469	180	99	247	39	34	18
14	38	113	615	100	250	332	173	90	170	39	29	17
15	61	97	620	98	240	267	171	132	122	59	27	19
16	59	87	352	94	210	230	210	170	112	66	48	17
17	51	74	252	92	190	209	184	131	93	48	52	17
18	48	67	196	90	170	186	163	124	85	41	39	15
19	46	66	169	88	160	175	154	140	77	40	36	15
20	42	64	158	86	150	166	143	129	71	37	32	15
21	51	61	167	84	150	150	138	111	65	36	29	15
22	82	58	556	82	400	144	133	99	61	34	27	15
23	76	53	370	80	1500	149	127	90	61	34	25	15
24	62	53	241	76	3490	150	122	84	59	34	27	14
25	53	53	181	74	2170	139	118	79	54	32	28	16
26	49	53	143	74	939	126	113	73	52	30	30	15
27	46	53	132	72	629	126	107	69	47	34	32	16
28	45	126	129	70	465	126	103	81	44	38	28	15
29	46	311	138	70	---	190	96	78	42	35	26	17
30	46	197	896	68	---	841	92	73	42	37	28	16
31	44	---	879	68	---	1770	---	72	---	27	32	---
TOTAL	1414	3431	7588	5811	12103	10490	8415	4630	2424	1637	1253	549
MEAN	45.6	114	245	187	432	338	281	149	80.8	52.8	40.4	18.3
MAX	82	311	896	1080	3490	1770	1920	619	247	130	93	31
MIN	23	50	63	68	66	126	92	69	42	27	25	14
CFSM	.24	.59	1.27	.97	2.24	1.75	1.46	.77	.42	.27	.21	.09
IN.	.27	.66	1.46	1.12	2.33	2.02	1.62	.89	.47	.32	.24	.11
CAL YR 1984	TOTAL	68210	MEAN	186	MAX	1900	MIN	20	CFSM	.96	IN.	13.09
WTR YR 1985	TOTAL	59745	MEAN	164	MAX	3490	MIN	14	CFSM	.85	IN.	11.52



## GREAT MIAMI RIVER BASIN

03265000 STILLWATER RIVER AT PLEASANT HILL, OH

LOCATION.--Lat 40°03'28", long 84°21'22", in SW 1/4 sec. 18, T.7 N., R.5 E., Miami County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on Laurer Road, 0.8 mi northwest of Pleasant Hill, 2 mi downstream from Painter Creek, 2 mi upstream from Canyon Run, and at mile 28.35.

DRAINAGE AREA.--503 mi<sup>2</sup>.

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.

REVISED RECORDS.--WSP 523: 1917. WSP 1305: 1920(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 846.73 ft above National Geodetic Vertical Datum of 1912. Prior to Dec. 23, 1934, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 23. Records good except for periods of estimated record, which are fair. Sediment data collected at this site 1963 to 1975.

COOPERATION.--Gage-height tapes and 9 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--63 years, 443 ft<sup>3</sup>/s, 11.96 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft<sup>3</sup>/s Jan. 14, 1937, from rating curve extended above 14,500 ft<sup>3</sup>/s on basis of velocity-area study; maximum gage height, 18.46 ft June 29, 1980; minimum discharge observed, 4 ft<sup>3</sup>/s Oct. 17, 1920, July 12, 22, Aug. 30, 1921.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 17.5 ft. Discharge, at site about 3 mi upstream, 51,400 ft<sup>3</sup>/s, computed by Miami Conservancy District. This stage is not comparable with present gage heights because of failure of levee in 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 24	0030	*12,200	*13.85	Mar. 31	2000	6,750	10.12

Minimum daily discharge 20 ft<sup>3</sup>/s Sept. 20, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	90	281	3100	110	881	4990	182	114	71	71	75
2	40	428	210	3250	110	770	1990	1380	109	128	114	53
3	35	553	189	1360	110	656	1220	1950	112	164	80	41
4	34	295	181	854	110	628	858	846	107	116	65	35
5	34	226	168	619	110	766	720	533	104	95	55	31
6	32	193	154	459	110	581	1120	400	100	168	49	29
7	40	158	110	410	110	483	865	319	99	121	49	27
8	58	135	145	352	110	1200	646	266	103	90	64	28
9	100	128	139	285	110	1130	531	233	101	76	209	26
10	121	129	141	258	110	734	460	217	94	68	111	24
11	101	211	192	230	110	1240	427	205	106	58	74	25
12	76	406	286	200	200	2460	381	195	384	54	57	26
13	61	301	507	190	400	1190	356	184	557	50	46	24
14	61	214	1720	180	340	799	338	177	372	52	38	23
15	85	176	1760	170	320	623	328	199	250	97	36	24
16	121	156	871	160	310	508	400	289	222	122	54	23
17	133	140	601	140	300	457	347	250	184	110	91	22
18	109	127	436	120	280	388	296	229	162	78	83	22
19	88	121	362	100	270	348	276	236	146	66	61	21
20	75	114	327	90	260	333	255	223	130	57	50	20
21	87	107	366	120	250	298	239	193	117	54	42	21
22	167	100	1680	120	1000	286	228	173	112	51	37	23
23	165	96	985	120	8000	304	221	160	108	49	34	23
24	123	94	585	120	10700	311	214	149	102	46	49	26
25	100	95	412	115	6120	291	206	139	93	41	57	20
26	87	92	305	110	2620	251	194	130	85	40	75	22
27	79	90	279	110	1590	247	187	125	79	46	75	22
28	79	170	266	110	1110	256	179	139	72	52	65	24
29	85	712	278	110	---	400	164	139	69	49	48	24
30	85	423	2940	110	---	2340	155	126	67	46	56	26
31	81	---	2510	110	---	5700	---	119	---	52	102	---
TOTAL	2587	6280	19386	13782	35280	26859	18791	10105	4460	2367	2097	830
MEAN	83.5	209	625	445	1260	866	626	326	149	76.4	67.6	27.7
MAX	167	712	2940	3250	10700	5700	4990	1950	557	168	209	75
MIN	32	90	110	90	110	247	155	119	67	40	34	20
CFSM	.17	.42	1.24	.88	2.50	1.72	1.24	.65	.30	.15	.13	.06
IN.	.19	.46	1.43	1.02	2.61	1.99	1.39	.75	.33	.18	.16	.06
CAL YR 1984	TOTAL	173668	MEAN	475	MAX	6040	MIN	25	CFSM	.94	IN.	12.82
WTR YR 1985	TOTAL	142824	MEAN	391	MAX	10700	MIN	20	CFSM	.78	IN.	10.56



## GREAT MIAMI RIVER BASIN

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03266000 STILLWATER RIVER AT ENGLEWOOD, OH

LOCATION.--Lat 39°52'10", long 84°16'57", in NW 1/4 sec. 23, T.5 N., R.5 E., Montgomery County, Hydrologic Unit 05080001, on right bank 1,000 ft downstream from Englewood Dam, 1 mi southeast of Englewood, and at mile 8.9.

DRAINAGE AREA.--650 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1925 to current year (monthly discharge only, October 1925, published in WSP 1305).

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 699.97 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 23. Records good except for periods of estimated record, which are fair. Flood flow regulated by Englewood retarding basin.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--60 years, 579 ft<sup>3</sup>/s, 12.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,980 ft<sup>3</sup>/s June 15, 1958, gage height, 80.88 ft; minimum, 3.7 ft<sup>3</sup>/s Sept. 30, Oct. 1, 1944, gage height, 71.36 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 85,400 ft<sup>3</sup>/s at site 1 mi downstream, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,460 ft<sup>3</sup>/s Feb. 25, gage height, 79.28 ft; minimum, 29 ft<sup>3</sup>/s Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	179	580	3200	150	1950	5510	288	162	109	91	109
2	59	412	387	4460	140	1170	5150	1420	156	177	98	89
3	55	1080	324	2870	140	965	3260	2740	154	233	113	71
4	51	728	273	1460	140	889	1370	1420	152	185	91	59
5	47	674	258	1050	140	1110	1100	834	148	145	79	54
6	48	411	250	729	140	951	1550	587	145	148	73	50
7	50	291	191	620	140	708	1420	464	151	170	78	47
8	62	229	180	540	140	1330	1010	366	151	137	72	45
9	67	205	212	439	140	1760	807	313	147	113	116	44
10	100	215	234	376	140	1150	665	283	141	100	161	43
11	115	525	359	320	140	1190	601	268	153	88	115	40
12	99	795	493	300	200	2870	534	254	257	82	85	37
13	81	672	852	270	350	2080	483	242	652	80	72	39
14	74	418	2300	250	450	1230	464	231	535	78	62	38
15	79	313	2800	240	360	934	443	266	346	117	62	36
16	97	258	1590	230	330	732	465	371	279	141	71	37
17	126	220	1060	220	320	640	463	487	243	146	74	37
18	131	205	718	200	310	548	389	373	213	125	103	36
19	110	198	568	180	300	475	347	419	192	99	92	35
20	93	184	501	150	290	451	324	361	174	88	75	32
21	101	170	496	150	280	399	300	301	158	88	66	31
22	111	159	2160	165	700	364	285	257	151	94	59	30
23	189	153	1890	160	3500	380	276	235	145	82	55	35
24	159	150	1060	160	6580	392	275	217	139	74	107	44
25	130	148	687	160	7340	376	267	201	132	71	115	37
26	113	144	488	160	6970	323	252	188	121	75	98	35
27	98	144	417	150	6120	301	247	179	113	73	95	33
28	278	382	390	150	4670	311	236	188	104	67	92	32
29	817	1140	400	150	---	482	219	189	98	70	80	31
30	410	1010	2410	150	---	2330	205	179	94	67	78	34
31	220	---	4110	150	---	4520	---	171	---	78	79	---
TOTAL	4235	11812	28638	19809	40620	33311	28917	14292	5806	3400	2707	1320
MEAN	137	394	924	639	1451	1075	964	461	194	110	87.3	44.0
MAX	817	1140	4110	4460	7340	4520	5510	2740	652	233	161	109
MIN	47	144	180	150	140	301	205	171	94	67	55	30
CFSM	.21	.61	1.42	.98	2.23	1.65	1.48	.71	.30	.17	.13	.07
IN.	.24	.68	1.64	1.13	2.32	1.91	1.65	.82	.33	.19	.15	.08
CAL YR 1984	TOTAL	233924	MEAN	639	MAX	5650	MIN	43	CFSM	.98	IN.	13.35
WTR YR 1985	TOTAL	194867	MEAN	534	MAX	7340	MIN	30	CFSM	.82	IN.	11.15

## GREAT MIAMI RIVER BASIN

03267000 MAD RIVER NEAR URBANA, OH

LOCATION.--Lat 40°06'27", long 83°47'57", on west line of sec. 35, T.5 E., R.11 N., Champaign County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on U.S. Highway 36, 1.8 mi upstream from Dugan Run, 1.8 mi downstream from Muddy Creek, 2.5 mi west of Urbana, and at mile 39.7.

DRAINAGE AREA.--162 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1925 to September 1931, August 1939 to current year.

REVISED RECORDS.--WSP 1305: 1930(M). WSP 1505: 1956. WSP 1625: 1929. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 985.22 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Jan. 10-21. Records fair. Sediment data collected at this site 1970 to 1974.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--52 years, 145 ft<sup>3</sup>/s, 12.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 12.05 ft, from rating curve extended above 4,000 ft<sup>3</sup>/s on basis of estimate of peak flow based on contracted-opening measurement at site 3 mi downstream with drainage area of 235 mi adjusted to gage site by 0.8 power of the drainage-area ratio; minimum, 2.1 ft<sup>3</sup>/s Jan. 21, 1963, gage height, 2.33 ft, result of freezeup; minimum daily, 24 ft<sup>3</sup>/s Feb. 2, 3, 1945, Jan. 13, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	2300	*1,630	*5.80	No other peak discharge greater than base.			

Minimum daily discharge 58 ft<sup>3</sup>/s Sept. 23, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	98	111	341	103	278	422	138	123	87	99	90
2	61	120	105	321	99	265	290	378	120	87	92	84
3	61	111	104	231	99	240	256	354	120	92	89	81
4	65	122	100	207	99	240	231	240	120	92	90	78
5	66	194	99	187	100	299	224	206	118	94	85	73
6	65	136	98	176	97	236	423	187	114	97	84	73
7	65	125	92	173	95	224	272	174	112	92	103	74
8	67	116	94	163	95	253	237	161	116	91	106	74
9	67	115	94	146	94	231	220	158	118	87	95	73
10	68	130	96	140	94	214	209	153	113	87	90	73
11	69	144	122	135	94	231	201	149	117	83	86	68
12	69	141	128	130	103	356	194	144	126	82	84	65
13	69	128	153	130	93	258	187	135	114	82	83	64
14	69	121	259	125	94	232	178	134	112	83	80	63
15	69	118	238	120	99	214	175	137	112	395	83	63
16	71	113	190	115	108	203	180	148	114	174	89	63
17	75	109	168	115	103	192	169	194	113	134	87	63
18	75	104	148	110	100	181	165	180	112	114	84	62
19	75	102	139	105	99	178	162	213	110	117	82	61
20	74	99	135	100	99	174	159	177	107	114	80	60
21	77	97	134	120	99	168	154	162	104	113	80	59
22	76	94	279	149	266	168	151	156	107	113	80	59
23	77	94	189	115	1300	168	147	147	107	104	78	58
24	76	92	163	112	988	168	135	143	102	103	85	61
25	75	92	145	107	575	160	129	135	101	98	94	60
26	75	90	136	104	409	152	139	132	101	99	82	58
27	75	89	133	110	340	153	141	132	99	99	82	59
28	91	110	132	110	297	153	138	132	98	96	80	59
29	150	131	133	107	---	157	132	130	94	93	79	59
30	111	117	323	105	---	260	129	126	91	94	97	59
31	98	---	254	104	---	675	---	126	---	92	95	---
TOTAL	2342	3452	4694	4513	6241	7081	5949	5281	3315	3388	2703	1996
MEAN	75.5	115	151	146	223	228	198	170	111	109	87.2	66.5
MAX	150	194	323	341	1300	675	423	378	126	395	106	90
MIN	61	89	92	100	93	152	129	126	91	82	78	58
CFSM	.47	.71	.93	.90	1.38	1.41	1.22	1.05	.69	.67	.54	.41
IN.	.54	.79	1.08	1.04	1.43	1.63	1.37	1.21	.76	.78	.62	.46
CAL YR 1984	TOTAL	60057	MEAN	164	MAX	916	MIN	61	CFSM	1.01	IN.	13.74
WTR YR 1985	TOTAL	50955	MEAN	140	MAX	1300	MIN	58	CFSM	.86	IN.	11.70

## GREAT MIAMI RIVER BASIN

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03267900 MAD RIVER AT ST. PARIS PIKE AT EAGLE CITY, OH

LOCATION.--Lat 39°57'51", long 83°49'54", in W 1/2 sec. 1, R. 10, T.4, Clark County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on St. Paris Pike, 0.8 mi southeast of Eagle City, 1.1 mi downstream from Moore Run, 3.1 mi upstream from Buck Creek, 3.3 mi south of Tremont City, and at mile 29.5.

DRAINAGE AREA.--310 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 904.66 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 7 to Feb. 21. Records good except those for periods of estimated record, which are fair. Water supply for city of Springfield is pumped from wells, adjacent to Mad River, just upstream from station. Recharge to the well field is largely by induced infiltration from Mad River and Moore Run. Pumpage, averaging 23.2 ft<sup>3</sup>/s in 1985, is returned as sewage 1.4 mi upstream from gaging station near Springfield (station 03269500). Water-quality data collected at this site 1966 to 1977.

AVERAGE DISCHARGE.--20 years, 308 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,700 ft<sup>3</sup>/s June 26, 1971, gage height, 16.00 ft, from rating curve extended above 3,060 ft<sup>3</sup>/s; minimum daily, 60 ft<sup>3</sup>/s Jan. 27, 28, 1977 (result of freezeup).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 23	1730	*3,780	*10.94	No other peaks greater than base discharge.			

Minimum daily discharge, 100 ft<sup>3</sup>/s Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	176	242	910	180	500	983	318	198	153	162	139
2	124	284	223	744	180	480	658	790	196	155	148	135
3	123	217	230	500	175	437	552	731	196	152	143	131
4	121	433	218	426	175	448	486	465	191	147	141	130
5	121	573	209	374	175	629	468	392	188	161	144	128
6	119	341	211	341	175	456	853	356	184	172	144	128
7	122	272	192	300	170	423	569	329	181	160	175	126
8	133	242	195	280	170	620	504	309	178	157	172	126
9	126	241	190	270	165	491	460	294	176	149	149	125
10	124	319	235	250	160	428	428	283	172	146	147	124
11	124	387	355	240	160	563	409	274	195	141	147	123
12	124	327	320	230	170	825	388	267	252	140	147	120
13	124	275	445	220	190	554	372	258	215	138	138	119
14	130	249	835	210	180	436	363	248	202	136	136	117
15	131	239	570	200	180	439	357	263	195	717	179	115
16	131	226	420	195	180	406	359	318	203	304	170	114
17	129	213	359	190	175	380	337	411	193	219	145	113
18	129	212	320	180	170	358	328	335	189	195	137	111
19	128	209	313	170	170	345	320	366	181	184	134	108
20	128	201	300	160	170	339	311	303	175	176	134	106
21	142	195	309	150	170	323	303	283	171	192	133	121
22	141	189	634	210	1240	319	302	265	171	236	132	113
23	137	186	401	200	3250	323	297	253	172	184	131	104
24	133	184	341	195	2150	317	297	242	167	170	144	115
25	131	180	299	190	1160	301	293	233	162	165	150	112
26	129	178	273	190	798	288	283	223	159	176	141	109
27	126	177	269	185	646	288	280	221	155	167	131	107
28	194	351	267	185	545	287	273	231	152	157	130	102
29	396	340	281	180	---	527	266	215	150	154	128	100
30	228	274	1090	180	---	1200	261	209	148	151	151	101
31	185	---	628	180	---	1780	---	207	---	161	148	---
TOTAL	4459	7890	11174	8435	13429	15560	12360	9892	5467	5815	4511	3522
MEAN	144	263	360	272	480	502	412	319	182	188	146	117
MAX	396	573	1090	910	3250	1780	983	790	252	717	179	139
MIN	119	176	190	150	160	287	261	207	148	136	128	100
CAL YR 1984	TOTAL	112816	MEAN	308	MAX	2070	MIN	110				
WTR YR 1985	TOTAL	102514	MEAN	281	MAX	3250	MIN	100				

## GREAT MIAMI RIVER BASIN

03269500 MAD RIVER NEAR SPRINGFIELD, OH

LOCATION.--Lat 39°55'23", long 83°52'13", in NW 1/4 sec. 16, R.9, T.4, Clark County, Hydrologic Unit 05080001, on right bank 150 ft downstream from Rock Run, 300 ft downstream from bridge on Lower Valley Pike, 2 mi downstream from Buck Creek, 3 mi west of Springfield, and at mile 24.1.

DRAINAGE AREA.--490 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1904 to March 1906 (fragmentary), February 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--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.

GAGE.--Water-stage recorder. Datum of gage is 881.42 ft above National Geodetic Vertical Datum of 1929.

Jan. 1, 1904 to Mar. 31, 1906, nonrecording gage at site 0.3 mi downstream at different datum. Feb. 1, 1914, to Feb. 29, 1924, nonrecording gage at site 1.8 mi upstream at datum 6.39 ft higher. Mar. 1, 1924, to July 31, 1925, nonrecording gage at site 300 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Nov. 4, 5 and Jan. 8 to Feb. 21. Records fair. Some regulation by C.J. Brown Reservoir, 8.3 mi upstream on Buck Creek, since 1972. Occasional low-flow regulation by powerplant 2.3 mi upstream; daily flows are not affected appreciably. Water-quality data collected at this site 1965 to 1973.

COOPERATION.--Gage height charts, tapes, and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--72 years, (1904-05, 1914-85), 490 ft<sup>3</sup>/s, 13.58 in/yr unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,500 ft<sup>3</sup>/s Jan. 21, 1959, gage height, 15.76 ft, from rating curve extended above 14,000 ft<sup>3</sup>/s on basis of slope-area and contracted opening measurements of peak flow; minimum daily discharge, 30 ft<sup>3</sup>/s Sept. 15, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 16.9 ft, present datum, discharge, 55,400 ft<sup>3</sup>/s computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,650 ft<sup>3</sup>/s Feb. 23, gage height, 7.41 ft; minimum daily, 193 ft<sup>3</sup>/s Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	209	387	448	1350	280	951	1460	582	333	375	267	226	
2	205	450	346	1320	280	795	1050	1390	307	275	262	207	
3	202	382	352	992	270	717	926	1220	291	256	239	207	
4	199	450	330	683	270	773	822	811	285	242	223	207	
5	197	850	316	609	260	1040	845	677	281	259	228	206	
6	193	600	321	531	260	767	1440	618	276	277	228	205	
7	205	490	293	488	260	707	1000	579	292	277	341	200	
8	242	449	298	460	250	1040	844	514	262	250	266	197	
9	246	468	291	430	250	849	691	446	253	233	323	205	
10	243	577	408	410	250	722	631	439	248	230	278	205	
11	230	781	611	390	270	1010	600	455	332	223	234	216	
12	198	613	539	370	320	1530	564	440	416	221	235	214	
13	208	514	718	350	310	1020	541	409	368	219	234	216	
14	248	460	1380	340	300	837	525	409	343	217	232	213	
15	249	447	998	340	290	703	515	473	365	834	464	211	
16	250	426	721	330	290	593	511	557	389	417	326	214	
17	228	406	614	310	290	564	483	663	353	295	334	216	
18	201	414	553	290	290	533	472	596	323	268	280	207	
19	203	409	551	270	290	514	460	576	310	280	240	206	
20	228	385	506	250	290	500	447	469	299	271	235	205	
21	280	298	556	300	290	478	436	442	292	317	228	238	
22	286	284	951	350	1690	473	434	415	300	414	224	250	
23	274	280	611	330	4160	483	426	374	284	336	214	256	
24	293	277	509	320	2860	476	424	358	276	321	308	265	
25	303	293	427	300	1720	456	398	343	270	299	243	250	
26	285	292	413	290	1530	438	382	340	264	310	253	248	
27	228	291	404	290	1410	439	381	348	252	262	222	245	
28	290	621	399	280	1300	438	389	374	284	239	219	242	
29	592	617	461	280	---	910	378	394	446	237	216	240	
30	420	510	1650	280	---	2040	363	386	447	235	248	251	
31	334	---	1090	280	---	2410	---	379	---	293	224	---	
TOTAL	7969	13721	18065	13813	20530	25206	18838	16476	9441	9182	8068	6668	
MEAN	257	457	583	446	733	813	628	531	315	296	260	222	
MAX	592	850	1650	1350	4160	2410	1460	1390	447	834	464	265	
MIN	193	277	291	250	250	438	363	340	248	217	214	197	
CFSM	.52	.93	1.19	.91	1.50	1.66	1.28	1.08	.64	.60	.53	.45	
IN.	.60	1.04	1.37	1.05	1.56	1.91	1.43	1.25	.72	.70	.61	.51	
CAL YR 1984	TOTAL	183222		MEAN	501	MAX	2850	MIN	181	CFSM	1.02	IN.	13.88
WTR YR 1985	TOTAL	167977		MEAN	460	MAX	4160	MIN	193	CFSM	.94	IN.	12.75



## GREAT MIAMI RIVER BASIN

219

03270000 MAD RIVER NEAR DAYTON, OH

LOCATION.--Lat 39°47'50", long 84°05'19", in SW 1/4 sec. 7, R. 8, T.2, Green County, Hydrologic Unit 05080001, on left bank in retarding basin 300 ft upstream from Huffman Dam, 2.3 mi downstream from Mud Run, 6.2 mi northeast of Dayton and at mile 6.1. Water-quality sampling site was on left bank 900 ft downstream.

DRAINAGE AREA.--635 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 453: 1915. WSP 743: 1929-32. WSP 1305: 1916(M), 1925(M) 1930-32(M). drainage area. WRD-OH-82-1: 1980.

GAGE.--Water-stage recorder. Datum of gage is 777.06 ft above National Geodetic Vertical Datum of 1929.

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. Water-quality data collected at this site 1947-1948, 1962-1963, 1966-1980.

REMARKS.--Estimated daily discharges: Jan. 8 to Feb. 21 and Aug. 31 to Sept. 3. Records fair. Flood flows affected by backwater from Huffman retarding dam beginning in 1921, some regulation by C.J. Brown Reservoir 26 mi upstream on Buck Creek since 1972. Also see REMARKS for station 03269500.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--71 years, 629 ft<sup>3</sup>/s, 13.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft<sup>3</sup>/s 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 daily discharge, 94 ft<sup>3</sup>/s Aug. 6, 1934, but may have been less during period 1921-24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 14.0 ft, original site and datum, discharge 75,700 ft<sup>3</sup>/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,750 ft<sup>3</sup>/s Feb. 23, gage height, 12.16 ft; minimum daily, 201 ft<sup>3</sup>/s Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	291	436	638	1770	360	1270	2330	565	434	504	336	235	
2	265	536	529	1860	350	1070	1480	1920	409	376	294	227	
3	257	495	502	1390	350	963	1270	1850	386	326	267	220	
4	251	830	483	990	350	978	1130	1150	379	305	247	218	
5	249	1590	457	882	340	1330	1070	924	372	352	236	213	
6	246	940	450	772	340	1050	1720	804	365	378	246	207	
7	252	717	425	694	340	941	1330	731	387	298	325	209	
8	293	636	424	640	340	1260	1160	667	375	331	328	205	
9	302	622	416	620	330	1170	973	568	353	288	312	201	
10	300	782	551	580	320	989	868	536	345	276	331	213	
11	298	1060	849	560	360	1200	806	537	373	260	265	212	
12	270	929	738	540	480	2120	738	539	570	254	254	215	
13	259	739	837	500	460	1430	692	510	484	251	250	216	
14	289	659	1830	500	440	1160	670	487	450	248	247	216	
15	308	610	1450	490	420	1010	647	567	431	591	394	218	
16	331	587	1040	490	410	842	625	649	485	614	623	214	
17	309	561	870	470	400	786	597	879	466	367	381	215	
18	264	558	761	450	400	736	575	749	422	308	368	219	
19	251	562	730	430	390	698	563	748	404	298	291	207	
20	263	542	704	400	380	676	549	607	390	298	273	205	
21	347	482	733	450	380	649	536	552	379	356	258	213	
22	375	446	1190	580	3270	632	525	529	377	459	248	268	
23	349	433	901	520	5470	639	518	487	383	394	238	275	
24	353	426	736	480	3760	635	517	454	361	359	338	307	
25	368	422	616	460	2210	616	503	436	347	346	332	276	
26	374	422	575	440	1880	591	473	419	331	336	288	269	
27	328	424	563	430	1720	576	453	414	310	338	248	263	
28	333	798	554	410	1600	574	452	449	301	280	235	261	
29	711	934	578	400	---	981	439	459	447	262	227	258	
30	560	722	2250	380	---	2920	433	458	498	255	231	256	
31	450	---	1660	370	---	3530	---	455	---	326	240	---	
TOTAL	10096	19900	25040	19948	27850	34022	24642	21099	12014	10634	9151	6931	
MEAN	326	663	808	643	995	1097	821	681	400	343	295	231	
MAX	711	1590	2250	1860	5470	3530	2330	1920	570	614	623	307	
MIN	246	422	416	370	320	574	433	414	301	248	227	201	
CFSM	.51	1.04	1.27	1.01	1.57	1.73	1.29	1.07	.63	.54	.46	.36	
IN.	.59	1.17	1.47	1.17	1.63	1.99	1.44	1.24	.70	.62	.54	.41	
CAL YR 1984	TOTAL	233636		MEAN	638	MAX	3580	MIN	219	CFSM	1.00	IN.	13.64
WTR YR 1985	TOTAL	221327		MEAN	606	MAX	5470	MIN	201	CFSM	.95	IN.	12.97

## GREAT MIAMI RIVER BASIN

03270500 GREAT MIAMI RIVER AT DAYTON, OH

LOCATION.--Lat 39°45'55", long 84°11'51", in sec. 10, R.7, T.1, Montgomery County, Hydrologic Unit 05080002, on left bank 1,000 ft downstream from Main Street Bridge in Dayton, 0.7 mi upstream from Wolf Creek, 0.8 mi downstream from Mad River, and at mile 80.0.

DRAINAGE AREA.--2,511 mi<sup>2</sup>.

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.

REVISED RECORDS.--WSP 1385: 1917. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above National Geodetic Vertical Datum of 1929 as requested by cooperator (699.71 ft adjustment of 1929). 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.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 21 and July 2. Records good except those for period of estimated record, which are fair. Flood flow regulated by four retarding basins upstream from station beginning in 1920 on Mad River 6.5 mi upstream, on Stillwater River 10.5 mi upstream, on Great Miami River 11.5 mi upstream, and on Loramie Creek 40 mi upstream. Also see REMARKS for stations 03261500, 03261950 and 03269500. Water is diverted 6 mi upstream from station for use in Dayton; most of return flow from diversions bypasses station in Dayton sewer systems. Sediment data collected at this site 1951 to 1953.

COOPERATION.--Gage-height charts, tapes, and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--56 years (1929-85). 2,158 ft<sup>3</sup>/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,900 ft<sup>3</sup>/s Jan. 22, 1959, gage height, 35.45 ft in gage well, from graph based on gage readings; 36.0 ft, from outside floodmarks; minimum daily, 109 ft<sup>3</sup>/s Aug. 8, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913 reached a stage of 29.0 ft, site and datum then in use, discharge, 250,000 ft<sup>3</sup>/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,900 ft<sup>3</sup>/s Feb. 24, gage height 30.99 ft; minimum daily, 260 ft<sup>3</sup>/s Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	443	974	1880	9090	760	6670	15500	1650	1060	979	734	515
2	392	1260	1470	11500	740	4660	12100	5130	977	850	516	487
3	368	1800	1310	8420	740	3870	8350	8010	960	792	491	442
4	368	2250	1210	4770	720	3620	4910	5170	892	719	436	389
5	358	3100	1140	3580	720	4410	4040	3340	887	1080	402	345
6	354	2040	1140	2990	720	4230	5520	2590	872	908	413	351
7	385	1600	978	2730	700	3420	5570	2190	902	727	443	337
8	488	1330	927	2460	700	4360	4410	1920	887	688	552	313
9	465	1250	996	2170	700	5110	3580	1690	813	612	553	315
10	483	1420	1310	1940	700	3920	3050	1560	775	562	682	294
11	501	1890	1730	1800	700	4110	2690	1470	839	525	517	268
12	450	2390	2060	1600	1200	8800	2430	1420	1330	494	444	272
13	406	2280	2540	1500	1500	7020	2260	1340	1750	469	416	260
14	394	1750	5710	1400	1450	4610	2120	1260	2000	443	396	266
15	439	1450	7000	1300	1400	3640	2050	1620	1610	771	685	273
16	500	1270	4710	1200	1350	3030	2050	1830	1420	1280	964	273
17	476	1130	3420	1100	1300	2700	2170	2210	1320	932	602	273
18	478	1080	2650	1000	1250	2460	1910	2090	1370	752	608	273
19	473	1090	2220	900	1200	2280	1740	2120	1170	618	525	273
20	445	1050	2150	760	1200	2090	1620	2020	1020	542	452	273
21	577	957	2270	800	1200	1940	1560	1710	910	658	399	273
22	660	1030	5000	900	7110	1920	1500	1530	915	814	392	285
23	644	994	5300	1000	19700	1920	1460	1660	844	643	363	320
24	656	969	3460	980	24500	1930	1450	1460	787	556	761	396
25	638	941	2630	940	22600	1930	1390	1350	768	535	668	372
26	611	938	2140	920	19300	1820	1290	1220	740	562	634	310
27	545	929	1920	900	13800	1720	1290	1140	708	571	683	284
28	825	1760	1820	860	10500	1670	1250	1190	672	452	637	273
29	2070	2530	1900	840	---	2790	1170	1130	729	428	522	273
30	1450	2510	7410	820	---	8110	1130	1170	773	426	503	284
31	1020	---	10700	780	---	13800	---	1130	---	708	582	---
TOTAL	18362	45962	91101	71950	138460	124560	101560	65320	30700	21096	16975	9562
MEAN	592	1532	2939	2321	4945	4018	3385	2107	1023	681	548	319
MAX	2070	3100	10700	11500	24500	13800	15500	8010	2000	1280	964	515
MIN	354	929	927	760	700	1670	1130	1130	672	426	363	260
CAL YR 1984	TOTAL	888950		MEAN	2429	MAX	16600	MIN	313			
WTR YR 1985	TOTAL	735608		MEAN	2015	MAX	24500	MIN	260			

## 03270800 WOLF CREEK AT TROTWOOD, OH

LOCATION.--Lat 39°47'39", long 84°18'36", Montgomery County, Hydrologic Unit 05080002, on right bank 350 ft downstream from Union Road Bridge, 700 ft downstream from unnamed right bank tributary, 0.2 mi south of Trotwood, and 0.3 mi upstream from North Branch.

DRAINAGE AREA.--22.7 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 826.28 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 7 to Feb. 20. Records fair except for periods of estimated record, which are poor.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--23 years, 22.8 ft<sup>3</sup>/s, 13.64 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,010 ft<sup>3</sup>/s July 1, 1985, gage height, 6.19 ft, from rating curve extended above 1,000 ft<sup>3</sup>/s, maximum gage height, 6.47 ft May 24, 1968; no flow all or part of each day Sept. 8-17, Oct. 3, 1964, Sept. 16-19, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge during flood in January 1959, about 3,900 ft<sup>3</sup>/s 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 mi downstream with drainage area of 48.2 mi, adjusted to gage site by 0.8 power of the drainage-area ratio. Flood in March 1913 reached a stage of 9.4 ft, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec. 30	0500	733	3.13	July 1	2245	*3,010	*6.19
Feb. 22	1730	1040	3.67	Aug. 1	0015	808	3.27
Mar. 30	1445	733	3.13				

Minimum discharge, 0.11 ft<sup>3</sup>/s Sept. 28

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	10	22	220	5.0	23	113	56	5.0	351	122	2.4
2	.75	32	17	91	4.9	22	56	384	5.5	191	9.1	1.8
3	1.0	12	18	47	4.8	18	36	96	5.1	25	5.3	1.6
4	1.1	67	13	34	4.6	44	28	40	4.8	12	3.9	1.5
5	1.2	54	13	24	4.4	71	42	25	4.5	28	3.5	1.4
6	1.1	21	16	20	4.3	29	80	19	4.4	15	3.4	1.3
7	2.5	13	27	16	4.2	29	39	14	8.2	7.8	5.3	1.2
8	6.0	10	17	14	4.2	126	32	12	7.5	5.9	5.3	1.0
9	1.8	9.9	12	13	4.1	49	27	11	4.7	5.0	3.3	.76
10	1.2	26	53	12	4.0	32	24	10	3.7	4.1	2.7	.84
11	.97	100	57	11	4.0	94	22	9.7	6.7	3.5	2.3	.76
12	1.2	34	40	10	90	173	18	9.3	12	3.4	2.1	.64
13	1.5	20	79	9.4	70	53	17	8.5	11	3.3	2.1	.67
14	1.9	14	206	8.6	50	35	16	9.0	7.2	3.1	2.1	.56
15	3.2	13	77	8.0	35	25	15	23	6.0	4.8	3.5	.46
16	3.2	11	48	7.4	30	22	13	27	5.7	3.6	14	.41
17	3.0	9.4	33	6.8	23	19	11	28	4.1	2.5	4.6	.34
18	2.6	11	24	6.4	21	15	11	23	4.2	2.3	3.1	.30
19	2.9	13	26	6.2	20	14	10	27	3.5	2.1	2.3	.27
20	3.3	13	23	6.0	20	13	9.6	16	3.1	2.2	2.1	.26
21	6.8	10	98	6.2	48	11	9.1	13	2.7	2.6	1.9	.28
22	4.2	9.6	106	6.4	616	12	8.8	11	4.7	4.4	1.8	.27
23	2.4	9.5	43	6.6	420	12	8.6	9.9	3.7	2.4	1.5	1.1
24	1.7	9.1	31	6.4	192	11	9.3	8.8	2.6	1.9	98	2.7
25	1.6	8.6	21	6.2	93	11	8.6	7.7	2.5	1.7	32	.38
26	1.4	8.3	17	6.0	52	9.7	7.9	6.8	2.3	3.1	9.7	.17
27	1.4	8.6	17	5.8	33	9.8	8.9	6.5	2.2	3.0	5.9	.19
28	31	133	16	5.8	24	9.9	7.6	9.1	2.3	1.5	4.2	.18
29	42	60	53	5.6	---	128	6.8	6.6	2.3	1.4	3.5	.22
30	12	33	396	5.4	---	524	6.4	5.7	2.2	1.3	5.2	.54
31	7.4	---	99	5.2	---	344	---	5.8	---	26	3.2	---
TOTAL	152.71	783.0	1718	636.4	1885.5	1988.4	701.6	938.4	144.4	724.9	368.9	24.50
MEAN	4.93	26.1	55.4	20.5	67.3	64.1	23.4	30.3	4.81	23.4	11.9	.82
MAX	42	133	396	220	616	524	113	384	12	351	122	2.7
MIN	.39	8.3	12	5.2	4.0	9.7	6.4	5.7	2.2	1.3	1.5	.17
CFSM	.22	1.15	2.44	.90	2.96	2.82	1.03	1.33	.21	1.03	.52	.04
IN.	.25	1.28	2.82	1.04	3.09	3.26	1.15	1.54	.24	1.19	.60	.04
CAL YR 1984	TOTAL	9366.19	MEAN	25.6	MAX	396	MIN	.32	CFSM	1.13	IN.	15.31
WTR YR 1985	TOTAL	10066.71	MEAN	27.6	MAX	616	MIN	.17	CFSM	1.22	IN.	16.50



## GREAT MIAMI RIVER BASIN

03271500 GREAT MIAMI RIVER AT MIAMISBURG, OH

LOCATION.--Lat 39°38'40", long 84°17'23", in sec. 31, R.6, T.1, Montgomery County, Hydrologic Unit 05080002, on left bank 600 ft downstream from bridge on State Highway 725 at Miamisburg, 0.3 mi downstream from Bear Creek, 3.2 mi upstream from Crains Run, and at mile 66.4.

DRAINAGE AREA.--2,711 mi<sup>2</sup>.

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.

REVISED RECORDS.--WSP 743: 1929(M). WSP 1385: 1926. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 678.60 ft above National Geodetic Vertical Datum of 1929. Mar. 16, 1916 to Sept. 30, 1920, nonrecording gage at site 6.7 mi downstream at different datum. Aug. 29 to Sept. 16, 1924, nonrecording gage, and Sept. 17, 1924 to Sept. 30, 1935, water-stage recorder, at site 2.2 mi downstream at datum 677.06 ft above National Geodetic Vertical Datum.

REMARKS.--Estimated daily discharges: Jan. 12 to Feb. 21. Records fair. Diurnal fluctuation caused by powerplant 0.4 mi upstream from station. Flood flow regulated by retarding dams beginning in 1920 on Mad River 19 mi upstream, on Stillwater River 23 mi upstream, on Great Miami River 23 mi upstream and on Loramie Creek 52 mi upstream. Also see REMARKS for stations 03261500 and 03269500.

COOPERATION.--Gage-height charts, tapes, and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--48 years, 2,429 ft<sup>3</sup>/s, 12.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,800 ft<sup>3</sup>/s 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 ft<sup>3</sup>/s Sept. 7, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 26, 1913 reached a discharge of 257,000 ft<sup>3</sup>/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,700 ft<sup>3</sup>/s Feb. 24, gage height, 13.01 ft; minimum daily, 417 ft<sup>3</sup>/s Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	543	1290	2160	9560	1050	7250	15900	1970	1180	924	1630	644	
2	511	1700	1690	11500	1000	4970	12500	7640	1100	1640	714	612	
3	495	1930	1500	8840	960	4160	8760	8100	1070	1040	647	550	
4	487	2940	1380	5140	880	3950	5430	5790	1020	851	599	492	
5	477	3670	1290	3830	880	4880	4460	3730	976	1930	580	483	
6	444	2390	1290	3190	860	4570	5660	2850	972	3010	585	468	
7	490	1870	1160	2920	860	3760	5850	2440	1060	975	708	453	
8	684	1580	1050	2600	840	4690	4710	2140	1030	836	738	443	
9	611	1520	1090	2350	840	5470	3930	1920	905	754	683	445	
10	620	1990	1800	2150	840	4300	3430	1750	863	702	797	468	
11	641	2450	2150	1980	840	4530	3050	1670	906	657	693	432	
12	618	2660	2310	1800	1750	9010	2750	1640	1460	631	590	427	
13	542	2560	2720	1700	1700	7630	2570	1500	1760	629	569	443	
14	534	2020	5880	1600	1600	5070	2430	1440	2090	619	521	462	
15	594	1710	7050	1500	1500	4030	2360	1970	1750	666	931	450	
16	688	1510	5100	1400	1450	3390	2300	2160	1530	1420	1440	448	
17	666	1340	3670	1300	1400	2990	2460	2450	1420	1070	779	458	
18	663	1300	2870	1200	1400	2710	2220	2350	1490	863	734	467	
19	674	1300	2460	900	1350	2560	2000	2450	1210	735	689	452	
20	631	1250	2350	960	1300	2330	1840	2230	1080	678	620	462	
21	835	1180	2990	1000	1300	2150	1780	1940	1050	661	580	459	
22	924	1130	4890	1100	6960	2130	1680	1700	1030	1030	560	462	
23	854	1120	5570	1200	18600	2150	1690	1810	1010	806	546	473	
24	869	1110	3710	1300	24700	2160	1690	1630	909	699	1200	573	
25	870	1080	2830	1300	24200	2140	1640	1500	860	649	1080	500	
26	868	1110	2290	1250	20700	2050	1530	1350	798	707	784	461	
27	779	1100	2060	1200	15300	1980	1490	1260	750	732	829	423	
28	1010	2490	1990	1200	11000	1910	1420	1460	709	619	788	417	
29	2550	2800	2040	1150	---	2560	1370	1290	726	575	679	422	
30	1800	2800	7730	1100	---	9780	1330	1330	802	588	681	424	
31	1260	---	10800	1100	---	14400	---	1280	---	870	705	---	
TOTAL	24232	54900	97870	79320	146060	135660	110230	74740	33516	28566	23679	14173	
MEAN	782	1830	3157	2559	5216	4376	3674	2411	1117	921	764	472	
MAX	2550	3670	10800	11500	24700	14400	15900	8100	2090	3010	1630	644	
MIN	444	1080	1050	900	840	1910	1330	1260	709	575	521	417	
CFSM	.29	.68	1.16	.94	1.92	1.61	1.36	.89	.41	.34	.28	.17	
IN.	.33	.75	1.34	1.09	2.00	1.86	1.51	1.03	.46	.39	.32	.19	
CAL YR 1984	TOTAL	971312		MEAN	2654	MAX	17600	MIN	413	CFSM	.98	IN.	13.29
WTR YR 1985	TOTAL	822946		MEAN	2255	MAX	24700	MIN	417	CFSM	.83	IN.	11.29



GREAT MIAMI RIVER BASIN

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03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH

LOCATION.--Lat 39°38'14", long 84°17'33", Montgomery County, Hydrologic Unit 05080002, on left bank at Miamisburg, 1.0 mi downstream from Bear Creek, 0.6 mi downstream from discharge station at Miamisburg, 0.65 mi downstream from discharge station at Miamisburg, and at mile 65.75.

DRAINAGE AREA.--2,713 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to current year.

pH: June 1978 to current year.

WATER TEMPERATURES: June 1978 to current year.

DISSOLVED OXYGEN: June 1978 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument. Prior to June 1978, records published as 03271600, Great Miami River near Miamisburg, Ohio. See records of discharge for gaging station at Miamisburg (station 03271500).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,410 microsiemens Feb. 12, 1985; minimum 206 microsiemens Feb. 18, 1982.

pH: Maximum, 9.1 units July 7, 1979, July 13-15, 23, 1983; minimum, 7.0 units July 30, Aug. 30, 1979.

WATER TEMPERATURES: Maximum, 33.0°C July 20, 22, 1978; minimum, 0.0°C on several days during winter periods 1979, 1980, 1982, 1984.

DISSOLVED OXYGEN: Maximum, >20.0 mg/L July 12, 1978, Aug. 15, 16, 1982; minimum, 0.4 mg/L Aug. 27, 1981, Aug. 2, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum 1,410 microsiemens Feb. 12; minimum, 268 microsiemens July 2.

pH: Maximum, 8.9 units Apr. 16, 17, July 27; minimum, 7.4 units on several days during year.

WATER TEMPERATURES: Maximum, 28.5°C July 10, Aug. 14, Sept. 8, 9; minimum, 0.0°C on several days during winter period.

DISSOLVED OXYGEN: Maximum 18.0 mg/L June 26; minimum, 0.5 mg/L Oct. 17.

## GREAT MIAMI RIVER BASIN

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.---Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	846	788	826	756	606	707	732	712	723	528	508	518
2	892	838	873	706	636	664	740	718	727	532	486	501
3	944	866	911	734	702	721	772	734	746	542	488	508
4	920	878	903	738	552	641	790	760	772	624	546	585
5	918	878	899	592	538	567	796	758	780	668	628	643
6	938	882	917	684	594	636	860	786	808	694	664	675
7	924	856	901	742	688	703	872	818	840	840	694	748
8	892	766	843	770	740	748	882	828	844	806	730	747
9	870	772	842	774	740	760	982	860	937	748	726	738
10	884	836	860	770	594	675	978	776	882	808	730	753
11	878	834	858	692	662	678	858	822	834	868	808	834
12	884	834	871	708	680	691	820	766	774	816	776	795
13	932	850	896	742	686	713	778	728	761	782	766	774
14	920	870	900	740	718	731	722	602	647	800	774	786
15	900	872	886	770	736	745	604	588	597	798	792	791
16	928	834	881	778	760	767	634	598	611	808	788	799
17	904	828	865	790	762	776	678	630	649	852	804	814
18	906	856	888	798	758	774	712	680	691	878	822	846
19	926	870	901	792	766	781	722	704	715	900	836	869
20	908	860	890	804	774	788	740	724	730	886	868	879
21	892	796	854	816	782	802	738	638	685	922	886	911
22	788	722	751	830	798	814	682	606	658	930	890	915
23	832	776	809	832	800	811	604	592	598	898	860	879
24	818	788	806	838	814	822	638	602	616	868	824	845
25	834	794	820	840	822	828	666	636	648	850	832	841
26	842	802	823	856	820	840	704	666	680	888	852	868
27	848	804	834	848	684	808	734	706	714	870	828	846
28	872	692	816	738	590	642	754	726	739	854	822	841
29	714	552	591	674	602	631	754	646	736	850	806	829
30	630	586	600	708	672	686	628	510	548	840	810	825
31	710	636	664	---	---	---	526	490	506	852	810	828
MONTH	944	552	838	856	538	732	982	490	716	930	486	775
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	896	830	868	588	518	549	448	412	421	788	568	723
2	852	826	839	614	576	593	456	400	429	538	408	469
3	866	834	853	638	612	621	556	458	509	606	544	587
4	884	838	862	664	634	647	618	560	590	644	606	623
5	874	836	856	650	630	641	640	592	620	676	644	656
6	904	870	880	660	630	642	612	580	598	704	674	686
7	878	846	865	670	658	663	602	566	586	726	698	709
8	858	824	843	666	642	652	614	602	607	742	718	727
9	844	830	838	644	616	631	652	612	627	754	728	737
10	860	826	839	660	640	647	674	648	658	782	750	761
11	1230	882	1160	660	612	647	692	674	682	782	742	758
12	1410	1110	1270	640	526	574	700	678	687	772	734	749
13	1110	896	1000	572	524	538	716	696	705	778	736	748
14	890	816	843	620	574	594	710	692	702	782	740	763
15	846	788	819	662	600	634	716	694	705	790	626	705
16	800	782	790	688	662	672	716	688	706	692	638	675
17	810	780	792	710	684	693	712	682	698	696	638	669
18	866	814	847	718	684	701	720	692	706	696	650	679
19	872	838	851	726	712	719	740	700	717	704	656	677
20	880	844	858	746	724	732	740	700	718	740	702	715
21	872	840	856	748	738	743	742	708	721	746	726	738
22	834	518	712	750	734	741	750	706	728	760	730	745
23	512	336	412	746	726	739	762	722	739	762	736	749
24	332	308	314	752	734	742	768	740	654	774	750	758
25	322	316	320	738	710	722	764	732	746	786	754	769
26	366	322	339	742	714	724	778	742	760	788	746	763
27	436	368	401	750	716	734	784	740	761	762	688	738
28	516	436	476	760	728	742	776	738	757	750	700	722
29	---	---	---	760	614	717	782	746	763	770	734	758
30	---	---	---	574	446	474	782	750	768	764	736	752
31	---	---	---	472	454	467	---	---	---	770	730	754
MONTH	1410	308	772	760	446	656	784	400	669	790	408	712

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	784	742	760	788	520	708	676	426	489	804	764	790
2	774	738	754	644	268	407	740	492	661	830	766	790
3	792	752	772	718	552	648	786	740	766	896	798	854
4	824	782	806	760	726	750	802	766	807	904	842	877
5	826	796	813	790	466	737	822	772	787	876	824	854
6	832	796	815	602	334	444	850	814	837	872	840	862
7	832	758	798	766	610	708	864	700	805	892	838	862
8	800	780	786	782	752	768	786	700	751	908	866	887
9	822	770	796	826	782	805	852	740	807	904	864	887
10	810	782	797	828	750	796	800	748	776	918	868	899
11	862	752	826	842	766	812	824	772	797	936	880	904
12	806	700	749	874	800	835	830	786	808	950	896	926
13	754	676	713	882	828	859	876	808	850	962	912	934
14	724	696	704	876	834	851	894	842	862	966	928	949
15	756	720	730	860	820	837	882	600	790	950	914	930
16	764	730	745	832	626	723	656	508	569	980	908	937
17	774	740	752	666	626	652	686	628	651	996	920	953
18	782	756	769	752	724	734	736	654	710	988	950	968
19	802	766	783	790	762	777	776	742	768	958	922	938
20	820	768	795	828	760	803	846	774	821	978	928	948
21	810	778	796	824	774	796	860	814	841	988	938	964
22	984	798	868	808	686	745	894	830	863	976	934	948
23	826	732	778	772	704	739	886	826	858	930	892	911
24	862	724	759	778	748	765	894	580	760	932	858	900
25	864	766	798	800	758	786	620	508	538	866	824	842
26	864	790	828	828	770	796	758	632	717	910	848	880
27	878	818	851	810	730	773	766	726	745	936	872	905
28	892	836	862	814	754	787	810	772	795	958	904	932
29	892	802	862	802	774	791	820	778	806	960	912	937
30	888	846	865	876	800	843	840	772	813	954	912	929
31	---	---	---	888	680	825	824	760	792	---	---	---
MONTH	984	676	791	888	268	752	894	426	763	996	764	903
YEAR	1410	268	756									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.9	7.8	7.8	7.9	7.7	7.8	8.3	8.2	8.2	8.2	8.1	8.2
2	7.8	7.7	7.8	7.9	7.7	7.8	8.3	8.1	8.2	8.2	8.1	8.1
3	7.9	7.7	7.8	8.1	7.9	8.0	8.3	8.1	8.2	8.2	8.1	8.2
4	7.8	7.7	7.8	8.1	8.0	8.0	8.3	8.1	8.2	8.2	8.2	8.2
5	7.9	7.7	7.8	8.0	7.9	8.0	8.4	8.2	8.3	8.3	8.2	8.3
6	8.1	7.7	7.9	8.0	7.9	8.0	8.4	8.3	8.3	8.3	8.3	8.3
7	8.0	7.8	7.9	8.2	8.0	8.1	8.4	8.4	8.4	8.3	8.3	8.3
8	7.9	7.8	7.9	8.2	8.0	8.1	8.4	8.4	8.4	8.3	8.3	8.3
9	7.9	7.7	7.8	8.2	8.1	8.1	8.4	8.3	8.4	8.4	8.3	8.3
10	7.8	7.7	7.7	8.1	8.0	8.1	8.3	8.1	8.3	8.4	8.3	8.4
11	7.8	7.7	7.8	8.1	8.0	8.1	8.3	8.1	8.2	8.4	8.3	8.4
12	7.8	7.7	7.7	8.2	8.1	8.2	8.3	8.2	8.2	8.4	8.3	8.4
13	7.7	7.6	7.6	8.4	8.0	8.2	8.3	8.1	8.2	8.4	8.3	8.4
14	7.8	7.6	7.7	8.2	8.1	8.2	8.2	8.1	8.2	8.4	8.3	8.4
15	7.8	7.7	7.8	8.3	8.1	8.2	8.1	8.1	8.1	8.4	8.3	8.4
16	7.8	7.7	7.7	8.2	8.1	8.1	8.2	8.1	8.1	8.4	8.3	8.4
17	7.8	7.7	7.8	8.3	8.1	8.2	8.2	8.1	8.1	8.4	8.2	8.3
18	7.9	7.7	7.8	8.2	8.1	8.2	8.2	8.1	8.1	8.4	8.3	8.4
19	7.9	7.7	7.8	8.2	8.1	8.1	8.2	8.2	8.2	8.4	8.2	8.3
20	7.9	7.7	7.8	8.2	8.1	8.2	8.3	8.2	8.2	8.4	8.4	8.4
21	7.8	7.7	7.8	8.3	8.1	8.2	8.2	8.1	8.2	8.4	8.2	8.3
22	7.7	7.7	7.7	8.3	8.1	8.2	8.2	8.1	8.2	8.3	8.0	8.2
23	7.7	7.7	7.7	8.3	8.2	8.3	8.2	8.1	8.1	8.3	8.2	8.2
24	7.9	7.8	7.9	8.3	8.2	8.2	8.1	8.1	8.1	8.2	8.0	8.2
25	7.9	7.8	7.8	8.3	8.2	8.2	8.2	8.1	8.2	8.3	8.2	8.3
26	7.9	7.8	7.8	8.3	8.2	8.2	8.3	8.2	8.2	8.3	8.3	8.3
27	7.8	7.7	7.8	8.2	8.1	8.1	8.3	8.2	8.2	8.3	8.3	8.3
28	7.9	7.7	7.8	8.1	8.1	8.1	8.2	8.1	8.1	8.3	8.2	8.3
29	7.8	7.7	7.8	8.2	8.1	8.1	8.1	8.0	8.1	8.3	8.2	8.3
30	7.8	7.7	7.7	8.3	8.2	8.2	7.9	7.8	7.9	8.3	8.2	8.3
31	7.8	7.7	7.7	---	---	---	8.1	7.8	8.0	8.3	8.2	8.3
MONTH	8.1	7.6	7.8	8.4	7.7	8.1	8.4	7.8	8.2	8.4	8.0	8.3

# GREAT MIAMI RIVER BASIN

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	8.4	8.2	8.3	8.2	8.0	8.2	8.1	8.1	8.1	8.2	7.8	8.0
2	8.4	8.3	8.4	8.3	8.2	8.2	8.1	8.1	8.1	8.2	7.7	7.9
3	8.4	8.3	8.4	8.3	8.3	8.3	8.3	8.1	8.2	8.3	8.2	8.2
4	8.4	8.3	8.3	8.3	8.3	8.3	8.4	8.3	8.3	8.3	8.2	8.3
5	8.4	8.2	8.3	8.3	8.2	8.3	8.5	8.3	8.4	8.4	8.2	8.3
6	8.3	8.2	8.2	8.3	8.3	8.3	8.5	8.4	8.4	8.4	8.2	8.3
7	8.4	8.2	8.3	8.4	8.3	8.3	8.4	8.4	8.4	8.4	8.3	8.4
8	8.2	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.6	8.3	8.5
9	8.2	8.1	8.1	8.3	8.3	8.3	8.5	8.4	8.4	8.6	8.3	8.4
10	8.2	7.8	8.1	8.3	8.0	8.3	8.4	8.4	8.4	8.5	8.2	8.4
11	8.4	8.1	8.4	8.3	8.2	8.3	8.4	8.4	8.4	8.5	8.1	8.3
12	8.3	8.2	8.2	8.3	8.2	8.2	8.5	8.3	8.4	8.4	8.1	8.3
13	8.4	8.3	8.4	8.2	8.0	8.2	8.5	8.3	8.4	8.4	8.1	8.2
14	8.4	8.4	8.4	8.2	8.1	8.2	8.7	8.4	8.5	8.4	8.0	8.2
15	8.5	8.4	8.4	8.2	8.2	8.2	8.8	8.4	8.6	8.3	8.0	8.1
16	8.4	8.4	8.4	8.2	8.0	8.2	8.9	8.5	8.7	8.0	7.9	8.0
17	8.5	8.4	8.4	8.3	8.0	8.2	8.9	8.6	8.7	8.3	7.8	8.0
18	8.5	8.3	8.4	8.4	8.3	8.4	8.6	8.3	8.5	8.4	8.1	8.2
19	8.4	7.4	7.8	8.4	8.4	8.4	8.3	8.1	8.2	8.3	7.9	8.1
20	8.3	7.4	8.1	8.4	8.2	8.4	8.3	8.0	8.2	8.2	7.8	7.9
21	8.4	8.1	8.2	8.5	8.2	8.3	8.2	8.0	8.1	8.1	7.8	8.0
22	8.3	8.0	8.2	8.4	8.3	8.4	8.1	7.9	8.0	8.2	7.8	8.0
23	8.2	8.0	8.1	8.4	8.1	8.3	8.6	8.0	8.2	8.1	7.7	7.9
24	8.0	8.0	8.0	8.4	8.1	8.3	8.4	8.2	8.3	8.2	7.6	7.9
25	8.0	8.0	8.0	8.5	8.4	8.4	8.5	8.1	8.3	8.3	7.7	8.0
26	8.0	8.0	8.0	8.6	8.4	8.5	8.6	8.2	8.4	8.3	7.8	8.0
27	8.1	8.0	8.1	8.5	8.2	8.3	8.6	8.2	8.4	8.3	7.9	8.1
28	8.2	8.0	8.1	8.6	8.1	8.3	8.5	8.2	8.3	8.3	7.8	8.2
29	---	---	---	8.7	8.4	8.6	8.5	8.2	8.3	8.3	7.6	8.0
30	---	---	---	8.4	8.1	8.1	8.5	8.0	8.3	8.4	7.7	8.0
31	---	---	---	8.1	8.1	8.1	---	---	---	8.1	7.8	7.9
MONTH	8.5	7.4	8.2	8.7	8.0	8.3	8.9	7.9	8.3	8.6	7.6	8.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	8.3	7.8	8.1	---	---	---	7.9	7.4	7.6	8.4	7.8	8.1
2	8.3	7.8	8.0	7.7	7.6	7.6	8.4	7.4	7.8	8.3	7.7	8.0
3	8.3	7.9	8.1	8.1	7.6	7.8	8.6	7.7	8.1	8.1	7.7	7.9
4	8.5	8.0	8.2	8.4	7.7	8.0	8.7	7.9	8.3	8.1	7.7	7.9
5	8.0	7.8	7.9	8.6	7.8	8.2	8.5	7.9	8.1	7.9	7.6	7.8
6	8.2	7.7	7.8	8.2	7.5	7.7	8.2	7.8	8.0	7.7	7.6	7.7
7	8.0	7.8	7.9	8.4	7.6	8.0	8.0	7.7	7.8	7.7	7.5	7.6
8	7.9	7.7	7.8	8.7	7.9	8.2	8.4	7.7	7.9	7.6	7.5	7.6
9	8.1	7.7	7.9	8.8	8.0	8.4	8.5	7.7	8.1	7.6	7.5	7.5
10	8.1	7.8	7.9	8.8	7.9	8.4	8.7	7.9	8.3	7.6	7.4	7.5
11	8.0	7.7	7.8	8.5	7.9	8.2	8.7	7.8	8.2	7.7	7.5	7.6
12	8.3	8.0	8.2	8.4	7.8	8.1	8.6	7.9	8.3	7.7	7.6	7.6
13	---	---	---	8.2	7.8	8.0	8.6	8.0	8.3	7.8	7.6	7.6
14	---	---	---	8.2	7.7	8.0	8.5	7.9	8.2	7.9	7.7	7.7
15	---	---	---	8.3	7.7	7.9	8.2	7.8	8.0	8.0	7.8	7.9
16	---	---	---	8.1	7.5	7.9	7.9	7.4	7.6	8.2	7.8	7.9
17	---	---	---	7.7	7.5	7.6	7.7	7.4	7.5	8.1	7.8	7.9
18	---	---	---	8.6	7.9	8.3	7.9	7.4	7.6	7.9	7.7	7.8
19	---	---	---	8.7	7.8	8.2	8.2	7.6	7.8	7.9	7.7	7.8
20	---	---	---	8.4	7.9	8.1	8.3	7.7	7.9	8.0	7.7	7.8
21	---	---	---	8.2	7.7	7.9	8.1	7.7	7.9	7.9	7.7	7.8
22	---	---	---	8.4	7.7	8.0	8.3	7.7	8.0	7.9	7.7	7.8
23	---	---	---	8.7	7.6	8.1	8.4	7.7	8.1	7.8	7.7	7.7
24	---	---	---	8.6	7.7	8.2	8.1	7.6	7.8	7.8	7.7	7.7
25	---	---	---	8.8	7.8	8.3	7.7	7.4	7.5	7.7	7.5	7.6
26	---	---	---	8.5	7.9	8.2	7.7	7.5	7.6	7.7	7.6	7.6
27	---	---	---	8.9	7.7	8.2	7.8	7.4	7.5	7.8	7.6	7.7
28	---	---	---	8.8	7.9	8.4	7.9	7.5	7.6	7.8	7.7	7.7
29	---	---	---	8.9	8.1	8.5	8.1	7.5	7.7	7.9	7.7	7.8
30	---	---	---	8.6	8.0	8.3	8.1	7.6	7.8	7.8	7.7	7.7
31	---	---	---	8.4	7.7	8.0	8.4	7.6	8.0	---	---	---
MONTH	8.5	7.7	8.0	8.9	7.5	8.1	8.7	7.4	7.9	8.4	7.4	7.7
YEAR	8.9	7.4	8.1									



03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.0	14.0	14.5	17.0	16.0	16.5	7.5	6.5	7.0	9.5	8.0	9.0
2	16.5	13.5	15.0	16.5	13.5	15.0	7.5	6.5	7.0	8.5	6.5	7.5
3	17.5	14.5	16.0	13.5	12.0	12.5	7.5	5.5	6.5	6.5	5.0	6.0
4	18.0	15.5	16.5	13.0	12.0	12.5	5.5	4.5	5.0	5.0	4.5	5.0
5	19.0	16.5	17.5	13.0	12.0	12.5	4.5	3.0	3.5	5.0	4.5	4.5
6	18.5	17.0	18.0	12.0	11.0	11.5	3.0	1.0	2.5	4.5	4.0	4.5
7	18.0	17.5	18.0	11.0	10.0	10.5	1.0	.5	1.0	4.0	4.0	4.0
8	18.0	17.5	17.5	10.0	9.5	10.0	2.0	.5	1.5	4.0	3.5	3.5
9	19.0	17.5	18.5	11.0	10.0	10.5	3.0	1.5	2.5	3.5	2.0	2.5
10	20.5	18.0	19.0	12.0	11.0	11.5	5.0	3.0	4.0	2.0	1.5	2.0
11	20.5	18.5	19.5	11.5	10.0	10.5	5.5	4.5	5.0	2.0	1.5	1.5
12	20.0	19.0	19.0	9.5	8.5	9.0	7.5	5.5	7.0	1.5	1.0	1.0
13	19.5	18.0	18.5	8.5	7.0	8.0	8.0	7.5	8.0	1.0	.5	.5
14	20.5	18.0	19.0	8.0	7.5	7.5	8.5	8.0	8.0	1.0	.5	.5
15	20.0	19.0	19.5	8.5	8.0	8.5	9.5	8.5	9.0	.5	.0	.5
16	20.5	19.0	19.5	8.5	7.0	8.0	10.0	9.0	9.5	1.5	.5	1.0
17	20.0	18.5	19.5	7.0	6.5	7.0	11.0	10.0	10.5	1.5	1.0	1.0
18	19.5	17.0	18.5	7.0	6.5	6.5	11.0	9.0	10.0	1.5	1.0	1.0
19	20.0	18.5	19.0	6.5	6.5	6.5	9.0	8.0	8.5	1.0	.5	.5
20	18.5	17.0	17.5	6.0	5.0	5.5	8.0	7.0	7.5	.5	.5	.5
21	17.5	17.0	17.0	6.0	5.0	5.5	8.0	7.0	7.5	.5	.5	.5
22	17.0	15.5	16.0	5.5	4.5	5.0	8.0	7.0	7.5	.5	.0	.0
23	15.5	15.0	15.0	5.5	4.5	5.0	6.5	5.5	6.0	.0	.0	.0
24	15.5	14.5	15.0	6.0	4.5	5.5	5.5	5.0	5.0	.5	.0	.0
25	15.0	14.5	14.5	6.5	5.5	6.0	5.0	3.5	4.0	.5	.5	.5
26	17.0	15.0	16.0	7.0	6.0	6.5	3.5	2.5	3.0	.5	.0	.0
27	18.5	16.5	17.5	9.5	7.0	8.0	5.5	3.5	4.5	1.0	.0	.5
28	18.5	18.0	18.5	9.5	7.5	8.5	9.5	5.5	7.5	1.5	.5	1.0
29	18.5	17.5	17.5	7.5	7.0	7.0	11.5	9.5	10.5	1.5	1.0	1.0
30	17.5	16.5	17.0	7.0	6.5	6.5	11.5	9.0	10.5	2.0	1.0	1.5
31	17.0	16.0	16.5	---	---	---	9.0	8.0	8.5	2.0	1.5	2.0
MONTH	20.5	13.5	17.5	17.0	4.5	9.0	11.5	.5	6.5	9.5	.0	2.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	1.0	1.0	5.5	4.5	5.0	9.0	7.5	8.0	19.5	17.5	18.5
2	.5	.5	.5	7.0	5.0	6.0	8.0	7.0	7.5	17.0	14.5	15.5
3	.5	.0	.5	7.0	6.0	6.5	9.5	7.0	8.5	14.5	13.0	14.0
4	1.5	.0	.5	8.5	6.5	7.5	11.5	9.0	10.0	16.0	13.5	14.5
5	1.5	1.0	1.0	8.5	6.0	7.0	13.5	11.5	12.5	17.5	15.0	16.0
6	2.5	1.5	1.5	6.0	5.0	5.5	13.0	10.5	11.5	18.5	17.0	18.0
7	1.5	.5	1.0	6.0	4.5	5.0	10.5	9.5	9.5	19.0	17.5	18.5
8	1.5	.0	1.0	7.0	6.0	6.5	9.5	8.5	9.0	20.0	17.5	18.5
9	1.5	.0	1.0	8.0	6.0	7.0	8.5	7.5	8.0	20.5	18.0	19.0
10	1.5	1.0	1.0	8.5	7.0	7.5	8.5	6.5	7.5	20.5	19.0	19.5
11	2.5	1.5	2.0	9.0	8.5	8.5	11.5	8.5	9.5	21.5	19.5	20.0
12	2.5	1.0	2.0	9.0	8.0	8.5	14.0	11.5	12.5	22.0	20.0	20.5
13	1.0	.5	.5	8.0	7.0	7.5	15.5	14.0	14.5	23.5	20.5	22.0
14	1.0	.5	.5	8.0	6.5	7.0	16.5	15.0	16.0	23.5	22.0	22.5
15	1.5	.0	.5	8.5	7.0	8.0	17.0	16.0	16.5	23.0	21.5	22.0
16	1.5	.0	1.0	8.5	7.5	8.0	18.5	16.5	17.5	21.5	19.5	20.5
17	2.5	1.0	2.0	8.5	7.5	8.0	17.5	16.0	17.0	19.5	17.0	18.5
18	3.0	1.0	2.0	7.5	6.0	7.0	18.5	16.0	17.5	17.0	15.5	16.0
19	3.5	2.0	3.0	8.5	6.5	7.5	20.0	17.5	18.5	17.5	14.5	16.0
20	4.5	2.5	3.5	11.0	8.5	9.5	21.0	18.5	19.5	19.5	17.0	18.0
21	4.5	3.5	4.0	10.5	9.5	9.5	21.5	19.0	20.5	19.0	18.0	19.0
22	4.0	3.0	3.5	9.5	9.0	9.0	22.0	20.0	21.0	18.0	17.0	17.5
23	3.5	2.0	2.5	9.0	8.5	9.0	21.0	20.0	20.5	18.0	16.5	17.0
24	5.0	3.5	4.5	9.5	8.5	9.0	20.0	19.0	19.5	19.5	17.0	18.0
25	5.5	5.0	5.0	10.5	8.5	9.5	20.0	17.5	18.5	21.0	18.0	19.5
26	5.5	5.0	5.5	11.5	9.5	10.5	21.0	18.5	19.5	22.0	19.5	20.5
27	5.5	5.0	5.0	12.0	10.5	11.5	21.0	20.0	20.5	23.0	20.5	21.5
28	5.0	4.0	4.5	14.0	12.0	13.0	21.5	19.5	20.5	22.5	20.5	21.5
29	---	---	---	15.0	14.0	14.5	20.5	18.5	19.5	22.0	19.0	20.5
30	---	---	---	14.0	10.0	12.0	20.5	18.0	19.5	22.0	20.0	21.0
31	---	---	---	9.5	9.0	9.0	---	---	---	23.5	21.0	22.0
MONTH	5.5	.0	2.0	15.0	4.5	8.5	22.0	6.5	15.0	23.5	13.0	19.0

## GREAT MIAMI RIVER BASIN

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	24.0	21.5	22.5	24.0	22.5	23.5	24.5	23.0	24.0	25.0	22.0	23.5
2	23.0	22.0	22.5	22.0	18.0	20.0	24.5	21.5	23.0	25.5	23.0	24.5
3	23.0	21.5	22.5	24.5	21.0	22.5	25.0	22.0	23.5	26.0	24.0	25.0
4	22.0	21.0	21.0	25.0	22.5	24.0	26.0	23.0	24.5	26.5	24.5	25.5
5	21.0	20.0	20.5	25.0	21.5	24.0	25.0	23.0	24.0	26.5	25.0	25.5
6	22.5	19.5	21.0	23.0	20.5	21.5	24.5	22.5	23.5	27.0	24.5	25.5
7	22.0	20.5	21.0	25.0	21.5	23.0	24.0	22.5	23.5	28.0	25.0	26.5
8	23.5	20.0	21.5	26.0	23.0	24.5	26.0	23.0	24.5	28.5	26.0	27.5
9	24.5	22.0	23.0	27.5	24.5	26.0	26.5	23.5	25.0	28.5	26.5	27.5
10	24.0	22.5	23.5	28.5	25.5	27.0	27.0	24.5	26.0	27.5	25.5	27.0
11	24.0	22.0	23.0	27.0	24.5	25.5	27.0	24.5	25.5	25.5	23.0	24.5
12	22.0	18.5	20.0	26.5	23.5	25.0	26.0	24.0	25.0	23.0	20.0	21.5
13	18.5	17.0	18.0	26.0	24.5	25.0	28.0	25.0	26.5	21.0	18.5	19.5
14	19.0	17.0	18.0	27.0	24.5	25.5	28.5	26.0	27.5	21.0	18.0	19.0
15	19.0	18.5	19.0	27.5	25.5	26.5	28.0	25.0	26.5	21.0	18.0	19.5
16	21.5	18.5	19.5	26.5	24.5	25.5	24.5	24.0	24.0	21.5	18.0	20.0
17	20.5	20.0	20.5	25.0	23.5	24.0	26.0	23.5	24.5	22.0	19.0	20.5
18	22.0	19.5	20.5	26.5	24.0	26.0	27.0	24.0	25.5	22.5	19.5	21.0
19	22.0	20.0	21.0	27.5	24.0	25.5	26.5	24.5	25.5	23.5	20.5	22.0
20	22.5	20.0	21.5	26.0	24.5	25.0	25.5	23.5	24.5	24.0	21.0	22.0
21	23.0	21.0	22.0	27.0	24.0	25.5	25.0	23.0	24.0	24.0	21.0	22.5
22	22.5	21.0	22.0	26.5	24.0	25.5	25.0	22.5	23.5	24.0	21.0	22.5
23	24.5	21.0	22.5	26.0	23.0	24.5	25.0	22.5	24.0	22.5	21.5	22.0
24	25.0	22.5	24.0	25.5	22.5	24.5	24.0	21.5	23.0	21.5	19.5	20.5
25	26.5	23.0	25.0	26.5	24.0	25.5	22.5	21.0	22.0	20.5	18.0	19.5
26	26.5	23.5	25.0	26.0	24.5	25.5	23.0	21.5	22.0	20.5	19.0	19.5
27	26.0	23.0	24.5	26.5	23.5	25.0	24.0	21.5	22.5	19.5	17.5	18.5
28	25.5	22.5	24.0	26.0	23.5	25.0	24.5	22.0	23.5	20.0	17.0	18.0
29	25.0	22.5	24.0	27.0	24.0	25.5	25.0	23.0	24.0	20.0	17.0	18.5
30	25.0	22.5	23.5	27.0	25.0	26.0	25.5	23.0	24.0	19.5	18.0	18.5
31	---	---	---	26.5	25.0	25.5	25.0	22.5	24.0	---	---	---
MONTH	26.5	17.0	22.0	28.5	18.0	25.0	28.5	21.0	24.5	28.5	17.0	22.5
YEAR	28.5	.0	14.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6.1	4.5	5.2	6.3	4.9	5.5	10.1	9.4	9.7	10.9	10.5	10.7
2	5.4	4.0	4.7	6.7	5.6	6.2	10.0	9.1	9.5	11.3	10.7	11.0
3	6.1	4.1	4.9	8.5	6.6	7.6	9.8	8.8	9.1	13.0	11.3	12.3
4	5.1	3.7	4.4	7.7	7.1	7.4	10.6	9.1	9.8	12.9	12.5	12.8
5	6.2	3.2	4.4	7.9	7.2	7.7	10.7	9.7	10.0	12.8	12.4	12.6
6	7.5	2.8	4.8	9.0	7.4	8.1	11.4	10.0	10.6	12.9	12.5	12.6
7	6.3	3.0	4.4	9.8	8.3	9.0	11.8	11.2	11.5	12.9	12.4	12.5
8	5.0	3.2	4.0	9.7	8.5	8.9	11.4	10.7	11.2	13.0	12.4	12.6
9	5.8	2.6	3.9	9.0	8.0	8.5	11.0	10.4	10.7	13.5	12.6	13.1
10	6.0	2.7	4.1	8.7	7.8	8.3	10.5	9.5	10.0	13.8	13.3	13.6
11	5.7	2.8	3.9	9.1	7.9	8.6	10.1	9.3	9.7	13.8	13.1	13.5
12	5.4	2.6	3.7	10.1	9.2	9.8	11.3	9.9	10.6	13.9	13.2	13.6
13	4.6	2.5	3.4	10.9	10.1	10.4	10.0	9.5	9.8	14.0	11.3	13.7
14	5.6	2.4	3.5	10.9	10.2	10.5	10.2	9.8	10.0	13.7	13.2	13.5
15	5.0	2.5	3.4	10.6	9.1	10.1	10.5	10.1	10.4	13.8	13.1	13.4
16	3.0	.6	1.5	10.3	9.1	9.5	10.6	9.9	10.4	13.6	13.0	13.4
17	3.1	.5	1.4	10.7	9.2	10.0	10.0	9.1	9.5	13.2	12.8	13.0
18	5.9	1.8	3.5	10.4	9.4	9.9	9.5	8.9	9.2	13.2	12.7	12.9
19	5.1	2.3	3.3	10.5	9.5	9.8	10.2	9.2	9.8	13.5	12.5	13.0
20	5.4	2.3	3.5	10.4	9.4	9.8	10.9	9.7	10.4	13.8	13.5	13.6
21	3.9	3.1	3.4	10.7	9.5	10.0	10.5	9.9	10.1	13.8	12.9	13.2
22	4.2	3.3	3.8	10.6	9.7	10.1	10.9	9.8	10.4	12.8	12.2	12.4
23	4.5	3.5	3.9	10.8	9.7	10.3	11.5	10.6	11.2	12.7	12.2	12.4
24	6.6	5.4	6.0	10.3	9.5	9.9	11.4	10.7	11.0	12.5	12.0	12.2
25	5.4	4.7	5.0	9.9	9.2	9.6	11.8	10.8	11.4	13.0	12.0	12.4
26	5.9	4.5	5.0	9.6	8.8	9.2	12.5	11.6	12.0	12.9	12.4	12.7
27	6.0	3.9	4.7	8.8	7.9	8.5	12.1	10.7	11.5	12.9	12.4	12.7
28	4.7	3.3	4.1	9.1	7.7	8.4	10.7	9.0	10.1	13.0	12.2	12.5
29	6.2	4.9	5.6	9.9	9.2	9.6	9.1	8.0	8.6	13.1	12.2	12.6
30	6.2	5.7	6.0	10.2	9.7	9.9	9.8	8.4	9.1	13.0	12.3	12.6
31	5.8	5.2	5.6	---	---	---	11.0	9.7	10.4	13.1	12.1	12.4
MONTH	7.5	.5	4.2	10.9	4.9	9.0	12.5	8.0	10.3	14.0	10.5	12.8

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	13.2	12.4	12.7	12.5	12.0	12.3	11.7	11.3	11.5	6.1	3.4	4.3
2	13.3	12.6	12.9	13.4	11.9	12.3	12.0	11.6	11.8	8.4	5.3	7.0
3	13.4	12.9	13.2	12.4	11.8	12.1	11.6	11.0	11.4	9.4	8.4	9.0
4	13.3	12.6	13.0	11.9	11.1	11.6	11.0	10.1	10.7	9.2	8.1	8.8
5	13.1	12.1	12.7	12.0	10.9	11.5	10.4	9.6	10.0	8.6	7.4	8.1
6	13.0	12.0	12.3	12.9	12.0	12.5	10.6	9.4	10.1	8.2	6.8	7.4
7	13.5	12.3	12.9	13.0	12.0	12.3	11.3	10.5	11.0	8.8	6.1	7.4
8	13.6	12.7	13.1	12.2	11.9	12.0	11.6	11.0	11.3	10.1	5.8	7.6
9	13.6	12.8	13.1	12.2	11.8	12.0	12.3	11.3	11.8	10.1	5.5	7.4
10	13.5	12.7	13.1	12.2	11.8	11.9	12.7	11.3	12.0	9.8	4.7	7.0
11	12.8	11.8	12.6	11.6	11.1	11.3	12.1	10.4	11.3	10.4	4.2	6.9
12	12.1	11.5	11.8	12.0	11.3	11.7	12.1	9.3	10.5	9.6	4.4	6.5
13	13.7	12.1	12.8	12.3	12.0	12.2	12.1	8.3	9.9	11.5	3.8	7.1
14	14.0	13.0	13.4	12.4	11.8	12.2	13.6	8.1	10.5	11.0	3.6	6.9
15	14.1	13.2	13.6	12.2	11.5	11.8	14.3	7.4	10.4	6.3	3.7	5.1
16	14.3	13.2	13.7	11.9	11.1	11.5	15.0	6.4	10.2	6.8	4.0	5.2
17	14.5	13.0	13.6	11.9	11.1	11.4	14.8	6.7	10.4	7.0	4.5	5.8
18	14.4	12.9	13.5	12.6	11.4	11.8	11.1	5.2	7.6	8.1	6.7	7.4
19	14.5	12.4	13.3	12.9	10.7	11.6	8.0	2.6	5.2	9.4	7.6	8.4
20	14.9	12.2	13.3	12.1	10.0	10.7	8.2	3.4	5.5	9.1	7.0	7.9
21	14.7	12.1	13.2	12.3	9.6	10.7	9.3	3.3	5.7	7.3	5.8	6.5
22	13.4	12.2	12.7	11.3	9.0	10.1	8.2	3.6	5.5	8.8	5.9	7.2
23	13.3	12.8	13.1	10.7	8.6	9.5	10.2	2.8	5.7	8.9	6.3	7.3
24	14.8	12.6	12.9	11.9	8.9	10.2	8.3	5.7	5.8	9.1	6.2	7.4
25	13.6	12.6	13.4	12.5	9.0	10.5	10.4	4.6	7.0	11.8	5.4	8.2
26	12.7	12.5	12.6	12.5	8.4	10.0	11.1	4.1	7.3	11.9	5.3	8.4
27	13.5	12.4	12.6	10.0	6.7	8.2	10.0	3.9	6.6	12.7	4.6	8.4
28	12.8	12.5	12.7	12.7	6.0	8.0	10.1	4.1	6.8	7.6	4.0	5.7
29	---	---	---	12.0	7.5	9.4	11.0	4.5	7.3	12.0	4.1	7.7
30	---	---	---	10.7	8.4	9.6	10.7	4.6	7.3	11.3	4.5	7.8
31	---	---	---	11.2	10.7	11.1	---	---	---	11.0	3.8	7.1
MONTH	14.9	11.5	13.0	13.4	6.0	11.1	15.0	2.6	8.9	12.7	3.4	7.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	12.7	3.0	7.7	---	---	---	4.4	2.8	3.6	10.0	2.3	5.7
2	11.8	3.4	7.3	5.5	4.7	5.1	9.7	2.7	5.6	8.7	2.0	5.0
3	12.6	3.4	7.8	7.8	4.2	5.5	11.7	2.8	6.8	8.3	1.8	4.7
4	11.0	3.9	7.1	10.1	4.0	6.6	13.3	2.8	7.7	7.3	1.5	4.0
5	10.2	4.2	6.9	11.5	3.9	7.0	7.2	2.1	4.3	5.7	1.3	3.2
6	12.5	3.9	7.8	6.4	3.2	4.2	7.7	1.8	4.4	---	---	---
7	7.5	3.6	5.3	10.7	3.4	6.6	5.8	2.2	3.8	---	---	---
8	11.3	3.2	6.9	12.0	4.4	8.0	10.0	2.5	5.4	---	---	---
9	13.1	3.6	7.8	14.4	4.0	8.6	11.7	2.3	6.4	---	---	---
10	11.1	3.7	7.6	14.2	3.6	8.8	12.4	2.4	6.6	---	---	---
11	10.2	3.2	6.4	9.4	3.7	7.1	11.9	2.1	6.3	4.8	1.7	3.3
12	6.8	3.4	4.9	11.9	3.2	7.1	11.4	2.4	6.8	4.4	1.6	2.7
13	10.2	5.3	7.7	8.9	2.8	5.0	12.4	1.9	6.8	5.4	2.1	3.4
14	11.1	6.9	8.8	8.8	2.3	5.0	9.3	1.9	5.7	6.1	2.6	4.0
15	9.2	6.8	7.9	8.8	2.2	4.8	5.7	1.8	3.4	6.7	2.8	4.4
16	9.9	5.8	7.7	8.6	2.7	4.8	3.7	2.0	2.8	7.8	2.9	4.8
17	8.3	4.9	6.2	5.3	2.5	3.3	5.3	2.0	3.2	7.4	2.6	4.6
18	10.4	4.9	7.3	12.6	5.5	9.7	7.4	2.1	4.3	6.7	2.3	4.1
19	12.2	4.8	8.1	13.9	3.3	7.9	9.0	2.1	5.0	7.2	2.2	4.3
20	12.8	4.8	8.5	10.5	2.7	5.9	10.6	2.4	5.8	8.3	2.0	4.4
21	13.5	4.5	8.5	9.8	2.5	5.6	9.1	2.4	5.3	7.4	1.8	4.0
22	12.8	4.4	7.9	10.0	2.5	5.6	10.3	2.4	5.9	6.8	1.7	3.7
23	15.4	4.7	9.9	14.1	2.7	7.6	11.7	2.5	7.1	4.6	1.5	2.8
24	17.3	3.8	9.6	13.2	3.2	8.1	6.1	2.2	3.7	4.7	1.5	2.8
25	17.6	3.0	9.5	14.3	2.8	8.1	5.3	2.9	3.8	3.6	1.7	2.5
26	18.0	3.9	10.4	11.2	3.0	6.7	6.7	2.7	4.4	3.6	1.8	2.4
27	16.9	3.7	10.3	15.7	2.2	7.9	7.5	2.6	4.5	4.5	1.9	2.8
28	17.0	3.1	9.3	15.8	3.1	8.9	7.2	2.5	4.5	4.2	2.1	2.8
29	13.0	3.2	8.4	14.8	3.7	9.2	7.9	2.1	4.6	5.0	2.1	3.2
30	---	---	---	12.2	2.6	7.5	6.8	2.1	4.1	4.2	2.0	2.8
31	---	---	---	6.9	1.8	3.7	9.2	2.0	5.0	---	---	---
MONTH	18.0	3.0	7.9	15.8	1.8	6.7	13.3	1.8	5.1	10.0	1.3	3.7
YEAR	18.0	.5	8.4									

## GREAT MIAMI RIVER BASIN

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued  
 SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	832	727	724	520	874	545	417	734	754	772	452	790
2	878	661	726	489	840	587	425	459	750	389	685	790
3	916	724	744	501	853	616	513	592	772	669	760	865
4	906	620	770	577	863	645	590	623	808	752	391	880
5	902	570	778	638	856	641	622	650	814	771	811	858
6	922	631	803	670	876	639	602	679	813	412	841	866
7	906	696	834	730	868	662	587	702	791	724	821	864
8	851	745	832	738	844	651	606	725	785	769	754	890
9	855	764	941	738	837	632	623	736	795	803	810	891
10	857	671	876	758	836	644	654	756	796	802	776	905
11	858	681	832	830	1110	654	680	759	830	810	792	906
12	877	687	780	792	1280	567	686	748	742	839	807	927
13	898	704	766	775	1000	531	704	745	703	853	854	936
14	904	734	643	783	840	590	705	761	700	844	854	950
15	889	742	600	797	817	630	703	708	727	832	848	932
16	880	766	607	800	789	670	711	677	743	741	555	929
17	864	775	637	810	788	690	702	673	751	658	643	950
18	892	766	685	841	848	696	707	677	768	732	715	968
19	903	770	714	866	849	718	713	678	783	777	770	938
20	895	786	730	879	855	730	718	708	795	809	821	943
21	860	801	683	915	853	742	717	740	797	794	842	964
22	756	814	662	923	743	740	727	741	843	742	858	948
23	809	805	599	875	398	740	736	749	777	739	860	911
24	810	818	613	843	313	742	754	756	756	758	740	896
25	821	825	644	842	320	724	746	769	784	775	523	841
26	820	841	676	868	336	721	761	759	823	790	725	883
27	839	819	710	842	401	733	760	736	848	769	747	911
28	839	619	736	842	473	738	757	718	856	785	799	936
29	576	624	745	826	---	735	763	761	867	791	809	938
30	595	683	536	826	---	470	768	754	867	842	818	930
31	661	---	507	829	---	468	---	755	---	830	791	---
MEAN	841	729	714	773	770	655	672	711	788	754	751	905

WTR YR 1985 MEAN 755 MAX 1280 MIN 313  
 PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
 MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.8	8.2	8.2	8.3	8.2	8.1	8.0	8.1	---	7.6	8.2
2	7.8	7.9	8.2	8.1	8.4	8.2	8.1	7.8	8.0	7.6	7.8	8.1
3	7.8	8.0	8.2	8.2	8.4	8.3	8.3	8.2	8.2	7.8	8.1	7.9
4	7.8	8.0	8.2	8.2	8.3	8.3	8.3	8.3	8.2	8.0	8.4	7.9
5	7.8	8.0	8.3	8.3	8.3	8.3	8.4	8.3	7.9	8.1	8.1	7.8
6	7.9	8.0	8.3	8.3	8.2	8.3	8.4	8.3	7.8	7.6	7.9	7.7
7	7.9	8.1	8.4	8.3	8.3	8.3	8.4	8.4	7.9	8.0	7.8	7.6
8	7.9	8.1	8.4	8.3	8.2	8.3	8.4	8.5	7.8	8.3	7.8	7.6
9	7.8	8.1	8.4	8.3	8.1	8.3	8.4	8.4	8.0	8.4	8.0	7.5
10	7.7	8.1	8.3	8.4	8.1	8.3	8.4	8.4	7.9	8.4	8.3	7.5
11	7.8	8.1	8.2	8.4	8.3	8.3	8.4	8.3	7.8	8.2	8.2	7.6
12	7.7	8.2	8.2	8.4	8.2	8.2	8.4	8.2	8.2	8.1	8.4	7.6
13	7.7	8.2	8.2	8.4	8.4	8.2	8.4	8.2	---	7.9	8.4	7.6
14	7.6	8.2	8.2	8.4	8.4	8.2	8.5	8.1	---	8.0	8.3	7.7
15	7.8	8.2	8.1	8.4	8.4	8.2	8.7	8.1	---	7.9	7.9	7.8
16	7.7	8.2	8.1	8.4	8.4	8.2	8.7	8.0	---	8.0	7.6	7.9
17	7.8	8.2	8.1	8.3	8.4	8.2	8.7	7.9	---	7.5	7.5	7.9
18	7.8	8.2	8.1	8.4	8.4	8.4	8.5	8.2	---	8.3	7.6	7.8
19	7.8	8.2	8.2	8.3	7.6	8.4	8.2	8.0	---	8.3	7.8	7.7
20	7.8	8.2	8.2	8.4	8.2	8.4	8.2	7.9	---	8.1	7.9	7.8
21	7.8	8.2	8.2	8.3	8.2	8.3	8.1	8.0	---	7.9	7.9	7.7
22	7.7	8.2	8.2	8.2	8.2	8.4	8.0	8.0	---	8.0	7.9	7.8
23	7.7	8.3	8.1	8.2	8.1	8.3	8.2	8.0	---	8.1	8.1	7.7
24	7.9	8.2	8.1	8.2	8.0	8.4	8.3	7.9	---	8.2	7.8	7.7
25	7.8	8.2	8.2	8.3	8.0	8.4	8.3	8.0	---	8.3	7.5	7.6
26	7.8	8.2	8.2	8.3	8.0	8.4	8.4	8.0	---	8.2	7.6	7.6
27	7.8	8.1	8.2	8.3	8.1	8.3	8.3	8.1	---	8.2	7.5	7.6
28	7.8	8.1	8.1	8.3	8.1	8.2	8.3	8.2	---	8.4	7.6	7.7
29	7.8	8.1	8.1	8.3	---	8.6	8.3	8.0	---	8.6	---	7.7
30	7.7	8.2	7.9	8.3	---	8.1	8.3	7.9	---	8.4	7.8	7.7
31	7.7	---	---	8.3	---	8.1	---	7.9	---	7.9	7.9	---
MEAN	7.8	8.1	8.2	8.3	8.2	8.3	8.4	8.1	8.0	8.1	7.9	7.7

WTR YR 1985 MEAN 8.1 MAX 8.7 MIN 7.5



## GREAT MIAMI RIVER BASIN

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03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH.--Continued  
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	16.5	7.0	9.0	1.0	5.0	8.0	19.0	22.5	23.5	23.5	24.0
2	15.0	15.0	7.0	7.5	.5	6.0	7.5	15.0	22.5	20.0	23.0	24.5
3	15.5	12.0	6.5	5.5	.5	6.5	8.5	14.0	22.5	22.5	23.5	25.0
4	16.5	12.5	5.0	4.5	.5	7.5	10.0	14.5	21.0	23.5	24.5	26.0
5	17.5	12.5	4.0	4.5	1.0	6.5	12.0	16.0	20.5	24.0	24.0	25.5
6	18.0	11.5	2.5	4.0	1.5	5.5	11.0	17.5	21.0	21.0	23.0	25.5
7	18.0	10.5	1.0	4.0	1.0	5.0	9.5	18.5	21.0	22.5	23.5	26.5
8	17.5	10.0	1.5	3.5	1.0	6.5	9.0	18.5	21.0	24.5	24.0	27.0
9	18.5	10.5	2.5	2.5	1.0	7.0	8.0	19.0	23.0	26.0	25.0	27.5
10	19.0	11.5	4.0	2.0	1.5	7.5	8.0	19.5	23.5	27.0	26.0	27.0
11	19.5	10.5	5.0	1.5	2.0	8.5	9.5	20.0	22.5	25.0	25.5	24.5
12	19.0	9.0	6.0	1.0	2.0	8.5	12.5	20.5	20.0	25.0	25.5	22.0
13	18.5	8.0	8.0	1.0	.5	7.5	14.5	21.5	18.0	25.0	26.5	19.5
14	19.0	8.0	8.0	.5	.5	7.0	16.0	22.5	18.0	25.5	27.5	19.0
15	19.5	8.5	9.0	.5	.5	8.0	16.5	22.0	18.5	26.0	26.5	19.0
16	19.5	8.0	9.5	1.0	1.0	8.0	17.5	20.5	19.0	25.5	24.0	19.5
17	19.5	7.0	10.5	1.5	2.0	8.0	17.0	18.0	20.5	24.5	24.0	20.0
18	18.5	6.5	10.0	1.0	2.0	7.0	17.5	16.0	20.5	26.0	25.5	21.0
19	19.0	6.5	8.5	.5	3.0	7.5	18.5	15.5	21.0	25.5	25.5	22.0
20	17.5	5.5	7.5	.5	3.5	10.0	19.5	17.5	21.0	25.0	24.5	22.0
21	17.0	5.5	7.0	.5	4.0	9.5	20.5	18.5	22.0	25.0	24.0	22.5
22	16.5	5.0	7.5	.0	4.0	9.0	21.0	17.5	22.0	25.5	23.5	22.5
23	15.0	5.0	5.5	.0	3.0	9.0	20.5	17.0	22.5	24.5	24.0	22.0
24	15.0	5.5	5.0	.0	4.5	9.0	19.5	17.5	23.5	24.5	22.5	20.5
25	15.0	6.0	4.0	.5	5.0	9.5	18.5	19.0	24.5	25.5	22.0	19.5
26	16.0	7.0	3.0	.0	5.5	10.5	19.5	20.5	25.5	25.5	22.5	19.5
27	17.5	8.5	4.0	.5	5.0	11.0	20.5	21.5	25.0	25.0	22.5	18.5
28	18.5	8.5	7.5	1.0	4.5	13.0	20.5	21.0	24.5	25.0	23.5	18.0
29	17.5	7.0	11.0	1.5	---	14.5	19.5	20.0	24.0	25.5	23.5	18.5
30	17.0	6.5	10.0	1.5	---	11.5	19.5	21.0	23.5	26.0	24.0	18.5
31	16.5	---	8.5	2.0	---	9.5	---	22.0	---	25.5	24.0	---
MEAN	17.5	9.0	6.5	2.0	2.0	8.5	15.0	18.5	22.0	24.5	24.0	22.0

WTR YR 1985 MEAN 14.5 MAX 27.5 MIN .0  
OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEDIAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.6	9.7	10.6	12.7	12.4	11.6	4.5	8.0	6.0	3.5	5.5
2	4.7	6.1	9.5	11.0	13.0	12.2	11.8	6.6	7.4	5.1	5.2	4.7
3	4.7	7.6	9.1	12.6	13.2	12.1	11.5	9.1	7.5	5.2	6.7	4.3
4	4.4	7.5	9.8	12.6	13.0	11.7	10.8	8.9	7.1	6.2	7.8	3.6
5	4.0	7.7	10.0	12.6	12.7	11.7	10.0	8.1	6.7	6.6	4.4	3.0
6	4.3	8.3	10.7	12.6	12.1	12.6	10.4	7.3	7.3	3.8	4.3	---
7	4.1	9.0	11.6	12.5	12.8	12.3	11.1	7.1	5.3	6.2	3.8	---
8	3.9	8.8	11.2	12.8	13.2	12.0	11.3	7.5	6.9	7.7	4.5	---
9	3.7	8.5	10.7	13.2	13.1	12.1	11.9	7.0	7.9	8.1	6.0	---
10	3.9	8.4	10.1	13.5	13.1	11.9	11.9	6.7	7.4	8.8	6.2	---
11	3.8	8.8	9.6	13.5	12.6	11.2	11.2	6.5	6.0	7.7	5.6	3.3
12	3.4	9.9	10.6	13.7	11.7	11.8	10.3	5.8	4.8	7.1	6.7	2.5
13	3.1	10.3	9.8	13.9	13.1	12.2	9.5	6.9	8.1	4.4	6.6	3.1
14	3.0	10.5	10.0	13.5	13.5	12.2	10.1	6.3	8.8	4.4	5.9	3.6
15	3.2	10.1	10.5	13.3	13.6	11.8	10.2	5.0	7.8	4.1	3.2	4.0
16	1.1	9.5	10.5	13.4	13.6	11.5	9.7	5.2	7.4	4.1	2.8	4.2
17	1.0	10.1	9.7	12.9	13.6	11.5	10.2	5.8	6.0	3.0	3.0	4.0
18	3.4	9.9	9.3	12.9	13.4	11.7	6.7	7.5	7.1	10.1	4.2	3.6
19	3.0	9.8	9.8	13.1	13.2	11.4	4.9	8.2	8.2	8.1	5.1	3.5
20	3.5	9.8	10.2	13.7	13.1	10.5	5.1	7.7	8.4	5.1	5.3	3.4
21	3.4	9.9	10.1	13.0	13.1	10.6	5.3	6.5	7.7	5.3	4.7	3.2
22	3.7	10.0	10.4	12.4	12.7	10.0	5.2	7.2	7.1	4.8	5.8	2.9
23	3.9	10.4	11.2	12.4	13.2	9.3	5.5	7.1	10.0	7.5	6.5	2.5
24	6.1	10.0	11.0	12.2	12.8	10.2	5.5	7.2	8.7	7.6	3.7	2.6
25	4.9	9.6	11.4	12.4	13.4	10.2	6.7	7.7	10.0	8.9	3.8	2.3
26	4.8	9.2	12.0	12.6	12.6	9.5	7.1	8.5	10.3	6.6	4.2	2.1
27	4.5	8.6	11.6	12.7	12.6	8.1	6.3	8.0	10.3	8.1	4.3	2.5
28	4.2	8.5	10.4	12.5	12.7	6.9	6.7	5.7	9.0	8.5	4.4	2.5
29	5.9	9.7	8.6	12.6	---	9.4	6.9	7.9	8.1	8.4	---	2.7
30	6.0	9.9	9.2	12.5	---	10.0	6.9	7.6	---	7.6	3.8	2.5
31	5.6	---	10.7	12.4	---	11.1	---	6.7	---	3.5	4.6	---
MEAN	4.0	9.1	10.3	12.8	13.0	11.0	8.7	7.0	7.8	6.4	4.9	3.3
WTR YR 1985	MEAN	8.2	MAX	13.9	MIN	1.0						

## GREAT MIAMI RIVER BASIN

03271800 TWIN CREEK NEAR INGOMAR, OH

LOCATION.--Lat 39°42'28", long 84°31'30", in sec. 15, T.5 N., R.3 E., Preble County, Hydrologic Unit 05080002, on left bank at downstream side of bridge on Halderman Road, 0.5 mi downstream from Bantas Fork, 1.4 mi west of Ingomar, and 4.8 mi upstream from Aukerman Creek.

DRAINAGE AREA.--197 mi<sup>2</sup>.

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 7 to Feb. 21. Records good except for period of estimated record, which are fair. Sediment data collected at this site 1970 to 1974.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--23 years, 194 ft<sup>3</sup>/s, 13.37 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,300 ft<sup>3</sup>/s Mar. 4, 1963, gage height, 14.40 ft, from rating curve extended above 7,000 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 18.8 ft; minimum daily, 2.5 ft<sup>3</sup>/s Sept. 12-14, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959 reached a stage of 18.8 ft, discharge, 30,300 ft<sup>3</sup>/s, computed by Miami Conservancy District. Flood of Mar. 25, 1913 reached a stage of 28.0 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4700 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 22	2315	*5,280	*7.63	No other peak greater than base discharge.			

Minimum discharge, 6.0 ft<sup>3</sup>/s Sept. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	13	119	205	1870	45	271	1270	133	52	46	148	16	
2	11	512	157	1220	44	248	617	2340	49	289	95	15	
3	10	243	155	528	43	214	404	1110	48	188	43	13	
4	9.5	305	133	348	41	257	296	460	46	104	29	12	
5	9.3	404	116	255	40	560	307	279	43	312	23	11	
6	9.2	212	117	206	39	278	709	203	42	159	22	11	
7	10	144	95	170	38	234	353	161	45	67	26	10	
8	18	113	111	150	37	1080	276	133	71	48	42	9.9	
9	22	100	91	130	36	543	233	114	61	39	25	9.2	
10	20	142	172	110	35	328	205	103	49	34	20	8.8	
11	15	598	399	100	35	702	191	95	47	30	18	8.4	
12	13	362	304	90	340	1390	167	90	184	27	16	8.1	
13	13	213	523	84	300	494	155	82	187	26	15	7.8	
14	12	158	1800	80	250	328	149	76	128	25	13	7.6	
15	31	137	927	74	210	252	161	91	92	30	17	7.7	
16	60	118	484	72	180	214	157	191	84	32	47	7.8	
17	43	93	324	66	140	195	124	187	70	26	30	7.1	
18	32	89	242	64	130	165	113	149	62	21	23	7.0	
19	26	98	218	60	120	149	106	289	56	19	19	6.8	
20	22	101	203	58	115	141	98	180	49	18	17	6.6	
21	29	88	507	58	130	124	90	138	43	42	15	6.6	
22	71	78	1740	58	2650	119	86	113	43	56	15	6.2	
23	52	75	559	58	4570	124	82	98	41	30	14	6.3	
24	41	74	331	58	2700	119	82	87	36	23	73	9.1	
25	34	70	231	56	1270	110	81	78	33	20	94	8.6	
26	30	65	178	56	701	95	72	71	30	35	41	8.3	
27	27	63	165	54	450	96	73	66	28	33	28	7.8	
28	127	789	156	52	313	103	71	71	26	22	22	7.8	
29	618	594	198	50	---	257	64	64	24	19	19	7.6	
30	266	296	2670	49	---	2970	60	58	23	17	19	7.4	
31	144	---	1100	47	---	3090	---	56	---	20	19	---	
TOTAL	1838.0	6453	14611	6331	15002	15250	6852	7366	1792	1857	1047	266.5	
MEAN	59.3	215	471	204	536	492	228	238	59.7	59.9	33.8	8.88	
MAX	618	789	2670	1870	4570	3090	1270	2340	187	312	148	16	
MIN	9.2	63	91	47	35	95	60	56	23	17	13	6.2	
CFSM	.30	1.09	2.39	1.04	2.72	2.50	1.16	1.21	.30	.30	.17	.05	
IN.	.35	1.22	2.76	1.20	2.83	2.88	1.29	1.39	.34	.35	.20	.05	
CAL YR 1984	TOTAL	79462.3		MEAN	217	MAX	3020	MIN	7.0	CFSM	1.10	IN.	14.96
WTR YR 1985	TOTAL	78665.5		MEAN	216	MAX	4570	MIN	6.2	CFSM	1.10	IN.	14.85

## GREAT MIAMI RIVER BASIN

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03272000 TWIN CREEK NEAR GERMANTOWN, OH

LOCATION.--Lat 39°38'10", long 84°23'48", in NW 1/4 sec. 11, T.3 N., R.4 E., Montgomery County, Hydrologic Unit 05080002, on right bank 0.3 mi downstream from Germantown Dam, 1.5 mi northwest of Germantown, and 3 mi upstream from Little Twin Creek.

DRAINAGE AREA.--275 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1914 to December 1923, December 1926 to current year.

REVISED RECORDS.--WSP 403: 1914(M). WSP 1385: 1915(M).

GAGE.--Water-stage recorder. Datum of gage is 700.24 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 18, 1926, nonrecording gage at site 1 mi downstream at datum 12.49 ft higher.

REMARKS.--Estimated daily discharge: Jan. 7 to Feb. 22 and Feb. 25 to Mar. 1. Records fair except for estimated periods which are poor. Flood flow regulated by Germantown retarding basin, 0.3 mi upstream beginning in 1920.

COOPERATION.--Gage-height tapes, and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--67 years (1914-23, 1927-85), 264 ft<sup>3</sup>/s, 13.04 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,390 ft<sup>3</sup>/s 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 ft<sup>3</sup>/s Sept. 25, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 18.3 ft, original site and datum, discharge, 66,000 ft<sup>3</sup>/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,310 ft<sup>3</sup>/s Feb. 24, gage height 25.76 ft; minimum, 9.1 ft<sup>3</sup>/s Sept. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	19	141	288	2140	64	390	2010	140	75	58	116	24	
2	17	560	216	1880	62	357	867	3170	72	360	143	22	
3	16	342	202	792	60	304	569	1820	69	237	73	20	
4	14	344	182	519	60	331	424	735	66	142	47	18	
5	14	615	158	378	58	866	375	435	63	504	37	17	
6	14	315	158	293	56	444	872	311	61	1080	34	16	
7	15	205	162	240	54	337	507	246	63	198	35	16	
8	23	159	170	210	52	1330	398	203	77	123	52	15	
9	26	144	128	180	52	843	333	176	85	94	41	15	
10	29	258	274	160	50	492	290	159	69	82	32	14	
11	27	776	585	140	50	841	268	147	61	69	28	14	
12	23	559	444	130	280	2110	238	141	123	61	26	13	
13	21	313	512	120	260	804	218	129	211	56	24	12	
14	20	225	2010	110	250	513	208	119	155	54	23	12	
15	19	191	1320	110	230	381	200	144	115	50	27	12	
16	49	169	678	100	220	310	231	204	101	56	46	11	
17	61	138	454	94	210	278	178	259	91	49	51	11	
18	44	128	328	88	190	237	160	201	80	41	35	11	
19	35	138	279	84	180	211	152	303	72	36	29	10	
20	31	149	268	80	170	198	141	244	62	33	26	9.9	
21	32	132	682	80	160	178	130	182	55	34	23	9.5	
22	58	116	2130	80	1000	169	123	158	52	94	23	9.4	
23	71	110	812	80	5190	173	117	137	54	54	22	9.5	
24	57	106	459	80	4660	168	117	123	47	41	28	13	
25	48	100	318	80	1000	155	118	109	43	34	135	12	
26	41	94	238	78	640	137	105	99	40	34	70	12	
27	37	91	217	76	540	134	101	93	36	56	44	11	
28	43	843	205	74	450	141	103	109	34	38	34	11	
29	620	902	208	70	---	157	93	96	32	31	28	11	
30	357	428	3200	68	---	3150	87	87	30	28	27	11	
31	187	---	1650	66	---	4250	---	81	---	29	26	---	
TOTAL	2068	8791	18935	8680	16248	20389	9733	10560	2194	3856	1385	402.3	
MEAN	66.7	293	611	280	580	658	324	341	73.1	124	44.7	13.4	
MAX	620	902	3200	2140	5190	4250	2010	3170	211	1080	143	24	
MIN	14	91	128	66	50	134	87	81	30	28	22	9.4	
CFSM	.24	1.07	2.22	1.02	2.11	2.39	1.18	1.24	.27	.45	.16	.05	
IN.	.28	1.19	2.56	1.17	2.20	2.76	1.32	1.43	.30	.52	.19	.05	
CAL YR 1984	TOTAL	107582.0		MEAN	294	MAX	3810	MIN	14.0	CFSM	1.07	IN.	14.52
WTR YR 1985	TOTAL	103241.3		MEAN	283	MAX	5190	MIN	9.4	CFSM	1.03	IN.	13.97

## GREAT MIAMI RIVER BASIN

03272700 SEVENMILE CREEK AT CAMDEN, OH

LOCATION.--Lat 39°37'45", long 84°38'40", Preble County, Hydrologic Unit 05080002, on right bank at downstream side of bridge on State Highway 725 in Camden, 0.3 mi downstream from Beasley Run and at mile 16.2.

DRAINAGE AREA.--69.0 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 818.57 ft above National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District). Prior to Oct. 1, 1975, at same site at datum 3.02 ft higher.

REMARKS.--Estimated daily discharges: Nov. 16 to Dec. 13 and Jan. 6 to Feb. 11. Records fair except for periods of estimated record, which are poor. Water-quality data collected at this site 1972 to 1974.

COOPERATION.--Gage-height tapes, and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--14 years (1972-85), 72.2 ft<sup>3</sup>/s, 14.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,210 ft<sup>3</sup>/s June 22, 1974, gage height 13.25 ft, present datum from rating curve extended above 2,200 ft<sup>3</sup>/s; minimum daily, 1.6 ft<sup>3</sup>/s July 21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1500 ft<sup>3</sup>/s and maximum (\*).

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 22	1830	1,870	8.16	July 5	2000	*1,980	*8.32
May 2	1030	*1,980	*8.31				

Minimum daily discharge, 2.8 ft<sup>3</sup>/s Sept. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	4.2	56	100	555	17	101	311	78	22	27	48	6.3	
2	3.4	154	74	269	16	90	179	1170	20	70	21	5.5	
3	3.4	77	90	160	16	79	136	380	20	28	14	5.1	
4	3.2	119	74	123	15	115	112	184	19	20	11	5.1	
5	3.3	124	66	91	15	176	122	123	19	211	10	4.4	
6	3.5	74	82	74	15	105	184	93	18	113	9.9	4.1	
7	4.4	54	110	62	14	98	124	73	20	33	14	4.2	
8	15	45	98	52	14	284	108	60	22	22	14	4.1	
9	11	44	84	47	13	170	95	53	19	17	10	4.1	
10	8.0	96	230	42	13	121	85	48	17	15	8.8	3.7	
11	6.6	174	170	38	13	240	80	45	19	13	8.0	3.7	
12	5.8	101	130	35	190	460	70	43	35	12	7.6	3.5	
13	5.4	74	115	31	98	184	67	39	30	11	7.2	3.3	
14	5.3	74	325	29	89	132	65	38	25	11	6.9	3.0	
15	5.7	94	202	27	69	102	65	52	21	21	7.9	2.8	
16	6.1	64	142	25	62	89	80	108	22	19	38	2.8	
17	6.5	50	108	23	57	79	55	96	19	13	23	3.2	
18	6.5	60	85	22	50	69	52	65	18	11	15	2.9	
19	6.7	78	84	20	50	64	48	54	16	9.5	11	4.6	
20	6.9	70	76	18	68	60	45	46	15	9.2	8.7	8.9	
21	14	62	291	19	119	53	41	41	14	14	7.5	8.9	
22	12	56	357	20	1030	53	39	36	14	48	6.8	8.9	
23	11	50	168	20	1330	53	37	34	19	19	6.4	9.3	
24	10	48	122	20	688	50	38	30	13	13	30	13	
25	8.7	46	86	20	320	46	37	28	12	10	23	11	
26	8.3	45	73	20	202	42	34	26	11	30	14	9.8	
27	7.9	49	69	19	145	44	34	25	10	33	11	9.3	
28	51	260	65	19	113	45	33	33	9.5	17	8.6	8.9	
29	101	180	133	18	---	79	29	26	9.2	12	7.4	8.9	
30	50	130	710	18	---	638	27	24	8.7	10	9.2	8.7	
31	31	---	258	17	---	726	---	23	---	15	8.5	---	
TOTAL	425.8	2608	4777	1953	4841	4647	2432	3174	536.4	906.7	426.4	182.0	
MEAN	13.7	86.9	154	63.0	173	150	81.1	102	17.9	29.2	13.8	6.07	
MAX	101	260	710	555	1330	726	311	1170	35	211	48	13	
MIN	3.2	44	65	17	13	42	27	23	8.7	9.2	6.4	2.8	
CFSM	.20	1.26	2.23	.91	2.51	2.17	1.18	1.48	.26	.42	.20	.09	
IN.	.23	1.41	2.58	1.05	2.61	2.51	1.31	1.71	.29	.49	.23	.10	
CAL YR 1984	TOTAL	26422.0		MEAN	72.2	MAX	1110	MIN	2.3	CFSM	1.05	IN.	14.21
WTR YR 1985	TOTAL	26909.3		MEAN	73.7	MAX	1330	MIN	2.8	CFSM	1.07	IN.	14.51



## GREAT MIAMI RIVER BASIN

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03274000 GREAT MIAMI RIVER AT HAMILTON, OH

LOCATION.--Lat 39°23'28", long 84°34'20", in NE 1/4 sec. 6, T.1 N., R.3 E., Butler County, Hydrologic Unit 05080002, on right bank 1,000 ft downstream from Columbia Bridge at Hamilton, 3 mi downstream from Four Mile Creek, 4.3 mi upstream from Pleasant Run, and at mile 34.8.

DRAINAGE AREA.--3,630 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1907 to June 1909 (fragmentary), January 1910 to September 1918, April 1927 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 0.7 mi upstream since 1911 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Hamilton.

REVISED RECORDS.--WSP 803: 1936. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 499.98 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 12, 1927, nonrecording gage at site 0.7 mi upstream at datum 64.65 ft higher.

REMARKS.--Estimated daily discharges: Jan. 12-19, Feb. 4-21, and July 18-30. Records good except for periods of estimated record which are fair. Some regulation at low flow by industrial plants upstream from station. Flood flow regulated by five retarding basins upstream from station beginning in 1920 (see REMARKS for station numbers 03271500 and 03272000). Small diversion about 6 mi upstream from gage for municipal supply of Hamilton. Diversion averaged 1.05 ft<sup>3</sup>/s in 1985 and is returned as sewage 1.4 mi downstream from the station. The Miami and Erie Canal diverted water from the basin 1.7 mi upstream from station until Nov. 1, 1930, when the canal was abandoned; amount of diversion not known. Water-quality data collected at this site for water years 1950, 1951, 1973. Water temperature data collected at this site October 1950 to September 1951, October 1957 to September 1976.

COOPERATION.--Gage-height charts, tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--54 years (1931-85), 3,290 ft<sup>3</sup>/s, 12.31 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 352,000 ft<sup>3</sup>/s Mar. 26, 1913, gage height, 38.5 ft, site and datum then in use, computed by Miami Conservancy District; maximum discharge since construction of five retarding basins upstream in 1922, 108,000 ft<sup>3</sup>/s Jan. 21, 1959, gage height 79.47 ft; minimum daily discharge, 155 ft<sup>3</sup>/s Sept 27, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,200 ft<sup>3</sup>/s Feb. 24, gage height, 68.21 ft; minimum daily, 442 ft<sup>3</sup>/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	745	1650	3510	14400	1590	9890	20300	2530	1630	1160	2350	746	
2	707	3420	2730	15800	1450	7040	15300	19500	1540	5120	1300	684	
3	668	2860	2350	12100	1220	5940	11400	13900	1450	2160	925	659	
4	635	4510	2150	8060	1200	5440	8060	9270	1400	1550	789	629	
5	641	6240	1930	6000	1150	7780	6370	6090	1330	1230	710	595	
6	636	4060	1880	4940	1100	6730	8250	4650	1290	6400	716	567	
7	658	2890	1680	4470	1100	5620	8190	3890	2160	2030	846	574	
8	794	2300	1520	4110	1100	7150	6930	3360	1940	1390	1020	546	
9	853	2130	1500	3610	1100	8240	5860	3000	1470	1190	865	498	
10	779	3830	2900	3240	1100	6610	5070	2690	1290	1040	820	526	
11	784	4970	4380	3000	1100	7270	4560	2530	1260	939	855	511	
12	778	4330	3830	2600	3500	13600	4120	2440	1880	852	744	503	
13	724	3860	4290	2400	3200	11100	3820	2360	2210	830	699	465	
14	668	3160	8770	2300	3000	7650	3570	2200	2730	801	684	463	
15	645	2570	10100	2100	2800	5920	3470	3130	2490	784	854	471	
16	683	2320	7740	2000	2700	4980	3490	3530	2120	1300	1850	456	
17	754	1990	5620	1900	2600	4410	3450	4070	1910	1400	1180	454	
18	739	1830	4470	1600	2500	4020	3170	3560	1900	1200	881	487	
19	714	1960	3800	1400	2400	3700	2900	3550	1780	1000	828	474	
20	708	1910	3620	1260	2300	3450	2690	3350	1510	920	763	462	
21	739	1770	6740	1160	3500	3200	2510	2920	1330	860	696	442	
22	947	1600	10200	1410	13900	3050	2410	2580	1250	1400	649	452	
23	936	1540	8610	1720	27600	3070	2280	2500	1270	1100	626	465	
24	906	1480	6040	1780	30500	3040	2200	2420	1650	940	640	511	
25	900	1420	4590	1770	27800	3030	2250	2160	1230	860	1700	584	
26	922	1390	3660	1630	22900	2850	2100	1920	1060	920	1000	565	
27	856	1380	3240	1600	17900	2710	2030	1710	977	980	904	527	
28	813	4720	3060	1610	13300	2610	2550	2030	909	840	895	478	
29	2860	5430	2970	1610	---	3000	2030	1840	866	740	815	471	
30	2960	4380	12800	1580	---	17000	1900	1720	913	800	762	451	
31	1870	---	15000	1600	---	23000	---	1730	---	1020	738	---	
TOTAL	29022	87900	155680	114760	195610	203100	153230	123130	46745	43756	29104	15716	
MEAN	936	2930	5022	3702	6986	6552	5108	3972	1558	1411	939	524	
MAX	2960	6240	15000	15800	30500	23000	20300	19500	2730	6400	2350	746	
MIN	635	1380	1500	1160	1100	2610	1900	1710	866	740	626	442	
CFSM	.26	.81	1.38	1.02	1.92	1.80	1.41	1.09	.43	.39	.26	.14	
IN.	.30	.90	1.60	1.18	2.00	2.08	1.57	1.26	.48	.45	.30	.16	
CAL YR 1984	TOTAL	1347581		MEAN	3682	MAX	22500	MIN	547	CFSM	1.01	IN.	13.77
WTR YR 1985	TOTAL	1197753		MEAN	3282	MAX	30500	MIN	442	CFSM	.90	IN.	12.27

## GREAT MIAMI RIVER BASIN

03274600 GREAT MIAMI RIVER AT NEW BALTIMORE, OH  
(National stream-quality accounting network station)

LOCATION.--Lat 39°15'47", long 84°40'04", in N 1/2 sec. 34, R.1, T.2, Hamilton County, Hydrologic Unit 05080002, at Blue Rock Road bridge at New Baltimore, 6.4 mi downstream from Indian Creek, and 14.3 mi downstream from discharge station, at Hamilton.

DRAINAGE AREA.--3,814 mi<sup>2</sup>.

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

REMARKS.--Four parameter (Specific conductance, pH, Water temperature, and Dissolved oxygen) water quality monitor at site from July 1966 to September 1981. See records of daily discharge for station at Hamilton (station 03274000).

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 1984									
18...	13:00	730	925	8.0	21.0	18.0	22	8.5	92
JAN 1985									
24...	10:30	1780	920	8.1	-4.0	0.5	2.0	14.2	102
MAR									
21...	10:00	3200	740	8.3	2.5	9.5	3.0	11.0	98
MAY									
30...	12:45	1700	730	8.7	24.0	24.0	3.5	13.1	158
JUL									
23...	11:00	1100	765	8.7	26.5	25.5	3.0	8.3	104
AUG									
20...	09:30	763	695	8.1	17.5	25.0	1.0	5.2	64

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1984									
18...	480	180	78	34	60	5.2	229	96	99
JAN 1985									
24...	1200	400	89	35	43	3.6	266	89	72
MAR									
21...	1400	90	85	32	24	2.3	248	67	46
MAY									
30...	550	260	77	31	28	3.1	238	69	52
JUL									
23...	1100	120	70	30	46	5.0	206	77	74
AUG									
20...	1200	11000	64	27	39	4.4	--	69	65

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 1984									
18...	0.6	3.9	572	4.80	<0.01	1.3	0.82	0.59	0.59
JAN 1985									
24...	0.4	7.9	570	4.80	1.40	2.1	0.59	0.51	0.49
MAR									
21...	0.3	5.4	422	4.90	0.38	1.1	0.32	0.19	0.19
MAY									
30...	0.8	1.7	458	4.70	0.02	1.9	0.30	0.21	0.20
JUL									
23...	0.6	--	460	2.50	0.03	2.3	--	0.24	0.22
AUG									
20...	0.5	3.8	408	3.10	0.05	1.1	0.48	0.42	0.39

## GREAT MIAMI RIVER BASIN

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03274600 GREAT MIAMI RIVER AT NEW BALTIMORE, OH--Continued

## WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 1984											
18...	13:00	730	20	2	98	<0.5	<1	7	<3	6	16
JAN 1985											
24...	10:30	1780	30	2	100	0.9	<1	4	<3	9	13
MAY											
30...	12:45	1700	<10	1	90	1	<1	<1	<3	5	12
JUL											
23...	11:00	1100	30	2	89	<0.5	<1	<1	<3	5	10

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 1984											
18...	1	<4	6	0.3	<10	19	1	2	810	<6	36
JAN 1985											
24...	4	13	32	0.1	<10	9	1	<1	880	<6	23
MAY											
30...	<1	12	2	<0.1	<10	6	1	<1	730	<6	6
JUL											
23...	5	26	2	<0.1	<10	6	<1	<1	690	<6	10

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 1984					
18...	13:00	730	18.0	43	85
JAN 1985					
24...	10:30	1780	0.5	13	62
MAR					
21...	10:00	3200	9.5	31	268
MAY					
30...	12:45	1700	24.0	46	211
JUL					
23...	11:00	1100	25.5	68	202
AUG					
20...	09:30	763	25.0	50	103

## PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## CREST-STAGE PARTIAL-RECORD STATIONS

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 1985

						Annual maximum	
Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Gage height (feet)	Dis charge (ft <sup>3</sup> /s)
Cross Creek basin							
03110980	Consol Run at Bloomingdale, OH	Lat 40°19'56", long 80°48'44", Jefferson County, Hydrologic Unit 05030101, at culvert on Township Road, 0.8 mi southeast of Bloomingdale.	0.04	1978-85	10- 1-84	99.32	2.2
03113802 (d)	Chestnut Creek near Barnesville, OH	Lat 39°56'50", long 81°09'25", Belmont County, Hydrologic Unit 05030106, at culvert on SR 148, .98 mi east of SR 800, 200 ft upstream from an unnamed tributary to North Fork Captina Creek, and 2.45 mi south of Barnesville.	0.22	1982-85	11-11-84	10.38	2.4
Short Creek basin							
03111450	Branson Run at Georgetown, OH	Lat 40°12'26", long 80°55'22", Harrison County, Hydrologic Unit 05030101, at culvert on County Highway 41, 300 ft southwest from intersection with U.S. Highway 250 in Georgetown.	1.31	1978-85	-----	<94.40	<20
03111455	South Fork Short Creek at Georgetown, OH	Lat 40°12'27", long 80°55'12", Harrison County, Hydrologic Unit 05030101, at bridge on U.S. Highway 250 in Georgetown.	10.9	1978-85	-----	<86.52	<190
03111470	Little Piney Fork at Parlett, OH	Lat 40°18'07", long 80°50'55", Jefferson County, Hydrologic Unit 05030101, at culvert on State Route 151, 0.9 mi east of Parlett.	1.57	1978-85	3-12-85	93.75	18
03111490	Piney Fork tributary near Piney Fork, OH	Lat 40°16'18", long 80°50'48", Jefferson County, Hydrologic Unit 05030101, at culvert on County Road 12, 0.08 mi east of Penn Central Railroad crossing on Smithfield-Adena Road, 1.6 mi northwest of Piney Fork and 3.0 mi west of Smithfield.	0.44	1978-85	-----	<97.37	<14
Wheeling Creek basin							
03111540	Sloan Run tributary near Harrisville, OH	Lat 40°09'07", long 80°52'59", Belmont County, Hydrologic Unit 05030106, at culvert on unnamed R & F Coal Company private road, 1.7 mi south of Harrisville, and 2.1 mi west of Pleasant Grove.	0.34	1978-85	5- 3-85	100.57	13
Sunfish Creek basin							
03114240	Wood Run near Woodsfield, OH	Lat 39°46'56", long 81°03'21", Monroe County, Hydrologic Unit 05030201, at culvert on State Highway 26, 0.5 mi upstream from Standing Stone Run, and 3.5 mi northeast of Woodsfield.	0.53	1978-85	-----	<95.95	<32
Little Muskingum River basin							
03115280	Trail Run near Antioch, OH	Lat 39°37'29", long 81°02'54", Monroe County, Hydrologic Unit 05030201, at private road bridge, adjacent to State Route 800, 2.7 mi southeast of Antioch.	5.45	1978-83 1978-84 1978-85	7-24-83 12-22-83 3-30-85	94.53 93.15 94.41	*720 *375 690
03115410	Graham Run near Bloomfield, OH	Lat 39°32'36", long 81°12'32", Washington County, Hydrologic Unit 05030201, at culvert on State Highway 26, 0.25 mi upstream from mouth, and 1.2 mi southwest of Bloomfield.	0.13	1978-85	-----	<97.10	<6.1



## PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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## CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis charge (ft <sup>3</sup> /s)
03115510	Moss Run near Wingett, OH	Lat 39°28'24", long 81°18'52", Washington County, Hydrologic Unit 05030201, at culvert on State Route 26 at Moss Run and 8 mi southwest of Wingett.	1.52	1978-85	7-15-85	90.66	280
03115596 (d)	Barnes Run at Summerfield, OH	Lat 39°47'18", long 81°21'08", Noble County, Hydrologic Unit 05030201, at culvert on State Route 78, 0.83 mi west of State Route 513 and State Route 146, 1.25 upstream from the discontinued site Barnes Run near Summerfield (03115600) and 0.67 mi southwest of Summerfield.	1.02	1982-85	3-29-85	15.87	265
Duck Creek basin							
03115710	Buffalo Run tributary near Dexter City, OH	Lat 39°39'41", long 81°26'58", Noble County, Hydrologic Unit 05030201, at culvert on County Road 2, 1.3 mi east of Dexter City.	0.19	1978-85	-----	<96.43	<35
Muskingum River basin							
03120580 (d)	Falling Branch at Sherrodsville, OH	Lat 40°30'28", long 81°14'25", Carroll County, Hydrologic Unit 05040001, at culvert on State Route 39, 0.28 mi northeast of State Route 212, 250 ft upstream of Thompson Run, and 0.81 mi north of Sherrodsville.	0.33	1982-85	3-29-85	13.43	100
03123060 (d)	Cattail Creek at Baltic, OH	Lat 40°27'12", long 81°42'01", Holmes County, Hydrologic Unit 05040001, at culvert on County Road 575, 0.67 mi north of State Route 651, 550 ft upstream of Brush Run, and 0.60 mi north of Baltic.	0.14	1982-85	6-11-85	11.02	12
03123400 (d)	Dundee Creek at Dundee, OH	Lat 40°35'35", long 81°36'13", Tuscarawas County, Hydrologic Unit 05040001, at culvert on State Highway 93, 0.4 mi upstream from mouth, 0.5 mi northeast of Dundee.	0.74	1966-85	3-29-85	20.98	57
03125450	Robinson Run near Hendrysburg, OH	Lat 40°05'08", long 81°10'27", Belmont County, Hydrologic Unit 05040001, at culvert on County Road 108, 1.7 mi north of Hendrysburg.	1.97	1978-85	11-11-84	98.10	53
03127950	Clear Fork near Jewett, OH	Lat 40°19'28", long 81°01'20", Harrison County, Hydrologic Unit 05040001, at bridge 150 ft north of County Road 13, 0.5 mi east of State Route 9, and 3.1 mi south of Jewett.	5.45	1978-85	3-12-85	95.54	117
03128650	Mud Run tributary at Wainwright, OH	Lat 40°25'07", long 81°24'57", Tuscarawas County, Hydrologic Unit 05040001, at culvert on Warwick Township Road 461, 0.5 mi west of State Route 416, and 0.7 mi east of Wainwright.	0.55	1978-85	6-12-85	98.83	5.4
03144865 (d)	Slim Creek at Kirkersville, OH	Lat 39°56'51", long 82°36'13", Licking County, Hydrologic Unit 05040006, at culvert on the Interstate 70-U.S. Highway 40 connector, .20 mi west of State Route 158, 1.17 mi upstream of a reservoir feeder to Buckeye Lake, and .85 mi south of Kirkersville.	0.13	1982-85	3-29-85	11.30	11
03148300	Moxahala Creek at Roseville, OH	Lat 39°48'38", long 82°04'13", Muskingum County, Hydrologic Unit 05040004, at pumping station about 2,500 ft downstream from First Street bridge in Roseville.	80.6	1964-85	7-14-85	12.61	2,550

## PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis charge (ft <sup>3</sup> /s)
03148395 (d)	Claypit Creek near Roseville, OH	Lat 39°50'28", long 82°04'15", Muskingum County, Hydrologic Unit 05040004, at culvert on State Route 93, 2.90 mi south of U.S. Highway 22, 1.13 mi upstream of Moxahala Creek, and 1.75 mi north of Roseville.	2.25	1982-85	7-14-85	12.95	40
03150602 (d)	Second Creek near Marietta, OH	Lat 39°27'36", long 81°26'24", Washington County, Hydrologic Unit 05040004, at culvert on State Route 821, 1.20 mi northeast of State Route 60, 1.34 mi upstream from the Muskingum River, and 1.28 mi north of Marietta.	1.04	1982-85	7-15-85	15.45	266
Hocking River basin							
03158102 (d)	Wolfkiln Run at Haydenville, OH	Lat 39°28'35", long 82°18'51", Hocking County, Hydrologic Unit 05030204, at culvert on U.S. Highway 33, 1.54 mi southeast of State Route 595, 500 ft upstream of an unnamed tributary to the Hocking River, and .9 mi southeast of Haydenville.	0.88	1982-85	3-30-85	11.56	19
03158220	Glen Run near Doanville, OH	Lat 39°24'06", long 82°11'44", Athens County, Hydrologic Unit 05030204, at culvert on County Road 4, 0.8 mi west of U.S. Highway 33, and 2.3 mi south of Doanville.	1.09	1978-85	-----	<95.90	<83
03159450	Mill Creek near Chauncey, OH	Lat 39°22'46", long 82°05'04", Athens County, Hydrologic Unit 05030204, at Culvert on U.S. Highway 50, 200 ft above mouth, 4.5 mi north of Athens, and 3.0 mi southeast of Chauncey.	1.48	1978-85	2-23-85	94.31	90
03159537 (d)	Elk Run near Alfred, OH	Lat 39°09'41", long 81°57'47", Meigs County, Hydrologic Unit 05030202, at culvert on State Route 681, .94 mi east of Flora, 1.05 mi upstream from Middle Branch Shade River, and 2.37 mi from Alfred.	0.48	1982-85	3-12-85	11.47	26
Raccoon Creek basin							
03201550	Starr Run near New Plymouth, OH	Lat 39°23'46", long 82°20'49", Hocking County, Hydrologic Unit 05090101, at culvert on State Route 56, 0.8 mi east of State Route 328, and 3.0 mi east of New Plymouth.	0.30	1978-85	7-14-85	96.80	38
Charlie Creek basin							
03205995 (d)	Sandusky Creek near Burlington, OH	Lat 38°25'03", long 82°30'36", Lawrence County, Hydrologic Unit 05090101, at culvert on U.S. Highway 52, 0.35 mi west of Charley Creek Road, and 1.25 mi northeast of Burlington.	0.73	1978-85	10-28-84	12.85	56
Scioto River basin							
03219849 (d)	Tombstone Creek near Marysville, OH. (Prior to September 1983 published as Scott Creek nr Marysville, OH).	Lat 40°12'42", long 83°18'15", Union County, Hydrologic Unit 05060001, at culvert on U.S. Highway 33, 1.12 mi upstream of Mill Creek, and 3.0 mi southeast of Marysville.	4.03	1982-85	4- 5-85	13.49	133
03223330 (d)	March Run near West Point, OH	Lat 40°37'55", long 82°45'56", Morrow County, Hydrologic Unit 05060001, at culvert on State Route 19, .8 mi up- stream of Whetstone creek, .5 mi south of West Point - Bellville Road, and 1.15 mi southeast of West Point.	0.18	1982-85	10-28-84	11.26	12

## PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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## CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Gage height (feet)	Dis charge (ft <sup>3</sup> /s)
03226860 (c)	Rush Run near Huntley Road at Worthington, OH	Lat 40°05'41", long 82°59'56", Franklin County, Hydrological Unit 05060001, at culvert on G.E. Drive, 50 ft west of Huntley Road at Worthington.	0.72	1980-85	7-15-85	12.49	27
03235080 (d)	Bull Creek near Adelphi, OH	Lat 39°27'11", long 82°46'46", Ross County, Hydrologic Unit 05060002, at culvert on State Route 180, 1.9 mi southwest of Adelphi.	3.13	1978-85	2-22-85	67.63	109
03236090	South Branch Little Salt Creek near Jackson, OH	Lat 39°00'50", long 82°39'01", Jackson County, Hydrologic Unit 05010002, at culvert on State Highway 124, 300 ft east of State Highway 139, and 2.7 mi south of Jackson.	1.28	1978-85	3-30-85	94.66	178
03237095	Devers Run at Lucasville, OH	Lat 38°52'54", long 83°01'13", Scioto County, Hydrologic Unit 05060002, at culvert on State Highway 104, 300 ft north of State Highway 348, and 1.2 mi northwest of Lucasville.	1.22	1978-85	3-30-85	94.64	242
03237120 (d)	Stone Branch near Peebles, OH	Lat 38°57'03", long 83°22'29", Adams County, Hydrologic Unit 05060002, at culvert on State Route 32, 700 ft upstreams from Plum Run, 2.72 mi northeast of State Route 41, and 1.10 mi east of Peebles.	0.85	1982-85	3-30-85	13.80	109
03237198 (d)	Duncan Hollow Creek near McDermott, OH	Lat 38°52'29", long 83°03'37", Scioto County, Hydrologic Unit 05060002, at culvert on State Route 348, 2.23 mi west of State Route 104, .78 mi upstream from Duck Run, and 2.75 mi north of McDermott.	0.51	1982-85	3-30-85	12.97	73
03237315 (d)	Elk Fork at Winchester, OH	Lat 38°56'49", long 83°37'21", Adams County, Hydrologic Unit 05090201, at culvert on State Route 32, 3.08 mi west of State Route 247 in Seaman, 1.72 mi upstream from West Fork Ohio Brush Creek, and .82 mi east of Winchester.	6.45	1982-85	3-30-85	18.30	731
03238285 (d)	Sugar Run near New Market, OH	Lat 39°06'30", long 83°40'36", Highland County, Hydrologic Unit 05090201, at culvert on U.S. Highway 62, .55 mi south of State Route 136, 900 ft upstream from an unnamed tributary, .62 mi upstream from East Fork White Oak Creek, and 1.97 mi south of New Market.	1.37	1982-85	3-30-85	14.19	160
Little Miami River basin							
03241994 (d)	Twist Run at Xenia, OH	Lat 39°39'53", long 83°56'00", Greene County, Hydrologic Unit 05090202, at culvert on State Route 380 (S. Detroit St.), 600 ft south of Ledbetter Road, .60 mi upstream from a tributary to Gladys Run, and on the corporate line of Xenia.	0.65	1982-85	7-31-85	12.44	47

PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES  
 CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis charge (ft <sup>3</sup> /s)
		Great Miami River basin					
03263171 (d)	Harte Run near Greenville, OH	Lat 40°08'41", long 84°36'41", Darke County, Hydrologic Unit 05080001, at culvert on U.S. Highway 127, 1.31 mi north of State Route 121, .45 mi up- stream of an unnamed tributary to Boyd Creek, and 3.15 mi north of Greenville.	0.86	1982-85	3-31-85	11.59	22
03267435 (d)	Kitty Creek at Terre Haute, OH	Lat 40°03'09", long 83°52'57", Champaign County, Hydrologic Unit 05080001, at culvert on State Route 55, 1,000 ft up- stream from Storms Creek, and .40 mi northwest of Terre Haute.	1.75	1982-85	3-31-85	11.58	55
03272695 (d)	Trippetts Branch at Camden, OH	Lat 39°38'03", long 84°39'08" Preble County, Hydrologic Unit 05080002, at culvert on U.S. Highway 127, 0.3 mi north of State Highway 725 at Camden.	0.33	1978-85	7- 5-85	16.39	176

\* Revised

c operated as an urban hydrology site where additional data may be available.

d operated as a rural flood volume site where additional data may be available.

e estimate



405303082170700. Local number, AS-2.

Ashland.

Owner: Ashland Water Department.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 64 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 980 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

REMARKS.--Station operated by Ohio Department  
PERIOD OF RECORD.--March 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 34.22 ft below land-surface datum, March 17, 1972; minimum daily low, 13.20 ft below land-surface datum, May 15, 18, 1967.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
DAY	OCT	NOV	DEC	MAXIMUM VALUES								
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.06	28.84	29.67	30.23	29.75	26.85	22.43	22.76	24.08	25.52	26.03	27.48
2	27.12	28.87	29.68	30.24	29.79	26.51	22.36	22.86	24.13	25.55	26.00	27.45
3	27.21	28.88	29.74	30.23	29.81	26.24	22.39	22.95	24.18	25.60	25.95	27.55
4	27.29	28.81	29.79	30.21	29.81	25.90	22.39	23.02	24.20	25.65	25.91	27.62
5	27.37	28.86	29.80	30.24	29.79	25.69	22.35	23.08	24.24	25.69	25.89	27.68
6	27.44	28.91	29.88	30.13	29.86	25.51	22.29	23.17	24.28	25.73	25.86	27.74
7	27.50	28.94	29.89	30.09	29.91	25.25	22.27	23.25	24.30	25.69	25.84	27.82
8	27.58	28.93	29.94	30.12	29.93	25.01	22.14	23.33	24.33	25.66	25.84	27.89
9	27.66	28.94	29.96	30.11	29.94	24.86	22.07	23.38	24.39	25.73	25.88	27.87
10	27.74	28.96	30.01	30.08	29.95	24.68	22.00	23.43	24.42	25.79	25.94	27.85
11	27.80	29.01	30.01	30.08	29.93	24.50	21.87	23.48	24.42	25.83	26.02	27.92
12	27.86	29.04	30.04	30.01	29.89	24.29	21.83	23.55	24.48	25.88	26.07	27.89
13	27.91	29.06	30.10	29.92	29.97	24.23	21.85	23.61	24.55	25.91	26.25	27.88
14	27.95	29.07	30.09	29.87	29.90	24.06	21.82	23.65	24.63	25.95	26.37	27.86
15	28.03	29.09	30.09	29.87	29.92	23.91	21.82	23.70	24.66	26.00	26.46	27.80
16	28.09	29.13	30.08	29.85	29.94	23.76	21.97	23.69	24.75	26.05	26.53	27.76
17	28.15	29.15	30.10	29.83	29.98	23.58	22.01	23.71	24.79	26.09	26.56	27.75
18	28.19	29.17	30.12	29.84	29.89	23.46	21.99	23.74	24.86	26.11	26.53	27.73
19	28.26	29.21	30.12	29.87	29.87	23.39	22.05	23.77	24.93	26.15	26.62	27.71
20	28.31	29.24	30.13	29.88	29.85	23.37	22.10	23.79	24.99	26.19	26.74	27.66
21	28.37	29.26	30.12	29.89	29.84	23.36	22.14	23.84	25.05	26.22	26.86	27.61
22	28.42	29.27	30.18	29.90	29.85	23.21	22.18	23.86	25.10	26.27	26.93	27.59
23	28.46	29.29	30.17	29.85	29.78	23.11	22.21	23.92	25.14	26.31	26.99	27.62
24	28.51	29.32	30.22	29.75	29.11	23.01	22.27	23.96	25.20	26.32	27.06	27.75
25	28.54	29.34	30.22	29.82	28.28	23.01	22.33	23.97	25.24	26.30	27.14	27.79
26	28.59	29.39	30.22	29.80	27.89	22.95	22.39	23.93	25.31	26.32	27.27	27.92
27	28.62	29.45	30.23	29.74	27.53	22.83	22.44	23.89	25.35	26.33	27.38	28.01
28	28.68	29.52	30.27	29.76	27.22	22.75	22.52	23.97	25.39	26.29	27.49	28.08
29	28.72	29.55	30.33	29.76	---	22.69	22.59	23.98	25.44	26.21	27.54	28.09
30	28.76	29.62	30.34	29.70	---	22.67	22.64	23.99	25.48	26.15	27.51	28.15
31	28.79	---	30.25	29.73	---	22.56	---	24.05	---	26.11	27.49	---
MAX	28.79	29.62	30.34	30.24	29.98	26.85	22.64	24.05	25.48	26.33	27.54	28.15
WTR YR 1985	MEAN	26.79		HIGH	21.82	APR 14	AND OTHERS	LOW	30.34	DEC 30		

## ASHLAND COUNTY--Continued

40 54 250 82173000. Local number. AS-3.

LOCATION.--Lat 40°54'25", long 82°17'30", Hydrologic Unit 05040002, Ashland Bates well field along Jerome Fork near Ashland.

Owner: Ashland Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 78 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch

DATUM.--Elevation of land-surface datum is 990 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

REMARKS.--Station operated by Ohio Department of  
PERIOD OF RECORD.--August 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.05 ft below land-surface datum, Oct. 22, 1980; minimum daily low, 3.10 ft, above land-surface, Feb. 23, 1978.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.65	27.36	27.41	19.90	19.24	23.16	14.45	18.51	10.82	21.70	24.41	23.08
2	14.31	26.76	27.45	20.28	18.31	17.86	17.24	19.10	12.23	21.76	24.51	23.18
3	14.94	30.89	24.42	20.63	18.29	17.21	15.96	18.38	12.44	20.82	23.95	21.86
4	18.14	31.02	24.87	20.98	23.20	18.55	17.85	17.14	11.16	19.32	23.13	22.46
5	18.09	31.03	25.09	21.17	23.77	20.38	13.75	16.48	10.30	17.83	22.32	23.65
6	15.38	27.23	25.27	19.65	23.87	21.12	14.63	18.45	9.98	16.69	21.44	23.41
7	14.14	29.75	25.33	19.86	23.93	21.49	16.45	19.43	9.74	15.65	20.51	23.47
8	17.50	29.89	25.47	20.69	24.08	21.01	18.01	20.07	9.46	14.61	19.52	22.78
9	18.11	29.93	25.54	21.01	24.17	20.14	18.80	20.45	11.09	13.63	18.61	19.88
10	19.90	29.95	25.93	21.25	24.20	21.17	18.99	20.82	12.34	12.88	17.71	20.69
11	20.92	29.88	26.24	21.54	24.10	21.71	19.29	21.11	12.59	13.78	16.92	21.20
12	21.64	28.87	26.62	20.80	24.60	22.48	13.86	21.41	11.91	14.37	16.17	21.63
13	22.23	28.94	26.98	19.24	21.24	22.81	11.83	21.66	10.72	14.70	18.33	21.99
14	22.56	28.93	30.62	19.40	21.48	22.81	10.59	22.27	10.19	14.94	17.30	22.29
15	22.75	28.81	30.64	19.96	21.66	21.88	10.62	22.81	10.26	18.26	15.62	25.76
16	23.17	28.88	30.61	20.30	21.83	21.31	9.83	24.19	15.24	20.20	14.44	25.85
17	23.67	28.87	30.55	18.37	22.11	20.47	9.75	24.95	16.94	21.22	13.33	22.82
18	24.13	28.80	30.72	17.26	22.34	19.30	9.44	24.94	17.59	21.91	12.61	23.09
19	24.31	28.21	30.76	16.24	22.50	18.43	9.22	20.81	16.43	22.51	12.10	23.30
20	24.42	28.28	30.70	15.55	21.71	18.25	9.20	19.11	15.71	23.07	11.74	23.52
21	24.57	28.29	26.68	14.74	25.43	18.22	9.17	17.70	15.50	23.56	11.44	23.74
22	24.94	28.29	25.56	17.68	22.76	16.74	9.12	16.43	15.38	24.08	17.36	23.99
23	25.30	24.20	24.69	19.28	21.08	15.46	9.48	15.05	16.18	24.54	17.36	24.18
24	25.65	23.16	23.84	23.23	16.98	14.34	12.23	14.05	18.29	27.65	22.02	27.49
25	25.97	22.31	23.24	19.35	20.21	19.87	13.26	13.09	19.22	27.74	22.36	27.64
26	26.28	24.82	25.29	19.13	21.42	20.50	16.41	12.28	19.93	24.86	22.34	27.70
27	26.57	22.00	26.80	18.39	22.61	20.90	18.28	11.62	20.41	24.86	22.49	27.93
28	26.67	22.78	26.91	18.07	23.07	21.19	19.28	11.05	20.82	24.34	22.61	27.90
29	26.79	26.61	23.24	24.72	---	21.55	19.54	10.48	21.18	23.78	22.74	27.89
30	27.06	27.21	22.48	21.45	---	16.32	17.57	9.97	21.46	24.01	22.92	27.81
31	27.27	---	21.28	19.61	---	13.65	---	9.68	---	24.22	22.98	---
MAX	27.27	31.03	30.76	24.72	25.43	23.16	19.54	24.95	21.46	27.74	24.51	27.93
WTR YR 1985	MEAN	20.64		HIGH	9.12	APR 22	LOW	31.03	NOV 5			

## GROUND-WATER RECORDS

245

## ATHENS COUNTY--Continued

392004082071600. Local number, AT-2A.

LOCATION.--Lat 39°20'04", long 82°07'16", Hydrologic Unit 05030204, 1.1 mi west of city hall in Athens.

Owner: City of Athens.

AQUIFER.--Sand and gravel of Quarternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 48 ft, cased.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 641.81 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter, 5.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to water year 1978, well depth reported as 43 ft.

PERIOD OF RECORD.--March 1954 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.25 ft below land-surface datum, Sept. 29, 1982; minimum daily low, 1.05 ft below land-surface datum, May 25, 28, 1968.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 24 1984	20.23	Apr. 16, 1985	16.99

## GROUND-WATER RECORDS

## ATHENS COUNTY--Continued

3920090 82072200. Local number, AT-5

LOCATION.--Lat 39°20'09", long 82°07'22", Hydrologic Unit 05030204, in Athens well field along Hocking River.

Owner: Athens Water Department.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 48 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land surface datum is 640 ft above National Geodetic Vertical Datum on 1929, from topographic map. Measuring point: Floor of instrument shelter, 4.75 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.75 ft below land-surface datum, July 25, 1982; Minimum daily low 12.07 ft below land-surface datum, May 5, 1983.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.83	19.87	19.84	19.66	21.70	18.14	17.16	20.12	20.36	20.94	20.26	19.90
2	19.82	19.80	20.08	19.77	21.72	18.16	16.78	20.13	20.51	20.75	20.35	19.98
3	19.77	19.79	19.57	19.83	21.48	18.48	16.74	19.70	20.56	21.04	20.54	20.12
4	19.72	19.73	20.07	19.49	21.55	18.74	17.03	19.26	19.62	20.73	19.97	20.19
5	19.77	19.83	19.93	19.53	21.68	18.89	17.21	19.35	19.58	20.85	20.21	20.20
6	19.83	19.83	18.96	17.87	21.48	18.16	17.16	19.59	19.82	21.03	19.61	19.94
7	19.87	20.68	18.56	17.57	21.63	18.73	17.18	19.72	19.46	21.09	20.24	19.75
8	19.91	21.11	18.31	17.53	21.74	19.04	17.18	19.67	19.35	21.17	20.38	19.74
9	19.98	21.35	19.49	17.47	21.75	19.09	17.29	19.91	19.75	21.24	20.41	19.72
10	20.05	21.42	19.55	19.01	21.45	19.25	17.42	19.96	19.16	21.18	20.48	20.17
11	20.11	21.37	18.06	19.34	21.64	19.37	17.90	19.48	19.16	21.30	20.66	19.82
12	20.17	21.25	17.63	19.82	21.68	19.27	18.24	19.84	19.15	21.38	20.48	20.57
13	20.19	21.27	18.77	20.17	21.54	18.77	18.54	18.45	19.61	21.40	20.70	20.58
14	20.13	20.87	18.80	20.18	21.49	18.95	18.65	18.01	19.80	21.02	20.89	20.74
15	20.10	20.95	18.80	19.85	21.21	19.06	18.86	17.99	19.93	20.85	20.98	20.86
16	20.09	21.04	17.40	20.17	21.24	19.12	18.93	18.69	20.25	19.36	19.92	19.74
17	20.18	21.06	19.35	19.97	20.94	19.19	18.75	18.79	18.90	19.76	20.24	20.73
18	20.24	21.07	19.80	20.23	20.88	19.37	19.15	19.04	18.52	19.74	19.86	20.82
19	20.17	20.90	18.72	20.40	21.01	19.47	19.40	19.18	18.31	19.95	19.77	21.07
20	20.09	21.22	19.37	20.47	21.04	19.55	19.64	19.43	19.44	20.22	20.14	21.13
21	20.03	21.30	18.57	20.83	21.04	19.73	19.70	19.56	20.06	20.42	20.42	21.28
22	20.20	20.73	17.68	19.88	20.97	19.76	19.83	19.72	20.24	20.54	20.43	21.37
23	20.17	20.35	18.80	20.36	20.44	19.80	19.96	19.77	20.57	20.36	20.31	21.45
24	20.09	20.45	19.12	20.90	19.13	19.84	20.07	19.87	20.73	20.43	20.53	21.47
25	20.07	20.08	18.88	21.04	18.25	19.33	20.14	20.04	20.90	19.78	19.95	20.29
26	19.86	18.94	18.91	21.09	17.53	19.27	20.22	20.11	21.04	19.58	19.99	21.13
27	19.84	20.22	17.39	21.31	17.78	19.22	20.29	19.93	21.05	19.93	20.01	20.99
28	19.98	20.24	17.28	21.48	17.98	19.60	20.20	20.12	20.93	20.19	20.20	21.12
29	20.04	19.08	18.84	21.57	---	19.92	20.38	20.19	20.72	20.36	19.93	21.32
30	20.60	19.73	19.34	21.64	---	19.92	20.47	20.08	20.83	20.17	19.96	21.20
31	20.05	---	19.27	21.68	---	17.41	---	20.22	---	20.19	19.85	---
MAX	20.60	21.42	20.08	21.68	21.75	19.92	20.47	20.22	21.05	21.40	20.98	21.47
WTR YR 1985	MEAN	19.90		HIGH	16.74	APR 3	LOW	21.75	FEB 9			



## GROUND-WATER RECORDS

247

## AUGLAIZE COUNTY

403233083574500. Local number, AU-3.

LOCATION.--Lat 40°32'33", long 83°57'45", Hydrologic Unit 05080001, 1.0 mi southwest of New Hampshire.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 380 ft, cased to 52 ft.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,020 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--December 1974 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 11.87 ft below land-surface datum, Feb. 7-8, 1977; minimum daily low, 5.18 ft below land-surface datum, Apr. 14, 1980.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 30, 1984	8.01	Apr. 9, 1985	5.30

## GROUND-WATER RECORDS

## BELMONT COUNTY

400118081082200. Local number, B-3.

LOCATION.--Lat 40°01'18", long 81°08'22", Hydrologic Unit 05040001, Mt. Olivett Public Square, Mt. Olivett, OH.

Owner: Village of Mt. Olivett.

AQUIFER.--Shale of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 119 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1265 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter, 1.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 19, 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 61.44 ft Sept. 29-30, 1985; minimum daily low, 56.61 ft below land-surface datum, July 19-20.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.36	59.05	---	57.78	59.08	57.97	58.18	58.92	59.68	60.06	60.71	61.07
2	---	58.97	---	57.86	59.13	57.86	58.19	58.93	59.74	60.06	60.78	61.10
3	---	58.95	---	57.86	59.27	57.89	58.14	59.02	59.78	60.07	60.83	61.10
4	---	58.82	---	57.80	59.31	57.87	58.05	59.04	59.80	60.09	60.85	61.10
5	---	58.68	---	57.72	59.30	57.98	57.94	59.04	59.78	60.11	60.85	61.10
6	---	58.65	---	57.73	59.15	58.11	57.93	59.01	59.80	60.15	60.85	61.07
7	---	58.67	---	57.71	59.23	58.11	57.98	59.04	59.80	60.22	60.85	61.10
8	---	58.67	---	57.88	59.33	58.06	57.99	59.10	59.73	60.23	60.85	61.10
9	---	58.63	---	57.95	59.39	58.11	58.02	59.13	59.72	60.23	60.87	61.10
10	---	58.52	---	57.95	59.41	58.13	58.03	59.13	59.76	60.23	60.88	61.12
11	---	58.42	---	57.97	59.41	58.13	57.98	59.13	59.76	60.28	60.93	61.19
12	---	58.35	---	58.01	59.29	58.02	57.98	59.11	59.69	60.29	60.96	61.30
13	---	58.27	58.29	58.01	59.15	58.07	57.98	59.16	59.75	60.36	60.99	61.38
14	---	58.20	58.29	57.99	59.23	58.10	57.93	59.19	59.78	60.36	61.05	61.40
15	59.71	58.07	58.28	58.17	59.24	58.18	---	59.20	59.78	60.36	61.05	61.40
16	59.66	57.89	58.21	58.27	59.24	58.18	---	59.20	59.73	60.40	61.06	61.36
17	59.61	57.88	58.05	58.26	59.26	58.09	---	59.13	59.73	60.45	61.06	61.33
18	59.60	57.87	57.94	58.15	59.29	58.17	---	59.20	59.71	60.49	61.07	61.35
19	59.56	57.82	57.89	58.24	59.23	58.18	---	59.29	59.73	60.47	61.08	61.36
20	59.56	57.92	57.80	58.44	59.20	58.22	---	59.31	59.78	60.46	61.12	61.36
21	59.57	58.00	57.80	58.50	59.18	58.27	---	59.40	59.81	60.46	61.13	61.34
22	59.60	58.01	57.74	58.58	59.08	58.26	---	59.41	59.82	60.47	61.14	61.33
23	59.61	57.99	57.77	58.60	58.60	58.22	---	59.40	59.83	60.53	61.14	61.33
24	59.58	---	57.75	58.59	58.48	58.22	---	59.43	59.84	60.55	61.15	61.36
25	59.48	---	57.86	58.62	58.36	58.41	58.45	59.47	59.86	60.59	61.11	61.37
26	59.36	---	57.89	58.87	58.31	58.47	58.53	59.49	59.87	60.59	61.13	61.34
27	59.24	---	57.88	58.87	58.16	58.46	58.63	59.51	59.88	60.63	61.16	61.36
28	59.15	---	57.82	58.89	58.13	58.40	58.76	59.56	59.88	60.67	61.16	61.43
29	59.09	---	57.75	58.99	---	58.44	58.88	59.63	59.92	60.69	61.16	61.44
30	59.09	---	57.83	59.05	---	58.46	58.89	59.64	60.00	60.70	61.10	61.44
31	59.08	---	57.83	59.05	---	58.06	---	59.63	---	60.70	61.04	---
MAX	---	---	---	59.05	59.41	58.47	---	59.64	60.00	60.70	61.16	61.44
WTR YR 1985	MEAN	59.36		HIGH	57.71	JAN 7	LOW	61.44	SEP 29 AND OTHERS			

## GROUND-WATER RECORDS

249

## BUTLER COUNTY

391805084261800. Local number, BU-9.

LOCATION.--Lat 39°18'05", long 84°26'18", Hydrologic Unit 05090203, 2.5 mi northwest of Sharonville.

Owner: Olinkraft, Inc.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 85 ft.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 586.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter, 4.66 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to water year 1978, well diameter reported as 26 in.

PERIOD OF RECORD.--July 1938 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.40 ft below land-surface datum, Mar. 16, 1954; minimum daily low, 4.40 ft below land-surface datum, Aug. 3, 1958.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 31, 1984	11.33	Apr. 30, 1985	10.43

## GROUND-WATER RECORDS

## BUTLER COUNTY--Continued

393202084241500. Local number, BU-15.

LOCATION.--Lat 39°32'02", long 84°24'15", Hydrologic Unit 05080002, at Hook Field (municipal airport) at Middletown.

Owner: City of Middletown.

AQUIFER.--Sand and gravel of Pleistocene Age.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

WELL CHARACTERISTICS.--Drilled observation water table well, diameter 6 in., depth 23 ft cased.

DATUM.--Elevation of land-surface datum is 641 ft, from topographic map. Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Water level affected by pumping wells nearby in Middletown well field.

PERIOD OF RECORD.--June 1972 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 14.60 ft below land-surface datum, Jan. 26, 1981; minimum daily low, 0.06 ft below land-surface datum, Feb. 25, 1975.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 31, 1984	11.89	May 13, 1985	10.10



## GROUND-WATER RECORDS

251

## BUTLER COUNTY--Continued

391904084371800. Local number, BU-12.

LOCATION.--Lat 39°19'04", long 84°37'18", Hydrologic Unit 05080002. Cincinnati well field 1.5 mi east of Ross.

Owner: City of Cincinnati.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 157 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 547.73 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 7.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.50 ft below land-surface datum, Sept. 23, 1985; minimum daily low, 2.00 ft above land surface, May 24, 25, 1968.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.10	17.90	16.35	12.95	19.25	14.10	11.90	19.80	19.25	20.65	21.25	---
2	19.15	17.35	16.55	12.15	19.70	15.25	12.25	19.40	19.30	18.20	20.70	---
3	19.20	17.45	16.65	12.65	19.90	15.95	12.70	14.70	19.35	17.20	20.90	---
4	19.20	17.30	16.80	14.90	20.00	16.35	13.60	15.55	19.50	17.45	20.70	---
5	19.25	16.40	16.95	15.85	20.00	15.40	14.05	16.30	19.60	17.60	21.00	---
6	19.05	16.95	17.20	16.45	19.75	15.65	14.05	16.80	19.70	17.60	21.20	---
7	19.00	17.25	17.35	16.85	19.70	16.35	14.05	17.35	19.70	17.05	21.30	---
8	19.20	17.40	17.50	17.20	19.75	16.40	16.25	17.95	19.70	17.35	20.35	---
9	19.25	17.35	17.60	17.60	19.90	16.15	16.85	18.00	19.95	17.55	20.75	---
10	19.30	17.35	17.60	17.85	20.00	16.45	17.30	18.15	20.05	19.20	21.15	---
11	19.35	16.75	16.90	18.25	20.05	16.55	17.65	18.45	20.00	19.40	20.60	---
12	19.30	16.45	16.60	18.50	19.60	15.85	17.90	18.30	20.15	20.05	21.90	---
13	19.25	16.60	16.50	18.70	18.75	15.15	18.20	18.60	19.95	20.85	22.00	---
14	19.25	16.85	16.05	18.75	18.85	15.90	18.40	18.80	19.75	21.20	22.35	---
15	19.30	17.10	14.60	18.85	18.95	16.35	18.50	18.85	18.85	21.30	22.30	---
16	19.40	17.00	14.60	18.90	19.00	16.80	18.60	18.50	19.75	19.30	22.10	---
17	19.45	17.20	14.90	19.00	19.05	17.15	18.65	18.25	19.80	18.85	22.40	---
18	19.45	17.35	15.20	19.00	18.85	17.40	17.00	18.15	19.70	18.80	22.50	---
19	19.25	17.65	15.45	18.85	18.90	17.60	18.20	18.15	18.00	18.90	22.45	---
20	19.15	17.85	15.70	19.15	18.75	17.75	16.80	18.20	19.15	19.00	22.60	---
21	19.05	17.65	15.70	19.20	18.65	17.95	17.80	18.40	19.35	20.05	22.75	---
22	19.00	17.45	13.80	19.40	18.25	18.15	18.40	18.65	19.90	20.75	23.20	---
23	18.95	17.50	14.10	19.55	14.35	18.20	18.65	18.85	20.00	21.00	---	25.50
24	18.90	17.55	14.70	19.65	11.25	18.30	18.80	18.90	20.00	21.10	---	25.20
25	18.85	17.60	15.15	19.60	9.80	18.30	19.05	18.70	19.75	21.25	---	23.75
26	18.60	17.95	15.50	19.50	10.40	18.35	19.40	18.75	20.00	21.05	---	24.40
27	18.55	17.90	15.85	19.40	11.65	18.30	19.60	19.00	20.30	21.40	---	24.65
28	18.55	17.75	16.00	19.65	12.20	18.30	19.60	19.15	20.40	21.40	---	24.40
29	18.40	16.60	16.15	19.70	---	18.85	19.60	19.15	18.95	21.35	---	23.15
30	17.90	16.20	16.15	19.65	---	18.40	19.75	19.20	20.45	21.55	---	24.20
31	17.85	---	13.45	19.65	---	13.15	---	---	---	21.55	---	---
MAX	19.45	17.95	17.60	19.70	20.05	18.85	19.75	---	20.45	21.55	---	---
WTR YR 1985 MEAN	18.34		HIGH		9.80	FEB 25	LOW	25.50	SEP 23			

392017084345200. Local number, BU-7.

LOCATION.--Lat 39°20'17", long 84°34'52", Hydrologic Unit 05080002, 5584 East River Road in Fairfield.

Owner: C. E. Schiering.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 176 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 572.54 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of instrument shelter 1.93 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 31.17 ft below land-surface datum, Jan. 13, 1977; minimum daily low, 11.45 ft below land-surface datum, June 6, 1947.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.86	29.75	28.03	26.59	26.92	25.73	25.00	25.62	26.13	26.83	28.14	27.63
2	29.98	29.67	27.98	26.47	26.97	25.73	24.32	25.48	26.23	26.66	27.96	27.71
3	29.80	29.50	27.84	26.35	27.01	25.66	24.20	24.96	26.18	26.54	27.97	27.93
4	29.66	29.44	27.81	26.18	27.07	25.93	23.98	24.87	26.18	26.42	28.06	28.00
5	29.86	29.36	27.73	26.07	27.11	25.93	23.82	24.86	26.09	26.35	28.04	28.07
6	30.09	29.33	27.75	26.10	27.13	25.78	23.79	24.95	26.02	26.34	27.83	28.09
7	30.09	29.32	27.83	26.11	27.21	25.69	23.75	24.94	26.01	26.25	27.91	28.27
8	29.95	29.15	27.92	26.16	27.25	25.55	23.69	25.08	25.96	26.33	27.94	28.44
9	29.95	29.05	27.93	26.19	27.28	25.55	23.70	25.24	25.96	26.57	27.77	28.64
10	29.87	29.02	27.94	26.15	27.32	25.52	23.63	25.38	25.97	26.65	27.64	28.68
11	29.81	28.93	27.94	26.14	27.34	25.49	23.58	25.48	26.01	26.58	27.65	28.55
12	29.76	28.82	27.88	26.17	27.33	25.43	23.82	25.49	26.24	26.55	27.75	28.53
13	29.76	28.74	27.85	26.18	27.33	25.34	24.11	25.38	26.19	26.59	27.89	28.56
14	29.90	28.69	27.83	26.18	27.33	25.18	24.23	25.42	26.01	26.62	27.79	28.56
15	30.13	28.64	27.74	26.26	27.33	25.18	24.26	25.35	25.97	26.91	27.78	28.70
16	30.30	28.63	27.60	26.31	27.33	25.15	24.25	25.31	25.93	27.02	27.75	28.89
17	30.30	28.60	27.51	26.31	27.33	25.11	24.11	25.47	25.89	27.23	27.51	28.96
18	30.27	28.52	27.46	26.33	27.33	25.22	24.13	25.47	25.93	27.35	27.62	29.09
19	30.21	28.47	27.46	26.34	27.34	25.39	24.37	25.42	26.00	27.50	27.74	29.17
20	30.21	28.44	27.47	26.39	27.33	25.36	24.43	25.45	26.03	27.61	27.56	29.33
21	30.08	28.46	27.43	26.43	27.45	25.24	24.61	25.52	26.09	27.45	27.46	29.37
22	30.00	28.46	27.39	26.48	27.48	25.17	24.71	25.30	26.11	27.67	27.43	29.40
23	29.99	28.38	27.28	26.55	27.26	25.16	24.78	25.18	26.14	27.74	27.43	29.48
24	29.98	28.34	27.16	26.57	26.97	25.20	24.92	25.28	26.32	27.90	27.45	29.60
25	29.98	28.29	27.08	26.59	26.58	25.38	24.92	25.44	26.50	28.02	27.46	29.45
26	29.88	28.30	27.02	26.65	26.41	25.50	24.93	25.54	26.64	28.09	27.43	29.14
27	29.87	28.30	26.97	26.70	25.96	25.53	25.12	25.49	26.65	27.94	27.50	29.04
28	29.88	28.28	26.95	26.75	25.72	25.45	25.21	25.38	26.69	27.94	27.49	29.00
29	29.87	28.19	26.93	26.80	---	25.50	25.39	25.68	26.70	28.14	27.61	28.96
30	29.82	28.06	26.94	26.82	---	25.50	25.57	25.85	26.83	28.28	27.64	28.95
31	29.77	---	26.78	26.83	---	25.35	---	25.98	---	28.35	27.58	---
MAX	30.30	29.75	28.03	26.83	27.48	25.93	25.57	25.98	26.83	28.35	28.14	29.60
WTR YR 1985 MEAN		27.06	HIGH		23.58	APR 11	LOW		30.30	OCT 16 AND OTHERS		

## GROUND-WATER RECORDS

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## BUTLER COUNTY--Continued

392021084340300. Local number, BU-56.

LOCATION.--Lat 39°20'21", long 84°34'03", Hydrologic Unit 05080002, 1.3 mi east of the Great Miami River in Fairfield.

Owner: Hamilton Water Department.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 5 in., depth 58 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 583.62 ft above National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District.) Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--November 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 39.11 ft below land-surface datum, Feb. 25-26, 1977; minimum daily low, 26.81 ft below land-surface datum, Apr. 10, 1975.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.61	37.31	35.82	34.79	34.26	33.90	32.29	31.66	31.91	32.66	33.91	33.85
2	36.63	37.15	35.83	34.76	34.32	33.90	32.22	31.66	31.99	32.41	33.99	33.89
3	36.70	37.02	35.84	34.69	34.38	33.87	32.02	31.46	32.08	32.25	33.98	34.04
4	36.74	37.01	35.85	34.55	34.39	33.77	31.72	31.42	32.10	32.17	34.02	34.15
5	36.79	37.01	35.84	34.39	34.36	33.72	31.52	31.42	32.09	32.38	34.03	34.17
6	36.86	36.92	35.64	34.38	34.44	33.61	31.43	31.42	32.11	32.56	34.00	34.25
7	36.88	36.93	35.68	34.31	34.50	33.55	31.42	31.47	32.16	32.57	34.01	34.34
8	36.95	36.86	35.58	34.29	34.56	33.32	31.38	31.50	32.18	32.68	34.03	34.46
9	37.00	36.79	35.60	34.16	34.53	33.32	31.33	31.52	32.21	32.76	33.75	34.50
10	37.00	36.72	35.57	34.00	34.56	33.31	31.25	31.55	32.25	32.79	33.65	34.57
11	36.99	36.64	35.57	33.91	34.57	33.28	31.13	31.58	32.28	32.59	33.84	34.67
12	37.00	36.58	35.58	33.87	34.59	33.21	31.08	31.64	32.08	32.74	33.95	34.73
13	37.03	36.58	35.46	33.81	34.63	33.19	31.04	31.65	32.12	32.81	33.96	34.80
14	37.06	36.43	35.26	33.92	34.65	33.11	31.04	31.70	32.19	32.73	34.05	34.86
15	37.08	36.38	35.20	33.96	34.66	33.03	31.04	31.68	32.19	32.81	34.00	34.94
16	37.14	36.35	35.14	33.77	34.67	32.99	31.09	31.59	32.08	32.96	33.94	34.99
17	37.12	36.34	35.18	33.75	34.69	32.93	31.10	31.54	32.19	33.08	33.94	35.05
18	37.16	36.23	35.26	33.81	34.70	32.90	30.83	31.51	32.19	33.19	33.93	35.09
19	37.22	36.16	35.22	33.81	34.69	32.88	30.96	31.49	32.30	33.29	33.89	35.20
20	37.23	36.08	35.28	---	34.68	32.67	31.03	31.44	32.31	33.38	33.86	35.28
21	37.27	35.88	35.28	---	34.61	32.69	31.10	31.49	32.37	33.44	33.94	35.34
22	37.30	35.65	35.22	---	34.63	32.68	31.17	31.27	32.31	33.55	33.96	35.43
23	37.31	35.66	35.18	---	34.62	32.69	31.18	31.40	32.34	33.64	34.03	35.50
24	37.33	35.66	35.16	---	34.56	32.72	31.19	31.44	32.41	33.73	34.03	35.44
25	37.35	35.70	35.16	---	34.54	32.77	31.21	31.53	32.48	33.82	34.00	35.46
26	37.24	35.79	35.13	---	34.49	32.77	31.20	31.60	32.56	33.89	33.93	35.38
27	37.29	35.79	35.06	---	34.41	32.76	31.32	31.67	32.58	33.87	33.95	35.39
28	37.33	35.58	35.01	---	34.15	32.71	31.43	31.72	32.60	33.85	33.78	35.34
29	37.33	35.67	34.97	---	---	32.74	31.50	31.76	32.60	33.75	33.91	35.43
30	37.33	35.72	34.93	---	---	32.72	31.60	31.78	32.62	33.95	33.93	35.48
31	37.33	---	34.87	---	---	32.44	---	31.83	---	34.02	33.78	---
MAX	37.35	37.31	35.85	---	34.70	33.90	32.29	31.83	32.62	34.02	34.05	35.50
WTR YR 1985 MEAN	33.96			HIGH	30.83	APR 18	LOW	37.35	OCT 25			

392048084311400. Local number, BU-8.

LOCATION.--Lat 39°20'48", long 84°31'14", Hydrologic Unit 05080002, Symmes and Gilmore Road, east of Hamilton.

Owner: Hamilton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 200 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 630 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 4.13 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 71.70 ft below land-surface datum, Oct. 24, 1944; minimum daily low, 38.24 ft below land-surface datum, June 8, 1947.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.69	53.76	51.43	47.87	48.67	47.44	45.70	45.54	45.21	47.39	48.79	49.34
2	52.74	53.59	51.45	47.93	48.79	47.31	45.48	45.54	45.31	47.40	48.91	49.40
3	52.76	53.59	51.35	47.93	48.98	47.33	45.02	45.46	45.40	47.11	48.98	49.45
4	52.78	53.26	51.40	47.46	49.03	47.11	44.84	45.15	45.51	46.70	49.02	49.49
5	52.86	53.12	51.40	47.48	49.03	47.21	44.62	44.83	45.58	46.52	49.06	49.54
6	52.93	53.14	51.16	47.48	48.98	47.37	44.61	44.72	45.68	46.40	49.11	49.62
7	52.97	53.15	51.18	47.28	49.28	47.37	44.68	44.73	45.72	46.43	49.14	49.74
8	53.00	53.15	51.17	47.43	49.45	47.15	44.70	44.81	45.73	46.43	49.13	49.83
9	53.07	52.94	51.15	47.48	49.52	47.18	44.73	44.83	45.75	46.42	48.99	49.89
10	53.17	52.76	51.04	47.47	49.53	47.18	44.73	44.84	45.84	46.43	48.84	50.00
11	53.24	52.60	51.04	47.44	49.45	46.98	44.66	44.82	45.87	46.51	48.76	50.14
12	53.28	52.63	50.95	47.48	49.24	46.77	44.68	44.78	46.02	46.62	48.74	50.33
13	53.30	52.64	50.83	47.42	49.31	46.77	44.69	44.82	46.13	46.73	48.71	50.51
14	53.30	52.61	50.88	47.23	49.36	46.68	44.63	44.90	46.23	46.82	48.71	50.58
15	53.31	52.38	50.89	47.47	49.38	46.69	44.48	44.93	46.25	46.97	48.73	50.61
16	53.42	52.28	50.75	47.50	49.38	46.63	44.56	44.93	46.29	47.21	48.74	50.64
17	53.57	52.30	50.51	47.25	49.40	46.44	44.69	44.71	46.34	47.37	48.71	50.69
18	53.61	52.24	50.50	47.24	49.47	46.52	44.72	44.71	46.41	47.47	48.59	50.79
19	53.62	52.08	50.25	47.47	49.49	46.52	44.78	44.71	46.52	47.57	48.55	50.88
20	53.65	52.20	50.23	47.67	49.48	46.57	44.86	44.71	46.64	47.66	48.60	50.92
21	53.68	52.24	50.17	47.69	49.43	46.59	44.91	44.73	46.78	47.71	48.66	50.96
22	53.77	52.24	49.83	47.76	49.21	46.59	44.98	44.74	46.90	47.82	48.73	51.00
23	53.83	52.05	49.82	47.78	48.73	46.60	45.04	---	47.00	47.97	48.78	51.03
24	53.87	51.91	49.32	47.78	48.15	46.66	45.08	---	47.07	48.07	48.79	51.23
25	53.88	51.88	49.22	48.08	48.07	46.94	45.18	---	47.10	48.16	48.83	51.28
26	53.89	51.82	49.22	48.19	47.83	46.98	45.27	---	47.11	48.26	48.92	51.33
27	53.89	51.82	48.91	48.18	47.64	46.96	45.33	---	47.13	48.38	49.09	51.43
28	53.87	51.72	48.75	48.25	47.65	46.87	45.42	---	47.16	48.45	49.18	51.58
29	53.87	51.71	48.55	48.30	---	46.96	45.50	---	47.24	48.54	49.22	51.63
30	53.87	51.51	48.51	48.42	---	46.97	45.53	---	47.36	48.65	49.24	51.64
31	53.84	---	48.45	48.50	---	46.25	---	45.07	---	48.71	49.29	---
MAX	53.89	53.76	51.45	48.50	49.53	47.44	45.70	---	47.36	48.71	49.29	51.64
WTR YR 1985 MEAN 48.64 HIGH 44.48 APR 15 LOW 53.89 OCT 26 AND OTHERS												



## GROUND-WATER RECORDS

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## BUTLER COUNTY--Continued

392445084333000. Local number BU-36.

LOCATION.--Lat 39°24'45", long 84°33'30", Hydrologic Unit 05080002, on right bank of Great Miami River 300 ft downstream from Twomile Creek in Hamilton.

Owner: Champion Paper Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled industrial supply water-table well, diameter 30 in, depth 168 ft cased.

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

## WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)
NOV 1984 29...	11:00	880	7.2	3.0	15.5	26	410	110	110	33
MAR 1985 28...	11:00	880	7.4	12.5	15.5	10	410	100	110	34
AUG 19...	14:30	890	7.3	28.5	16.0	<10	410	130	110	34

DATE	ALKALINITY FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS-SOLVED (UG/L AS CR)
NOV 1984 29...	304	98	54	0.2	553	<0.01	1.90	<1	20	<10
MAR 1985 28...	310	97	52	0.2	493	0.03	1.80	--	--	--
AUG 19...	282	96	52	0.2	569	<0.01	<0.10	<1	30	20

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 1984 29...	5	5	<3	3	3	2	10	5	1.9
MAR 1985 28...	--	--	<3	--	--	2	--	--	2.0
AUG 19...	20	20	3	4	4	1	10	10	--

## GROUND-WATER RECORDS

## BUTLER COUNTY--Continued

392515084322000. Local number, BU-5.

LOCATION.--Lat 39°25'15", long 84°32'22", Hydrologic Unit 05080002, 2.0 mi north of courthouse in Hamilton.

Owner: Hamilton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 18 in., depth 110 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 590 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 5.71 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Water level affected by pumping of nearby North Hamilton well field and by stage of the Great Miami River.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 42.05 ft below land-surface datum, Sept. 16-17, 1954; minimum daily low, 4.10 ft below land-surface datum, Jan. 23, 1959.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.75	22.89	18.08	16.39	16.36	13.81	13.30	18.61	15.19	21.09	22.38	18.20
2	18.72	19.06	18.04	16.21	16.19	13.94	12.86	18.49	15.21	16.37	22.55	22.49
3	25.00	18.81	18.07	19.98	16.16	14.03	17.18	14.17	19.60	20.04	22.56	18.23
4	25.17	18.72	18.09	15.71	16.25	14.11	17.21	13.91	15.41	20.30	17.66	17.95
5	19.43	18.53	18.05	15.77	16.30	14.21	13.01	13.81	16.38	20.40	22.42	23.65
6	19.06	18.45	18.07	15.74	20.71	19.04	12.88	13.88	17.27	21.11	17.60	22.68
7	18.94	18.47	18.08	15.77	19.52	16.82	12.87	18.88	16.34	16.47	17.39	23.36
8	18.86	22.87	18.12	15.92	20.37	14.56	12.95	14.31	19.99	21.08	23.24	23.37
9	18.84	18.70	18.08	15.95	16.61	14.49	12.99	19.35	15.40	16.41	23.53	23.05
10	18.81	18.54	18.09	20.42	16.53	14.41	18.67	14.57	18.75	21.15	24.64	23.04
11	23.54	18.41	18.08	16.20	16.55	18.98	19.05	14.55	19.91	21.34	18.83	19.92
12	19.02	18.32	17.96	15.87	16.45	18.78	18.47	14.58	15.63	20.57	18.06	22.97
13	18.88	18.32	22.71	15.74	16.43	18.53	13.64	14.63	20.00	21.49	23.42	18.62
14	18.82	18.29	18.26	15.70	16.38	18.66	13.66	20.22	15.73	16.93	23.20	18.18
15	18.82	18.29	17.76	15.90	16.40	19.19	18.42	14.89	20.44	21.62	22.99	18.06
16	18.86	18.32	17.51	15.84	16.39	14.52	18.29	18.69	15.80	16.94	21.18	22.01
17	18.88	18.31	17.42	19.90	16.37	14.36	20.03	14.78	20.55	21.97	17.76	22.18
18	18.88	18.29	17.41	16.14	16.38	14.36	20.03	14.70	15.87	22.01	17.63	22.20
19	18.86	18.35	17.41	16.03	16.47	19.18	19.96	14.63	15.80	22.21	22.01	18.27
20	18.89	18.35	17.41	16.02	16.41	19.07	14.65	14.63	20.58	22.13	17.79	22.48
21	18.87	18.38	17.39	15.99	16.34	19.09	14.46	14.68	16.04	17.31	17.64	23.47
22	18.90	18.27	17.21	16.02	16.26	19.65	19.30	19.47	19.93	21.79	21.97	18.41
23	18.88	18.29	17.02	15.99	15.64	14.97	20.14	19.57	16.16	17.13	17.82	18.05
24	18.88	18.29	16.87	21.75	14.65	14.87	14.78	18.90	20.87	22.15	17.67	22.82
25	22.95	18.31	16.86	16.38	13.90	14.85	18.86	14.90	16.19	22.35	17.58	18.56
26	19.12	18.30	16.82	16.31	14.57	14.82	20.63	14.91	16.07	21.27	17.59	22.07
27	18.98	18.29	16.85	16.25	18.31	14.89	15.14	20.01	20.72	17.48	22.36	18.32
28	18.94	23.86	17.08	16.24	18.48	14.80	14.93	15.15	16.21	17.18	23.19	22.57
29	18.92	18.55	17.13	16.36	---	18.62	14.89	15.05	20.88	22.00	21.97	18.34
30	18.81	18.24	17.13	16.17	---	14.93	14.84	20.75	16.46	17.38	22.19	18.12
31	18.83	---	16.70	20.60	---	14.05	---	15.31	---	21.96	22.54	---
MAX	25.17	23.86	22.71	21.75	20.71	19.65	20.63	20.75	20.88	22.35	24.64	23.65

WTR YR 1985 MEAN 18.12 HIGH 12.86 APR 2 LOW 25.17 OCT 4

## GROUND WATER RECORDS

257

## BUTLER COUNTY--Continued

392733084293000. Local number, BU-16.

LOCATION.--Lat 39°27'33", long 84°29'30", Hydrologic Unit 05080002, Wayn-Madison Rd. 2 mi southwest of Trenton.

Owner: Miller Brewing Co.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 4 in., depth 218 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 640 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter, 1.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 18.12 ft below land-surface datum, Nov. 17, 1983; minimum daily low, 10.55 ft below land-surface datum, May 4-8, 17-21, 1985.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.49	17.24	16.71	15.10	15.40	14.28	11.33	12.05	10.66	11.86	12.80	14.01
2	15.53	16.60	16.70	14.87	15.40	13.72	11.28	11.87	10.69	11.86	13.03	14.01
3	15.58	16.50	17.43	15.31	15.41	13.73	11.40	10.56	10.76	11.76	12.98	14.02
4	15.59	16.49	16.84	14.80	15.41	14.14	11.43	10.55	10.79	11.76	12.98	14.03
5	15.61	16.48	16.84	14.78	15.41	13.79	11 50	10.55	10.84	11.79	13.63	14.06
6	15.65	16.57	16.84	14.78	15.41	14.36	11.51	10.55	11.13	11.84	13.11	14.09
7	15.69	16.47	16.84	14.78	16.18	13.83	11.49	10.55	11.12	11.86	13.11	14.12
8	15.70	16.48	16.86	14.79	15.64	13.75	11.49	10.55	10.97	11.93	13.11	14.16
9	16.64	16.48	16.88	14.80	15.61	13.72	11.49	11.03	10.94	11.94	13.11	14.20
10	15.94	16.49	17.15	14.81	15.61	13.66	11.49	11.11	10.94	11.99	13.12	14.25
11	15.95	16.48	17.43	15.63	15.59	13.64	11.74	10.65	10.99	12.05	13.13	14.29
12	15.97	17.10	17.38	15.04	15.58	13.48	11.66	10.65	11.03	12.86	13.14	14.31
13	15.97	16.61	17.36	15.03	16.18	13.08	11.66	10.74	11.64	12.32	13.19	14.33
14	15.98	17.17	16.78	15.01	16.15	13.04	11.66	11.26	11.35	12.32	13.23	14.40
15	16.00	16.67	16.57	15.01	15.51	13.78	11.67	10.70	11.31	12.32	13.28	14.43
16	16.07	17.28	16.41	15.22	15.46	13.19	11.68	10.56	11.30	12.33	13.50	14.48
17	16.08	16.66	16.38	15.74	15.44	13.19	11.68	10.55	11.30	13.07	13.44	14.50
18	16.10	16.65	16.37	15.23	15.44	13.22	11.68	10.55	11.30	12.49	13.44	14.54
19	16.79	16.65	16.63	15.15	15.44	13.23	11.74	10.55	11.32	12.49	13.45	14.59
20	16.27	17.42	17.14	15.14	15.44	13.24	11.77	10.55	11.34	12.50	13.46	14.70
21	16.27	16.95	16.58	15.14	16.08	13.28	11.79	10.55	11.36	12.51	13.47	14.71
22	16.65	16.83	16.42	15.14	15.41	13.29	11.81	10.93	11.38	12.51	14.30	14.72
23	16.37	16.82	15.54	15.14	14.35	13.31	11.84	10.66	11.43	12.51	13.73	15.00
24	16.36	16.82	15.50	15.85	13.36	13.35	11.88	11.00	11.50	12.54	13.73	15.52
25	16.37	16.82	15.51	15.26	13.33	13.40	11.93	10.66	11.55	12.56	13.73	15.03
26	16.38	17.06	15.54	15.23	13.34	13.42	11.95	10.64	11.60	13.41	13.73	15.01
27	16.39	16.95	15.57	15.23	13.42	13.43	11.98	10.64	12.40	12.80	13.75	15.01
28	16.42	17.58	15.58	15.23	14.25	13.44	11.98	10.63	11.93	12.71	13.78	15.01
29	16.50	16.81	15.61	15.23	---	13.46	11.99	10.63	11.88	12.72	14.05	15.02
30	16.50	16.81	15.63	---	---	13.47	12.02	10.64	11.85	12.73	14.56	15.03
31	16.51	---	15.21	---	---	12.81	---	10.64	---	12.76	14.01	---
MAX	16.79	17.58	17.43	---	16.18	14.36	12.02	12.05	12.40	13.41	14.56	15.52
WTR YR 1985	MEAN	13.92		HIGH	10.55	MAY 4 AND OTHERS		LOW	17.58	NOV 28		

3929390 84 23 17 00. Local number, BU-3.

LOCATION.--Lat 39°29'39", long 84°23'17", Hydrologic Unit 05080002, Armco Steel Corp. Rt. 122 in Middletown.

Owner: Armco Steel Corp.

**WELL CHARACTERISTICS.**--Drilled unused artesian well, diameter 24 in., depth 250 ft, cased.

**INSTRUMENTATION.**--Type F continuous recorder

DATUM.--Elevation of land-surface datum is 668 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 1.08 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

REMARKS.--Station operated by Ohio Department  
PERIOD OF RECORD.--July 1938 to current year

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 147.27 ft below land-surface datum, Apr. 4, 1955; minimum daily low, 45.27 ft below land-surface datum, July 21, 1980.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56.36	56.12	58.24	55.94	55.16	55.25	52.50	51.28	53.43	53.28	54.55	51.55
2	56.29	56.19	58.19	55.98	55.11	55.28	52.48	51.28	53.36	53.12	53.88	51.57
3	56.24	56.03	58.10	55.93	55.11	55.28	52.28	52.27	53.31	53.33	53.74	51.56
4	56.39	55.84	58.12	55.65	55.04	55.00	52.28	52.39	53.32	53.44	53.45	51.57
5	56.43	56.12	58.07	55.78	54.77	55.29	52.15	52.40	53.26	53.94	53.14	51.58
6	56.42	56.16	57.88	55.78	54.67	55.31	52.30	52.44	53.31	53.75	52.92	51.69
7	56.25	56.20	57.22	55.56	54.73	55.14	52.30	52.76	52.82	53.84	52.67	51.72
8	56.18	56.17	56.40	55.77	54.73	55.02	52.23	53.05	52.18	53.84	52.48	51.72
9	56.23	56.11	56.22	55.80	54.67	55.03	52.18	53.18	52.05	53.96	52.30	51.70
10	56.29	55.98	55.98	55.64	54.56	54.97	52.13	53.24	52.03	54.00	52.05	51.84
11	56.29	56.15	56.00	55.67	54.34	54.82	51.99	53.22	51.92	54.19	51.84	51.91
12	56.29	56.21	60.40	55.67	54.12	54.96	52.03	53.24	51.26	54.26	51.63	51.99
13	56.22	56.23	59.25	55.48	54.27	54.98	51.96	53.41	51.70	54.32	51.44	52.03
14	56.08	56.23	57.34	55.36	54.29	54.77	51.84	54.07	51.88	54.31	51.28	52.02
15	56.08	56.13	56.97	55.61	54.30	53.89	51.68	54.07	53.03	54.43	51.08	51.97
16	56.14	56.16	56.75	55.73	54.85	53.55	51.86	53.90	52.05	54.55	51.03	51.91
17	56.16	56.16	56.54	55.80	55.38	53.24	51.90	53.66	51.87	54.59	50.87	51.99
18	56.11	56.00	56.50	55.85	55.48	53.23	51.74	53.66	52.35	54.31	50.70	52.06
19	56.02	56.14	56.38	56.07	55.51	53.14	51.69	53.58	52.90	54.25	50.56	52.08
20	56.03	56.19	56.28	56.18	55.50	53.00	51.66	53.50	53.17	54.31	50.57	52.03
21	55.95	56.19	56.21	56.18	55.49	53.03	51.61	53.62	53.24	54.31	50.74	51.96
22	56.08	56.19	56.25	56.14	55.46	53.48	51.57	53.58	53.27	54.37	50.87	51.96
23	56.12	56.33	56.25	55.88	55.46	53.91	51.51	53.43	53.27	54.50	51.57	51.93
24	56.04	56.37	56.00	55.60	55.29	54.02	51.47	53.40	53.55	54.53	51.58	52.08
25	56.05	56.34	56.28	55.80	55.43	54.32	51.50	53.40	53.60	54.59	51.21	52.06
26	55.93	56.34	56.21	55.85	55.37	54.35	51.43	53.33	53.77	54.61	51.34	51.99
27	55.91	56.36	55.97	55.64	55.42	54.23	51.40	53.29	54.01	54.74	51.44	52.51
28	55.90	56.50	55.83	55.57	55.43	53.40	51.41	53.35	54.22	54.89	51.47	52.81
29	56.05	59.38	55.80	55.62	---	52.81	51.43	53.37	54.22	54.96	51.45	52.60
30	56.06	57.77	55.93	55.52	---	52.79	51.32	53.35	53.90	55.05	51.49	52.33
31	56.15	---	55.80	55.16	---	52.69	---	53.38	---	54.57	51.53	---
MAX	56.43	59.38	60.40	56.18	55.51	55.31	52.50	54.07	54.22	55.05	54.55	52.81
WTR YR 1985	MEAN	54.20		HIGH	50.56	AUG 19	LOW	60.40	DEC 12			



## GROUND-WATER RECORDS

259

## BUTLER COUNTY--Continued

393103084240900. Local number, BU-2

LOCATION.--Lat 39°31'03", long 84°24'09", Hydrologic Unit 05080002, in basement of YMCA in Middletown.

Owner: Middletown YMCA.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 88 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 636.27 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of platform 14.77 ft below land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 52.15 ft below land-surface datum, Sept. 28, Nov. 5, 1953 and Jan. 22, 1954; minimum daily low, 27.30 ft below land-surface datum, June 17, 1980.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	37.10	35.65	31.90	33.95	35.25	33.45	31.15	32.10	33.90	34.50	34.60
2	---	37.15	34.55	33.55	33.85	34.80	33.60	30.85	31.90	33.25	34.25	35.05
3	37.05	37.00	36.15	33.85	33.70	33.85	33.20	30.85	31.75	32.70	34.05	36.00
4	37.05	36.70	35.75	33.35	33.70	34.05	33.05	30.45	31.45	32.15	33.40	36.35
5	37.15	36.80	35.90	32.90	33.70	34.60	32.85	30.05	31.75	33.05	34.30	36.30
6	37.00	37.00	35.60	32.55	33.50	34.25	32.40	31.10	31.55	31.60	34.70	36.30
7	36.75	37.10	35.85	33.45	34.00	33.40	31.75	30.25	31.50	31.45	34.75	37.05
8	37.05	37.15	37.10	33.55	33.95	33.55	33.15	30.35	31.55	34.75	34.80	36.90
9	37.25	36.85	35.75	33.75	34.15	33.05	32.60	30.10	31.25	34.65	35.80	36.80
10	37.25	36.70	35.60	33.65	34.15	32.85	32.35	30.65	31.75	35.30	35.85	37.10
11	36.90	37.00	35.95	33.45	35.90	33.25	31.35	31.35	31.80	---	35.90	36.55
12	37.20	36.95	36.10	33.50	35.50	33.15	31.45	30.95	32.40	---	36.45	36.15
13	37.25	37.05	35.85	32.80	36.40	33.35	31.25	32.15	32.50	---	38.00	36.35
14	37.30	37.05	35.95	34.40	36.20	33.15	31.05	31.05	32.25	---	38.20	35.65
15	37.50	37.15	35.15	35.00	36.85	33.10	30.95	30.40	31.70	---	35.65	35.35
16	37.35	37.15	33.85	35.00	34.70	32.65	31.00	30.50	31.95	---	35.50	35.65
17	37.25	37.05	36.05	34.75	36.45	33.05	30.60	30.60	32.25	---	35.00	36.65
18	37.40	36.65	36.10	34.95	37.10	33.15	31.05	30.45	32.55	---	34.55	36.70
19	37.40	37.00	36.20	33.45	37.25	32.55	31.20	30.70	34.20	---	35.65	36.85
20	37.00	37.15	36.05	32.45	35.85	32.45	30.70	31.70	34.70	---	34.75	36.95
21	36.20	37.00	35.65	33.55	35.60	32.90	31.45	32.50	32.10	---	35.75	36.55
22	37.00	36.35	35.30	33.50	35.55	32.55	32.30	31.25	32.05	---	35.65	35.90
23	37.20	34.85	34.15	33.80	34.70	32.85	30.95	31.25	32.05	---	36.00	36.25
24	37.35	34.55	33.35	33.80	34.05	32.60	30.95	31.35	32.05	---	34.85	36.00
25	37.15	34.80	31.50	33.85	34.80	33.10	30.60	31.55	32.45	---	34.15	36.15
26	37.30	35.80	31.20	33.50	34.65	33.15	31.35	31.05	32.50	---	35.15	35.75
27	37.15	36.45	32.75	33.15	35.90	33.65	30.40	31.35	33.35	---	34.50	36.15
28	37.15	36.40	32.65	---	35.05	32.50	30.75	31.45	33.40	---	34.75	36.05
29	37.05	36.05	32.90	---	---	35.05	30.85	31.40	33.55	---	35.65	36.90
30	37.15	35.85	32.25	---	---	35.20	31.30	31.30	33.65	---	35.10	---
31	37.00	---	32.80	---	---	33.10	---	31.85	---	---	34.35	---
MAX	---	37.15	37.10	---	37.25	35.25	33.60	32.50	34.70	---	38.20	---
WTR YR 1985 MEAN		34.23		HIGH	30.05	MAY 5	LOW	38.20	AUG 14			

## GROUND-WATER RECORDS

## CARROLL COUNTY

403709081052800. Local number, C-1.

LOCATION.--Lat 40°37'09", long 81°05'28", Hydrologic Unit 05040001, Carrollton well field, State Route 171, 3 mi north of Carrollton.

Owner: Carrollton Water Department.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 70 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1050 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of platform 3.0 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 40.70 ft below land-surface datum, Nov. 19, 1957; minimum daily low, 7.20 ft below land-surface datum, Jan. 10, 1971.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.32	37.22	37.68	27.81	25.91	23.52	24.24	24.92	---	27.58	28.18	29.72
2	35.40	37.29	37.66	27.69	25.96	23.11	24.18	24.96	---	27.61	28.17	29.80
3	35.58	37.37	37.42	27.29	25.99	22.79	23.98	25.04	---	27.68	28.15	29.75
4	35.67	37.43	37.12	26.66	25.96	22.23	23.97	25.03	---	27.75	28.12	29.60
5	35.81	37.52	37.29	26.60	25.90	21.72	23.65	25.11	27.89	27.92	28.10	29.58
6	35.92	37.83	37.52	26.51	26.17	21.70	23.83	25.22	27.95	28.16	27.99	29.67
7	36.01	38.10	37.54	26.13	26.36	21.39	23.82	25.32	27.92	28.32	27.96	29.78
8	36.12	38.32	37.56	26.16	26.41	21.69	23.95	25.35	27.98	28.32	27.93	29.81
9	36.23	38.46	37.64	26.12	26.53	22.13	24.36	25.34	28.09	28.41	27.92	29.80
10	36.32	38.59	37.72	25.85	26.58	22.62	24.32	25.44	28.16	28.53	27.90	29.78
11	36.41	38.76	37.73	25.61	26.60	22.61	24.17	25.50	28.17	28.63	27.98	29.83
12	36.50	38.76	37.77	25.52	26.72	23.03	24.14	25.64	28.29	28.71	27.98	29.96
13	36.58	38.76	37.75	25.34	27.06	22.92	23.92	25.79	28.12	28.73	27.98	30.00
14	36.67	38.72	37.48	25.28	27.11	23.04	23.84	25.78	28.03	28.87	28.01	30.11
15	36.75	38.55	36.85	25.32	27.17	23.33	23.98	25.88	27.86	28.91	28.15	30.20
16	36.81	38.51	36.08	25.25	27.19	23.43	24.23	25.93	27.74	28.96	28.30	30.20
17	36.78	38.40	35.33	25.07	27.46	23.74	24.20	26.17	27.72	28.93	28.34	30.16
18	36.72	38.29	34.56	25.04	27.43	23.75	24.07	26.34	27.41	28.95	28.45	30.16
19	36.68	38.22	33.79	25.11	27.45	23.70	24.04	26.49	27.33	29.03	28.58	30.10
20	36.66	38.15	33.24	25.09	27.52	23.75	24.12	26.60	27.22	29.20	28.64	30.06
21	36.71	38.09	32.62	25.05	27.48	23.73	24.21	26.69	27.12	29.40	28.71	30.01
22	36.72	38.01	31.95	25.23	27.56	23.72	24.20	---	26.98	29.38	28.77	30.08
23	36.74	37.96	31.42	25.31	27.43	23.75	24.18	---	26.94	29.13	28.81	30.11
24	36.76	37.92	31.00	25.39	26.90	23.91	24.14	---	26.88	28.87	28.99	30.22
25	36.75	37.88	30.72	25.70	26.71	23.94	24.44	---	26.93	28.73	29.14	30.25
26	36.81	37.83	30.18	25.75	25.72	23.95	24.61	---	27.22	28.60	29.24	30.82
27	36.84	37.80	29.52	25.74	24.83	23.93	24.77	---	27.37	28.57	29.24	31.38
28	36.92	37.80	29.24	25.96	24.33	23.96	25.05	---	27.34	28.54	29.26	31.77
29	36.97	37.75	28.85	25.99	---	24.23	25.00	---	27.43	28.44	29.28	32.13
30	37.01	37.69	28.72	25.90	---	24.33	24.95	---	27.52	28.38	29.41	32.30
31	37.02	---	28.26	25.91	---	24.25	---	---	---	28.23	29.56	---
MAX	37.02	38.76	37.77	27.81	27.56	24.33	25.05	---	---	29.40	29.56	32.30
WTR YR 1985	MEAN	29.24		HIGH	21.39	MAR 7	LOW	38.76	NOV 11	AND OTHERS		

## GROUND-WATER RECORDS

261

## CHAMPAIGN COUNTY

4006380 83453900. Local number, CH-3.

LOCATION.--Lat 40°06'38", long 83°45'39", Hydrologic Unit 05080001, in Urbana.

Owner: Howard Paper Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 40 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1030 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 4.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.80 ft below land-surface datum, Feb. 26-29, Mar. 13, 1964;  
minimum daily low, 12.45 ft below land-surface datum, Mar. 24, 1975.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.99	18.60	18.60	18.13	18.18	17.31	16.74	16.62	16.97	17.57	17.94	18.43
2	18.07	18.64	18.54	18.11	18.21	17.28	16.66	16.45	16.91	17.57	17.98	18.40
3	18.06	18.68	18.58	18.13	18.23	17.28	16.61	16.41	16.99	17.57	18.03	18.47
4	18.08	18.68	18.62	18.11	18.23	17.27	16.56	16.42	17.04	17.57	17.94	18.52
5	18.12	18.54	18.65	18.09	18.23	17.25	16.53	16.40	17.08	17.57	18.05	18.56
6	18.14	18.49	18.64	18.06	18.25	17.27	16.41	16.42	17.13	17.55	18.08	---
7	18.15	18.48	18.67	18.08	18.26	17.27	16.37	16.48	17.16	17.56	18.09	---
8	18.15	18.49	18.68	18.08	18.28	17.24	16.35	16.50	17.18	17.67	18.11	---
9	18.18	18.49	18.64	18.11	18.28	17.23	16.36	16.51	17.12	17.72	18.13	---
10	18.25	18.48	18.68	18.11	18.24	17.16	16.37	16.55	17.19	17.77	18.15	---
11	18.31	18.42	18.68	18.11	18.28	17.16	16.37	16.57	17.22	17.82	18.16	---
12	18.35	18.40	18.69	18.11	18.22	17.12	16.36	16.53	17.13	17.84	18.18	---
13	18.38	18.38	18.70	18.09	18.21	17.12	16.37	16.62	17.16	17.87	18.21	---
14	18.25	18.42	18.68	18.10	18.26	17.10	16.36	16.67	17.19	17.82	18.24	---
15	18.33	18.43	18.63	18.13	18.27	17.11	16.39	16.68	17.23	17.58	18.26	---
16	18.39	18.45	18.58	18.15	18.26	17.10	16.39	16.71	17.14	17.64	18.22	---
17	18.45	18.47	18.54	18.15	18.27	17.09	16.41	16.65	17.11	17.67	18.27	---
18	18.49	18.47	18.51	18.14	18.28	17.09	16.38	16.67	17.15	17.70	18.29	---
19	18.51	18.49	18.50	18.15	18.28	17.08	16.39	16.69	17.18	17.73	18.30	---
20	18.54	18.51	18.50	18.09	18.29	17.08	16.42	16.72	17.20	17.78	18.32	---
21	18.54	18.55	18.48	18.11	18.29	17.10	16.42	16.75	17.23	17.69	18.36	---
22	18.59	18.57	18.49	18.14	18.28	17.08	16.44	16.75	17.25	17.66	18.38	---
23	18.60	18.44	18.41	18.11	18.06	17.09	16.44	16.78	17.27	17.73	18.40	---
24	18.66	18.40	18.36	18.11	17.85	17.02	16.44	16.81	17.40	17.78	18.42	---
25	18.70	18.40	18.32	18.11	17.60	17.07	16.48	16.85	17.45	17.82	18.30	---
26	18.73	18.53	18.30	18.11	17.49	17.08	16.48	16.67	17.51	17.84	18.35	---
27	18.73	18.62	18.31	18.06	17.41	17.10	16.52	16.67	17.56	17.88	18.39	---
28	18.67	18.62	18.30	18.09	17.36	17.12	16.41	16.79	17.61	17.80	18.42	---
29	18.51	18.61	18.30	18.14	---	17.10	16.53	16.86	17.63	17.85	18.46	---
30	18.54	18.61	18.24	18.16	---	16.99	16.58	16.90	17.66	17.90	18.48	---
31	18.57	---	18.17	18.15	---	16.89	---	16.95	---	17.92	18.50	---
MAX	18.73	18.68	18.70	18.16	18.29	17.31	16.74	16.95	17.66	17.92	18.50	---
WTR YR 1985 MEAN	17.75				16.35	APR 8	LOW	18.73	OCT 26	AND OTHERS		

## GROUND-WATER RECORDS

## CLARK COUNTY

395639084012200. Local number, CL-9.

LOCATION.--Lat 39°56'39", long 84°01'22", Hydrologic Unit 05080001, at north edge of New Carlisle.

Owner: New Carlisle Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 113 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 900 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of platform 2.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 31.25 ft below land-surface datum, July 13, 1977; minimum daily low, 18.20 ft below land-surface datum, July 4, 1980.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.74	26.93	27.64	27.32	27.57	27.14	25.39	23.38	23.66	24.49	25.43	25.90
2	26.87	27.01	27.71	27.14	27.97	27.16	24.95	22.88	23.78	24.67	25.55	26.32
3	27.04	26.87	27.67	27.12	27.65	27.24	25.13	22.65	23.69	24.61	25.32	26.07
4	26.98	26.90	27.61	26.90	27.89	27.12	24.93	22.64	23.59	24.63	25.56	26.08
5	26.78	26.98	27.46	26.99	27.75	26.71	25.10	22.53	23.75	24.84	25.40	26.24
6	26.66	26.46	27.63	27.12	27.85	26.87	25.62	22.55	23.76	24.87	25.36	26.59
7	27.01	26.38	27.70	27.15	27.94	26.93	24.96	22.60	24.08	24.70	25.54	26.50
8	26.97	26.62	27.72	27.12	28.04	26.57	25.16	22.67	23.88	24.91	25.62	26.51
9	26.73	26.22	27.92	26.47	28.17	26.63	24.94	22.72	23.86	24.92	25.64	26.42
10	26.67	26.42	27.81	27.70	28.10	26.48	24.94	22.74	24.54	25.33	25.81	26.47
11	27.03	26.76	27.34	27.23	27.98	26.56	24.69	22.81	25.32	25.12	25.56	26.51
12	26.81	26.65	28.21	26.77	28.45	26.37	25.33	22.98	25.04	25.03	25.91	26.45
13	26.93	27.64	28.16	27.10	28.02	26.38	25.18	23.18	24.33	25.12	25.83	26.56
14	26.80	27.66	27.56	27.30	27.88	25.86	25.98	23.22	23.88	25.32	25.90	26.48
15	27.11	27.48	27.57	26.87	28.06	26.00	25.12	23.01	23.76	25.18	25.73	26.52
16	27.16	27.40	27.41	26.89	28.26	25.82	25.42	22.96	23.86	25.06	25.81	26.61
17	27.48	27.54	27.56	27.18	28.18	25.98	25.24	23.05	23.82	25.07	25.82	26.54
18	27.70	27.61	27.46	27.30	28.17	25.80	25.44	22.69	23.87	25.22	25.82	26.64
19	27.16	27.44	27.22	27.32	28.13	25.97	25.50	22.86	24.04	25.22	25.90	26.64
20	27.61	27.27	28.04	28.16	27.95	26.06	25.59	23.26	23.93	25.27	25.75	26.61
21	27.17	28.07	27.29	27.66	27.95	25.98	25.58	23.04	23.90	25.38	25.95	26.71
22	27.37	27.63	27.66	27.11	27.91	25.84	22.61	23.06	24.16	25.48	25.92	26.79
23	27.17	27.52	27.40	27.39	27.89	26.07	23.52	23.25	24.20	25.40	25.84	26.71
24	27.36	27.66	27.38	27.41	27.69	25.84	25.20	23.36	24.21	25.53	25.87	26.75
25	27.03	27.66	27.52	27.79	27.43	26.11	22.63	23.51	24.13	25.39	25.97	26.90
26	27.19	27.77	27.45	27.16	27.32	26.09	23.04	23.50	24.22	25.49	25.79	26.70
27	27.56	27.83	27.41	27.49	27.33	26.44	23.47	23.55	24.31	25.45	25.99	26.78
28	27.23	27.58	27.37	27.15	27.12	26.65	23.42	23.42	24.44	25.44	25.92	26.75
29	27.19	27.73	27.47	27.38	---	25.83	23.10	23.55	24.68	25.54	25.89	27.13
30	27.09	27.56	27.51	27.44	---	26.01	25.82	23.44	24.67	25.61	26.03	26.92
31	26.90	---	27.26	27.70	---	25.55	---	23.14	---	25.38	26.01	---
MAX	27.70	28.07	28.21	28.16	28.45	27.24	25.98	23.55	25.32	25.61	26.03	27.13
WTR YR 1985	MEAN	26.05		HIGH	22.53	MAY 5	LOW	28.45	FEB 12			



## GROUND-WATER RECORDS

263

## CLARK COUNTY--Continued

395840083495200. Local number, CL-7.

LOCATION.--Lat 39°58'40", long 83°49'52", Hydrologic Unit 05080001. Eagle City Road northwest of Springfield.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 50 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 928.02 ft. Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 30.17 ft below land-surface datum, Feb. 18, 19, 1961; minimum daily low, 10.04 ft below land-surface datum, June 16, 1981.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.81	17.23	17.22	16.25	16.53	14.99	12.91	13.17	13.44	14.33	15.01	15.39
2	16.84	17.25	17.22	16.10	16.58	14.91	12.54	13.11	13.47	14.35	15.06	15.43
3	16.88	17.25	17.22	15.90	16.63	14.81	12.33	12.82	13.50	14.35	15.08	15.47
4	16.94	17.25	17.22	15.72	16.67	14.69	12.28	12.55	13.53	14.35	15.10	15.50
5	17.00	17.17	17.22	15.60	16.75	14.63	12.25	12.43	13.59	14.34	15.10	15.55
6	17.04	17.11	17.23	15.56	16.84	14.60	12.22	12.36	13.65	14.31	15.12	15.58
7	17.04	17.07	17.25	15.51	16.92	14.55	12.21	12.38	13.70	14.30	15.14	15.61
8	17.04	17.05	17.29	15.49	16.97	14.50	12.13	12.45	13.72	14.25	15.16	15.68
9	17.04	17.05	17.30	15.53	17.03	14.43	12.11	12.51	13.76	14.21	15.18	15.74
10	17.04	17.04	17.30	15.55	17.08	14.37	12.11	12.57	13.79	14.23	15.17	15.81
11	17.05	17.01	17.30	15.59	17.12	14.31	12.18	12.61	13.79	14.27	15.19	15.82
12	17.08	16.98	17.31	15.64	17.18	14.19	12.25	12.64	13.81	14.32	15.19	15.83
13	17.09	16.95	17.32	15.65	17.20	14.05	12.29	12.69	13.82	14.33	15.22	15.88
14	17.09	16.93	17.32	15.68	17.23	13.90	12.30	12.78	13.83	14.35	15.29	15.93
15	17.08	16.93	17.25	15.75	17.27	13.82	12.31	12.82	13.83	14.36	15.34	16.00
16	17.09	16.95	17.14	15.78	17.29	13.74	12.37	12.82	13.84	14.33	15.31	16.07
17	17.14	16.97	17.00	15.83	17.31	13.66	12.40	12.83	13.84	14.36	15.30	16.13
18	17.16	16.98	16.88	15.89	17.35	13.64	12.47	12.84	13.85	14.40	15.29	16.15
19	17.19	16.98	16.81	15.96	17.38	13.59	12.52	12.85	13.91	14.45	15.28	16.19
20	17.21	17.03	16.79	15.99	17.42	13.61	12.59	12.87	13.96	14.51	15.26	16.23
21	17.21	17.07	16.76	16.01	17.45	13.61	12.63	12.94	14.01	14.54	15.26	16.23
22	17.21	17.10	16.72	16.01	17.45	13.60	12.66	12.97	14.05	14.57	15.26	16.26
23	17.19	17.13	16.70	16.04	17.18	13.60	12.72	13.01	14.06	14.64	15.26	16.28
24	17.22	17.13	16.65	16.11	16.46	13.60	12.79	13.08	14.07	14.67	15.26	16.28
25	17.25	17.14	16.62	16.15	15.93	13.59	12.85	13.15	14.10	14.71	15.27	16.27
26	17.27	17.16	16.59	16.18	15.56	13.62	12.91	13.18	14.15	14.78	15.28	16.25
27	17.27	17.19	16.56	16.22	15.33	13.65	12.98	13.21	14.19	14.84	15.33	16.29
28	17.27	17.20	16.55	16.27	15.14	13.68	13.05	13.25	14.24	14.84	15.35	16.29
29	17.23	17.20	16.53	16.34	---	13.68	13.08	13.27	14.29	14.88	15.39	16.29
30	17.19	17.20	16.50	16.39	---	13.61	13.14	13.31	14.31	14.93	15.40	16.29
31	17.19	---	16.40	16.45	---	13.40	---	13.38	---	14.96	15.40	---
MAX	17.27	17.25	17.32	16.45	17.45	14.99	13.14	13.38	14.31	14.96	15.40	16.29
WTR YR 1985 MEAN	15.23			HIGH	12.11	APR 9 AND OTHERS		LOW	17.45	FEB 21 AND OTHERS		

COSHOCTON COUNTY

401256081525100. Local number, CS-3.

LOCATION.--Lat 40°12'56", long 81°52'51", Hydrologic Unit 05040004, 1.5 mi north of Conesville.

Owner: Universal Cyclops Corp.

**AQUIFER.**--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 110 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 745 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 36.98 ft below land-surface datum, Oct. 16, 1973; minimum daily low, 21.40 ft below land-surface datum, July 10, 1969.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.51	32.03	30.91	28.95	31.40	27.61	28.77	30.85	30.56	30.70	32.57	32.34
2	32.74	32.09	31.14	28.80	31.48	27.08	28.47	30.97	30.32	30.71	32.64	32.08
3	32.79	32.06	31.31	28.84	31.39	26.51	27.91	30.98	30.14	30.73	32.63	32.07
4	32.82	31.84	31.39	28.86	31.37	25.90	27.54	30.78	30.25	30.74	32.33	32.27
5	32.84	31.69	31.46	28.83	31.57	25.77	27.06	30.41	30.25	30.78	32.71	32.34
6	32.78	31.56	31.47	28.79	31.74	25.76	26.56	30.38	30.37	30.79	32.78	32.42
7	32.76	31.45	31.34	29.09	31.86	25.76	26.28	30.42	30.54	30.76	32.84	32.46
8	32.96	31.50	31.49	29.28	31.97	25.78	26.50	30.54	30.58	30.73	32.89	31.50
9	33.03	31.57	31.46	29.44	32.02	25.81	26.67	30.62	30.42	30.90	32.89	32.66
10	33.04	31.52	31.38	29.62	31.90	25.84	26.84	30.79	30.57	31.18	32.84	32.74
11	32.92	31.33	31.22	29.80	31.90	25.90	27.00	30.81	30.81	31.41	32.69	32.79
12	32.87	31.12	31.08	29.99	32.09	25.98	27.16	30.79	30.76	31.49	32.66	32.82
13	32.83	30.96	30.88	30.18	32.18	25.98	27.17	30.91	30.73	31.55	32.70	32.87
14	32.75	30.86	30.63	30.42	32.20	25.84	27.31	31.12	30.43	31.51	32.52	32.80
15	32.72	30.82	30.30	30.61	32.17	25.94	27.78	31.24	30.09	31.70	32.55	32.56
16	32.74	30.91	29.99	30.72	32.10	25.96	28.15	31.30	29.80	31.89	32.72	32.74
17	32.77	30.84	29.95	30.91	31.96	26.17	28.45	31.27	29.90	31.90	32.67	32.90
18	32.73	30.60	30.06	31.08	31.76	26.81	28.69	31.27	30.03	31.91	32.30	33.13
19	32.82	30.85	30.08	31.07	31.83	27.27	28.93	30.93	30.19	31.96	32.18	33.29
20	32.82	30.97	30.07	31.00	31.83	27.68	28.96	30.96	30.35	31.94	32.29	33.37
21	32.71	30.97	29.95	31.04	31.89	28.03	29.11	31.12	30.52	31.88	32.37	33.25
22	32.82	30.82	29.79	31.17	31.93	28.36	29.45	31.20	30.40	31.73	32.40	32.99
23	32.58	30.62	29.52	31.21	31.90	28.53	29.69	31.22	30.46	31.77	32.44	33.31
24	32.52	30.55	29.32	31.17	31.27	28.55	29.91	31.27	30.70	31.81	32.46	33.36
25	32.32	30.75	29.21	31.13	30.32	29.06	30.03	31.28	30.86	31.86	32.41	33.33
26	32.23	30.91	29.12	31.21	29.52	29.34	30.22	31.06	30.98	31.90	32.61	33.37
27	32.21	30.99	29.23	31.11	28.84	29.54	30.31	30.91	30.99	31.91	32.65	33.37
28	32.14	31.07	29.23	30.96	28.21	29.72	30.33	31.16	31.06	31.91	32.67	33.16
29	32.47	31.12	29.27	31.14	---	29.86	30.50	31.23	30.98	32.23	32.73	32.91
30	32.47	31.05	29.30	31.22	---	29.75	30.68	31.10	30.76	32.36	32.77	33.07
31	32.35	---	29.17	31.31	---	29.25	---	30.81	---	32.48	32.73	---
MAX	33.04	32.09	31.49	31.31	32.20	29.86	30.68	31.30	31.06	32.48	32.89	33.37
WTR YR 1985 MEAN	30.83		HIGH		25.76	MAR 6 AND OTHERS			LOW		33.37	SEP 20 AND OTHERS

## 265

400 5140 84345700. Local number, D-2.

LOCATION.--Lat 40°05'14", long 84°34'57", Hydrologic Unit 05080001, State Route 571, 3 mi east of Greenville.

Owner: Greenville Water Department.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 70 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1038 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.43 ft below land-surface datum, Nov. 29, 1977; minimum daily low, 16.76 ft below land-surface datum, Apr. 14, 1980.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.15	19.47	19.60	19.21	18.91	18.28	18.04	17.85	17.99	18.18	18.47	18.82
2	19.15	19.61	19.60	19.20	18.99	18.53	18.04	17.92	17.90	18.07	18.52	18.85
3	19.14	19.41	19.63	19.10	19.08	18.53	17.89	17.99	18.01	18.10	18.44	18.77
4	19.23	19.28	19.65	18.68	18.98	18.17	17.89	17.89	18.00	18.10	18.44	18.78
5	19.24	19.49	19.58	18.98	18.69	18.73	17.70	17.73	17.97	18.10	18.40	18.77
6	19.23	19.55	19.57	18.93	18.89	18.74	18.12	17.83	18.06	18.21	18.39	18.88
7	19.19	19.58	19.57	18.82	19.04	18.46	18.13	17.91	17.92	18.23	18.43	18.92
8	19.18	19.43	19.46	19.10	19.03	18.33	18.03	17.91	17.87	18.14	18.50	18.88
9	19.24	19.36	19.47	19.10	18.95	18.35	18.06	17.87	18.00	18.10	18.50	18.84
10	19.32	19.27	19.53	18.81	18.83	18.28	17.98	17.79	18.07	18.18	18.52	18.96
11	19.24	19.62	19.57	18.92	18.62	18.12	17.92	17.72	17.97	18.24	18.57	19.03
12	19.22	19.62	19.27	18.90	18.63	18.36	17.99	17.77	18.02	18.19	18.54	19.06
13	19.16	19.59	19.63	18.66	18.91	18.36	17.87	17.88	18.07	18.24	18.57	19.09
14	19.13	19.51	19.60	18.86	18.92	18.21	17.73	17.81	18.05	18.16	18.55	19.02
15	19.23	19.42	19.54	19.06	18.92	18.34	17.71	17.77	17.98	18.23	18.56	18.94
16	19.33	19.56	19.31	18.99	18.84	18.22	18.03	17.76	17.99	18.32	18.62	18.88
17	19.36	19.56	19.34	18.60	19.08	18.17	18.05	17.79	17.99	18.30	18.58	18.97
18	19.36	19.40	19.46	18.70	19.08	18.25	17.81	17.81	17.97	18.23	18.62	19.04
19	19.35	19.62	19.25	18.95	18.95	18.14	17.82	17.86	18.06	18.24	18.66	19.04
20	19.40	19.70	19.33	19.03	18.89	18.22	17.88	17.85	18.09	18.24	18.67	18.96
21	19.43	19.65	19.19	18.81	18.86	18.26	17.88	17.92	18.07	18.17	18.67	18.94
22	19.43	19.55	19.48	18.82	18.81	18.05	17.82	17.89	18.09	18.30	18.66	18.98
23	19.44	19.38	19.44	18.78	18.72	18.00	17.79	17.79	18.11	18.34	18.66	19.08
24	19.43	19.40	19.37	18.62	18.72	18.16	17.84	17.81	18.13	18.28	18.58	19.15
25	19.38	19.43	19.60	19.13	18.74	18.42	17.92	17.79	18.12	18.28	18.72	19.07
26	19.33	19.45	19.39	19.15	18.52	18.37	17.86	17.77	18.08	18.36	18.83	19.05
27	19.31	19.40	19.10	18.74	18.68	18.04	17.87	17.74	18.10	18.41	18.87	19.18
28	19.40	19.49	19.04	18.87	18.59	17.95	18.00	17.91	18.09	18.36	18.81	19.26
29	19.48	19.49	19.13	18.93	---	18.21	18.04	17.92	18.13	18.36	18.71	19.15
30	19.47	19.46	19.27	18.81	---	18.24	17.89	17.78	18.19	18.39	18.71	19.13
31	19.50	---	19.10	18.88	---	18.05	---	17.86	---	18.33	18.79	---
MAX	19.50	19.70	19.65	19.21	19.08	18.74	18.13	17.99	18.19	18.41	18.87	19.26
WTR YR 1985	MEAN	18.65		HIGH	17.70	APR 5	LOW	19.70	NOV 20			





## GROUND-WATER RECORDS

267

## FAIRFIELD COUNTY

394257082362900. Local number, F-6.

LOCATION.--Lat 39°42'57", long 82°36'29", Hydrologic Unit 05030204, near Hocking River in well field at Lancaster.

Owner: Lancaster Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 108 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 820 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 27.05 ft below land-surface datum, Feb. 22, 1985; minimum daily low, 16.40 ft below land-surface datum, June 25, 1981.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.20	23.65	24.00	25.65	26.55	25.80	23.40	24.20	23.10	23.65	21.80	21.05
2	25.30	24.45	24.65	26.10	26.55	25.35	23.60	24.25	23.50	22.65	21.45	22.25
3	24.65	24.50	24.35	26.35	26.55	25.30	22.90	24.00	23.45	23.00	21.50	22.25
4	24.60	24.50	24.20	26.35	---	24.95	23.25	23.50	23.45	22.30	21.60	22.40
5	23.15	23.95	24.70	25.95	26.50	25.15	23.00	22.65	24.05	22.50	21.80	22.45
6	22.80	24.95	24.85	25.90	26.65	25.25	23.35	23.25	24.50	23.15	21.90	23.35
7	21.85	24.60	25.25	26.50	26.60	25.20	23.45	23.55	24.50	23.20	21.50	23.25
8	22.45	24.60	25.40	26.30	26.65	25.25	23.55	23.75	23.85	23.30	21.55	23.05
9	22.65	25.00	25.10	---	26.55	25.25	23.55	24.25	23.85	23.35	21.30	23.05
10	22.45	23.40	24.70	25.55	26.55	24.75	23.80	24.25	24.00	23.20	21.65	22.85
11	22.50	23.90	24.60	25.05	26.15	24.75	23.50	24.60	24.05	23.50	21.70	23.45
12	22.65	24.55	24.70	25.40	26.10	24.80	23.60	24.65	24.20	23.20	21.65	22.95
13	22.00	25.05	24.75	25.50	26.10	24.30	23.25	23.40	24.45	22.45	21.90	22.90
14	22.30	24.50	24.70	25.55	26.10	24.30	23.10	23.55	23.35	22.20	22.00	22.50
15	22.60	24.65	24.65	25.75	26.15	24.60	23.15	23.50	23.00	22.20	22.10	22.80
16	23.80	24.25	25.45	25.70	26.60	24.25	22.55	23.25	22.90	22.30	22.15	23.15
17	23.75	24.35	24.55	25.65	26.35	24.55	23.15	22.20	23.30	21.75	21.85	23.40
18	24.40	23.65	24.65	25.85	26.25	23.40	23.40	22.15	23.60	21.75	20.75	23.55
19	25.05	24.25	24.60	26.25	26.00	23.60	23.65	22.15	23.70	21.80	21.95	23.40
20	24.90	24.35	24.65	---	25.75	23.60	23.05	23.50	22.45	21.55	21.95	23.40
21	24.55	24.95	24.55	---	26.75	23.50	23.50	23.95	23.25	20.90	21.60	23.05
22	24.90	24.95	24.50	---	27.05	23.30	23.60	23.70	23.55	21.60	21.90	23.10
23	24.75	24.95	24.45	26.85	25.95	23.35	22.90	23.45	23.20	21.85	22.00	23.30
24	24.65	24.90	24.50	26.90	25.35	22.75	22.65	23.45	23.30	21.80	22.00	23.00
25	24.70	25.10	24.00	26.90	25.40	23.70	22.55	23.95	23.50	21.45	21.90	22.90
26	24.55	25.15	25.05	27.00	25.30	23.90	23.15	24.00	23.75	20.40	21.90	22.90
27	24.30	25.25	25.25	26.35	25.75	23.80	23.25	22.75	23.85	20.85	22.05	23.35
28	23.90	24.05	25.65	26.50	25.85	23.50	23.10	22.75	23.90	20.75	22.10	23.25
29	24.00	24.35	25.95	26.35	---	23.70	24.10	23.15	23.60	20.75	22.70	22.20
30	24.50	23.85	25.75	26.65	---	23.85	24.20	22.85	23.15	21.40	22.30	23.15
31	24.85	---	26.05	26.85	---	23.55	---	22.20	---	21.70	22.35	---
MAX	25.30	25.25	26.05	---	---	25.80	24.20	24.65	24.50	23.65	22.70	23.55
WTR YR 1985 MEAN	23.88			HIGH	20.40	JUL 26	LOW	27.05	FEB 22			

394 5440 8227 1000. Local number, F-1.

LOCATION.--Lat 39°45'44", long 82°27'10", Hydrologic Unit 05030204, near the west edge of West Rushville.

Owner: State of Ohio.

**AQUIFER.**--Sandstone of Mississippian Age.

**WELL CHARACTERISTICS.**--Drilled observation well, diameter 6 in., depth 84 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 980 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 8.02 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

REMARKS.--Station operated by Ohio Department  
PERIOD OF RECORD.--March 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 19.81 ft below land-surface datum, Mar. 1-4, 1964; minimum daily low, 7.27 ft below land-surface datum, May 5-6, 1962.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.58	18.98	18.41	16.38	16.08	14.06	13.14	14.20	14.94	16.70	17.04	17.51
2	18.62	18.91	18.41	16.25	16.13	13.88	12.85	14.21	14.96	16.69	17.07	17.52
3	18.64	18.91	18.42	16.23	16.19	13.79	12.47	14.42	15.05	16.74	17.07	17.53
4	18.67	18.86	18.42	16.08	16.24	13.68	12.29	14.49	15.18	16.76	17.09	17.61
5	18.72	18.78	18.43	15.93	16.24	13.56	12.14	14.49	15.19	16.83	17.10	18.52
6	18.74	18.83	18.37	15.90	16.23	13.58	12.08	14.49	15.25	16.83	17.03	18.00
7	18.73	18.84	18.34	15.78	16.25	13.59	12.09	14.50	15.29	16.83	17.02	17.88
8	18.72	18.84	18.34	15.68	16.36	13.55	12.09	14.58	15.36	16.92	17.03	17.80
9	18.71	18.79	18.34	15.73	16.37	13.51	12.13	14.58	15.38	16.98	17.04	17.86
10	18.75	18.73	18.33	15.71	16.37	13.51	12.14	14.65	15.49	17.03	17.04	17.88
11	18.77	18.67	18.29	15.63	16.37	13.46	12.09	14.75	15.49	17.06	17.04	17.94
12	18.73	18.68	18.28	15.66	16.36	13.44	12.14	14.76	15.53	17.20	17.19	17.93
13	18.73	18.68	18.23	15.63	16.24	13.37	12.14	14.77	15.55	17.25	17.23	17.93
14	18.73	18.67	18.18	15.58	16.29	13.36	12.16	14.80	15.70	17.25	17.25	17.93
15	18.74	18.66	18.11	15.64	16.34	13.24	12.33	14.77	15.74	17.20	17.25	17.99
16	18.82	18.57	18.07	15.67	16.36	13.22	12.37	14.72	15.73	17.16	17.25	17.99
17	18.84	18.57	17.93	15.66	16.37	13.11	12.51	14.69	15.83	17.21	17.26	18.05
18	18.85	18.57	17.90	15.54	16.45	13.07	12.61	14.69	15.90	17.19	17.29	18.18
19	18.84	18.48	17.81	15.58	16.45	13.09	12.79	14.69	15.96	17.20	17.36	18.19
20	18.87	18.53	17.62	15.63	16.42	13.08	12.88	14.77	16.01	17.21	17.39	18.19
21	18.87	18.56	17.50	15.69	16.42	13.12	12.95	14.80	16.09	17.21	17.40	18.22
22	18.89	18.56	17.28	15.75	16.32	13.14	13.11	14.78	16.09	17.12	17.56	18.20
23	18.91	18.52	17.28	15.78	16.24	13.19	13.19	14.69	16.20	17.12	17.89	18.28
24	18.93	18.49	17.18	15.78	15.92	13.24	13.29	14.66	16.25	17.15	17.71	18.28
25	18.94	18.48	17.09	15.77	15.38	13.43	13.39	14.64	16.30	17.14	17.50	18.28
26	18.99	18.48	17.08	15.89	14.95	13.54	13.52	14.71	16.39	17.11	17.52	18.24
27	19.01	18.48	16.94	15.89	14.50	13.58	13.63	14.73	16.42	17.06	17.55	18.32
28	18.97	18.43	16.86	15.97	14.29	13.63	13.78	14.71	16.54	17.07	17.59	18.39
29	18.93	18.41	16.67	15.98	---	13.71	13.93	14.81	16.55	17.11	17.58	18.36
30	18.93	18.40	16.62	16.03	---	13.70	14.05	14.81	16.57	17.07	17.52	18.42
31	18.99	---	16.48	16.04	---	13.67	---	14.83	---	17.08	17.52	---
MAX	19.01	18.98	18.43	16.38	16.45	14.06	14.05	14.83	16.57	17.25	17.89	18.52
WTR YR 1985 MEAN	16.35		HIGH		12.08	APR 6	LOW		19.01	OCT 27		

## FAIRFIELD COUNTY

395053082361900. Local number, F-5.

LOCATION.--Lat 39°50'53", long 82°36'19", Hydrologic Unit 05060001, Gaylord Paper Co., Baltimore.

Owner: Crown Zellerbach - Gaylord Paper Division

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 180 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 850 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.  
PERIOD OF RECORD.--June 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily

EXTREMES FOR PERIOD OF RECORD: Maximum daily low, 34.50 ft below land-surface datum, Sept. 15, 1964; minimum daily low, 0.98 ft above land-surface datum, Nov. 7, 1979.

1047 0450 20 ABOVE LAND SURFACE GROUND, NOV. 7, 1975.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.20	26.40	24.30	23.70	22.50	25.00	24.90	20.70	20.70	23.30	22.00	22.90
2	28.40	27.40	22.50	24.60	23.40	25.15	22.80	20.70	21.20	21.10	20.70	22.90
3	26.50	25.50	25.80	24.70	23.40	25.40	15.70	19.75	21.90	21.30	20.70	23.50
4	26.40	24.55	28.70	24.30	25.90	25.55	14.00	13.30	21.25	22.75	20.40	23.30
5	27.50	25.60	27.40	23.80	26.10	25.70	13.10	11.70	15.90	23.30	21.80	22.60
6	26.80	18.70	26.20	23.90	28.90	25.90	11.90	17.40	16.50	24.75	20.90	22.40
7	25.50	18.20	25.90	24.00	28.10	25.90	11.85	12.45	16.10	25.10	21.10	22.60
8	25.10	17.80	25.90	24.00	27.20	25.80	12.85	11.70	18.60	---	21.00	22.05
9	25.50	19.50	24.90	23.90	27.50	25.20	13.50	11.10	18.40	---	23.40	22.55
10	26.85	15.90	28.90	24.40	27.00	25.10	12.30	16.40	23.50	---	24.45	24.00
11	26.70	18.80	25.50	24.00	29.10	25.50	11.70	18.60	23.50	---	24.00	22.70
12	24.70	19.70	25.70	23.90	24.30	23.20	10.70	19.60	22.20	---	22.60	22.20
13	25.70	14.20	24.60	23.90	24.70	24.60	10.00	19.30	24.90	---	19.20	27.40
14	27.70	15.80	24.60	26.10	24.70	22.50	10.10	19.70	25.20	---	21.30	22.80
15	30.90	16.30	23.85	27.40	23.90	22.20	11.20	19.40	22.85	---	21.70	25.70
16	26.70	13.80	23.60	28.90	23.80	22.20	10.80	20.60	22.40	---	21.90	26.50
17	26.50	12.70	27.00	28.30	24.10	22.10	11.70	20.40	22.60	---	21.60	24.00
18	25.95	12.30	28.25	29.10	23.80	22.40	12.70	19.20	20.70	---	21.60	24.10
19	26.30	13.20	26.30	29.40	23.10	22.50	10.80	19.30	21.10	---	22.10	26.90
20	29.00	12.70	26.90	26.60	23.60	23.20	12.00	21.80	21.10	---	22.10	26.15
21	25.90	14.30	27.25	27.00	23.50	22.70	11.90	21.80	21.45	---	22.40	25.70
22	30.30	17.30	24.10	27.40	25.10	22.70	15.20	22.50	20.60	---	22.20	23.30
23	31.50	20.45	24.75	27.30	22.50	22.10	17.00	22.30	20.60	---	22.20	26.10
24	29.40	24.00	25.40	27.05	24.00	22.10	16.80	22.80	22.90	---	23.80	26.00
25	28.90	24.30	22.70	25.50	26.00	24.50	17.90	22.80	24.30	---	24.50	25.50
26	28.00	22.70	21.50	25.50	25.80	24.45	18.70	22.40	23.30	---	23.80	22.90
27	28.30	23.00	24.85	25.60	25.30	24.50	19.20	22.30	23.80	---	22.70	23.40
28	29.00	23.80	25.10	25.70	25.30	24.40	19.80	21.10	25.90	---	22.70	25.10
29	27.60	22.50	24.50	25.00	---	24.80	21.20	21.15	22.80	---	23.30	22.40
30	28.80	24.20	25.30	24.60	---	24.80	20.90	21.80	22.40	20.50	22.65	26.40
31	26.00	---	25.20	25.00	---	24.80	---	21.00	---	20.50	22.70	---
MAX	31.50	27.40	28.90	29.40	29.10	25.90	24.90	22.80	25.90	---	24.50	27.40
WTR YR 1985	MEAN	22.65		HIGH	10.00	APR 13	LOW	31.50	OCT 23			

## GROUND-WATER RECORDS

## FAYETTE COUNTY

393153083322000. Local number, FA-1.

LOCATION.--Lat 39°31'53", long 83°32'20", Hydrologic Unit 05060003, Burnett-Perill Road about 6 mi west of Washington Court House.

Owner: Martha Slagle.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 5 in., depth 78 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1010 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 13.45 ft below land-surface datum, Sep. 30 1982; minimum daily low, 3.26 ft below land-surface datum, Apr. 28, 1964.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.50	9.00	7.30	6.35	7.05	6.95	6.75	6.90	6.85	7.60	7.65	7.90
2	9.05	9.05	7.30	6.45	7.15	7.00	6.60	6.70	6.90	7.65	7.60	8.40
3	8.80	8.85	7.10	6.50	7.25	6.85	6.55	6.75	6.85	7.50	7.80	8.15
4	8.85	8.75	7.25	6.30	7.30	6.85	6.60	6.70	7.00	7.85	7.70	8.10
5	9.10	8.55	7.00	6.40	7.10	7.00	6.80	6.65	7.10	7.75	7.70	8.15
6	9.00	---	7.05	6.50	7.25	7.00	6.60	6.60	7.15	7.50	7.55	8.30
7	9.00	---	7.10	7.35	7.15	6.80	6.65	6.80	6.80	7.40	7.70	8.35
8	9.00	---	7.20	6.55	7.40	6.85	6.65	6.65	7.00	7.35	7.70	8.65
9	9.05	---	7.05	6.65	7.25	6.85	6.60	6.75	7.35	7.35	7.75	8.50
10	9.00	---	7.15	6.40	7.40	6.75	6.45	6.60	7.45	7.60	7.95	8.40
11	9.05	---	7.00	6.45	7.20	6.65	6.65	6.75	7.60	7.45	7.80	8.35
12	9.10	---	7.10	6.35	7.20	6.75	6.85	6.70	7.40	7.55	8.90	8.50
13	9.10	---	7.10	6.50	7.10	6.65	6.70	6.90	7.05	7.35	8.65	8.50
14	8.85	---	7.15	7.65	7.25	6.60	6.60	6.80	7.10	7.45	8.30	9.50
15	9.20	---	6.90	6.90	7.20	6.75	6.55	6.70	6.90	7.35	8.00	9.35
16	9.05	---	7.05	6.65	7.35	6.65	6.55	6.65	6.85	7.60	7.75	8.95
17	9.25	---	6.80	6.65	7.45	6.65	6.80	6.60	6.95	7.60	7.85	9.20
18	9.10	---	6.95	6.65	7.50	6.65	6.65	6.80	7.05	7.60	7.80	8.90
19	9.15	---	6.70	6.70	7.30	6.55	6.75	6.75	7.05	7.55	7.95	8.85
20	9.15	---	6.85	---	7.45	6.65	6.65	6.80	7.00	7.70	7.95	8.95
21	9.05	---	7.85	---	7.50	6.65	6.70	6.70	7.20	7.75	8.15	8.65
22	9.10	---	7.00	---	7.45	6.75	6.65	7.00	7.15	7.80	7.90	8.60
23	9.25	---	6.65	---	7.25	6.60	7.30	6.70	7.25	7.95	8.20	8.50
24	9.10	---	6.70	---	7.35	6.75	6.90	6.80	7.40	7.70	7.90	8.85
25	9.15	---	6.55	---	7.30	6.90	7.70	6.75	7.25	8.60	8.60	8.55
26	9.10	---	6.70	---	7.25	6.95	7.80	6.85	7.40	8.35	8.35	8.50
27	9.20	---	6.60	---	7.15	6.75	7.00	6.85	7.40	8.10	8.25	8.55
28	9.00	---	6.55	---	7.15	6.80	6.75	6.80	8.10	8.05	8.05	8.75
29	9.10	---	6.45	---	---	6.70	7.00	6.85	8.25	7.80	8.00	8.75
30	9.00	7.15	6.65	---	---	6.80	6.95	6.90	8.10	8.05	7.90	8.85
31	9.10	---	6.40	---	---	6.65	---	6.90	---	7.80	8.05	---
MAX	9.50	---	7.85	---	7.50	7.00	7.80	7.00	8.25	8.60	8.90	9.50

WTR YR 1985 MEAN 7.48 HIGH 6.30 JAN 4 LOW 9.50 OCT 1 AND OTHERS



## GROUND-WATER RECORDS

## FRANKLIN COUNTY

3951180 82573300. Local number, FR-3.

LOCATION.--Lat 39°51'14", long 82°57'32", Hydrologic Unit 05060001, 0.7 mi southwest of Rees.

owner: R. Hann.

AQUIFER.--Sand and gravel of Pleistocene Age.

CHARACTERISTICS.--Drilled test water table well, diameter 12 in., depth drilled 60 ft, present depth 53 ft, cased.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 712.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 3.43 ft above land-surface datum.

PERIOD OF RECORD.--April 1946 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.75 ft below land-surface datum, July 7, 1966; minimum daily low, 0.0 ft below land-surface datum, Jan. 22, 1959.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 31, 1984	12.91	Jan. 31, 1985	10.26	Apr. 30, 1985	8.58	July 31, 1985	10.04
Nov. 30	12.66	Feb. 28	8.73	May 31	9.18	Aug. 30	10.61
Dec. 28	12.33	Mar. 29	8.36	June 28	9.06	Sept. 30	11.19

## GROUND-WATER RECORDS

## FRANKLIN COUNTY--Continued

395157083003500. Local number, FR-109.

LOCATION.--Lat 39°51'57", long 83°00'35", Hydrologic Unit 05060001, 6.6 mi south of the State capital in Columbus.

Owner: City of Columbus.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 92 ft, cased to 82 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 702.24 ft above National Geodetic Vertical Datum of 1929. Measuring

point: Floor of instrument shelter 3.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.10 ft below land-surface datum, Sept. 30, 1985; minimum daily low, 12.43 ft below land-surface datum, Mar. 27, 1978.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.11	23.22	23.95	23.41	22.75	17.33	17.22	18.56	19.45	20.94	21.43	22.88
2	22.12	23.23	23.95	23.39	22.79	---	17.21	18.56	19.50	20.99	21.47	22.93
3	22.16	23.27	23.96	23.29	22.80	---	17.21	18.48	19.56	21.05	21.51	22.97
4	22.18	23.30	23.95	23.18	22.80	---	17.22	18.49	19.60	21.11	21.56	23.02
5	22.20	23.33	23.95	23.12	22.81	---	17.20	18.50	19.65	21.16	21.61	23.07
6	22.23	23.39	23.96	23.06	22.86	---	17.32	18.53	19.70	21.15	21.66	23.12
7	22.25	23.44	23.96	22.97	22.89	---	17.33	18.58	19.74	21.20	21.71	23.17
8	22.28	23.49	23.95	22.93	22.90	---	17.35	18.62	19.79	21.25	21.77	23.20
9	22.32	23.52	23.95	22.90	22.92	---	17.40	18.65	19.86	21.31	21.82	23.24
10	22.35	23.52	23.94	22.83	22.93	---	17.41	18.67	19.92	21.38	21.87	23.30
11	22.38	23.56	23.93	22.77	22.93	---	17.45	18.71	19.94	21.44	21.94	23.35
12	22.41	23.61	23.88	22.76	22.94	---	17.48	18.75	20.02	21.50	21.99	23.40
13	22.44	23.65	23.88	22.71	22.97	---	17.50	18.80	20.07	21.56	22.05	23.44
14	22.49	23.68	23.86	22.68	22.98	---	17.53	18.84	20.11	21.61	22.09	23.48
15	22.53	23.73	23.82	22.69	22.99	---	17.59	18.85	20.13	21.60	22.14	23.52
16	22.55	23.77	23.80	22.68	23.01	---	17.68	18.83	20.18	21.02	22.19	23.56
17	22.60	23.79	23.79	22.63	23.06	---	17.71	18.83	20.20	20.96	22.24	23.61
18	22.64	23.81	23.78	22.63	23.06	---	17.75	18.86	20.25	20.94	22.30	23.64
19	22.70	23.85	23.75	22.64	23.09	---	17.80	18.88	20.31	20.95	22.37	23.68
20	22.73	23.87	23.75	22.64	23.10	---	17.86	18.92	20.36	20.95	22.42	23.73
21	22.80	23.89	23.73	22.63	23.10	---	17.92	18.97	20.41	20.96	22.47	23.77
22	22.81	23.90	23.69	22.62	23.09	---	17.97	18.99	20.45	21.00	22.53	23.81
23	22.84	23.91	23.66	22.62	22.99	---	18.02	19.04	20.50	21.03	22.58	23.84
24	22.90	23.93	23.63	22.62	22.11	---	18.09	19.08	20.56	21.07	22.60	23.90
25	22.94	23.94	23.64	22.67	19.94	---	18.16	19.11	20.61	21.11	22.59	23.92
26	22.99	23.94	23.61	22.68	18.77	---	18.23	19.15	20.66	21.15	22.59	23.96
27	23.03	23.94	23.58	22.65	18.28	---	18.30	19.19	20.72	21.20	22.64	24.01
28	23.08	23.94	23.56	22.69	17.69	17.56	18.41	19.26	20.77	21.24	22.69	24.04
29	23.10	23.94	23.53	22.70	---	17.63	18.46	19.30	20.84	21.28	22.73	24.07
30	23.16	23.94	23.52	22.71	---	17.55	18.51	19.33	20.90	21.32	22.78	24.10
31	23.21	---	23.46	22.73	---	17.32	---	19.38	---	21.36	22.84	---
MAX	23.21	23.94	23.96	23.41	23.10	---	18.51	19.38	20.90	21.61	22.84	24.10
WTR YR 1985 MEAN	21.65			HIGH	17.20	APR 5	LOW	24.10	SEP 30			

## GROUND-WATER RECORDS

273

## FRANKLIN COUNTY--Continued

400101083021800. Local number, FR-10.

LOCATION.--Lat 40°01'01", long 83°02'18", Hydrologic Unit 05060001, Kenny and Ackerman Roads, Columbus.

Owner: Ohio State University.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 4 in., depth 75 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 775 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 48.20 ft below land-surface datum, Oct. 7, 1954; minimum daily low, 37.76 ft below land-surface datum, Apr. 13, 1951.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.03	43.61	43.30	43.09	42.92	42.64	42.03	42.24	42.91	43.65	43.89	44.63
2	44.02	43.69	43.33	43.18	43.01	42.63	42.00	42.11	42.90	---	43.97	44.51
3	43.98	43.63	43.37	43.13	43.09	42.64	41.93	42.24	42.93	---	44.27	44.46
4	43.96	43.39	43.45	42.95	43.10	42.40	41.93	42.26	43.03	---	44.07	44.50
5	43.98	43.43	43.46	42.98	42.98	42.71	41.79	42.21	43.03	---	44.01	44.38
6	43.98	43.56	43.25	42.98	42.79	42.78	42.00	42.25	43.33	---	43.94	44.45
7	---	43.61	43.34	42.84	---	42.70	42.02	42.46	43.18	---	43.91	44.48
8	---	43.58	43.26	42.99	---	42.46	42.07	42.62	43.02	---	43.95	44.50
9	---	43.49	43.28	43.12	---	42.53	42.14	42.79	42.99	---	44.23	44.50
10	---	43.32	43.20	43.09	---	42.50	42.13	42.57	43.29	---	44.12	44.55
11	43.94	43.40	43.27	42.98	---	42.40	42.05	42.64	43.11	---	44.18	44.61
12	---	43.48	43.19	42.99	42.54	42.33	42.09	42.59	43.04	---	44.89	44.58
13	---	43.53	43.24	42.94	42.68	42.33	42.05	42.91	43.23	---	44.34	44.70
14	---	43.55	43.27	42.74	42.75	42.31	41.93	43.00	43.09	---	44.26	44.87
15	---	43.43	43.35	42.97	42.77	42.43	41.81	42.64	43.14	---	44.29	44.72
16	---	43.45	43.33	42.98	42.77	42.39	41.97	42.61	43.02	---	44.08	44.74
17	---	43.51	43.21	42.85	42.90	42.27	42.04	42.36	43.12	---	44.04	44.80
18	---	43.44	43.29	42.66	42.95	42.32	41.93	42.38	43.09	---	44.11	44.75
19	---	43.48	43.28	42.71	42.93	42.29	41.95	42.48	43.08	---	44.35	44.83
20	---	43.62	43.20	---	42.89	42.32	42.02	42.60	43.33	---	44.25	44.76
21	---	43.66	43.18	---	42.88	42.33	42.16	42.60	43.45	---	44.14	44.68
22	---	43.65	43.13	---	42.80	42.23	42.25	42.62	43.36	---	44.33	44.65
23	---	43.56	43.25	---	42.79	42.06	42.50	42.86	43.46	---	44.38	44.82
24	---	43.41	43.12	---	42.61	42.14	42.11	42.84	43.57	---	44.26	44.51
25	---	43.37	43.37	---	42.75	42.31	42.17	42.95	43.67	---	44.19	44.53
26	43.67	43.33	43.39	---	42.73	42.32	42.43	42.94	43.69	---	44.21	44.32
27	43.63	43.32	43.34	---	42.75	42.15	42.23	42.92	43.96	---	44.53	44.48
28	43.58	43.21	43.18	---	42.76	42.00	42.14	42.74	43.91	---	44.49	44.59
29	43.59	43.21	43.07	---	---	42.01	42.35	42.91	43.63	---	44.32	44.58
30	43.69	43.15	43.15	---	---	42.08	42.40	43.05	43.60	---	44.21	44.50
31	43.70	---	43.15	42.85	---	41.92	---	42.78	---	---	44.22	---
MAX	---	43.69	43.46	---	---	42.78	42.50	43.05	43.96	---	44.89	44.87

WTR YR 1985 MEAN 43.21 HIGH 41.79 APR 5 LOW 44.89 AUG 12

## GROUND-WATER RECORDS

## GALLIA COUNTY

383638082103300. Local number, G-2.

LOCATION.--Lat 38°36'38", long 82°10'33", Hydrologic Unit 05090101, 5.9 mi east of Crown City.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water-table well, diameter 12 in., depth 65 ft, cased.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 552 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1975 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.94 ft below land-surface datum, Oct. 4, 1982; minimum daily low 16.43 ft below land-surface datum, Mar. 8, 1979.

## WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 25, 1984	32.66	Apr. 22, 1985	29.01



## GROUND-WATER RECORDS

275

## GREENE COUNTY

394411083561300. Local number, GR-1.

LOCATION.--Lat 39°44'11", long 83°56'13", Hydrologic Unit 05090202, along Massies Creek near U.S. 68 north of Xenia.

Owner: Xenia Water Department.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 30 in., depth 77 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 818.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 4.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.60 ft below land-surface datum, July 7, 1966; minimum daily low, 0.70 ft above land-surface datum, above land surface Aug. 3, 1958.

## WATER LEVEL (FEET)

WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.53	10.44	11.15	7.01	12.09	6.88	8.46	8.61	10.52	9.47	12.29	10.32
2	10.73	9.78	11.23	6.92	12.13	6.99	8.69	7.62	10.58	9.23	12.25	11.90
3	10.73	9.56	10.71	7.19	12.23	7.07	9.33	7.49	8.79	8.35	12.39	12.53
4	10.74	9.60	9.06	7.35	9.46	7.11	9.53	7.66	8.79	8.46	12.41	12.81
5	10.73	9.46	9.08	7.65	9.38	7.04	9.59	8.14	8.70	8.59	10.46	12.91
6	10.68	9.72	9.01	9.92	9.32	7.11	9.45	9.29	8.69	8.43	10.46	13.18
7	10.32	10.16	9.06	10.40	9.29	7.23	9.37	9.57	8.69	10.07	10.25	13.22
8	9.89	10.64	8.86	10.64	9.28	7.29	7.17	9.69	8.67	10.32	10.16	13.23
9	9.75	10.69	8.94	10.94	9.33	7.10	7.24	9.17	8.72	10.67	10.11	11.65
10	9.93	10.11	9.03	11.10	9.24	9.49	7.32	9.19	8.71	11.04	10.12	11.18
11	9.88	10.11	8.42	11.26	9.16	9.53	7.34	9.21	8.71	11.32	10.11	11.16
12	9.78	10.14	7.96	11.33	9.05	9.06	7.39	9.23	8.59	11.41	10.02	11.05
13	9.73	10.50	7.83	11.52	8.89	9.36	7.41	8.69	8.64	11.60	10.05	11.05
14	9.79	10.79	7.69	8.94	9.06	9.68	7.39	8.69	8.70	11.61	10.21	10.92
15	9.87	10.96	7.42	8.87	9.09	9.88	7.72	8.48	8.72	10.08	10.16	10.94
16	10.73	11.26	9.41	8.83	8.90	9.99	7.79	8.52	9.44	9.84	9.99	10.90
17	11.43	11.56	9.63	8.63	11.29	10.03	7.96	8.52	10.39	9.83	9.89	10.89
18	11.82	11.65	10.09	8.67	11.65	7.74	8.09	8.29	10.71	9.89	11.58	11.00
19	11.89	11.61	10.32	8.67	11.86	7.72	9.45	8.16	10.90	10.13	12.17	11.02
20	11.99	11.73	10.54	8.72	12.09	7.71	8.13	8.03	11.19	10.06	12.43	11.16
21	12.05	11.02	10.67	8.33	12.23	7.75	9.83	7.95	11.24	9.98	11.98	11.17
22	11.90	10.98	10.16	8.39	12.15	7.78	9.90	8.14	11.24	9.38	12.09	12.78
23	11.62	10.59	9.65	8.48	10.53	7.82	9.76	8.17	11.15	9.56	12.56	13.07
24	11.59	10.93	9.33	8.55	7.07	7.87	9.76	8.22	9.31	9.64	12.64	13.18
25	11.85	11.61	7.82	8.59	5.28	7.79	9.35	8.23	9.30	9.99	11.46	13.27
26	12.04	11.99	7.98	8.74	5.92	7.87	9.84	9.63	9.29	9.99	10.25	13.26
27	12.03	12.12	8.06	11.01	6.36	7.86	9.88	9.92	9.32	9.87	10.27	13.42
28	12.13	12.23	8.14	11.49	6.67	7.88	8.10	10.06	9.41	11.20	10.27	13.48
29	11.70	11.44	8.13	11.72	---	7.89	10.11	10.18	9.42	11.85	10.31	12.74
30	10.55	11.15	8.01	11.90	---	7.68	9.43	10.46	9.41	12.10	10.36	11.69
31	10.19	---	7.03	11.99	---	7.71	---	10.48	---	12.32	10.28	---
MAX	12.13	12.23	11.23	11.99	12.23	10.03	10.11	10.48	11.24	12.32	12.64	13.48
WTR YR 1985 MEAN	9.85		HIGH		5.28	FEB 25	LOW		13.48	SEP 28		

GROUND-WATER RECORDS  
GREENE COUNTY--Continued

3944250 83 551100. Local number, GR-10.

LOCATION.--Lat 39°44'25", long 83°55'11", Hydrologic Unit 05090202, in well field along Massies Creek north of Xenia.

Owner: Xenia Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 835 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter at land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.40 ft below land-surface datum, Nov. 5, 1977; minimum daily low, 0.15 ft below land-surface datum, Feb. 1, 1982.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
				MAXIMUM VALUES								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.95	9.17	6.36	7.72	7.38	5.27	4.88	9.16	6.70	9.52	7.91	8.27
2	8.06	9.08	6.38	7.62	7.35	5.45	5.06	8.57	6.70	9.53	7.82	8.56
3	8.23	8.70	6.45	7.74	7.28	7.65	5.30	8.44	6.66	9.47	7.74	8.49
4	8.30	8.66	6.45	7.88	7.00	7.75	5.44	8.36	6.75	9.35	7.70	8.38
5	8.39	7.71	6.57	7.98	7.16	7.74	5.49	6.55	6.83	9.38	7.65	8.29
6	8.40	7.08	6.75	8.17	7.28	7.85	5.21	6.39	6.90	9.33	7.66	8.18
7	10.32	5.34	6.78	6.33	7.39	7.85	5.14	6.36	6.94	9.23	7.77	8.17
8	10.34	5.48	6.87	6.37	7.52	7.76	5.31	6.39	6.96	7.56	7.83	8.07
9	10.43	5.48	9.08	6.38	7.56	7.81	5.51	6.51	9.24	7.28	7.90	8.01
10	10.41	5.49	9.17	6.38	9.62	7.88	5.67	6.51	9.22	7.28	7.98	8.16
11	10.41	5.02	8.98	6.38	9.77	5.99	5.78	6.53	9.32	7.27	10.08	8.28
12	10.42	5.47	8.75	6.48	9.77	5.19	5.88	6.53	9.23	7.17	10.23	8.38
13	10.35	5.68	8.59	6.54	9.78	5.28	5.94	6.39	9.36	7.17	10.40	8.46
14	10.32	5.78	8.49	6.57	9.78	5.47	8.08	6.86	9.36	7.14	10.50	8.51
15	8.80	5.92	8.10	6.18	9.77	5.59	8.34	6.55	9.26	7.18	10.49	10.58
16	8.25	6.07	8.08	6.21	9.78	5.66	6.50	6.58	7.57	7.35	10.39	10.67
17	8.01	6.17	6.28	6.27	9.78	5.66	6.52	6.58	7.36	7.49	10.43	10.74
18	8.08	6.34	6.36	6.33	8.01	5.75	6.65	6.54	7.23	7.59	10.41	10.80
19	7.98	6.45	6.34	6.38	7.82	6.02	7.08	8.70	7.13	7.74	8.56	10.80
20	7.49	8.17	6.34	---	7.75	5.97	6.72	8.80	7.06	7.82	8.38	10.97
21	7.34	8.46	6.34	---	7.68	6.06	7.07	8.81	6.96	9.87	8.38	10.97
22	7.64	8.68	5.94	6.58	7.51	6.13	7.02	8.93	6.95	9.89	8.37	10.99
23	7.29	8.63	5.57	6.97	6.08	6.17	6.59	8.98	6.90	9.98	8.28	9.14
24	7.60	8.80	5.58	6.76	5.76	8.28	6.61	8.98	6.88	10.06	8.19	8.99
25	7.56	8.84	5.77	6.86	6.18	8.41	6.69	9.03	6.96	10.18	9.73	8.78
26	6.89	7.07	5.96	6.88	6.28	8.47	6.70	9.06	7.09	10.26	7.83	8.60
27	6.78	6.97	6.17	6.97	4.87	8.48	6.73	7.07	7.15	10.24	7.87	8.47
28	6.76	6.92	6.31	7.64	5.07	8.60	8.94	6.90	7.27	10.08	7.97	8.40
29	8.87	6.53	6.37	7.63	---	8.60	9.10	6.78	7.34	8.29	8.04	8.32
30	8.97	6.34	7.97	7.51	---	8.29	9.16	6.76	9.48	8.17	8.14	8.15
31	9.13	---	7.96	7.39	---	7.25	---	6.72	---	8.03	8.18	---
MAX	10.43	9.17	9.17	---	9.78	8.60	9.16	9.16	9.48	10.26	10.50	10.99
WTR YR 1985 MEAN	7.68			HIGH	4.87	FEB 27	LOW	10.99	SEP 22			

## GROUND-WATER RECORDS

277

## HAMILTON COUNTY

391039084291500. Local number, H-11.

LOCATION.--Lat 39°10'39", long 84°29'15", Hydrologic Unit 05090203, 5.6 mi north of Riverfront Stadium in Cincinnati.

Owner: Procter and Gamble Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 148 ft, cased.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 539 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.23 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1939 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 129.72 ft below land-surface datum, Oct 25, 1948; minimum daily low, 70.03 ft below land-surface datum, May 1, 1985.

## WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Nov. 1, 1984	70.59	May 1, 1985	70.03

## GROUND-WATER RECORDS

## HAMILTON COUNTY-Continued

391101084172100. Local number, H-3.

LOCATION.--Lat 39°11'01", long 84°17'21", Hydrologic Unit 05090202, southeast of Miamiville.

Owner: Indian Hills Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 4 in., depth 60 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 532.22 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 35.75 ft below land-surface datum, Aug. 29, 1955; minimum daily low, 15.60 ft below land-surface datum, Feb. 28, 1962.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.05	25.40	24.30	24.20	27.45	24.00	20.15	27.17	26.75	28.05	27.20	28.25
2	28.05	25.00	24.40	---	27.90	24.05	22.05	26.50	26.55	27.95	26.45	28.90
3	28.40	24.45	24.70	---	28.00	24.50	22.35	22.90	26.45	26.90	26.45	29.00
4	28.80	24.50	25.15	---	28.05	24.55	22.30	23.55	26.60	27.20	27.40	29.30
5	28.85	23.15	25.15	---	28.00	24.10	21.95	---	26.20	27.25	27.55	29.40
6	28.90	23.30	25.45	---	28.10	24.10	21.70	---	26.50	26.60	26.70	29.40
7	28.90	24.05	25.50	---	28.15	---	20.55	---	26.60	26.65	25.85	30.20
8	28.50	24.30	25.65	---	28.15	24.45	22.25	24.20	26.30	26.80	27.45	30.25
9	28.75	24.55	25.70	---	28.15	25.00	23.10	25.55	26.30	27.40	28.00	30.50
10	28.70	24.35	25.60	---	28.20	25.05	23.80	26.00	26.70	27.60	28.30	30.50
11	28.70	22.60	25.20	---	28.20	25.25	24.15	26.00	26.40	27.85	28.45	30.95
12	28.65	23.15	---	---	28.15	23.95	24.25	26.15	26.35	28.15	29.20	30.95
13	28.45	23.10	---	---	27.55	23.35	24.60	25.95	25.60	28.25	29.25	30.95
14	28.65	23.90	---	---	27.55	---	24.65	26.15	25.65	28.30	29.05	30.90
15	28.45	24.50	24.40	---	27.30	24.05	24.75	25.65	25.90	28.15	29.25	31.00
16	27.05	24.40	24.70	---	27.40	24.85	24.95	25.65	26.00	28.05	28.15	31.25
17	26.95	24.85	24.95	---	27.45	25.40	25.15	24.60	26.20	27.60	26.05	31.35
18	26.80	24.95	25.55	---	27.45	25.35	25.40	24.60	26.45	28.65	27.60	31.40
19	27.00	24.70	25.65	---	27.35	25.15	25.55	24.70	26.10	28.00	28.65	31.80
20	26.75	24.95	25.55	---	27.35	25.85	25.75	25.25	26.60	28.15	28.75	32.00
21	26.50	25.05	25.50	---	27.30	26.10	25.95	25.35	26.65	28.25	26.30	32.00
22	26.55	25.40	22.65	---	26.95	26.15	25.95	25.70	26.75	27.25	28.10	32.05
23	26.20	25.40	23.15	27.40	23.00	24.75	26.00	25.55	26.75	28.70	28.70	31.70
24	26.15	25.40	23.45	27.55	21.40	24.65	26.05	25.00	27.00	28.70	28.75	31.65
25	26.20	25.50	24.25	27.15	22.25	26.10	26.40	25.65	26.95	29.25	26.35	31.55
26	26.30	25.75	24.40	27.55	22.55	26.45	27.25	26.10	27.10	29.35	26.05	28.60
27	26.05	25.75	24.95	27.65	22.90	26.50	26.80	26.15	27.40	27.20	28.05	27.55
28	26.05	25.35	25.75	27.75	23.50	26.20	26.75	26.15	27.60	27.05	28.20	27.25
29	26.05	24.10	25.75	27.70	---	26.55	26.65	25.75	27.70	27.35	28.55	27.15
30	25.80	24.25	25.60	27.70	---	26.10	27.05	26.25	27.95	29.20	28.55	28.30
31	25.50	---	24.25	---	---	---	---	26.70	---	28.65	26.60	---
MAX	28.90	25.75	---	---	28.20	---	27.25	---	27.95	29.35	29.25	32.05

WTR YR 1985 MEAN 26.51 HIGH 20.15 APR 1 LOW 32.05 SEP 22



## GROUND-WATER RECORDS

279

## HAMILTON COUNTY--Continued

391201084281600. Local number, H-10.

LOCATION.--Lat 39°12'01", long 84°28'16", Hydrologic Unit 05090203, Section Road, Cincinnati.

Owner: National Distillers.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 170 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute.

DATUM.--Elevation of land-surface datum is 544.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 8.13 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--January 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 121.58 ft below land-surface datum, Nov. 3, 10, 1950; minimum daily low, 59.65 ft below land-surface datum, Sept. 23, 1985.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.39	62.45	62.01	61.57	61.53	61.21	61.13	60.60	60.27	60.12	---	59.79
2	62.23	62.10	62.03	61.82	61.60	61.39	61.07	---	60.33	60.02	---	59.80
3	62.16	62.15	62.05	61.79	61.67	61.45	60.90	---	60.28	---	---	59.75
4	62.31	62.24	62.09	61.64	61.68	61.44	61.16	---	60.14	---	---	59.71
5	62.36	62.30	62.13	61.88	61.60	61.12	61.20	---	60.28	---	---	59.66
6	62.36	62.32	62.15	61.90	61.56	61.50	---	---	60.27	---	---	59.72
7	62.37	62.39	62.01	61.69	61.54	61.68	---	---	60.26	---	---	59.79
8	62.38	62.35	61.95	61.80	61.60	61.67	---	---	60.30	---	---	59.78
9	62.35	62.27	61.87	61.85	61.77	61.44	---	---	60.31	---	---	59.67
10	62.36	62.21	61.94	61.87	61.76	61.41	---	---	60.32	---	---	59.74
11	62.27	62.20	61.94	61.69	61.73	61.45	---	---	60.23	---	---	59.84
12	62.29	62.29	62.06	61.49	61.55	61.40	---	---	60.16	---	---	59.93
13	62.33	62.01	62.06	61.54	61.70	61.26	---	60.44	60.14	---	---	60.01
14	62.37	62.24	62.00	61.85	61.73	61.17	---	60.47	60.23	---	---	60.00
15	62.33	62.15	61.81	61.84	61.70	61.39	---	60.44	60.12	---	59.72	59.93
16	62.12	62.35	61.85	61.85	61.34	61.39	---	60.39	60.26	---	59.76	59.81
17	62.11	62.15	61.72	61.60	61.54	61.38	---	60.41	60.25	---	59.73	59.77
18	62.34	62.03	61.80	61.47	61.52	61.36	---	60.33	60.28	---	59.72	59.85
19	62.34	61.98	62.00	61.39	61.60	61.24	---	60.36	60.21	---	59.79	59.87
20	62.15	62.00	62.06	61.49	61.69	61.22	---	60.39	60.10	---	59.80	59.80
21	62.29	62.05	61.85	61.82	61.64	61.30	---	60.36	60.11	---	59.80	59.73
22	62.31	61.91	61.81	61.66	61.57	61.17	---	60.37	60.08	---	59.80	59.70
23	62.29	61.89	62.18	61.69	61.53	61.05	---	60.40	60.11	---	59.78	59.65
24	62.44	61.89	62.17	61.58	61.48	61.27	---	60.42	60.17	---	59.66	59.82
25	62.31	61.92	61.95	61.48	61.42	61.39	---	60.29	60.18	---	59.72	59.80
26	62.19	61.92	61.90	61.41	61.48	61.22	---	60.31	60.17	---	59.88	59.67
27	62.39	61.98	61.80	61.48	61.56	61.01	---	60.29	60.17	---	59.93	59.82
28	62.34	61.97	61.76	61.82	61.51	60.97	---	60.30	60.14	---	59.92	59.94
29	62.26	61.77	61.70	61.88	---	61.09	---	60.27	60.09	---	59.84	59.90
30	62.21	61.99	61.77	61.67	---	61.19	---	60.22	60.11	---	59.68	59.79
31	62.45	---	61.86	61.54	---	61.02	---	60.20	---	---	59.73	---
MAX	62.45	62.45	62.18	61.90	61.77	61.68	---	---	60.33	---	---	60.01
WTR YR 1985 MEAN	61.19											
HIGH				59.65	SEP 23		LOW	62.45	OCT 31	AND OTHERS		

## GROUND-WATER RECORDS

## HAMILTON COUNTY--Continued

391214084470100. Local number, H-1.

LOCATION.--Lat 39°12'14", long 84°47'01", Hydrologic Unit 05080003, Kilby Road 4 mi southeast of Harrison.

Owner: Robert Weber.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in., depth 124 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 500 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.70 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--February 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.80 ft below land-surface datum, Jan. 18-20, 1964; minimum daily low, 14.00 ft below land-surface datum, Jan. 22, 1959.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.18	23.27	22.27	20.33	22.38	---	19.10	22.03	22.28	22.73	23.28	23.82
2	24.22	22.44	22.36	20.05	22.41	---	19.70	22.00	22.31	22.72	23.08	23.86
3	24.25	22.51	22.49	20.26	22.45	---	20.15	20.32	22.32	22.54	23.09	23.88
4	24.28	22.52	22.56	20.41	22.45	---	20.28	20.60	22.32	22.59	23.16	23.90
5	24.30	22.53	22.62	20.52	22.46	---	20.38	21.01	22.30	22.65	23.27	23.93
6	24.33	22.67	22.64	20.60	22.50	---	20.23	21.10	22.34	22.69	23.31	23.96
7	24.33	22.73	22.74	20.68	22.54	---	20.26	20.80	22.35	22.72	23.35	23.99
8	24.31	22.76	22.76	---	22.58	---	20.46	21.27	22.03	22.75	23.28	24.01
9	24.00	22.77	22.77	---	22.63	---	20.61	21.40	22.17	22.77	23.32	24.04
10	23.99	22.74	22.77	---	22.65	---	20.73	21.49	22.21	22.85	23.38	24.08
11	24.00	22.35	22.24	---	22.65	---	20.82	21.57	22.17	22.89	23.43	24.11
12	24.03	22.43	22.31	---	22.28	---	20.90	21.60	22.19	22.92	23.48	24.14
13	24.10	22.50	22.33	---	21.90	---	20.98	21.65	22.12	22.95	23.51	24.17
14	24.13	22.55	22.04	---	21.93	---	21.04	21.65	22.02	22.95	23.55	24.18
15	24.16	22.58	21.53	---	21.97	---	21.24	21.62	22.14	22.95	23.56	24.22
16	24.15	22.61	21.72	---	21.99	---	21.33	21.31	22.19	23.01	23.49	24.24
17	24.01	22.63	21.81	---	22.00	---	21.41	21.35	22.23	23.07	23.39	24.28
18	24.00	22.63	21.80	---	22.03	---	21.48	21.49	22.28	23.11	23.46	24.30
19	24.00	22.63	21.82	---	22.02	---	21.55	21.58	22.35	23.14	23.49	24.33
20	24.00	22.73	22.03	---	21.98	---	21.61	21.74	22.40	23.16	23.53	24.34
21	24.00	22.78	22.03	---	21.81	---	21.66	21.84	22.44	23.17	23.57	24.36
22	23.98	22.82	20.88	---	21.45	---	21.72	21.89	22.48	23.20	23.61	24.40
23	23.96	22.84	21.18	---	18.70	---	21.76	21.96	22.49	23.12	23.63	24.40
24	23.81	22.86	21.25	---	---	---	21.82	21.99	22.51	23.18	23.64	24.43
25	23.73	22.88	21.37	---	---	---	21.88	22.02	22.45	23.22	23.63	24.44
26	23.68	22.90	21.42	---	---	---	21.92	22.06	22.48	23.24	23.63	24.47
27	23.64	22.91	21.55	---	---	---	21.94	22.10	22.58	23.24	23.68	24.48
28	23.62	22.70	21.63	---	---	---	21.93	22.10	22.59	23.24	23.71	24.49
29	23.36	21.99	21.75	---	---	21.94	21.98	22.03	22.63	23.29	23.76	24.50
30	23.16	22.15	21.74	---	---	---	22.01	22.16	22.68	23.33	23.78	24.50
31	23.26	---	20.29	---	---	---	---	22.24	---	23.36	23.81	---
MAX	24.33	23.27	22.77	---	---	---	22.01	22.24	22.68	23.36	23.81	24.50
WTR YR 1985 MEAN	22.60			HIGH	18.70	FEB 23	LOW	24.50	SEP 29	AND OTHERS		

## GROUND-WATER RECORDS

281

## HAMILTON COUNTY--Continued

391324084272500. Local number, H-9.

LOCATION.--Lat 39°13'24", long 84°27'25", Hydrologic Unit 05090203, 9.1 mi north of Riverfront Stadium in Cincinnati.

Owner: Diamond National Corporation.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth drilled 168 ft, present depth 163 ft, cased.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 555.30 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter, 2.76 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1938 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 136.80 ft below land-surface datum, Nov. 9, 1947, Feb. 15, 1948; minimum daily low, 61.93 ft below land-surface datum, May 1, 1985.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Nov. 1, 1984	64.33	May 1, 1985	61.93

391341084275300. Local number, H-8.

Owner.--Wyoming Water Department.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 194 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 576.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of platform 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 148.86 ft below land-surface datum, Dec. 1, 1948; minimum daily low, 88.40 ft below land-surface datum, Aug. 31, 1985.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92.95	91.55	91.55	91.50	91.10	89.95	89.90	90.20	89.50	90.00	89.75	88.50
2	92.85	91.70	91.50	91.95	91.30	90.55	89.85	90.40	89.45	93.20	89.70	92.20
3	92.70	91.60	91.70	91.90	91.50	90.45	89.10	90.20	89.95	89.20	89.80	89.25
4	92.75	91.35	91.80	90.85	91.35	89.95	89.35	90.10	92.10	88.90	89.80	88.60
5	92.75	91.25	91.70	91.30	90.80	90.95	89.55	89.90	93.35	88.70	89.50	88.50
6	92.50	92.25	91.90	91.15	90.85	91.15	89.95	89.90	93.55	88.85	89.30	88.60
7	92.60	92.40	91.95	91.05	91.20	90.60	90.15	90.10	---	92.60	89.35	93.00
8	92.55	91.70	91.55	91.40	91.30	90.35	90.25	90.65	---	89.00	89.60	90.05
9	92.70	91.45	91.55	91.50	91.20	90.10	90.65	90.95	---	92.25	89.55	90.10
10	92.60	91.85	91.65	91.45	90.85	90.40	90.50	90.80	---	92.45	89.90	90.30
11	92.50	92.45	91.55	91.65	90.50	90.45	90.35	93.90	89.40	89.35	92.15	93.15
12	92.40	95.95	91.10	91.65	90.20	90.25	90.05	89.90	89.40	89.55	92.25	93.50
13	92.35	92.90	91.50	91.35	90.75	90.25	93.25	89.70	89.25	89.50	90.30	90.65
14	92.20	92.95	91.60	91.35	90.65	90.45	89.50	89.55	89.15	89.70	90.30	94.35
15	92.05	94.55	91.75	91.65	90.85	90.55	89.20	89.40	89.65	89.60	90.05	94.65
16	92.20	92.85	91.70	91.50	90.45	90.25	89.50	89.30	89.60	90.10	89.75	90.75
17	92.35	92.80	91.85	90.80	90.75	90.20	90.10	89.05	89.55	93.30	89.55	91.15
18	92.30	92.65	92.05	90.65	90.85	90.30	90.10	89.15	88.70	94.05	89.75	90.75
19	92.20	92.85	91.75	91.15	90.55	90.05	90.15	89.35	89.45	90.15	89.70	90.90
20	92.15	92.65	91.80	91.55	90.45	90.15	90.25	89.35	89.55	90.05	89.45	---
21	92.20	93.00	91.70	91.40	90.05	90.25	90.35	89.45	89.50	89.85	90.95	---
22	92.40	92.85	92.00	91.40	90.00	89.85	90.25	89.45	89.85	89.85	92.85	---
23	92.40	92.55	91.90	91.35	89.75	89.70	90.00	89.20	89.75	90.05	89.40	91.20
24	92.30	92.45	92.05	90.90	90.00	89.80	89.95	89.30	89.85	90.25	89.10	90.65
25	92.30	92.25	92.45	91.55	89.95	90.00	90.25	89.20	92.50	90.25	89.15	90.30
26	91.70	92.25	92.40	91.55	89.90	90.20	90.15	89.20	92.75	90.00	89.45	90.00
27	91.60	92.25	91.50	91.30	90.05	89.85	90.20	89.25	91.95	90.20	91.40	90.15
28	91.50	91.40	91.35	91.20	90.20	90.15	90.40	89.35	90.00	90.15	89.45	90.45
29	91.80	91.20	91.25	---	---	89.60	90.55	89.35	92.90	90.35	89.30	90.25
30	91.90	91.35	91.55	---	---	89.75	90.50	89.20	90.10	90.30	88.70	90.15
31	91.75	---	91.45	---	---	89.60	---	89.75	---	89.95	88.40	---
MAX	92.95	95.95	92.45	---	91.50	91.15	93.25	93.90	---	94.05	92.85	---
WTR YR 1985 MEAN	90.84		HIGH		88.40	AUG 31		LOW		95.95	NOV 12	



## GROUND-WATER RECORDS

## HAMILTON COUNTY--Continued

391442084262900. Local number, H-7.

LOCATION.--Lat 39°14'42", long 84°26'29", Hydrologic Unit 05090203, at Evendale.

Owner: General Electric Corp.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 180 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 555.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 7.78 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 101.09 ft below land-surface datum, Jan. 29, 1964; minimum daily low, 40.23 ft below land-surface datum, Sept. 22-23, 26, 1985.

DAY	WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.03	47.65	48.41	46.75	47.15	46.63	45.16	43.98	43.46	42.66	41.19	41.05
2	49.01	48.09	48.41	46.81	47.38	46.53	45.18	44.56	43.45	42.03	41.20	40.90
3	48.91	48.09	48.32	47.37	47.38	46.53	44.84	44.90	44.85	41.64	41.18	40.76
4	49.14	47.45	48.69	47.33	47.26	46.19	45.05	44.74	44.87	41.44	41.08	40.82
5	49.01	47.15	48.69	46.72	46.86	46.81	44.51	44.51	44.62	41.21	40.95	40.64
6	48.86	47.40	48.34	46.81	47.35	47.34	44.45	44.25	43.97	41.23	40.82	40.65
7	48.55	47.98	49.00	46.64	47.79	47.37	44.49	44.85	44.47	41.31	40.69	40.83
8	48.40	48.08	49.04	47.47	47.89	47.38	44.68	44.87	44.25	41.22	40.59	40.73
9	48.63	48.07	49.04	47.71	47.96	47.33	45.08	44.97	43.75	41.04	40.62	40.54
10	48.72	47.84	48.41	47.69	47.93	46.92	45.30	45.03	43.72	40.97	40.57	40.75
11	48.63	48.08	48.61	48.20	47.31	46.12	45.40	44.97	43.72	41.13	40.58	41.22
12	48.47	48.11	48.19	48.51	47.51	46.38	45.98	44.70	43.21	41.03	40.56	41.37
13	47.84	48.60	48.37	48.48	47.57	46.75	45.51	45.10	43.43	40.94	41.23	41.47
14	48.00	48.65	48.38	48.02	47.77	46.27	44.98	45.28	43.64	40.82	40.84	41.47
15	47.90	48.15	48.36	48.76	47.91	46.91	44.11	44.95	43.51	40.78	41.06	41.27
16	48.01	48.23	47.90	48.93	47.70	46.94	45.03	44.65	42.70	41.74	41.23	40.93
17	48.30	48.50	47.52	48.69	47.67	46.76	45.38	43.80	42.74	42.87	40.71	40.72
18	48.29	48.66	47.49	48.33	47.73	46.50	45.16	43.83	42.66	42.52	40.52	40.77
19	48.07	48.70	47.27	47.86	47.48	46.54	44.91	43.88	42.48	41.97	42.02	40.72
20	48.03	49.07	47.17	48.23	47.78	45.94	44.92	44.06	42.27	41.49	43.93	40.57
21	47.71	49.06	47.09	48.22	47.78	46.12	44.36	44.01	42.18	41.45	45.04	40.40
22	47.73	49.08	47.11	47.94	47.53	46.14	44.71	43.96	42.18	42.12	45.31	40.23
23	47.87	48.78	47.11	48.11	47.41	45.59	44.86	43.74	42.03	42.04	43.13	40.23
24	47.93	48.22	47.05	48.25	47.07	45.74	44.61	43.78	42.07	41.97	42.99	40.44
25	47.93	47.80	47.45	48.32	47.38	46.67	44.55	43.74	42.38	42.12	42.96	40.44
26	47.54	47.71	47.42	49.09	47.38	47.17	43.91	43.50	42.88	42.20	44.00	40.23
27	47.55	47.85	47.47	49.00	47.06	46.78	43.61	43.40	42.90	42.38	44.50	40.53
28	47.27	48.58	47.48	48.11	47.04	46.71	43.48	43.29	42.83	42.38	42.37	40.68
29	47.56	49.03	46.97	48.13	---	46.18	43.54	43.91	42.62	42.10	41.93	40.66
30	48.05	49.20	47.00	48.05	---	46.21	43.70	44.07	42.55	41.55	42.10	40.50
31	48.06	---	47.07	47.60	---	45.62	---	43.72	---	41.40	41.32	---
MAX	49.14	49.20	49.04	49.09	47.96	47.38	45.98	45.28	44.87	42.87	45.31	41.47
WTR YR 1985 MEAN	45.23				HIGH 40.23	SEP 22 AND OTHERS			LOW 49.20	NOV 30		



## GROUND-WATER RECORDS

285

## HAMILTON COUNTY--Continued

391733084392400. Local number, H-2.

LOCATION.--Lat 39°17'33", long 84°39'24", Hydrologic Unit 05080002, East Miami River Road 1.5 mi south of Ross.

Owner: Lee Wilhelm.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 89 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 534.21 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 8.97 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.37 ft below land-surface datum, Sept. 24, 25, 1972; minimum daily low 1.60 ft below land-surface datum, June, 16, 1958. (Water level above land surface but could not be measured during January 1959 flood.)

## WATER LEVEL (FEET)

WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	18.66	17.81	15.16	16.60	11.20	13.80	16.03	16.07	17.18	18.84	19.07
2	---	18.60	17.81	14.61	16.70	11.55	12.60	16.03	16.08	17.16	18.86	18.95
3	18.21	18.51	17.79	13.95	16.78	11.82	11.80	15.67	16.21	17.02	18.86	18.81
4	18.30	18.40	17.78	13.47	16.82	12.20	11.70	14.71	16.37	16.88	18.84	18.81
5	18.37	18.31	17.79	13.45	16.87	12.58	12.09	14.22	16.54	16.87	18.77	18.94
6	18.44	18.13	17.87	13.60	16.90	12.88	12.28	14.03	16.69	16.90	18.86	19.09
7	18.51	17.96	17.88	13.88	16.92	13.18	12.38	14.20	16.80	16.84	18.91	19.21
8	18.52	17.84	17.96	14.07	16.96	13.48	12.56	14.43	16.80	16.90	18.96	19.26
9	18.52	17.77	18.00	14.22	17.07	13.51	12.89	14.64	16.74	17.03	18.98	19.29
10	18.55	17.74	18.02	14.42	17.10	13.55	13.04	14.87	16.78	17.19	18.98	19.35
11	18.68	17.68	18.02	14.57	17.10	13.57	13.20	15.04	16.86	17.36	18.98	19.42
12	18.81	17.60	17.96	14.76	17.07	13.57	13.42	15.17	16.93	17.51	18.90	19.48
13	18.92	17.51	17.96	14.89	16.98	13.40	13.60	15.28	16.93	17.66	18.84	19.49
14	18.95	17.48	17.94	15.02	16.89	13.25	13.82	15.41	16.93	17.78	18.95	19.48
15	18.95	17.45	17.82	15.18	16.86	13.42	13.99	15.53	16.87	17.90	19.02	19.39
16	18.96	17.54	17.53	15.30	16.81	13.59	14.18	15.58	16.75	18.00	19.03	19.25
17	19.00	17.59	17.27	15.48	16.75	13.71	14.33	15.59	16.66	18.09	19.02	19.16
18	19.01	17.67	17.13	15.59	16.73	13.88	14.42	15.58	16.78	18.17	18.95	19.20
19	19.03	17.78	17.08	15.68	16.68	14.07	14.52	15.49	16.88	18.24	18.90	19.30
20	19.06	17.82	17.06	15.77	16.60	14.32	14.66	15.43	16.96	18.30	18.98	19.41
21	19.05	17.84	17.06	15.91	16.56	14.50	14.73	15.39	17.00	18.37	19.05	19.51
22	19.05	17.85	16.97	16.05	16.50	14.75	14.88	15.44	17.03	18.42	19.12	19.54
23	19.02	17.86	16.77	16.15	16.23	14.92	15.06	15.49	17.03	18.46	19.17	19.54
24	19.00	17.87	16.52	16.19	15.22	15.03	15.27	15.50	16.95	18.50	19.19	19.59
25	18.99	17.88	16.32	16.27	13.47	15.22	15.46	15.52	16.98	18.58	19.19	19.61
26	18.97	17.89	16.16	16.30	11.86	15.43	15.65	15.54	17.08	18.65	19.13	19.59
27	18.96	17.93	16.01	16.32	11.10	15.64	15.76	15.62	17.16	18.67	19.03	19.60
28	18.95	17.98	15.93	16.35	10.91	15.87	15.77	15.67	17.24	18.68	19.00	19.60
29	18.93	17.97	15.99	16.39	---	16.00	15.77	15.76	17.25	18.66	19.08	19.53
30	18.92	17.88	16.00	16.45	---	15.99	15.93	15.88	17.24	18.70	19.12	19.43
31	18.76	---	15.75	16.52	---	15.23	---	16.03	---	18.78	19.12	---

MAX	---	18.66	18.02	16.52	17.10	16.00	15.93	16.03	17.25	18.78	19.19	19.61
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WTR YR 1985	MEAN	16.78	HIGH	10.91	FEB 28	LOW	19.61	SEP 25
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## GROUND-WATER RECORDS

## HAMILTON COUNTY--Continued

391748084393800. Local number, H-19.

LOCATION.--Lat 39°17'48", long 84°39'38", Hydrologic Unit 05080002, on left bank of Great Miami River 1.3 mi southwest of Venice.

Owner: Southwest Ohio Water Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Collector-type industrial supply water-table well, diameter 20 ft, depth 144 ft horizontal intakes at 95-100 ft.

PERIOD OF RECORD.--1964 to current year.

## WATER QUALITY DATA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
NOV 1984										
29...	13:00	765	7.3	6.0	15.5	20	320	82	82	28
MAR 1985										
28...	09:30	740	7.6	8.0	15.0	12	320	86	81	28
AUG										
19...	15:30	750	7.3	30.0	16.5	<10	320	72	81	29

DATE	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	ARSENIC DIS- SOLVED (UG/L AS AS)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
NOV 1984										
29...	238	77	61	0.3	469	0.03	1.60	<1	<10	<10
MAR 1985										
28...	232	71	51	0.3	391	0.04	3.60	--	--	--
AUG										
19...	250	71	56	0.3	432	<0.01	<0.10	<1	20	10

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 1984									
29...	8	8	16	4	4	250	10	10	2.2
MAR 1985									
28...	--	--	23	--	--	250	--	--	1.6
AUG									
19...	10	10	11	2	2	270	20	20	--



## GROUND-WATER RECORDS

287

## HAMILTON COUNTY--Continued

391817084393300. Local number, H-4.

LOCATION.--Lat 39°18'17", long 84°39'33", Hydrologic Unit 05080002, 0.7 mi southwest of Ross.

Owner: Southwestern Ohio Water Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 541.57 ft above National Geodetic Vertical Datum of 1929. (Levels by

Miami Conservancy District.) Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.16 ft below land-surface datum, Nov. 20, 1971; minimum daily low, 11.60 ft below land-surface datum, June 16, 1958.

DAY	WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.29	25.13	24.23	20.89	22.31	18.38	17.54	20.46	20.84	22.20	23.43	24.35
2	24.40	25.11	23.94	20.54	22.32	18.53	17.38	20.46	20.79	22.17	23.43	24.39
3	24.49	25.03	24.12	20.39	22.14	18.61	17.29	20.05	20.89	22.12	23.51	24.39
4	24.58	24.89	24.21	20.22	22.32	18.90	17.30	19.46	20.94	22.05	23.58	24.34
5	24.65	24.58	24.29	20.12	22.46	19.02	17.03	18.91	21.02	21.88	23.58	24.36
6	24.60	24.55	24.41	19.85	22.61	19.07	17.00	19.03	21.09	21.63	23.59	24.41
7	24.38	24.61	24.47	19.76	22.72	19.13	16.99	19.21	21.17	21.44	23.61	24.48
8	24.43	24.64	24.48	20.12	22.76	19.24	16.96	19.36	21.25	21.62	23.60	24.49
9	24.58	24.69	24.38	20.34	22.60	19.27	17.10	19.48	21.23	21.79	23.63	24.50
10	24.53	24.71	24.29	20.55	22.42	19.06	17.63	19.61	21.06	21.93	23.67	24.57
11	24.29	24.43	24.29	20.67	22.61	19.12	17.93	19.64	21.17	22.04	23.76	24.60
12	24.17	24.28	24.28	20.61	22.66	19.12	18.12	19.47	21.23	22.14	23.84	24.64
13	24.12	24.25	24.27	20.43	22.65	19.01	18.12	19.76	21.25	22.23	23.87	24.73
14	24.34	24.31	24.27	20.75	22.61	18.92	18.13	19.94	21.26	22.32	23.91	24.82
15	24.62	24.37	24.22	20.96	22.60	18.97	18.57	20.02	21.32	22.46	23.92	24.85
16	24.75	24.42	24.03	21.08	22.61	19.12	18.80	20.02	21.35	22.57	23.92	24.82
17	24.80	24.44	23.53	21.23	22.34	19.18	18.99	20.00	21.37	22.64	23.98	24.84
18	24.87	24.25	23.42	21.40	22.08	19.34	19.18	20.01	21.38	22.72	24.03	24.84
19	24.96	24.18	23.48	21.53	22.23	19.48	19.31	19.77	21.41	22.75	24.03	24.79
20	24.98	24.34	23.51	21.54	22.29	19.65	19.47	19.83	21.47	22.76	23.99	24.78
21	24.87	24.45	23.52	21.60	22.31	19.73	19.60	20.01	21.58	22.68	24.00	24.84
22	24.94	24.45	23.41	21.69	22.31	19.67	19.70	20.15	21.71	22.77	24.02	24.94
23	25.03	24.22	22.89	21.73	22.13	19.75	19.75	20.28	21.80	22.82	24.05	24.99
24	25.11	24.04	22.41	21.81	21.08	19.70	19.84	20.44	21.81	22.87	24.06	25.01
25	25.17	24.02	22.10	21.89	19.87	19.58	19.92	20.49	21.79	22.93	24.02	25.07
26	25.25	24.24	21.88	21.90	19.01	19.50	19.99	20.33	21.78	23.00	24.07	25.10
27	25.32	24.38	21.71	21.68	18.50	19.47	20.13	20.19	21.87	23.01	24.08	25.15
28	25.38	24.44	21.60	21.91	18.28	19.51	20.29	20.46	21.97	23.09	24.11	25.21
29	25.27	24.44	21.54	22.06	---	19.56	20.32	20.59	22.09	23.19	24.13	25.12
30	25.12	24.37	21.52	22.17	---	19.39	20.38	20.70	22.18	23.30	24.19	25.17
31	25.10	---	21.36	22.24	---	18.40	---	20.83	---	23.36	24.28	---
MAX	25.38	25.13	24.48	22.24	22.76	19.75	20.38	20.83	22.18	23.36	24.28	25.21
WTR YR 1985 MEAN	22.16				HIGH	16.96	APR 8	LOW	25.38	OCT 28		

## HARDIN COUNTY

LOCATION.--Lat 40°42'18", long 83°50'37", Hydrologic Unit 05060001, at grain elevator in Alger.

Owner: Village of Alger.

**AQUIFER.**--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 40 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 975 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 1.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1946 to current year

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 22.15 ft below land-surface datum, Dec. 14, 1964; minimum daily low, 5.85 ft below land-surface datum, July 1, 1946.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.10	14.30	14.85	14.20	13.55	13.65	11.65	12.25	13.25	13.75	15.00	15.70
2	15.25	14.15	14.70	13.90	14.00	14.10	11.45	12.60	12.45	13.40	15.00	16.15
3	14.85	14.25	14.90	14.30	14.25	13.25	11.95	12.20	12.55	14.00	16.50	16.10
4	14.40	13.90	15.25	14.55	15.00	13.45	12.50	12.45	12.95	14.05	16.70	16.10
5	14.90	14.40	15.15	14.70	14.55	13.85	11.90	12.55	12.35	13.40	16.00	17.00
6	14.95	14.25	14.50	14.75	14.60	13.15	12.00	12.65	13.20	14.30	16.45	15.70
7	14.90	14.40	15.15	13.50	14.65	13.75	12.60	12.85	12.65	13.60	15.50	16.35
8	14.95	14.65	15.65	14.15	14.75	13.35	12.45	13.00	13.50	14.15	15.50	16.55
9	14.55	14.15	16.85	13.95	14.95	13.50	12.65	13.45	13.35	14.60	16.05	15.90
10	14.65	14.05	15.80	13.90	14.85	13.65	12.70	13.35	13.80	13.95	15.80	16.65
11	15.10	14.55	15.80	13.55	15.20	13.15	12.75	13.75	12.40	13.75	16.95	16.05
12	14.60	14.35	15.30	13.85	14.95	12.85	11.75	13.90	12.30	14.70	16.75	15.80
13	14.85	14.60	15.30	13.80	15.70	12.65	11.80	14.20	12.65	14.30	17.40	16.85
14	14.55	14.25	15.15	13.65	15.60	12.25	12.80	13.75	12.30	15.15	17.20	15.90
15	14.85	14.15	15.05	13.60	15.80	13.25	12.75	12.85	12.70	14.30	17.00	16.70
16	15.15	14.10	14.80	13.70	16.45	12.75	12.25	12.85	12.50	14.40	15.95	16.80
17	15.00	14.90	15.10	13.95	16.00	13.00	13.00	12.25	12.45	14.65	16.70	16.65
18	14.85	14.85	14.85	13.65	15.75	13.05	12.65	12.50	12.50	16.20	16.50	16.05
19	14.85	14.90	14.55	14.05	15.55	12.90	12.50	13.05	12.75	15.75	15.75	16.10
20	15.00	14.65	14.55	15.10	15.70	13.00	13.20	15.45	12.15	15.35	15.30	16.15
21	14.45	15.30	14.50	15.50	15.05	13.10	13.15	14.00	12.40	15.75	15.40	15.85
22	15.05	15.20	14.35	15.40	14.25	12.45	13.85	13.80	11.95	15.85	15.45	16.35
23	14.35	15.05	14.80	15.15	14.00	13.05	12.90	14.35	12.75	16.50	15.70	16.20
24	14.55	15.40	14.85	14.85	13.95	12.35	13.00	13.75	12.90	16.65	15.50	17.05
25	14.75	15.15	14.95	14.05	14.35	12.60	12.65	13.75	13.45	16.70	15.40	16.40
26	14.25	14.90	15.15	14.40	14.20	12.50	13.35	13.50	13.00	14.80	15.65	16.70
27	15.10	14.05	14.85	13.90	14.30	11.90	12.55	13.90	13.25	15.95	16.40	16.00
28	14.75	14.05	14.35	13.80	13.60	11.90	12.65	12.85	14.25	16.15	15.80	16.15
29	14.95	14.40	14.10	13.80	---	11.85	13.15	12.45	14.35	16.65	16.10	17.10
30	14.50	13.90	14.05	13.50	---	12.00	13.10	12.90	14.65	15.75	15.50	16.60
31	14.45	---	14.30	13.35	---	11.75	---	12.65	---	15.00	16.65	---
MAX	15.25	15.40	16.85	15.50	16.45	14.10	13.85	15.45	14.65	16.70	17.40	17.10
WTR YR 1985 MEAN	14.35		HIGH		11.45	APR 2		LOW		17.40	AUG 13	

## GROUND-WATER RECORDS

289

## HOCKING COUNTY

393200082235300. Local number, HK-1.

LOCATION.--Lat 39°32'00", long 82°23'53", Hydrologic Unit 05060002, at railroad yards southeast edge of Logan.

Owner: Chessie System.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 88 ft, cased.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 710 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of gage platform 4.90 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1962 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.35 ft below land-surface datum, Dec. 21, 22, 1967; minimum daily low, 9.11 ft below land-surface datum, Apr. 22, 1964.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 24, 1984	17.79	Apr. 16, 1985	14.78

## GROUND-WATER RECORDS

## KNOX COUNTY

402344082300700. Local number, K-1.

LOCATION.--Lat 40°23'44", long 82°30'07", Hydrologic Unit 05040003, in city park, Mt. Vernon.

Owner: Mt. Vernon Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth 90 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1000 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 19.98 ft below land-surface datum, Oct. 1, 1983; minimum daily low, 1.43 ft below land-surface datum, Apr. 9, 1950.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.71	12.96	12.12	8.79	12.46	13.05	10.14	13.34	12.48	12.21	12.71	12.96
2	13.07	13.16	11.82	10.73	12.02	12.95	10.67	10.24	11.03	12.93	13.33	13.30
3	13.00	13.16	11.77	10.99	11.81	12.27	11.00	9.89	11.82	10.40	10.97	14.04
4	12.66	12.34	11.95	11.17	11.91	12.54	10.82	10.57	12.30	12.33	10.83	14.06
5	12.95	12.86	11.99	11.32	11.85	13.33	10.39	10.39	12.41	12.58	13.52	13.59
6	11.94	13.13	11.92	10.17	12.06	13.67	10.31	11.72	12.12	9.47	15.09	14.33
7	10.53	13.43	12.21	11.15	14.84	13.44	7.63	12.74	12.08	9.77	15.34	13.91
8	12.75	13.49	11.57	11.60	14.98	13.74	12.07	12.56	11.70	11.79	15.56	12.05
9	13.03	13.42	11.63	11.75	13.28	12.49	10.86	12.19	10.03	12.71	15.61	14.54
10	13.50	12.99	12.18	11.75	12.01	11.60	10.46	13.08	11.82	13.38	12.74	14.83
11	13.15	12.59	12.01	11.41	12.81	12.47	10.78	10.49	13.56	12.97	12.75	13.60
12	12.29	12.43	12.21	11.02	12.68	13.51	10.41	10.10	11.44	12.67	13.28	14.03
13	11.80	12.49	12.40	9.50	12.47	11.81	11.11	11.88	11.40	11.31	15.06	14.15
14	9.85	12.57	12.43	9.55	12.67	13.00	11.02	13.23	12.03	10.81	14.04	12.01
15	11.62	12.56	12.41	9.86	13.03	11.29	11.44	12.12	10.17	13.08	13.51	12.15
16	12.08	12.57	12.21	10.73	12.97	10.11	12.65	11.55	9.28	11.38	13.57	13.37
17	12.72	12.81	12.02	11.25	12.79	10.35	11.72	11.80	11.54	12.14	13.58	14.56
18	13.23	12.78	12.31	11.36	13.27	10.55	12.14	9.78	11.83	12.26	12.82	15.41
19	12.26	12.94	12.31	11.15	12.81	11.86	12.51	9.56	10.30	12.63	12.67	15.67
20	12.72	12.94	12.34	10.96	13.78	10.99	12.48	11.36	11.45	12.40	14.11	14.75
21	10.33	12.78	12.32	11.21	13.19	11.48	11.80	11.94	11.60	11.78	14.54	12.44
22	13.20	12.69	10.62	11.24	12.94	9.86	11.53	10.73	10.36	12.51	14.26	12.49
23	13.13	11.62	9.84	11.03	11.87	9.30	11.61	11.43	10.31	12.60	14.30	14.47
24	12.95	11.03	10.62	11.15	11.74	9.21	11.66	12.06	11.74	12.94	11.84	13.90
25	13.16	11.22	9.53	12.31	11.87	10.82	13.11	9.97	11.67	13.87	10.64	13.29
26	13.05	11.44	10.31	13.01	10.45	11.66	11.74	9.48	11.52	14.06	12.62	12.91
27	12.88	12.14	10.94	13.11	12.65	11.23	11.66	11.33	12.48	10.86	13.45	12.91
28	11.94	12.02	10.87	12.79	12.74	11.47	10.35	11.45	12.14	10.29	13.52	12.83
29	12.74	12.30	10.47	11.96	---	11.31	12.29	10.62	10.64	11.80	13.42	12.63
30	12.85	12.36	10.63	12.28	---	10.45	13.25	11.50	10.39	12.66	13.45	13.54
31	12.95	---	10.19	12.31	---	9.63	---	12.82	---	11.94	12.67	---
MAX	13.50	13.49	12.43	13.11	14.98	13.74	13.25	13.34	13.56	14.06	15.61	15.67
WTR YR 1985 MEAN	12.11											
HIGH					7.63	APR 7	LOW	15.67	SEP 19			



## GROUND-WATER RECORDS

291

## MADISON COUNTY

395301083272200. Local number, M-2.

LOCATION.--Lat 39°53'01", long 83°27'22", Hydrologic Unit 05060002, U.S. 42 and Westmore Dr., London.

Owner: State of Ohio

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 350 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1035 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 41.29 ft below land-surface datum, Aug. 29, 1985; minimum daily low, 0.55 ft above land-surface, Apr. 13, 1980.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.20	39.77	4.60	34.72	36.44	7.10	33.44	38.92	37.73	30.22	10.29	39.48
2	5.22	40.11	4.60	35.91	37.68	7.25	34.52	38.90	36.29	25.37	10.25	39.36
3	5.10	40.11	4.47	37.95	38.39	7.24	35.56	26.57	37.10	20.48	10.16	38.11
4	5.19	40.04	4.48	38.97	38.43	7.00	36.19	20.01	37.88	16.38	10.02	39.00
5	5.21	40.23	4.47	39.13	38.02	7.08	36.56	15.86	38.38	14.00	9.90	28.32
6	5.21	40.24	4.30	36.26	38.59	13.17	36.75	13.20	38.67	12.56	9.76	21.81
7	5.15	28.03	4.31	35.96	37.64	14.37	35.52	11.48	37.00	11.61	9.62	18.29
8	5.07	20.59	4.13	36.91	37.52	10.18	34.60	10.30	32.65	13.16	9.56	16.00
9	5.04	16.25	8.26	25.30	38.64	8.90	35.79	18.00	35.17	22.65	9.60	14.44
10	16.70	13.37	12.96	18.23	39.08	8.05	36.50	18.27	36.04	23.16	9.62	13.39
11	18.88	11.37	8.93	14.13	39.16	7.41	37.03	12.35	34.52	26.88	9.61	12.77
12	12.20	10.22	6.84	11.72	26.46	11.96	37.25	16.49	26.22	27.09	19.45	12.28
13	9.40	9.18	5.70	9.94	19.73	13.98	37.22	12.29	20.11	27.01	26.93	11.90
14	7.80	8.37	5.23	13.03	16.20	10.33	35.50	19.58	16.71	27.14	32.27	11.55
15	6.83	7.58	4.79	18.22	13.84	8.90	35.79	18.98	14.61	28.16	35.41	11.01
16	6.23	7.05	4.46	12.95	12.30	8.09	37.01	13.85	12.94	27.88	36.17	10.49
17	5.88	6.77	4.16	9.95	11.17	7.40	37.89	10.98	11.83	24.26	36.01	10.18
18	5.68	6.36	16.83	8.38	10.50	7.08	39.20	9.44	15.07	24.41	36.25	10.15
19	15.59	5.95	25.92	7.37	9.73	6.90	40.06	8.50	16.69	22.15	37.59	10.12
20	25.18	5.89	29.53	---	9.26	6.82	40.16	7.89	12.13	23.26	39.22	10.07
21	30.64	5.79	31.08	---	8.91	16.88	37.86	19.79	21.18	22.43	40.25	10.02
22	33.60	5.65	32.64	28.01	8.53	24.14	37.26	22.87	19.36	21.70	40.57	9.99
23	35.78	5.41	33.29	31.61	8.22	26.02	37.69	26.92	14.61	16.58	39.83	9.82
24	37.17	5.22	33.96	34.12	7.76	27.77	37.22	30.62	23.35	14.39	38.71	9.83
25	37.97	5.08	34.56	36.45	7.56	30.68	37.83	32.24	26.99	13.07	38.12	9.83
26	38.58	4.94	34.75	37.85	7.21	32.60	38.12	33.95	26.08	12.15	38.40	9.78
27	38.97	4.85	34.97	38.66	6.91	33.82	38.33	34.98	28.92	11.66	40.35	9.89
28	39.32	4.64	36.33	38.94	7.10	34.04	38.67	35.99	30.60	11.24	41.18	10.01
29	39.43	4.65	36.07	38.85	---	35.05	38.83	36.10	31.57	10.91	41.29	10.00
30	38.82	4.55	36.26	36.32	---	35.30	38.86	37.05	32.53	10.65	40.17	9.91
31	39.47	---	36.24	34.86	---	34.07	---	37.46	---	10.45	39.66	---
MAX	39.47	40.24	36.33	---	39.16	35.30	40.16	38.92	38.67	30.22	41.29	39.48
WTR YR 1985	MEAN	22.14		HIGH	4.13	DEC 8	LOW	41.29	AUG 29			

## GROUND-WATER RECORDS

## MADISON COUNTY--Continued.

395357083304400. Local number, M-4.

LOCATION.--Lat 39°53'57", long 83°30'44" Hydrologic Unit 05060002, 3.5 mi northwest of London, Ohio.

Owner.--State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 10 in., depth 49 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1,112 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.55 ft below land-surface datum, June 6, 1983; minimum daily low 0.65 ft below land-surface datum, Aug. 24, 1983.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.55	15.45	12.70	6.50	10.50	11.45	6.35	9.80	9.40	12.40	18.30	15.65
2	16.60	13.35	12.45	6.50	10.60	11.50	7.70	12.75	9.40	12.45	19.15	15.60
3	17.85	11.75	12.45	6.40	10.65	11.50	7.75	13.25	9.55	12.55	18.85	15.60
4	18.85	17.50	12.35	6.25	10.65	11.40	1.85	3.80	9.80	12.65	18.95	15.60
5	15.65	17.50	12.85	6.05	12.85	11.50	2.65	3.65	9.25	12.65	18.25	15.65
6	15.50	13.95	12.95	6.05	13.35	11.55	5.10	3.65	9.30	12.70	18.15	15.70
7	15.25	13.75	12.30	5.95	13.55	11.45	5.25	3.95	9.45	12.70	18.15	15.75
8	15.35	13.85	12.75	6.00	13.60	8.30	6.30	7.70	9.50	12.75	18.20	15.75
9	15.35	13.95	12.95	6.05	13.70	7.85	3.20	3.45	9.55	12.80	18.05	15.80
10	15.45	13.60	13.10	6.00	13.75	7.65	2.70	5.55	10.00	12.85	18.30	15.75
11	15.45	13.50	13.00	6.10	13.95	7.55	2.25	5.55	10.15	12.90	18.45	15.65
12	15.45	12.50	12.85	6.15	13.95	7.35	2.25	6.25	10.20	12.85	18.50	15.70
13	15.50	12.65	12.85	6.15	11.70	7.35	2.95	6.35	9.05	12.95	18.60	15.70
14	15.50	12.85	12.75	6.70	11.50	7.45	2.95	5.75	10.60	15.40	18.70	15.65
15	17.95	12.50	12.40	6.85	11.55	7.45	3.30	6.20	10.75	14.40	18.80	15.75
16	15.80	12.50	12.25	6.85	11.55	7.35	3.65	6.35	9.95	16.35	18.85	15.95
17	16.00	12.35	16.10	6.75	11.60	7.35	6.95	5.30	9.75	16.55	18.85	15.85
18	16.05	12.25	16.25	6.75	11.55	7.40	6.30	5.05	9.75	13.40	18.90	15.70
19	16.00	12.15	13.45	6.85	11.50	17.50	6.25	5.05	9.85	16.35	18.75	15.55
20	15.95	12.10	8.40	6.90	11.50	17.80	6.50	5.00	11.70	16.65	19.15	15.60
21	15.70	12.20	8.00	6.90	11.50	7.85	6.55	5.05	12.05	16.75	19.20	15.60
22	15.70	13.25	7.45	10.35	11.45	7.55	6.50	5.10	11.65	16.65	15.75	15.65
23	15.00	13.40	7.30	10.65	10.80	7.40	6.55	4.55	11.65	16.70	18.65	15.65
24	15.35	12.35	7.15	10.70	10.00	7.45	8.45	4.75	11.95	16.45	19.05	15.60
25	19.45	12.35	7.25	11.30	11.25	7.50	9.15	6.60	12.15	18.35	19.00	15.65
26	14.85	12.45	7.55	11.65	11.40	7.50	9.15	7.00	12.15	18.00	19.25	15.55
27	14.85	12.35	10.00	11.75	11.50	7.40	9.15	7.05	12.15	18.10	16.15	15.65
28	14.95	13.50	10.50	12.65	11.45	7.40	9.75	8.45	12.25	---	15.75	15.65
29	15.25	13.55	10.60	10.80	---	7.45	10.05	8.70	12.35	18.25	15.70	15.75
30	15.50	13.55	7.15	10.50	---	6.80	9.85	8.95	12.35	18.50	15.70	15.75
31	15.60	---	6.75	10.40	---	6.50	---	9.20	---	18.55	15.70	---
MAX	19.45	17.50	16.25	12.65	13.95	17.80	10.05	13.25	12.35	---	19.25	15.95
WTR YR 1985 MEAN	11.75											
HIGH					1.85	APR 4						
LOW							19.45	OCT 25				

## GROUND-WATER RECORDS

293

## MADISON COUNTY--Continued

395740083255700. Local number, M-3.

LOCATION.--Lat 39°57'40", long 83°25'57", Hydrologic Unit 05060002, 5.2 mi north of London.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 290 ft, cased to 145 ft.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,020 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--November 1974 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 10.03 ft below land-surface datum, Oct. 6, 1982; minimum daily low, 3.93 ft below land-surface datum, Feb. 25, 1975.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 4, 1984	9.00	May 1, 1985	5.38

## GROUND-WATER RECORDS

## MAHONING COUNTY

410042080453800. Local number, MA-1.

LOCATION.--Lat 41°00'42", long 80°45'38", Hydrologic Unit, 05030103, in county fairgrounds at south edge of Canfield.

Owner: Canfield Water Department.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 170 ft, cased to 99.5 ft.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,160 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter at land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Influenced by seasonal water demand at county fairgrounds.

PERIOD OF RECORD.--May 1946 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 110.75 ft below land-surface datum, Sept. 18, 1946; minimum daily low, 30.35 ft below land-surface datum, Apr. 23, 1951.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 1, 1984	37.79	May 30, 1985	42.86



## GROUND-WATER RECORDS

295

## MARION COUNTY

403413083170500. Local number, MN-4.

LOCATION.--Lat 40°34'13", long 83°17'05", Hydrologic Unit 05060001, 1.9 mi southeast of New Bloomington.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth drilled 290 ft, present depth 286 ft, cased to 33 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 915.96 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of shelter 3.00 ft above land-surface datum.

REMARKS.--Influenced by seasonal water demand for nearby wildlife refuge.

PERIOD OF RECORD.--January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.57 ft below land-surface datum, Aug. 14, 1983; minimum daily low, 0.61 ft below land-surface datum, Mar. 18, 1974.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.99	12.85	10.02	8.28	7.63	---	6.06	7.44	7.18	7.74	24.43	21.21
2	9.98	12.60	10.01	8.25	7.55	---	5.91	7.33	7.25	7.67	24.62	22.49
3	9.83	12.40	9.99	8.09	7.47	---	5.83	7.19	7.37	7.57	24.78	23.83
4	19.24	12.00	10.05	7.75	7.18	---	5.83	7.05	7.42	7.51	24.90	24.06
5	23.45	11.72	10.03	7.72	6.26	---	5.73	6.88	7.41	7.46	25.05	24.93
6	24.97	11.64	9.87	7.72	5.86	---	5.85	6.82	7.51	7.40	25.09	25.36
7	25.70	11.52	9.87	7.54	5.52	5.75	5.85	6.90	7.47	7.39	25.19	25.42
8	26.21	11.31	9.83	7.75	5.55	5.89	5.87	6.96	7.45	7.29	25.33	13.70
9	26.59	11.02	9.83	7.77	5.46	5.93	5.96	6.96	7.46	7.23	25.48	12.83
10	26.87	10.69	9.81	7.64	5.54	5.96	5.93	6.98	7.46	7.31	25.68	12.55
11	27.06	10.97	9.83	7.43	5.65	5.92	5.98	7.00	7.42	7.41	25.80	11.58
12	27.11	10.97	9.64	7.68	5.58	6.00	6.03	7.08	7.23	7.46	25.86	11.10
13	24.39	10.93	9.74	7.69	5.66	5.99	6.02	7.20	7.18	7.53	26.00	10.45
14	26.45	10.82	9.73	7.43	5.83	6.07	5.98	7.24	7.14	7.52	26.02	10.03
15	27.12	10.57	9.70	7.41	5.79	6.17	5.98	7.24	7.07	7.50	26.07	9.60
16	27.55	10.53	9.53	7.63	---	6.15	6.20	7.21	6.97	7.76	26.13	9.41
17	27.84	10.55	9.43	7.70	---	6.20	6.28	7.05	6.97	7.66	26.18	18.63
18	27.96	10.41	9.44	7.62	---	6.27	6.20	7.07	6.92	7.99	26.26	23.47
19	24.70	10.45	9.31	7.52	---	6.27	6.25	7.11	6.99	7.73	26.38	15.60
20	27.01	10.52	9.29	7.83	---	6.37	6.33	7.08	7.07	7.74	26.47	12.00
21	27.86	10.52	9.26	7.80	---	6.37	6.40	7.06	7.11	7.70	26.59	20.12
22	28.18	10.49	9.25	7.75	---	6.28	6.43	6.99	7.14	7.77	26.68	24.03
23	28.39	10.31	9.25	7.70	---	6.18	6.51	6.85	7.20	7.75	26.70	25.05
24	28.55	10.23	9.07	7.84	---	6.27	6.69	6.86	7.29	7.50	16.37	18.25
25	28.57	10.20	9.18	7.85	---	6.42	6.88	6.84	7.34	18.95	13.58	13.60
26	28.64	10.15	9.17	7.84	---	6.42	7.01	6.85	7.40	21.44	12.27	12.44
27	19.70	10.11	8.95	7.57	---	6.28	8.54	6.90	7.46	22.57	11.55	11.24
28	15.90	9.99	8.83	7.57	---	6.19	7.33	7.03	7.51	23.22	11.09	20.21
29	14.53	10.00	8.72	7.59	---	6.35	7.52	7.06	7.59	23.66	10.61	24.29
30	13.79	9.89	8.76	7.70	---	6.39	7.37	7.02	7.69	23.97	10.27	25.04
31	13.30	---	8.62	7.67	---	6.29	---	7.03	---	24.16	16.16	---
MAX	28.64	12.85	10.05	8.28	---	---	8.54	7.44	7.69	24.16	26.70	25.42
WTR YR 1985	MEAN	11.61		HIGH	5.46	FEB 9	LOW	28.64	OCT 26			

## GROUND-WATER RECORDS

## MARION COUNTY--Continued

403443083230400. Local number, MN-1.

LOCATION.--Lat 40°34'43, long 83°23'04", Hydrologic Unit 05060001, SR 37 at Baptist Church in LaRue.

Owner: Village of LaRue.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in., depth 100 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 930 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measurnig point: Floor of instrument shelter 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 14.72 ft below land-surface datum, Oct. 8, 1983; minimum daily low, 5.67 ft below land-surface datum, Jan. 23, 1959.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.36	13.66	13.02	10.99	11.48	8.48	8.88	11.39	11.25	11.82	12.95	12.79
2	13.32	13.70	13.14	10.72	11.41	8.75	8.99	11.14	11.73	11.75	12.70	12.75
3	13.35	13.52	13.00	10.18	11.49	8.93	9.18	10.65	11.84	11.66	12.77	12.78
4	13.35	13.42	12.99	10.62	11.47	9.12	9.31	10.32	11.72	11.78	12.85	12.78
5	13.38	13.50	12.94	10.94	11.44	9.03	9.37	10.28	11.69	11.79	12.97	12.77
6	13.31	13.45	12.85	10.79	11.49	9.10	9.12	10.58	11.71	11.73	12.92	12.80
7	13.30	13.35	12.84	10.71	11.54	9.24	9.11	10.59	11.58	11.79	12.93	13.00
8	13.50	13.27	12.86	10.73	11.64	9.26	9.25	10.81	11.70	11.68	13.00	13.18
9	13.49	13.18	12.88	10.75	11.59	9.43	9.43	10.84	11.72	11.79	13.04	13.27
10	13.62	13.13	13.11	10.79	11.50	9.54	9.65	10.86	11.95	11.78	13.08	13.56
11	13.70	13.13	12.93	10.90	11.40	9.57	9.78	11.01	11.84	11.76	13.12	13.53
12	13.68	13.15	12.83	10.91	11.27	9.59	9.80	11.13	11.51	11.81	13.19	13.17
13	13.74	13.12	12.87	10.97	11.25	9.55	9.99	11.39	11.27	11.89	13.35	13.04
14	13.65	13.04	12.75	10.99	11.22	9.56	10.03	11.17	11.08	12.08	13.25	13.09
15	13.73	12.96	12.62	11.03	11.19	9.68	10.08	11.13	11.05	11.87	13.20	13.02
16	13.82	13.00	12.32	11.18	11.45	9.81	10.18	10.99	11.05	12.00	13.24	12.98
17	13.86	12.99	12.37	11.06	12.01	10.13	10.16	10.70	11.08	12.00	13.10	13.10
18	13.94	12.96	12.37	10.95	12.02	10.13	10.41	10.67	11.10	12.02	13.15	13.16
19	13.94	13.32	12.39	11.03	11.55	10.13	10.69	10.66	11.19	12.07	13.20	12.88
20	14.12	13.47	12.40	11.21	11.28	10.08	10.62	10.73	11.27	12.13	13.14	12.94
21	13.90	13.29	12.33	11.40	11.28	10.04	10.64	10.55	11.24	12.08	13.14	13.18
22	13.98	13.43	12.23	11.35	11.17	9.88	10.82	10.17	11.24	12.28	13.20	13.09
23	13.98	13.27	12.22	11.65	10.44	9.97	10.72	10.34	11.37	12.20	13.19	13.16
24	13.99	13.18	12.05	11.45	8.22	9.96	10.67	10.38	11.55	12.32	13.13	13.23
25	14.00	13.14	12.10	11.32	7.98	10.23	10.83	10.74	11.59	12.25	13.11	13.14
26	13.93	13.17	12.14	11.49	7.96	10.14	10.84	10.97	11.69	12.20	13.13	13.07
27	13.94	13.20	12.10	11.48	8.15	10.08	10.98	11.06	11.68	12.33	13.10	13.07
28	13.88	12.96	12.11	11.53	8.37	10.10	11.13	11.35	11.73	12.26	13.18	13.11
29	13.98	13.00	12.08	11.55	---	10.20	11.36	11.37	11.79	12.40	13.12	13.12
30	13.95	12.89	11.97	11.53	---	10.23	11.43	11.38	11.77	12.40	13.00	13.31
31	13.84	---	11.42	11.45	---	9.90	---	11.32	---	12.74	12.82	---
MAX	14.12	13.70	13.14	11.65	12.02	10.23	11.43	11.39	11.95	12.74	13.35	13.56
WTR YR 1985 MEAN	11.81											
HIGH					7.96	FEB 26						
LOW							14.12	OCT 20				

## MARION COUNTY--Continued

403601083110400. Local number, MN-2.

LOCATION.--Lat 40°36'01, long 83°11'04", Hydrologic Unit 05060001, water treatment plant 2 mi west of Marion.

Owner: Marion Water Department.

**AQUIFER.**--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 67 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 910 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 49.50 ft below land-surface datum, Feb. 11, 1956; minimum daily low, 7.35 ft below land-surface datum, Apr. 2, 1974.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.21	17.53	16.05	15.60	14.18	12.22	12.27	11.30	11.56	12.79	13.38	14.46
2	15.28	17.67	16.05	15.76	14.22	12.52	12.38	11.28	11.54	12.71	---	14.48
3	15.33	17.67	15.96	15.81	14.27	12.58	12.46	11.24	11.53	12.71	---	14.49
4	15.47	17.44	15.96	15.76	14.28	12.50	12.43	11.24	11.54	12.91	---	14.51
5	15.60	17.28	15.93	15.61	14.21	12.71	12.18	11.16	11.49	13.09	---	14.55
6	15.68	17.20	15.82	15.55	14.15	12.99	12.04	11.10	11.49	13.37	---	14.55
7	15.73	17.22	15.80	15.39	14.23	13.06	12.45	11.09	11.46	13.52	---	14.52
8	15.78	17.24	15.73	15.30	14.24	12.96	12.64	11.09	11.38	13.52	---	14.50
9	15.86	17.18	15.70	15.25	14.25	12.94	12.76	11.08	11.67	13.55	---	14.43
10	16.04	17.12	15.65	15.17	14.24	12.86	12.71	11.01	12.12	13.39	---	14.37
11	16.09	17.08	15.61	15.04	14.13	12.73	12.53	10.99	12.29	13.23	---	14.36
12	16.08	17.05	15.54	14.99	14.03	12.58	12.44	10.94	12.56	13.10	---	14.36
13	15.97	17.01	15.76	14.88	13.98	12.57	12.33	10.96	12.77	12.99	---	14.36
14	15.81	17.09	15.82	14.72	13.98	12.48	12.19	10.95	12.85	12.87	---	14.38
15	15.88	17.10	15.87	14.68	13.96	12.49	12.04	10.94	12.84	12.74	---	14.37
16	15.96	17.08	15.87	14.66	13.95	12.47	11.89	11.17	12.82	12.67	---	14.33
17	16.04	17.06	15.88	14.52	13.93	12.33	11.87	11.44	12.81	12.63	---	14.34
18	16.07	16.97	15.93	14.42	13.94	12.30	11.78	11.53	12.82	12.58	---	14.50
19	16.13	16.85	15.90	14.33	13.89	12.26	11.68	11.61	12.93	12.49	---	14.62
20	16.21	16.83	15.74	14.26	13.89	12.23	11.62	11.66	12.97	12.48	---	14.75
21	16.25	16.78	15.66	14.26	13.89	12.23	11.58	11.67	13.05	12.60	---	14.82
22	16.33	16.72	15.64	14.35	13.85	12.15	11.52	11.70	13.05	12.85	---	14.86
23	16.42	16.61	15.80	14.35	13.91	12.06	11.46	11.70	13.08	13.00	---	14.88
24	16.67	16.54	15.96	14.27	13.97	11.97	11.42	11.69	13.13	13.04	---	14.95
25	16.87	16.46	16.04	14.23	13.75	11.99	11.39	11.65	13.13	13.03	---	15.15
26	17.06	16.38	15.93	14.32	12.40	11.99	11.36	11.58	13.09	13.08	---	15.27
27	17.06	16.31	15.71	14.26	11.94	11.85	11.35	11.51	13.04	13.12	---	15.43
28	16.93	16.20	15.63	14.17	11.97	11.75	11.36	11.50	12.97	13.15	14.41	15.56
29	16.94	16.18	15.47	14.19	---	11.70	11.42	11.55	12.91	13.21	14.41	15.61
30	17.22	16.11	15.72	14.16	---	11.75	11.38	11.57	12.84	13.26	14.41	15.65
31	17.38	---	15.68	14.14	---	12.04	---	11.54	---	13.32	14.43	---
MAX	17.38	17.67	16.05	15.81	14.28	13.06	12.76	11.70	13.13	13.55	---	15.65
WTR YR 1985	MEAN	13.95		HIGH	10.94	MAY 12	AND OTHERS	LOW	17.67	NOV 2	AND OTHERS	

## GROUND-WATER RECORDS

## MEDINA COUNTY

410120081431800. Local number, MD-3.

LOCATION.--Lat 41°01'20", long 81°43'18", Hydrologic Unit 05040001, Auble Street at water treatment plant in Wadsworth.

Owner: Wadsworth Water Department.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 275 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1180 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--December 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 186.74 ft below land-surface datum, Jan. 21, 1975; minimum daily low, 140.60 ft below land-surface datum, Apr. 16, 1983

## WATER LEVEL (FEET)

WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	160.90	149.60	---	---	165.20	163.90	165.40	166.30	---	154.90	154.75
2	161.80	160.40	149.70	---	---	165.60	164.30	165.50	166.50	---	165.20	---
3	149.30	160.50	160.90	---	---	161.80	164.20	165.70	166.50	165.50	165.50	---
4	161.40	146.10	161.20	---	---	164.00	164.10	165.70	165.90	156.90	165.20	---
5	162.50	159.50	149.90	---	---	165.10	164.30	165.60	167.20	149.70	166.30	---
6	162.50	161.30	150.90	---	---	165.10	149.40	165.60	167.70	149.15	157.80	---
7	161.70	161.50	151.10	---	---	165.00	161.70	165.80	167.90	148.80	156.30	---
8	158.00	160.80	147.80	---	---	164.10	163.50	166.10	167.70	148.40	155.70	---
9	161.60	148.90	149.80	---	---	164.70	164.20	167.30	167.90	153.00	164.80	---
10	161.70	---	162.10	---	---	164.80	163.50	167.90	168.10	164.70	164.90	---
11	161.70	148.50	162.30	---	163.00	163.70	164.30	167.20	167.60	---	156.10	---
12	161.85	---	151.90	---	163.30	164.80	164.70	167.40	167.80	---	155.30	---
13	---	---	152.50	---	164.20	164.80	164.80	166.50	166.80	---	155.50	---
14	---	160.30	151.80	---	164.60	164.80	163.00	166.50	167.50	---	163.40	---
15	159.40	147.60	151.90	---	164.70	165.20	163.80	168.10	156.00	---	165.20	---
16	160.70	160.40	151.70	---	163.00	163.50	164.60	166.90	165.90	---	155.10	---
17	159.00	---	152.00	---	164.60	164.50	164.80	166.40	166.80	---	155.30	---
18	160.80	---	151.50	---	164.90	164.10	164.80	166.70	156.20	---	---	---
19	---	---	151.60	---	165.10	164.50	164.90	166.60	166.30	---	154.90	---
20	---	---	148.10	---	165.30	164.60	165.10	166.10	156.30	---	155.20	---
21	---	---	150.70	---	165.30	164.50	165.20	166.50	166.30	---	154.70	---
22	---	---	151.70	---	165.30	164.70	166.50	168.20	167.20	---	155.10	---
23	158.70	---	148.70	---	165.30	164.70	167.10	167.00	157.20	---	155.30	---
24	159.10	---	160.20	---	165.25	163.70	166.00	166.50	166.60	---	155.30	---
25	---	---	151.30	---	164.80	164.50	165.70	166.60	---	---	154.00	---
26	161.20	160.30	148.00	---	165.00	164.80	165.70	166.70	---	---	165.10	---
27	162.70	---	149.60	---	165.50	164.70	165.40	165.60	---	---	161.20	---
28	162.00	---	149.90	---	165.40	164.80	165.40	166.00	---	---	156.30	---
29	161.30	---	---	---	---	165.10	165.10	165.90	---	---	155.36	---
30	161.40	---	---	---	---	165.30	165.30	166.00	---	---	155.30	---
31	160.80	---	---	164.30	---	162.40	---	166.00	---	---	154.40	---
MAX	---	---	---	---	---	165.60	167.10	168.20	---	---	---	---

WTR YR 1985 MEAN 161.43 HIGH 146.10 NOV 4 LOW 168.20 MAY 22



## GROUND-WATER RECORDS

299

## MERCER COUNTY

402833084375200. Local number, MR-2.

LOCATION.--Lat 40°28'33", long 84°37'52", Hydrologic Unit 05120101, at AVCO Mfg. Co. building in Coldwater.

Owner: New Idea Farm Equipment Co.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 253 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 915 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of platform 1.2 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 76.60 ft below land-surface datum, June 25, 1985; minimum daily low, 60.13 ft below land-surface datum, Feb. 14, 1967.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	72.38	70.97	70.43	71.91	76.41	---	74.89	76.26	76.38	73.73	74.72
2	---	72.80	70.98	70.79	72.08	---	---	75.03	76.09	75.50	73.72	74.75
3	---	72.80	70.92	70.79	72.17	---	---	75.34	76.02	75.19	73.65	74.45
4	---	71.53	71.10	70.51	72.05	---	---	75.73	75.57	75.29	73.38	74.78
5	---	71.29	71.11	70.66	71.72	---	---	75.76	75.90	75.00	73.31	74.86
6	---	71.58	71.05	70.62	71.96	---	---	75.11	76.31	75.26	72.94	75.02
7	---	71.51	71.05	70.31	72.44	---	---	75.68	76.28	75.27	73.90	74.93
8	---	71.40	70.97	70.82	72.68	---	---	75.15	76.16	74.97	73.93	74.90
9	---	71.24	70.99	71.37	72.58	---	74.53	75.17	76.17	75.09	74.06	74.63
10	72.93	70.95	70.78	71.56	72.04	---	74.53	75.09	76.39	75.26	74.21	74.84
11	72.97	71.06	70.86	71.90	71.06	---	74.52	75.05	76.31	75.29	74.42	74.93
12	72.95	71.13	70.65	72.07	71.31	---	74.60	74.97	76.36	75.30	74.40	75.04
13	72.72	71.29	71.13	71.02	72.10	---	74.55	74.86	76.49	75.34	74.25	75.11
14	72.22	71.27	71.18	71.09	72.29	---	74.31	75.67	76.55	75.16	74.77	74.87
15	72.43	71.01	71.28	71.68	71.98	---	74.16	75.80	76.38	75.28	74.86	74.47
16	72.70	71.25	71.15	71.51	71.98	---	75.19	75.71	76.26	75.30	74.96	74.31
17	72.98	71.26	70.99	71.10	72.28	---	75.64	75.54	76.39	75.28	75.03	74.40
18	72.74	71.11	71.27	71.19	72.58	---	74.78	75.59	76.36	75.23	74.87	74.72
19	72.95	71.13	71.08	71.60	72.69	---	74.76	75.70	76.39	75.10	74.42	74.82
20	72.97	71.36	71.16	71.72	73.74	---	74.77	75.03	76.49	75.07	74.52	74.73
21	72.30	71.45	71.10	71.62	73.76	---	74.52	75.32	76.49	75.07	74.57	73.94
22	72.70	71.41	71.36	71.67	73.77	---	74.18	75.33	76.36	75.04	74.56	74.34
23	72.75	70.96	71.36	71.67	73.67	---	74.34	75.64	76.55	75.13	74.57	74.16
24	72.94	70.87	70.56	71.51	73.13	---	74.50	76.03	76.56	75.11	74.52	74.39
25	72.97	70.77	70.54	72.05	72.94	---	74.55	76.07	76.60	75.10	74.49	74.49
26	72.79	70.68	70.31	72.14	72.75	---	74.57	76.03	76.49	75.18	74.53	74.80
27	72.80	70.70	70.75	71.90	75.39	---	74.81	74.91	76.50	75.22	74.61	74.96
28	71.80	70.86	71.05	71.71	76.04	---	74.89	75.76	76.38	74.63	74.94	75.15
29	72.48	70.87	70.75	71.79	---	---	74.79	76.09	76.37	73.91	74.94	75.16
30	72.50	70.74	70.83	71.78	---	---	74.86	76.02	76.39	73.94	74.80	74.23
31	72.45	---	70.71	71.78	---	---	---	76.06	---	73.85	74.93	---
MAX	---	72.80	71.36	72.14	76.04	---	---	76.09	76.60	76.38	75.03	75.16
WTR YR 1985 MEAN		73.61		HIGH 70.31	DEC 26	AND OTHERS		LOW 76.60	JUN 25			

## GROUND-WATER RECORDS

## MIAMI COUNTY

395848084085500. Local number, MI-3.

LOCATION.--Lat 39°58'48", long 84°08'55", Hydrologic Unit 05080001, 2.0 mi northeast of Tipp City.

Owner: Fulton Fruit Farms.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 5 in., depth 48 ft, cased.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 804.78 ft above National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District.) Measuring point: Floor of shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1966 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD---Maximum daily low, 15.61 ft below land-surface datum, Feb. 4, 1971; minimum daily low, 7.53 ft below land-surface datum, Feb. 25, 1975.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 10, 1984	11.71	May 1, 1985	10.52

## GROUND-WATER RECORDS

301

## MIAMI COUNTY--Continued

400208084112900. Local number, MI-44.

LOCATION.--Lat 40°02'08", long 84°11'29", Hydrologic Unit 05080001, on left bank of Great Miami River 0.7 mi east of city hall in Troy.

Owner: City of Troy.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled public supply water-table well, diameter 26 in, depth 105 ft, screened below 89 ft.

PERIOD OF RECORD.--August 1974 to current year.

## WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)
NOV 1984										
30...	11:00	720	7.5	2.0	12.0	36	340	40	81	33
MAR 1985										
28...	15:00	725	7.6	23.0	13.0	15	340	45	82	34
AUG 19...	11:00	735	7.5	24.5	13.0	< 10	340	50	81	33

DATE	ALKALINITY FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS-SOLVED (UG/L AS CR)
NOV 1984										
30...	298	62	31	0.9	439	<0.01	<0.10	1	20	<10
MAR 1985										
28...	300	72	27	0.8	392	0.03	<0.10	--	--	--
AUG 19...	288	62	28	0.8	440	<0.01	<0.10	1	10	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 1984									
30...	13	11	1400	14	9	42	10	9	2.3
MAR 1985									
28...	--	--	1400	--	--	45	--	--	1.9
AUG 19...	10	10	1200	7	<1	43	30	10	--

## GROUND-WATER RECORDS

## MONTGOMERY COUNTY

393757084173600. Local number, MT-928

LOCATION.--Lat 39°37'57", long 84°17'36", Hydrologic Unit 05080002, on right bank of Great Miami River 0.2 mi south of Linden Ave. bridge, Miamisburg  
 Owner: City of Miamisburg.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled municipal supply water table well, 20 in, depth 95 ft, screened below 70 ft.

PERIOD OF RECORD.--September 1983.

## WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)
NOV 1984										
30...	13:00	860	7.4	3.5	13.5	30	360	77	91	33
AUG 1985										
19...	12:15	920	7.2	29.0	15.5	10	380	68	94	35

DATE	ALKALINITY FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	ARSENIC DIS-SOLVED (UG/L AS AS)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS-SOLVED (UG/L AS CR)
NOV 1984										
30...	286	65	71	0.3	509	0.02	0.80	<1	20	<10
AUG 1985										
19...	311	61	72	0.3	509	<0.01	<0.10	1	10	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 1984									
30...	10	10	6	6	6	170	10	10	2.8
AUG 1985									
19...	10	10	6	2	<1	210	10	10	--



## 303

## MONTGOMERY COUNTY--Continued

3940120 84151700. Local number, MT-55.

LOCATION.--Lat 39°40'12", long 84°15'17", Hydrologic Unit 05080002, Elm Street in West Carrollton.

Owner: Oxford Paper Company.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 84 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 717.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 0.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 58.57 ft below land-surface datum, Nov. 24, 1974; minimum daily low, 26.16 ft below land-surface datum, Mar. 22, 23, 1982.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.72	33.79	32.65	30.45	31.22	27.95	27.83	29.21	30.02	32.28	33.44	31.93
2	33.78	33.76	32.52	30.19	31.23	27.93	27.51	29.19	30.08	32.22	33.48	31.87
3	33.85	33.73	32.52	30.04	31.24	27.93	27.27	28.85	30.30	32.03	33.39	32.50
4	33.91	33.54	32.53	29.80	31.39	27.97	27.25	28.66	30.42	32.04	33.21	32.69
5	33.95	33.34	32.52	29.71	31.46	28.04	27.35	28.37	30.55	32.08	33.27	32.84
6	33.97	33.33	32.50	29.66	31.58	28.05	27.37	28.55	30.70	32.07	33.20	32.88
7	33.91	33.28	32.49	29.70	31.69	27.99	27.29	28.64	30.85	32.04	33.34	32.94
8	34.01	33.25	32.47	29.78	31.77	28.01	27.37	28.75	30.91	32.13	33.30	33.06
9	34.03	33.18	32.37	29.83	31.81	28.00	27.49	28.84	30.99	32.23	33.24	33.28
10	34.03	33.14	32.37	29.87	31.82	27.96	27.60	29.00	31.04	32.37	33.23	33.34
11	34.03	32.98	32.37	29.93	31.74	27.89	27.72	29.03	31.15	32.50	33.25	33.41
12	34.03	32.91	32.28	29.97	31.67	27.91	27.81	29.09	31.16	32.59	33.49	33.40
13	34.03	32.91	32.19	29.97	31.68	27.81	27.82	29.28	31.17	32.60	33.70	33.37
14	33.91	32.92	32.14	30.04	31.67	27.67	27.72	29.43	31.29	32.54	33.85	33.36
15	33.99	32.92	32.02	30.19	31.63	27.73	27.89	29.49	31.28	32.74	33.92	33.01
16	34.07	32.93	31.78	30.05	31.61	27.75	27.95	29.49	31.15	32.78	33.92	33.17
17	34.11	32.85	31.57	30.16	31.59	27.76	27.98	29.49	31.23	32.97	33.75	33.34
18	34.12	32.80	31.48	30.20	31.56	27.90	28.03	29.43	30.53	33.18	33.61	33.43
19	34.19	32.85	31.42	30.36	31.59	27.94	28.21	29.43	30.60	33.27	33.69	33.60
20	34.20	32.98	31.40	30.48	31.58	28.07	28.24	29.67	30.77	33.41	33.79	33.70
21	33.99	33.00	31.39	30.73	31.58	28.14	28.19	29.81	30.91	33.39	33.85	33.78
22	34.09	32.98	31.33	30.78	31.54	28.20	28.40	29.89	30.69	33.44	33.94	33.87
23	34.18	32.87	31.27	30.84	31.42	28.21	28.52	29.94	30.64	33.49	34.01	33.94
24	34.20	32.81	31.11	30.88	30.98	28.24	28.64	29.93	30.77	33.54	34.01	34.12
25	34.20	32.78	31.06	30.93	30.09	28.38	28.74	29.85	31.00	33.61	33.86	34.10
26	34.22	32.85	31.03	31.00	29.21	28.49	28.84	29.87	31.02	33.62	33.83	33.90
27	34.22	32.90	31.00	30.98	28.55	28.61	28.86	29.88	32.05	33.62	33.88	34.06
28	34.01	32.88	30.99	31.03	28.19	28.71	28.86	29.92	32.23	33.52	33.90	34.06
29	33.97	32.82	30.92	31.05	---	28.78	29.00	29.96	32.27	33.47	33.02	33.38
30	33.90	32.72	30.89	31.09	---	28.72	29.12	30.03	32.27	33.39	32.60	33.56
31	33.83	---	30.77	31.14	---	28.28	---	29.96	---	33.47	32.24	---
MAX	34.22	33.79	32.65	31.14	31.82	28.78	29.12	30.03	32.27	33.62	34.01	34.12
WTR YR 1985	MEAN	31.39		HIGH	27.25	APR 4	LOW	34.22	OCT 26	AND OTHERS		

## MONTGOMERY COUNTY--Continued

LOCATION.--Lat 39°40'25", long 84°16'28", Hydrologic Unit 05080002, 1.2 mi west of city hall in West Carrollton.  
Owner: Metal Shredders, Inc.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 220 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 714.61 ft above National Geodetic Vertical Datum of 1929. (Levels by Miami Conservancy District.) Measuring point: Floor of shelter 2.50 ft above land-surface datum.

PERIOD OF RECORD.--November 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 36.30 ft below land-surface datum, Dec. 8, 1974; minimum daily low, 10.58 ft below land-surface datum, Jan. 23, 1959.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.48	22.88	22.22	20.51	20.79	18.10	18.14	19.33	19.69		---	21.46
2	22.55	22.89	22.15	20.38	20.86	18.21	18.07	19.03	19.51		---	21.45
3	22.33	22.64	22.44	20.20	20.89	18.22	18.12	18.66	19.78		---	21.75
4	22.62	22.47	22.24	20.13	20.89	18.47	18.13	18.38	19.84		---	21.82
5	22.67	22.55	22.18	20.19	20.85	18.59	18.20	18.31	19.72		---	21.85
6	22.46	22.63	22.16	20.19	20.94	18.59	17.99	18.49	---		---	21.85
7	22.40	22.62	22.15	20.18	20.98	18.64	17.95	18.67	---		---	21.90
8	22.66	22.62	22.13	20.25	21.00	18.65	18.22	18.78	---		---	21.69
9	22.73	22.60	22.13	20.27	21.00	18.44	18.31	18.81	---		---	21.91
10	22.77	22.36	22.37	20.22	21.00	18.32	18.32	18.94	---		---	21.99
11	22.71	22.25	22.33	20.27	20.98	18.53	18.45	18.70	---		---	22.03
12	22.78	22.50	22.25	20.28	20.92	18.45	18.51	18.73	---		---	22.06
13	22.57	22.51	22.26	20.26	20.93	18.35	18.27	19.04	---		---	22.10
14	22.52	22.49	22.09	20.32	20.92	18.42	18.22	19.13	---		---	22.10
15	22.80	22.49	21.79	20.37	20.92	18.51	18.56	19.15	---		21.77	21.89
16	22.87	22.58	21.55	20.38	20.90	18.30	18.66	19.12	---		21.64	22.11
17	22.95	22.35	21.79	20.35	20.96	18.30	18.71	19.17	---		21.62	22.15
18	22.92	22.24	21.86	20.38	20.96	18.59	18.73	19.21	---		21.41	22.18
19	22.98	22.57	21.86	20.46	20.96	18.66	18.81	19.00	---		21.66	22.27
20	22.79	22.62	21.89	20.53	20.93	18.79	18.59	19.23	---		21.71	22.31
21	22.69	22.66	21.75	20.53	20.90	18.82	18.58	19.27	---		21.76	22.33
22	22.96	22.44	21.53	20.56	20.81	18.85	18.88	19.29	---		21.81	22.11
23	23.00	22.60	21.34	20.55	20.22	18.64	18.95	19.34	---		21.83	22.32
24	23.03	22.41	21.28	20.56	19.50	18.66	18.97	19.37	---		21.76	22.42
25	23.04	22.34	21.29	20.67	18.70	19.01	19.07	19.19	---		21.50	22.43
26	23.05	22.60	21.44	20.68	18.20	19.03	19.15	19.17	---		21.73	22.50
27	22.83	22.63	21.49	20.64	18.07	19.07	18.94	19.19	---		21.78	22.46
28	22.73	22.56	21.41	20.69	18.05	19.10	18.95	19.45	---		21.79	22.53
29	22.85	22.32	21.25	20.72	---	19.18	19.25	19.53	---		21.77	22.29
30	22.85	22.40	21.22	20.72	---	18.88	19.32	19.56	---		21.76	22.52
31	22.89	---	20.79	20.76	---	18.36	---	19.59	---		21.53	---
MAX	23.05	22.89	22.44	20.76	21.00	19.18	19.32	19.59	---		---	22.53
WTR YR 1985	MEAN	20.74		HIGH	17.95	APR 7	LOW	23.05	OCT 26			

## 305

3944 250 84113 200. Local number, MT-3.

LOCATION.--Lat 39°44'25", long 84°11'32", Hydrologic Unit 05080002, Patterson Blvd. at Stewart St., in Dayton.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 80 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 744 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 1.20 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1945 to June 1974. Reactivated June 1980.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 79.45 ft below land-surface datum, Apr. 6, 1971; minimum daily low, 25.72 ft below land-surface datum, Mar. 21, 1982.

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.24	34.27	33.53	30.59	29.98	28.61	27.44	31.06	34.21	34.77	36.74	37.50
2	38.78	34.27	33.28	30.50	29.94	28.29	27.26	30.45	34.52	34.44	36.67	37.42
3	38.92	34.01	34.46	30.33	29.96	28.28	27.61	30.14	34.81	34.39	36.47	38.21
4	38.51	33.66	33.46	30.35	29.95	29.11	27.73	30.22	33.57	34.37	36.46	38.14
5	38.90	33.34	33.08	30.48	29.84	28.70	27.74	30.58	34.06	34.48	36.39	37.84
6	38.46	33.34	33.02	30.48	29.94	28.61	27.76	30.98	34.46	33.90	36.46	37.88
7	37.68	33.35	34.00	30.51	29.97	28.50	27.75	31.14	33.53	34.08	36.52	38.05
8	37.30	33.34	33.15	30.60	29.96	29.23	27.73	31.62	33.58	35.22	36.69	38.05
9	37.21	33.34	32.92	30.60	29.91	28.74	27.79	32.18	33.70	35.64	36.69	37.92
10	37.13	33.27	32.82	30.56	29.81	28.52	27.79	30.90	34.41	35.91	36.66	37.92
11	36.99	33.21	32.77	30.55	30.65	28.42	27.88	31.11	34.13	36.07	36.67	38.46
12	37.56	33.09	32.51	30.55	31.22	28.29	27.91	31.28	34.27	36.20	36.67	37.90
13	37.89	33.01	32.47	30.48	31.51	28.91	27.91	31.35	34.13	36.33	37.49	37.85
14	38.10	32.92	33.57	30.51	31.65	28.42	27.89	32.41	34.60	36.61	37.85	37.89
15	38.44	32.97	32.27	30.58	31.65	28.34	27.95	32.51	33.56	36.94	38.09	37.91
16	38.65	33.01	31.64	30.56	30.55	28.26	29.20	31.82	33.69	37.00	37.86	37.89
17	38.83	33.01	31.68	30.37	30.30	28.25	29.38	31.61	34.47	36.98	37.24	37.65
18	38.83	32.91	31.72	30.36	30.22	28.33	29.62	31.56	33.99	36.72	37.19	37.45
19	38.83	34.36	31.68	30.43	30.15	28.30	30.18	31.58	33.83	37.00	37.09	37.44
20	38.84	34.96	31.69	30.43	30.12	28.42	30.40	31.69	33.83	36.54	37.08	37.45
21	38.76	35.36	31.60	30.36	30.04	28.42	30.55	31.75	33.80	36.12	37.10	37.62
22	38.73	34.65	31.55	30.30	30.32	28.31	30.78	31.60	33.90	35.98	37.13	37.72
23	37.75	33.73	31.35	30.19	29.64	28.24	30.80	32.60	33.97	35.96	37.13	38.66
24	36.84	33.50	31.34	30.09	28.58	28.30	30.65	31.90	34.22	35.91	37.16	38.15
25	36.27	33.35	31.40	30.16	27.78	28.44	30.66	31.97	34.24	35.93	37.14	37.70
26	35.80	34.74	31.33	30.17	27.34	28.44	30.61	32.06	35.17	35.99	37.17	37.51
27	35.50	35.34	32.51	29.99	27.52	28.39	30.55	32.20	35.26	35.99	37.24	37.60
28	35.17	35.57	32.51	30.10	27.61	28.49	30.80	32.47	34.89	35.97	37.30	37.86
29	34.80	35.57	31.52	30.12	---	28.56	31.01	32.50	34.55	37.12	37.33	37.91
30	34.29	34.37	31.50	30.04	---	28.39	31.08	32.99	34.56	37.50	37.49	38.73
31	34.24	---	30.82	29.99	---	27.83	---	33.85	---	37.55	37.52	

## GROUND-WATER RECORDS

## MONTGOMERY COUNTY--Continued

394533084113800. Local number, MT-6.

LOCATION.--Lat 39°45'33", long 84°11'38", Hydrologic Unit 05080002, 3rd and Ludlow Sts., Dayton.

Owner: City of Dayton

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 60 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 740 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 13.00 ft below land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.20 ft below land-surface datum, Oct. 2, 1970; minimum daily low, 21.23 ft below land-surface datum, Feb. 26, 1982.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.18	32.26	29.00	27.03	25.92	24.63	25.27	27.87	29.52	31.84	34.12	33.90
2	32.15	32.08	28.52	27.07	25.58	24.29	25.10	27.82	29.00	32.11	34.18	33.70
3	32.25	31.68	28.32	26.58	25.41	24.16	25.14	27.67	29.99	32.51	33.44	34.36
4	32.35	31.27	28.65	26.44	25.74	24.77	24.87	27.26	30.01	31.60	32.98	34.65
5	32.97	31.09	28.71	26.23	25.88	25.00	25.37	26.83	30.35	32.01	33.40	35.06
6	32.38	30.92	28.85	26.01	26.02	25.05	25.19	27.67	30.38	31.68	34.01	35.19
7	32.13	30.64	28.84	26.45	26.12	25.07	24.93	27.87	30.40	31.30	33.84	34.72
8	32.32	30.64	28.64	26.69	26.01	25.25	24.83	28.08	29.94	32.12	34.34	34.67
9	32.94	30.59	28.59	26.76	25.63	24.93	24.84	28.63	29.58	32.65	34.39	34.82
10	33.23	30.36	28.81	26.76	25.36	24.68	24.75	28.84	30.59	32.84	33.72	35.00
11	33.34	30.08	28.83	26.79	25.63	24.99	24.93	28.95	30.76	32.97	33.60	35.31
12	32.86	29.90	28.83	26.55	25.73	25.10	25.11	27.92	29.84	33.04	34.03	35.04
13	32.60	29.84	28.85	26.32	25.75	25.04	25.17	28.61	29.52	32.30	34.27	34.62
14	32.30	29.87	28.96	26.68	25.76	25.11	24.92	29.29	29.59	32.05	34.49	34.45
15	32.87	29.94	28.83	26.88	25.68	25.19	25.81	29.37	29.33	32.82	34.65	33.97
16	33.18	29.97	28.57	26.87	25.32	24.85	26.37	29.72	29.00	32.96	34.89	33.75
17	33.29	29.76	28.66	26.88	25.12	24.57	25.92	28.91	30.04	33.12	34.56	34.34
18	33.53	29.59	28.58	26.71	25.48	25.04	26.77	28.46	30.38	33.47	33.72	34.60
19	33.46	29.72	28.47	26.51	25.96	25.19	27.30	28.10	30.56	33.40	34.37	34.75
20	32.98	29.69	28.43	26.12	26.19	25.41	27.57	29.02	30.83	32.77	34.35	34.99
21	32.58	29.71	28.31	26.17	26.31	25.39	26.52	28.86	30.97	32.39	34.59	34.55
22	32.42	29.50	28.21	26.28	26.40	25.28	27.42	28.35	30.46	33.27	34.70	34.25
23	32.25	29.53	27.87	26.15	26.12	24.97	28.02	28.91	30.12	33.44	34.58	34.53
24	32.12	29.39	27.77	26.16	25.74	24.79	28.14	28.70	30.97	33.61	34.25	34.08
25	32.09	29.22	27.63	26.05	25.32	25.39	28.01	28.73	31.48	33.90	33.61	34.03
26	32.25	29.41	27.68	25.88	25.00	25.54	28.30	28.37	31.71	33.92	34.25	34.18
27	32.16	29.50	27.71	25.60	24.78	25.74	27.76	28.03	31.88	33.32	34.44	33.94
28	31.92	29.53	27.82	25.92	24.63	25.98	27.40	28.59	32.23	32.66	34.60	33.57
29	32.08	29.50	27.80	26.00	---	26.07	27.55	29.48	31.84	33.39	34.84	33.25
30	32.16	29.38	27.58	26.00	---	25.89	28.27	29.71	31.12	33.71	34.52	33.39
31	32.17	---	27.38	26.11	---	25.39	---	29.89	---	33.92	34.64	---
MAX	33.53	32.26	29.00	27.07	26.40	26.07	28.30	29.89	32.23	33.92	34.89	35.31
WTR YR 1985 MEAN	29.60			HIGH	24.16	MAR 3	LOW	35.31	SEP 11			



## 307

## 307

3958040 81593 200. Local number, MU-1A.

LOCATION.--Lat 39°58'04", long 81°59'32", Hydrologic Unit 05040004, 2.2 mi northeast of the "Y" bridge in Zanesville.

Owner: Zanesville Water Department.

**AQUIFER.**--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 109 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 700 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 4.48 ft above land-surface datum.

REMARKS.--Water level affected by nearby municipal wells and by stage of the Muskingum River. Prior to water year 1978, well depth reported as 132 ft.

PERIOD OF RECORD.--May 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.25 ft below land-surface datum, Aug. 1-2, 1954; minimum daily low, 8.50 ft below land-surface datum, May 25, 1967.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.08	25.44	22.51	24.19	23.28	21.06	20.77	21.68	---	22.80	23.74	24.82
2	24.09	25.11	22.12	23.62	23.40	21.20	20.63	22.30	---	23.10	23.81	24.73
3	23.99	25.39	21.99	23.77	23.26	21.20	19.96	22.30	21.04	23.14	24.09	24.55
4	---	25.43	22.23	23.74	23.18	20.74	20.31	21.24	21.15	23.45	24.04	24.54
5	---	25.63	22.22	23.74	23.32	20.34	19.75	21.03	21.33	23.41	24.38	24.80
6	---	25.56	22.09	23.96	23.49	20.14	19.46	20.35	21.68	23.59	24.25	24.82
7	---	25.16	21.94	23.52	23.56	19.83	19.04	20.75	21.60	23.59	24.18	24.90
8	---	25.48	21.87	23.29	23.68	20.12	17.96	20.82	21.26	23.62	24.02	24.87
9	---	25.49	21.87	23.34	23.62	19.73	---	21.37	21.06	23.64	24.39	24.77
10	---	---	21.76	23.70	23.45	18.92	---	21.36	20.71	23.59	24.41	24.74
11	---	---	22.09	23.73	23.59	19.38	---	21.78	20.97	23.53	24.16	24.81
12	---	---	22.10	23.75	23.72	19.91	---	21.53	21.18	23.69	24.21	25.20
13	---	---	22.37	23.53	23.77	19.94	19.66	21.02	21.76	23.81	24.50	25.45
14	---	---	22.50	22.98	24.04	20.20	19.99	20.98	22.29	23.88	24.53	25.53
15	---	---	22.50	23.48	24.14	19.93	19.32	21.75	22.41	23.89	24.78	25.33
16	25.15	---	22.29	23.99	24.04	19.52	19.24	22.15	22.36	23.93	24.79	24.90
17	25.58	---	21.83	24.00	23.32	19.53	19.49	22.28	22.27	23.77	24.62	24.77
18	25.58	---	21.87	24.07	23.05	19.50	20.29	22.47	22.14	23.72	24.46	25.07
19	25.53	---	21.89	24.35	23.15	19.61	20.79	22.04	21.73	24.05	23.79	25.40
20	26.00	---	22.23	24.50	23.18	19.48	21.18	20.94	21.60	24.10	24.18	25.55
21	26.03	---	22.93	24.17	23.25	20.62	20.76	21.55	22.30	23.79	24.20	25.55
22	26.01	---	23.26	23.90	23.42	21.13	21.35	21.50	22.47	23.62	24.40	25.54
23	26.03	---	23.71	23.96	23.60	20.84	21.35	21.88	22.86	23.64	24.45	25.48
24	25.91	---	23.25	23.81	23.38	20.15	21.23	21.60	22.51	23.52	24.29	25.40
25	26.24	---	23.22	23.55	23.32	21.13	21.50	21.43	22.46	23.58	23.66	25.37
26	26.33	---	23.01	23.61	23.05	20.92	21.39	21.55	22.58	23.47	23.58	25.27
27	26.09	---	23.01	23.33	22.32	20.92	21.57	---	22.58	23.26	24.04	25.14
28	25.64	---	23.63	23.12	21.86	21.03	21.49	---	22.64	22.93	24.11	25.29
29	25.28	22.66	23.90	23.10	---	21.78	21.99	---	22.71	22.86	24.55	25.27
30	25.28	22.65	24.26	23.20	---	22.30	21.68	---	22.73	23.52	24.62	25.06
31	25.29	---	24.36	23.40	---	21.97	---	---	---	23.79	24.55	---
MAX	---	---	24.36	24.50	24.14	22.30	---	---	---	24.10	24.79	25.55
WTR YR 1985	MEAN	22.98		HIGH	17.96	APR 8	LOW	26.33	OCT 26			

## GROUND-WATER RECORDS

## PICKAWAY COUNTY

393327082571600. Local number, PK-7.

LOCATION.--Lat 39°33'27", long 82°57'16", Hydrologic Unit 05060002, 3.1 mi south of Circleville.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth drilled 172 ft, present depth 169 ft, cased to 164 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 705 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1972 to September 1982 continuous, October 1982 to April 1985 periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.80 ft below land-surface datum, Sept. 15, 1977; minimum daily low, 38.32 ft below land-surface datum, Dec. 25, 1979.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---		---		---	---	44.43	---	44.24	45.12
2	---		---		---		---	---	44.34	---	44.33	45.07
3	---		---		---		---	45.45	44.26	---	44.33	44.84
4	---		---		---		---	45.41	44.39	---	44.17	45.08
5	---		---		---		---	45.08	44.41	---	44.15	45.17
6	---		---		---		---	44.90	44.43	---	44.29	45.23
7	---		---		---		---	45.00	44.43	---	44.35	45.24
8	---		---		---		---	45.09	44.33	---	44.38	45.14
9	---		---		---		---	45.17	44.16	---	44.38	45.17
10	---		---		---		---	45.17	44.13	---	44.37	45.49
11	---		---		---		---	45.15	44.15	---	44.14	45.54
12	---		---		---		---	44.90	44.10	44.45	44.34	45.57
13	---		---		---		---	44.86	50.15	44.45	44.56	45.62
14	---		---		---		---	45.04	44.36	44.39	44.63	45.62
15	---		---		---		---	45.05	44.16	44.20	44.65	45.28
16	---		---		---		---	45.09	43.98	44.34	44.64	45.26
17	---		---		---		---	45.08	43.89	44.42	44.64	45.54
18	---		---		---		---	45.08	43.99	44.43	44.56	45.73
19	---		---		---		---	44.80	44.11	44.48	44.74	45.76
20	---		---		---		---	44.61	44.11	44.48	44.88	45.71
21	---		---		---		---	44.77	44.11	44.34	44.88	45.71
22	---		---		---		---	44.86	44.11	44.18	44.88	45.52
23	---		---		---		---	44.85	44.00	44.25	44.88	45.63
24	---		---		---		---	44.85	43.87	44.39	44.87	45.73
25	45.27		---		---		---	44.83	43.90	44.42	44.55	45.73
26	---		---		---		---	44.55	43.91	44.44	44.83	45.73
27	---		---		46.40		---	44.25	43.94	44.34	45.02	45.73
28	---		---		---		---	44.15	43.93	44.05	45.10	45.69
29	---		---		---		44.82	44.43	---	44.07	45.07	45.12
30	45.12		---		---		---	44.46	---	44.15	45.03	45.20
31	---		45.03		---		---	44.46	---	44.19	45.11	---
MAX	---		---		---		---	---	---	---	45.11	45.76
WTR YR 1985	MEAN	44.77		HIGH	43.87	JUN 24	LOW	50.15	JUN 13			

## 309

3934020 8257 2500. Local number, Pk-4.

LOCATION.--Lat 39°34'02", long 82°57'25", Hydrologic Unit 05060002, 2 mi south of Circleville.

Owner: E.I. DuPont DeNemours.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 136 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 707 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 80.15 ft below land-surface datum, Nov. 3, 1972; minimum daily low, 47.40 ft below land-surface datum, Feb. 25, 1960.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.75	67.85	65.75	67.50	66.85	68.80	67.30	69.80	69.80	68.35	68.35	69.45
2	67.10	68.05	65.60	67.55	66.65	68.45	67.45	69.25	68.00	68.20	68.40	69.50
3	---	67.90	65.75	67.40	66.45	68.25	71.60	69.00	70.80	68.40	68.30	69.60
4	67.05	67.90	65.55	67.20	---	68.45	71.25	68.75	69.10	68.25	68.35	69.65
5	67.35	68.10	65.20	67.15	---	68.90	66.55	68.75	67.85	68.20	68.35	69.75
6	67.15	68.15	65.60	66.30	---	69.10	66.65	68.75	67.80	68.40	68.60	69.85
7	67.05	68.25	---	65.95	---	68.90	66.55	69.25	67.60	67.95	68.60	69.95
8	67.40	68.30	---	66.65	---	68.75	66.80	68.95	66.80	68.25	68.55	69.85
9	67.60	67.95	---	66.50	---	68.45	69.15	64.35	67.10	68.70	68.60	70.00
10	70.15	68.00	---	66.35	---	68.25	69.25	64.20	67.30	69.40	68.15	70.15
11	---	67.80	---	66.60	---	68.45	67.10	64.25	68.10	69.35	68.15	70.15
12	---	67.85	---	66.50	---	71.20	67.30	64.35	68.10	69.30	69.45	70.05
13	---	65.90	---	65.95	---	68.45	66.65	64.35	68.15	69.00	69.95	70.05
14	---	68.00	---	65.95	---	68.45	66.75	65.05	68.15	68.55	69.40	69.45
15	---	67.85	---	---	---	68.35	67.75	64.35	67.75	68.55	69.10	69.40
16	---	68.25	---	---	---	67.55	67.15	67.75	67.95	68.25	68.90	69.95
17	---	67.75	---	---	---	67.60	67.20	68.15	67.85	69.00	68.80	70.15
18	---	65.40	---	---	---	68.10	67.00	68.20	68.00	68.55	68.80	70.30
19	---	65.90	---	---	---	69.20	68.15	68.30	67.95	68.70	69.15	70.05
20	---	65.80	---	---	---	66.60	67.60	68.20	68.00	68.20	68.75	69.90
21	---	65.90	---	---	---	66.55	67.15	68.00	68.15	68.15	68.70	69.90
22	---	65.45	---	---	---	66.80	68.25	67.95	68.15	68.70	68.95	69.95
23	---	65.45	---	---	---	66.65	71.40	68.30	68.15	68.70	68.90	70.15
24	---	65.55	---	---	---	66.75	69.65	68.25	68.40	68.45	68.55	70.20
25	67.90	65.50	---	---	---	67.55	69.65	68.20	68.40	68.55	68.65	69.80
26	68.15	65.75	---	---	---	67.50	69.45	68.20	68.50	68.15	68.90	69.95
27	67.85	65.55	---	---	69.20	67.05	69.45	68.40	68.65	68.05	69.25	69.80
28	67.80	65.65	---	---	69.20	67.10	69.05	68.45	68.30	67.90	69.25	70.00
29	68.05	65.80	---	---	---	67.45	69.15	68.20	68.10	68.85	69.05	69.90
30	68.15	65.75	67.40	---	---	66.90	69.10	67.75	68.25	68.50	69.10	70.25
31	68.25	---	67.05	66.85	---	66.60	---	68.10	---	68.50	69.30	---
MAX	---	68.30	---	---	---	71.20	71.60	69.80	70.80	69.40	69.95	70.30
WTR YR 1985	MEAN	68.08		HIGH	64.20	MAY 10	LOW	71.60	APR 3			

## GROUND-WATER RECORDS

## PICKAWAY COUNTY--Continued

3936380 82572300. Local number, PK-6.

LOCATION.--Lat 39°36'38", long 82°57'23", Hydrologic Unit 05060002, Water Works Plant 1 mi northwest of Circleville.

Owner: Circleville Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 120 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 672 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.32 ft below land-surface datum, Feb. 24, 1977; minimum daily low, 14.50 ft below land-surface datum, Feb. 2, 1969.

## WATER LEVEL (FEET)

WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	34.65	32.00	29.60	30.35	24.20	22.20	26.35	28.30	30.35	32.40	---
2	34.60	34.50	33.35	28.40	30.40	23.60	22.30	25.70	28.30	29.90	32.25	---
3	35.00	34.45	33.45	31.25	---	23.85	22.35	24.15	28.35	29.85	32.45	---
4	35.10	34.30	32.65	31.55	---	24.10	25.65	23.85	28.30	29.65	32.45	---
5	35.05	34.45	33.35	28.45	---	24.60	26.00	23.85	28.35	29.85	32.35	---
6	35.10	34.10	32.25	29.45	---	26.65	26.00	24.65	28.25	29.70	32.60	---
7	34.80	30.55	31.25	28.70	---	25.05	26.10	24.35	28.35	29.75	32.80	---
8	34.90	33.10	33.30	31.90	---	27.00	26.10	25.60	28.40	29.60	32.95	---
9	35.00	33.65	33.35	---	---	26.00	25.05	24.55	28.65	29.95	33.10	---
10	35.05	33.75	32.55	---	---	25.20	24.05	24.60	28.65	30.20	33.20	---
11	35.00	33.80	30.40	---	---	25.80	24.00	24.60	28.45	30.30	33.25	---
12	33.95	33.60	31.20	---	---	25.80	26.40	24.65	28.20	30.20	33.30	---
13	34.95	33.80	31.50	29.40	---	25.40	26.75	25.10	28.20	30.10	33.45	---
14	35.05	33.20	33.10	33.00	---	26.80	26.85	25.30	28.05	29.90	33.45	---
15	35.00	33.55	32.75	33.00	---	25.80	26.95	25.85	28.10	29.85	33.50	---
16	34.64	33.65	29.95	33.00	---	26.90	27.00	24.65	28.20	29.25	31.00	---
17	35.05	33.45	31.25	32.80	---	26.80	27.00	24.55	29.15	---	30.15	---
18	35.00	31.80	31.80	32.85	---	26.65	26.20	24.35	28.00	---	30.15	---
19	34.25	32.15	32.30	32.90	---	26.35	26.95	26.70	28.25	---	30.15	---
20	34.95	30.15	32.35	29.70	---	24.90	25.45	27.45	28.35	---	30.65	---
21	35.10	33.75	29.75	29.70	---	26.55	26.25	27.45	28.45	---	30.60	---
22	35.00	33.90	29.75	29.85	---	24.75	25.10	27.75	28.50	---	30.40	---
23	34.75	33.80	29.90	---	---	24.75	27.10	27.65	28.55	---	30.10	---
24	34.95	33.40	30.70	---	---	24.35	25.80	27.60	28.55	---	30.10	---
25	34.80	34.15	29.45	---	---	24.65	25.45	27.75	28.45	---	29.90	---
26	34.85	33.75	30.00	---	---	24.85	25.05	27.50	29.45	---	29.90	---
27	34.75	33.90	30.00	---	25.10	24.75	25.10	27.90	29.80	---	29.85	---
28	34.85	33.85	29.60	33.00	25.60	27.35	25.15	27.95	30.15	---	29.85	---
29	34.80	30.00	32.50	---	---	26.75	25.25	28.55	30.30	---	29.90	---
30	32.75	34.35	31.55	---	---	24.75	25.50	28.30	30.40	29.15	29.95	30.35
31	34.60	---	31.45	30.25	---	23.80	---	28.15	---	29.40	29.95	---
MAX	---	34.65	33.45	---	---	27.35	27.10	28.55	30.40	---	33.50	---

WTR YR 1985 MEAN 29.68 HIGH 22.20 APR 1 LOW 35.10 OCT 4 AND OTHERS



## 311

## PICKAWAY COUNTY--Continued

39343 80 8307 2200. Local number, Pk-8.

LOCATION.--Lat 39°34'38", long 83°07'22", Hydrologic Unit 05060002, 0.5 mi south of Williamsport.

Owner: Village of Williamsport.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 10 in., depth 18 ft, cased.

INSTRUMENTATION.--Type F continuous recorder,

DATUM.--Elevation of land-surface datum is 723 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 0.9 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1980 to current year

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 10.86 ft below land-surface datum, Oct. 6, 1985; minimum recorded daily low, 0.08 ft above land-surface datum, Mar. 29, 1984.

WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.85	8.76	5.66	2.56	5.15	2.15	.05	4.89	5.24	7.04	7.92	9.12
2	8.79	8.76	5.66	2.63	5.20	2.05	.37	4.75	5.29	7.05	8.01	9.01
3	9.13	8.26	5.72	2.53	5.27	2.10	---	3.02	5.34	6.94	8.09	9.25
4	10.05	8.10	5.89	2.66	5.28	1.80	---	2.35	5.40	---	8.15	9.34
5	10.78	8.00	5.92	2.98	5.31	1.53	---	2.28	5.33	---	8.24	9.24
6	10.86	7.80	5.87	3.05	5.36	1.66	---	2.56	5.42	---	8.24	9.37
7	10.37	7.59	5.87	3.26	5.47	1.90	---	2.80	5.50	---	8.25	9.40
8	9.75	7.38	5.90	3.46	5.55	2.07	---	3.25	5.49	---	8.35	---
9	9.44	7.13	5.91	3.54	5.65	2.30	---	3.51	5.53	---	8.49	---
10	9.33	6.74	5.91	3.55	5.70	2.47	---	3.69	5.70	---	8.47	---
11	9.23	6.41	5.60	3.60	5.70	2.48	---	4.02	5.79	---	8.60	---
12	9.24	6.29	5.11	3.76	5.63	1.82	---	4.12	5.80	7.42	8.76	---
13	9.07	6.44	4.80	3.83	5.54	1.32	---	4.13	5.65	7.51	8.83	---
14	8.97	6.27	4.63	3.86	5.56	1.38	---	4.37	5.64	7.52	8.85	---
15	9.00	6.14	4.08	3.97	5.57	1.74	---	4.37	6.12	7.59	8.90	---
16	8.89	5.97	3.70	4.03	5.77	2.04	---	4.04	6.05	7.51	8.83	---
17	8.87	5.93	3.67	4.10	5.77	2.40	---	3.80	5.98	7.52	8.83	---
18	8.85	5.82	3.79	4.15	5.79	2.66	---	3.49	6.00	7.30	8.99	---
19	8.86	5.83	3.78	4.35	5.76	2.73	---	3.43	6.21	7.05	9.05	---
20	8.84	5.77	3.81	4.87	5.69	2.98	---	3.31	6.22	7.09	9.06	---
21	8.93	5.67	3.81	5.00	5.56	3.17	---	3.40	6.08	7.10	9.13	---
22	8.94	5.70	3.00	5.11	5.29	3.24	---	3.57	6.37	7.25	9.14	---
23	8.94	5.69	2.78	5.00	2.97	3.35	---	3.63	6.38	7.39	9.21	---
24	8.93	5.69	2.99	4.93	1.50	3.51	---	3.78	6.38	7.47	9.23	---
25	8.95	5.75	3.00	4.97	1.44	3.65	---	4.04	6.47	7.47	9.28	---
26	8.79	5.79	3.12	5.00	1.70	3.70	---	4.24	6.54	7.49	9.31	---
27	8.88	5.78	3.12	5.02	2.23	3.70	---	4.50	6.60	7.49	9.24	---
28	8.81	5.69	3.23	5.03	2.23	3.75	---	4.58	6.71	7.53	9.23	---
29	8.81	5.64	3.42	5.05	---	3.85	4.82	4.68	6.80	7.82	9.25	---
30	8.81	5.58	3.38	5.08	---	3.72	4.86	5.03	7.02	7.93	9.22	10.61
31	8.72	---	2.80	5.15	---	.45	---	5.15	---	8.04	9.08	---
MAX	10.86	8.76	5.92	5.15	5.79	3.85	---	5.15	7.02	---	9.31	---
WTR YR 1985	MEAN	5.76		HIGH	.05	APR 1	LOW	10.86	OCT 6			

WTR YR 1985	MEAN	5.76	HIGH	.05	APR 1	LOW	10.86	OCT 6
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## PIKE COUNTY

LOCATION.--Lat 39°03'59", long 83°01'51", Hydrologic Unit 05060002, 1 mi west of Piketon.

Owner: Goodyear Atomic Corporation.

**AQUIFER.**--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 60 ft, cased.

**INSTRUMENTATION.**--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 550 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 27.46 ft below land-surface datum, Feb. 15, 1977; minimum daily low, 10.06 ft below land-surface datum, Mar. 1, 1979.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.94	26.15	25.48	24.27	24.76	21.84	21.73	21.93	22.50	23.98	24.56	25.58
2	25.96	26.15	25.48	24.25	24.81	21.35	21.36	21.99	22.58	24.04	24.61	25.60
3	25.97	26.15	25.47	24.21	24.86	21.01	20.74	22.12	22.66	24.08	24.65	25.62
4	25.98	26.13	25.48	24.12	24.89	20.69	20.27	22.13	22.72	24.13	24.69	25.65
5	26.00	26.12	25.48	24.03	24.92	20.47	19.93	22.13	22.79	24.19	24.73	25.67
6	26.01	26.10	25.48	23.95	24.96	20.41	19.73	22.06	22.87	24.25	24.76	25.69
7	26.02	26.08	25.48	23.85	24.99	20.34	19.68	21.96	22.93	24.29	24.79	25.71
8	26.03	26.05	25.49	23.78	25.04	20.33	19.64	21.88	23.01	24.29	24.83	25.74
9	26.04	26.03	25.51	23.76	25.07	20.40	19.65	21.80	23.09	24.28	24.87	25.76
10	26.06	25.98	25.51	23.74	25.10	20.46	19.66	21.76	23.17	24.29	24.91	25.78
11	26.07	25.93	25.50	23.76	25.13	20.48	19.71	21.77	23.23	24.31	24.95	25.81
12	26.07	25.89	25.50	23.78	25.15	20.62	19.78	21.83	23.30	24.33	24.99	25.83
13	26.08	25.84	25.49	23.79	25.19	20.63	19.82	21.89	23.37	24.35	25.04	25.86
14	26.09	25.78	25.47	23.87	25.21	20.63	19.89	21.96	23.41	24.38	25.07	25.88
15	26.09	25.72	25.43	23.93	25.23	20.61	19.99	21.99	23.42	24.43	25.11	25.89
16	26.10	25.65	25.37	23.96	25.23	20.58	20.13	21.99	23.42	24.46	25.16	25.92
17	26.11	25.60	25.33	24.00	25.25	20.58	20.24	21.99	23.42	24.47	25.19	25.94
18	26.12	25.53	25.26	24.05	25.25	20.64	20.36	22.02	23.42	24.45	25.22	25.96
19	26.13	25.48	25.19	24.10	25.25	20.69	20.47	22.02	23.43	24.40	25.25	25.98
20	26.13	25.45	25.12	24.17	25.25	20.79	20.59	21.99	23.46	24.35	25.28	26.00
21	26.14	25.42	25.05	24.22	25.25	20.86	20.72	21.95	23.49	24.32	25.31	26.02
22	26.14	25.41	24.90	24.28	25.24	20.95	20.85	21.94	23.53	24.28	25.34	26.05
23	26.15	25.39	24.85	24.33	25.06	21.07	20.97	21.91	23.57	24.29	25.37	26.06
24	26.16	25.38	24.77	24.37	24.93	21.20	21.10	21.95	23.61	24.31	25.41	26.08
25	26.16	25.37	24.69	24.45	24.68	21.35	21.23	21.99	23.66	24.33	25.45	26.11
26	26.16	25.39	24.60	24.48	24.06	21.46	21.34	22.02	23.70	24.38	25.48	26.13
27	26.16	25.40	24.49	24.53	23.25	21.57	21.46	22.07	23.76	24.41	25.50	26.15
28	26.15	25.42	24.42	24.58	22.50	21.68	21.59	22.13	23.81	24.44	25.52	26.17
29	26.15	25.44	24.35	24.63	---	21.80	21.70	22.31	23.88	24.47	25.52	26.18
30	26.15	25.46	24.32	24.67	---	21.84	21.80	22.37	23.94	24.49	25.54	26.19
31	26.16	---	24.30	24.71	---	21.73	---	22.43	---	24.53	25.56	---
MAX	26.16	26.15	25.51	24.71	25.25	21.84	21.80	22.43	23.94	24.53	25.56	26.19
WTR YR 1985	MEAN	24.00		HIGH	19.64	APR 8	LOW	26.19	SEP 30			

## GROUND-WATER RECORDS

313

## PORTAGE COUNTY--Continued

411401081025000. Local number, PO-1.

LOCATION.--Lat 41°14'01", long 81°02'50" Hydrologic Unit 05030103. Bauer Street in Windham.

Owner: Edward Liddle.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 55 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 980 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 0.60 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORDED.--May 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 23.08 ft below land-surface datum, Feb. 22, 1954; minimum daily low, 14.59 ft below land-surface datum, June 24, 1947.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.43	21.63	21.50	21.31	21.37	21.23	20.52	20.31	20.47	20.58	20.93	21.24
2	21.43	21.67	21.50	21.31	21.40	21.29	20.52	20.32	20.47	20.58	20.95	21.25
3	21.43	21.66	21.49	21.31	21.43	21.29	20.49	20.33	20.51	20.60	20.96	21.25
4	21.45	21.60	21.50	21.24	---	21.24	20.49	20.32	20.51	20.60	20.97	21.24
5	21.48	21.56	21.49	21.29	---	21.26	20.43	20.29	20.51	20.60	20.98	21.26
6	21.49	21.59	21.46	21.27	---	21.28	20.50	20.32	20.52	20.59	20.99	21.30
7	21.48	21.62	21.47	21.21	---	21.24	20.50	20.33	20.52	20.61	21.00	21.32
8	21.44	21.61	21.49	21.29	---	21.14	20.47	20.35	20.47	20.61	21.03	21.33
9	21.45	21.56	21.49	21.29	---	21.15	20.46	20.35	20.50	20.62	21.04	21.32
10	21.46	21.49	21.48	21.28	---	21.14	20.45	20.33	20.53	20.64	21.04	21.35
11	21.48	21.51	21.48	21.25	---	21.12	20.39	20.34	20.53	20.66	21.08	21.39
12	21.49	21.51	21.39	21.26	---	21.04	20.39	20.34	20.49	20.68	21.09	21.40
13	21.49	21.52	21.42	21.23	---	21.04	20.38	20.36	20.48	20.69	21.10	21.43
14	21.49	21.51	21.40	21.23	---	20.99	20.35	20.35	20.48	20.67	21.11	21.44
15	21.52	21.45	21.38	21.29	---	21.02	20.31	20.33	20.48	20.65	21.10	21.43
16	21.55	21.48	21.36	21.29	---	21.00	20.36	20.29	20.47	20.70	21.09	21.42
17	21.56	21.48	21.35	21.19	---	20.94	20.37	20.28	20.47	20.70	21.09	21.44
18	21.57	21.45	21.37	21.19	---	20.97	20.32	20.32	20.44	20.70	21.08	21.46
19	21.58	21.48	21.33	21.25	---	20.96	20.29	20.34	20.46	20.71	21.13	21.49
20	21.60	21.50	21.36	---	---	20.97	20.31	20.38	20.48	20.74	21.16	21.48
21	21.60	21.51	21.36	---	---	20.97	20.30	20.39	20.48	20.74	21.18	21.49
22	21.60	21.51	21.38	---	---	20.93	20.29	20.40	20.47	20.76	21.20	21.49
23	21.60	21.45	21.38	---	---	20.90	20.27	20.38	---	20.79	21.20	21.50
24	21.61	21.46	21.33	---	---	20.91	20.26	20.39	---	20.79	21.20	21.53
25	21.61	21.47	21.42	---	---	20.96	20.28	20.40	---	20.79	21.22	21.55
26	21.61	21.48	21.40	---	---	20.95	20.27	20.42	---	20.80	21.25	21.53
27	21.61	21.47	21.34	---	---	20.88	20.28	20.44	---	20.84	21.27	21.59
28	21.62	21.46	21.33	---	21.24	20.83	20.26	20.43	---	20.85	21.27	21.62
29	21.62	21.46	21.31	---	---	20.68	20.30	20.44	---	20.85	21.27	21.61
30	21.64	21.43	21.30	21.33	---	20.68	20.30	20.43	---	20.88	21.26	21.59
31	21.65	---	21.28	21.35	---	20.65	---	20.42	---	20.89	21.22	---
MAX	21.65	21.67	21.50	---	---	21.29	20.52	20.44	---	20.89	21.27	21.62
WTR YR 1985 MEAN	21.03			HIGH	20.26	APR 24 AND OTHERS		LOW	21.67	NOV 2		

## GROUND-WATER RECORDS

## PREBLE COUNTY

3944380 84335900. Local number, PR-2.

LOCATION.--Lat 39°44'38", long 84°33'59", Hydrologic Unit 05080002, Stover Rd 4 mi east of Eaton.

Owner: Eaton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 78.5 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 900 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 1.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 15.28 ft below land-surface datum, Aug. 26, 1983; minimum daily low, 7.94 ft below land-surface datum, May 4, 1975.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.45	13.27	12.65	11.39	11.16	10.17	9.94	10.54	11.30	12.53	12.16	12.31
2	13.47	13.41	12.37	11.26	11.25	10.18	9.81	10.44	11.40	12.37	12.16	12.38
3	13.43	13.37	12.53	10.92	11.36	10.18	9.61	10.43	11.38	12.33	12.14	12.38
4	13.36	13.23	12.31	10.78	11.44	10.14	9.51	10.33	11.42	12.01	12.24	12.29
5	13.51	13.29	12.44	10.52	11.40	10.17	9.46	10.07	11.46	12.04	12.21	12.30
6	13.58	13.29	12.48	10.77	11.45	10.18	9.46	9.95	11.16	11.78	12.17	12.28
7	13.33	13.30	12.49	10.45	11.64	10.12	9.44	9.90	11.11	11.76	12.14	12.34
8	13.40	13.03	12.41	10.43	11.73	10.00	9.50	9.86	11.19	11.79	12.12	12.38
9	13.21	13.01	12.48	10.57	11.83	9.98	9.49	9.89	11.19	11.68	12.02	12.37
10	13.16	12.81	12.46	10.54	11.81	9.91	9.44	9.75	11.23	11.83	11.99	12.40
11	13.14	12.89	12.49	10.45	11.68	9.73	9.31	9.90	11.32	12.03	12.04	12.59
12	13.14	12.72	12.43	10.76	11.52	9.67	9.32	9.89	11.26	11.88	12.05	12.60
13	13.12	13.05	12.35	10.56	11.52	9.64	9.25	9.82	11.30	12.02	12.16	12.69
14	13.01	12.92	12.03	10.70	11.52	9.59	9.23	9.96	11.29	12.07	12.13	12.73
15	12.97	13.01	12.21	10.58	11.47	9.51	9.29	9.96	11.24	11.85	12.40	12.74
16	13.02	12.99	11.89	10.79	11.70	9.55	9.25	9.86	11.16	12.06	12.35	12.62
17	13.06	13.03	12.08	10.59	11.58	9.50	9.37	9.88	11.26	12.25	12.20	12.68
18	13.08	12.98	11.72	10.78	11.54	9.49	9.48	10.05	11.25	12.21	12.18	12.87
19	13.05	13.00	11.96	10.84	11.53	9.62	9.41	9.89	11.54	12.25	12.16	12.97
20	13.10	13.12	11.96	11.01	11.47	9.60	9.59	9.99	11.61	12.32	12.09	12.98
21	13.08	13.06	11.93	11.11	11.41	9.68	9.75	10.30	11.70	12.28	12.33	12.99
22	13.11	12.99	11.91	11.20	11.19	9.65	9.67	10.70	11.69	12.24	12.48	13.01
23	13.13	12.84	11.98	11.17	11.00	9.66	9.69	10.78	11.80	12.34	12.52	13.08
24	13.17	12.78	11.85	11.03	10.77	9.68	10.03	10.90	11.85	12.31	12.51	13.00
25	13.18	12.90	12.02	11.01	10.52	9.88	10.08	11.06	11.91	12.21	12.34	13.04
26	13.11	12.91	11.97	11.06	10.39	10.02	10.19	11.07	11.99	12.14	12.35	12.92
27	13.10	12.90	11.85	11.02	10.39	9.86	10.23	10.90	12.13	12.14	12.42	12.78
28	13.09	12.81	11.79	11.05	10.28	10.08	10.34	10.90	12.28	12.21	12.39	12.59
29	12.97	12.84	11.73	11.10	---	10.23	10.49	10.89	12.40	12.22	12.39	12.64
30	12.99	12.47	11.61	11.10	---	10.11	10.57	10.97	12.53	12.23	12.38	12.54
31	13.46	---	11.50	11.05	---	10.03	---	10.99	---	12.19	12.39	---
MAX	13.58	13.41	12.65	11.39	11.83	10.23	10.57	11.07	12.53	12.53	12.52	13.08

WTR YR 1985 MEAN 11.58 HIGH 9.23 APR 14 LOW 13.58 OCT 6



## GROUND-WATER RECORDS

315

## RICHLAND COUNTY

404625082305100. Local number, R-4.

LOCATION.--Lat 40°46'25", long 82°30'51", Hydrologic Unit 05040002, at Ohio Brass Plant in Mansfield.

Owner: Ohio Brass Company

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in., depth 127 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1150 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of platform 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.10 ft below land-surface datum, Oct. 12, 13, 19, 20, 1962; minimum daily low, 6.14 ft below land-surface datum, May 15, 1984.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	7.44	7.18	7.06	7.22	6.94	6.77	6.88	6.84	6.93	6.93	
2	---	7.43	7.18	6.95	7.25	6.89	6.71	6.89	6.82	6.93	6.95	
3	---	7.42	7.18	6.92	7.30	6.86	6.66	6.92	6.79	6.93	6.97	
4	---	7.42	7.21	6.91	7.33	6.86	6.61	6.94	6.81	6.92	6.99	
5	---	7.34	7.24	6.85	7.34	6.80	6.57	6.94	6.82	6.90	7.01	
6	---	7.29	7.24	6.83	7.34	6.81	6.52	6.94	6.84	6.88	7.01	
7	---	7.26	7.25	6.83	7.35	6.83	6.48	6.92	6.84	6.85	7.01	
8	---	7.27	7.25	6.80	7.39	6.83	6.48	6.94	6.84	6.84	7.01	
9	---	7.27	7.26	6.85	7.43	6.83	6.50	6.97	6.83	6.82	7.01	
10	---	7.26	7.26	6.88	7.44	6.83	6.53	6.99	6.81	6.82	7.01	
11	---	7.21	7.26	6.91	7.44	6.83	6.55	7.01	6.80	6.85	7.00	
12	---	7.17	7.27	6.94	7.43	6.79	6.59	7.01	6.80	6.87	6.99	
13	---	7.17	7.27	6.94	7.35	6.74	6.61	6.99	6.79	6.88	6.99	
14	---	7.19	7.29	6.94	7.31	6.74	6.62	6.99	6.78	6.89	6.98	
15	---	7.19	7.31	6.93	7.30	6.76	6.62	7.01	6.78	6.89	---	
16	7.44	7.18	7.31	6.97	7.31	6.77	6.60	7.01	6.77	6.87	---	
17	7.44	7.18	7.31	6.97	7.32	6.77	6.60	7.01	6.74	6.87	---	
18	7.46	7.18	7.30	6.97	7.35	6.76	6.61	7.01	6.73	6.88	---	
19	7.46	7.18	7.30	6.95	7.37	6.77	6.63	7.01	6.72	6.88	---	
20	7.47	7.19	7.28	6.97	7.40	6.78	6.64	7.01	6.73	6.88	---	
21	7.47	7.23	7.28	7.00	7.42	6.82	6.65	7.01	6.76	6.88	---	
22	7.47	7.26	7.24	7.02	7.42	6.83	6.67	7.03	6.78	6.86	---	
23	7.51	7.26	7.22	7.04	7.42	6.83	6.69	7.04	6.79	6.85	---	
24	7.54	7.26	7.21	7.05	7.33	6.83	6.70	7.04	6.81	6.85	---	
25	7.56	7.25	7.19	7.05	7.20	6.84	6.72	7.04	6.84	6.85	---	
26	7.57	7.24	7.22	7.08	7.12	6.87	6.75	7.04	6.88	6.85	---	
27	7.57	7.23	7.22	7.10	7.02	6.88	6.77	7.02	6.90	6.85	---	
28	7.56	7.22	7.22	7.11	6.97	6.88	6.80	6.98	6.92	6.87	---	
29	7.50	7.20	7.20	7.15	---	6.87	6.84	6.93	6.92	6.89	---	
30	7.46	7.19	7.17	7.18	---	6.84	6.86	6.92	6.93	6.92	---	
31	7.45	---	7.13	7.19	---	6.84	---	6.89	---	6.92	---	
MAX	---	7.44	7.31	7.19	7.44	6.94	6.86	7.04	6.93	6.93	---	
WTR YR 1985 MEAN		7.02		HIGH	6.48	APR 7	AND OTHERS	LOW	7.57	OCT 26	AND OTHERS	

## GROUND-WATER RECORDS

## ROSS COUNTY

391341083172200. Local number, RO-7.

LOCATION.--Lat 39°13'41", long 83°17'22", Hydrologic Unit 05060003, Highland County well field, 1 mi west of Bainbridge.

Owner: Highland County Water Company.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 67 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 740 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--February 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 44.56 ft below land-surface datum, Aug. 17, 1985; minimum daily low, 20.93 ft below land-surface datum, Feb. 28, 1971.

## WATER LEVEL (FEET)

WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.53	40.41	38.96	38.30	42.77	41.64	39.96	40.21	40.98	42.71	43.97	43.19
2	42.70	40.37	38.95	38.18	42.94	41.06	39.81	40.14	41.19	42.84	43.91	43.08
3	42.65	40.04	39.05	38.09	43.05	40.63	39.57	39.96	41.19	42.93	43.64	43.25
4	42.66	39.75	39.23	37.93	43.21	40.36	39.15	39.66	41.33	43.23	43.80	43.25
5	42.57	39.70	39.18	37.85	43.24	39.96	38.78	39.67	41.14	43.23	43.87	43.25
6	42.32	39.66	39.09	38.03	43.38	39.80	38.52	39.32	41.14	43.47	43.69	43.21
7	42.06	39.24	39.05	38.08	43.39	39.60	38.39	39.27	41.40	43.54	43.48	43.16
8	41.73	39.12	39.12	38.01	43.40	39.43	37.99	39.13	41.44	43.45	43.67	43.24
9	41.73	38.95	39.34	38.11	43.55	39.41	38.00	39.34	41.68	43.37	43.83	43.52
10	41.72	38.65	39.65	38.13	43.64	39.52	37.86	39.35	41.75	43.23	44.09	43.64
11	41.86	38.46	39.70	38.19	43.65	39.37	37.81	39.27	41.81	43.23	44.12	43.91
12	41.84	38.41	39.64	38.39	43.76	39.26	37.94	39.38	41.83	43.19	44.24	43.92
13	41.45	38.38	39.75	38.80	43.80	39.27	38.04	39.45	41.43	43.20	44.43	43.83
14	41.35	38.26	39.63	38.74	43.86	39.35	38.04	39.61	41.38	43.23	44.40	43.83
15	41.26	38.34	39.63	38.80	43.95	39.14	38.24	39.66	41.07	43.25	44.47	43.71
16	41.43	38.25	39.45	38.77	44.00	39.03	38.20	39.63	41.08	43.19	44.51	43.73
17	41.39	38.04	39.45	39.04	44.05	39.00	38.22	39.58	40.99	43.25	44.56	43.98
18	41.35	37.86	39.43	39.30	44.17	39.01	38.37	39.48	41.05	43.64	44.15	44.14
19	41.17	37.99	39.31	39.50	44.23	39.02	38.41	39.48	41.00	43.66	44.17	44.14
20	41.12	38.34	39.23	39.58	44.28	39.04	38.74	39.68	41.06	43.24	43.97	44.15
21	41.06	38.54	38.88	39.86	44.35	39.15	38.91	39.78	41.10	43.46	43.77	43.95
22	40.91	38.49	38.86	40.29	44.23	39.23	39.10	39.92	41.23	43.36	43.85	44.12
23	40.96	38.51	38.74	40.66	44.00	39.40	39.28	39.95	41.50	43.65	43.90	44.27
24	40.93	38.50	38.70	41.02	43.78	39.59	39.33	39.85	41.59	43.75	43.52	44.32
25	40.83	38.70	38.45	41.33	43.55	39.65	39.46	40.00	41.62	43.51	43.50	44.19
26	40.74	38.82	38.20	41.59	43.23	39.64	39.52	40.25	41.84	43.73	43.28	44.07
27	40.79	38.97	38.27	41.91	42.70	39.67	39.63	40.38	42.04	43.73	43.03	43.79
28	40.74	39.00	38.30	42.19	42.31	39.74	39.83	40.36	42.23	43.06	43.18	43.80
29	40.74	39.09	38.32	42.43	---	39.96	40.17	40.62	42.40	43.44	43.01	44.02
30	40.61	38.96	38.45	42.59	---	40.05	40.20	40.83	42.58	43.65	42.83	44.05
31	40.42	---	38.38	42.58	---	39.97	---	41.01	---	43.90	43.04	---
MAX	42.70	40.41	39.75	42.59	44.35	41.64	40.20	41.01	42.58	43.90	44.56	44.32

WTR YR 1985 MEAN 41.09 HIGH 37.81 APR 11 LOW 44.56 AUG 17

## GROUND-WATER RECORDS

317

ROSS COUNTY--Continued.

391913082580500. Local number, RO-8.

LOCATION.--Lat 39°19'13", long 82°58'05", Hydrologic Unit 05060003, Mead Paper wood yard in Chillicothe.

Owner: Mead Paper Corp.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 95 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 631.30 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 29.70 ft below land-surface datum, Nov. 3, 1984; minimum daily low, 21.79 ft below land-surface datum, May 29, 1984.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.31	29.68	---	27.91	28.30	26.68	25.49	26.14	25.00	25.10	25.67	26.68
2	28.46	29.69	---	27.88	28.29	26.51	25.39	26.15	25.02	25.14	25.69	26.69
3	28.55	29.70	---	27.80	28.27	26.36	25.26	25.80	25.03	25.17	25.70	26.70
4	28.57	29.66	---	27.75	---	26.24	25.19	25.28	25.04	25.20	25.72	26.70
5	28.58	29.68	---	27.76	---	26.34	25.08	25.28	24.98	25.24	25.75	26.71
6	28.65	29.57	---	27.76	---	26.37	25.08	25.22	24.99	25.24	25.78	26.73
7	28.77	29.52	---	27.75	---	26.38	25.12	25.33	24.99	25.24	25.81	26.73
8	28.87	29.43	---	27.76	---	26.36	25.12	25.46	24.96	25.23	25.85	26.74
9	28.93	29.35	---	27.74	---	26.37	25.11	25.55	24.96	25.16	25.89	26.76
10	29.01	29.27	---	27.75	---	26.37	25.11	25.61	24.99	25.15	25.94	26.81
11	29.03	29.22	---	---	---	26.33	25.10	25.70	25.03	25.04	25.97	26.84
12	29.05	29.15	---	---	---	26.26	25.08	25.79	25.03	24.99	26.00	26.91
13	29.07	29.09	---	---	---	26.14	25.11	25.85	24.96	24.96	26.03	26.98
14	29.10	29.05	---	---	---	26.05	25.14	25.89	24.89	24.92	26.06	27.02
15	29.13	29.01	---	---	---	26.03	25.20	25.89	24.84	24.96	26.10	27.07
16	29.18	28.98	---	---	---	26.03	25.23	25.73	24.76	25.01	26.11	27.11
17	29.24	28.95	---	---	---	26.05	25.25	25.61	24.75	25.03	26.12	27.16
18	29.30	28.98	---	---	---	26.12	25.26	25.54	24.75	25.09	26.14	27.19
19	29.35	29.04	---	---	---	26.13	25.33	25.10	24.77	25.18	26.18	27.21
20	29.37	29.08	---	---	---	26.16	25.43	24.57	24.79	25.23	26.24	27.23
21	29.40	29.08	---	---	---	26.16	25.50	24.23	24.82	25.28	26.30	27.27
22	29.42	29.03	---	---	---	26.19	25.56	24.32	24.83	25.29	26.34	27.29
23	29.45	28.99	---	---	---	26.28	25.63	24.42	24.86	25.34	26.39	27.33
24	29.48	28.95	---	---	---	26.40	25.70	---	24.90	25.37	26.43	27.36
25	29.51	28.94	---	---	---	26.49	25.76	---	24.93	25.38	26.48	27.37
26	29.54	28.94	---	---	---	26.54	25.82	---	24.93	25.42	26.50	27.39
27	29.56	28.93	---	---	26.84	26.61	25.87	---	24.94	25.45	26.55	27.42
28	29.58	28.94	---	---	26.81	26.62	25.96	---	24.99	25.49	26.59	27.44
29	29.61	28.95	---	---	---	26.68	26.03	24.95	25.03	25.55	26.61	27.48
30	29.67	28.94	---	---	---	26.69	26.09	24.95	25.09	25.62	26.63	27.50
31	29.67	---	27.97	28.27	---	26.45	---	24.95	---	25.66	26.65	---
MAX	29.67	29.70	---	---	---	26.69	26.09	---	25.09	25.66	26.65	27.50
WTR YR 1985 MEAN	26.63			HIGH	24.23	MAY 21	LOW	29.70	NOV 3			

## GROUND-WATER RECORDS

## SHELBY COUNTY

4017120 84103500. Local number, SH-4.

LOCATION.--Lat 40°17'12", long 84°10'35", Hydrologic Unit 05080001, State Route 47 in Sidney.

Owner: Stolle Corporation.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 280 ft, cased to 136 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1,033.72 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of platform 4.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 94.19 ft below land-surface datum, Oct. 26, 1982; minimum daily low, 63.45 ft below land-surface datum, Jan. 2, 1981.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87.22	85.69	75.78	75.71	86.42	86.50	85.31	85.36	84.27	83.12	84.49	71.04
2	87.44	86.89	72.61	84.75	84.21	80.99	85.69	83.43	77.16	82.20	80.15	76.93
3	85.03	79.53	82.93	85.01	80.52	79.30	85.73	86.33	82.74	82.16	84.90	85.30
4	86.56	77.26	82.91	84.83	86.09	83.69	84.09	81.34	83.65	77.57	80.47	83.67
5	86.38	85.63	85.91	82.77	87.08	84.75	81.32	81.80	83.07	67.56	83.59	81.16
6	80.91	86.53	84.85	83.06	86.87	85.86	74.60	84.22	84.79	66.01	84.63	81.90
7	81.95	86.97	80.84	85.53	86.75	86.34	76.19	86.81	84.89	76.60	83.05	76.52
8	87.41	87.43	80.63	86.63	87.05	86.08	85.59	82.72	82.26	85.60	85.50	74.30
9	86.91	86.34	78.18	85.41	84.44	81.56	86.49	83.18	78.10	85.29	84.50	81.51
10	86.23	82.94	84.09	85.81	80.17	78.25	85.71	83.67	84.37	85.95	79.20	81.78
11	85.84	78.45	84.45	86.04	84.61	85.03	86.20	82.52	80.71	86.08	78.41	84.85
12	85.58	86.78	82.89	82.23	84.82	85.20	86.45	80.93	83.93	81.68	81.87	80.57
13	81.72	88.35	83.06	80.19	74.82	85.00	84.36	83.96	83.35	82.57	82.59	79.83
14	78.43	85.47	83.30	84.34	84.60	86.65	81.85	86.16	82.56	76.92	83.86	81.32
15	85.33	85.11	82.21	86.69	87.00	85.36	85.66	84.94	81.15	78.93	84.40	73.19
16	88.66	85.99	78.66	86.50	80.15	80.51	85.98	83.33	74.71	83.83	82.29	79.98
17	85.90	84.62	86.92	84.32	80.71	79.80	85.23	82.11	83.33	85.60	80.44	81.78
18	86.81	78.54	85.82	84.86	84.16	87.00	85.17	83.43	82.95	82.08	74.52	81.78
19	85.84	86.76	84.94	84.24	85.23	85.74	86.33	78.07	83.98	82.29	81.61	82.35
20	78.61	87.87	86.17	80.57	86.02	86.68	84.09	82.78	85.79	78.88	82.07	80.30
21	79.14	87.94	85.91	85.87	87.42	87.05	81.32	83.20	86.32	78.65	84.54	79.92
22	82.25	82.55	84.09	86.56	87.40	86.77	87.59	85.65	83.95	80.11	82.86	73.01
23	87.90	70.66	74.69	86.22	83.25	80.74	87.30	85.74	76.68	80.99	80.59	81.02
24	88.95	67.58	66.52	83.93	79.59	77.22	86.49	83.22	81.97	83.04	82.05	82.29
25	88.07	72.39	77.03	82.45	83.34	85.47	86.75	78.93	85.21	84.27	74.52	82.60
26	86.66	85.13	85.29	81.58	83.57	86.49	84.10	71.10	81.80	80.13	82.71	81.04
27	80.95	85.68	86.06	78.06	85.06	84.32	83.96	80.64	87.58	78.85	84.60	80.87
28	78.92	86.21	85.61	84.98	86.17	86.78	78.24	86.56	86.22	75.82	83.59	79.70
29	82.67	81.76	78.99	86.28	---	86.25	84.53	84.27	78.65	80.80	82.15	76.32
30	86.37	82.35	70.12	85.92	---	84.75	85.85	84.44	77.92	85.21	83.08	80.31
31	85.44	---	70.88	88.54	---	81.17	---	87.54	---	85.20	74.67	---
MAX	88.95	88.35	86.92	88.54	87.42	87.05	87.59	87.54	87.58	86.08	85.50	85.30
WTR YR 1985 MEAN	82.82				66.01	JUL 6	LOW	88.95	OCT 24			



## GROUND-WATER RECORDS

319

## STARK COUNTY

4049390 81203800. Local number, ST-5A.

LOCATION.--Lat 40°49'39", long 81°20'38", Hydrologic Unit 05040001, Northeast well field off Harrisburg Rd, Canton.

Owner: Canton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 132 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1060 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.00 ft below land-surface datum, Feb. 10, 1956; minimum daily low, 26.13 ft below land-surface datum, May 18, 1964.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.88	36.66	36.94	38.20	38.75	38.37	37.00	34.96	35.29	34.32	34.68	35.51
2	36.88	36.64	36.93	38.41	38.76	38.16	36.92	34.96	35.26	34.31	34.65	35.51
3	37.10	37.48	36.89	38.34	38.77	38.06	36.68	35.03	35.22	34.32	34.62	35.49
4	36.98	37.58	37.35	38.34	38.77	38.22	36.51	34.96	35.20	34.36	34.59	35.51
5	37.49	37.65	37.57	38.37	38.76	37.93	36.32	34.94	35.17	34.38	34.58	35.51
6	37.06	37.78	37.90	38.38	38.77	37.86	36.17	34.93	35.17	34.26	34.56	35.52
7	36.98	37.89	37.91	38.27	38.79	37.78	36.05	34.94	35.16	34.27	34.57	35.54
8	36.94	37.99	37.78	38.34	38.80	37.97	35.91	34.96	35.14	34.26	34.59	35.54
9	36.60	38.00	37.47	38.58	38.81	37.71	35.78	34.96	35.15	34.26	34.59	35.54
10	37.27	37.46	37.40	38.46	38.81	37.62	35.69	34.95	35.16	34.82	34.59	35.56
11	36.81	37.30	37.38	38.44	38.82	37.54	35.58	34.96	35.16	34.87	34.60	35.57
12	37.27	37.57	37.94	38.46	38.82	37.45	35.51	34.92	35.16	34.88	35.17	34.96
13	36.83	37.59	38.40	38.46	38.84	36.83	35.74	34.92	35.16	34.89	34.90	34.92
14	37.23	37.93	38.66	38.35	38.85	36.67	35.84	35.03	34.83	34.89	34.68	34.91
15	36.69	38.02	38.36	38.43	38.86	36.66	35.45	35.08	34.72	34.88	34.66	34.88
16	37.26	38.06	38.35	38.45	38.86	36.56	36.02	35.13	34.63	34.88	34.68	34.86
17	37.28	37.63	38.37	38.45	38.87	36.47	36.03	35.19	34.58	34.88	34.67	34.85
18	37.32	37.46	38.39	38.46	38.87	36.84	35.52	35.25	34.53	34.87	34.64	34.85
19	37.17	37.13	38.40	38.49	38.88	36.89	35.35	35.29	34.49	34.88	34.63	34.85
20	36.93	37.38	38.43	38.51	38.88	36.94	35.26	35.34	34.47	34.88	34.62	34.85
21	36.95	37.06	38.43	38.52	38.89	36.96	35.18	35.38	34.45	34.88	35.25	34.85
22	37.18	37.12	38.47	38.70	38.89	36.96	35.37	35.41	34.44	34.87	35.32	34.85
23	36.78	37.30	38.48	38.72	38.89	36.96	35.28	35.45	34.43	34.35	35.36	34.85
24	36.77	36.94	38.49	38.69	38.87	36.97	35.10	35.49	34.40	34.34	35.42	34.87
25	36.78	36.91	38.52	38.68	38.78	36.98	35.06	35.51	34.39	34.33	35.44	34.86
26	37.34	37.44	38.39	38.68	38.63	37.15	35.04	35.55	34.37	34.34	35.48	35.48
27	36.88	37.45	38.42	38.68	38.48	37.52	35.10	35.58	34.36	34.34	35.50	35.62
28	36.95	37.48	37.97	38.69	38.36	37.72	35.02	35.58	34.34	34.34	35.51	35.71
29	36.81	37.04	37.84	38.71	---	37.38	35.00	35.53	34.34	35.10	35.51	35.74
30	36.74	36.98	38.15	38.73	---	37.23	34.98	35.43	34.33	35.32	35.52	35.82
31	36.70	---	38.22	38.74	---	37.06	---	35.37	---	34.94	35.52	---
MAX	37.49	38.06	38.66	38.74	38.89	38.37	37.00	35.58	35.29	35.32	35.52	35.82
WTR YR 1985 MEAN	36.45			HIGH	34.26	JUL 6 AND OTHERS	LOW	38.89	FEB 21 AND OTHERS			

## GROUND-WATER RECORDS

## STARK COUNTY--Continued

405051081244200. Local number, ST-28.

LOCATION.--Lat 40°50'51", long 81°24'42", Hydrologic Unit 05040001, Salway St., northwest of Canton.

Owner: North Canton Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth 70 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1060 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 1.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1975 to January 18, 1985 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 16.00 ft below land-surface datum, July 27, 28, 1978; minimum daily low, 9.00 ft below land-surface datum, June 29, 1984.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.71	10.27	10.45	10.63				---				
2	9.74	---	10.47	10.64				---				
3	9.76	---	10.48	10.64				---				
4	9.78	---	10.50	10.65				---				
5	9.80	---	10.51	10.65				---				
6	9.83	---	10.51	10.67				---				
7	9.84	---	10.52	10.68				---				
8	9.87	---	10.55	10.69				---				
9	9.88	---	10.56	10.72				---				
10	9.93	---	10.59	10.73				---				
11	9.97	---	10.60	10.75				---				
12	9.98	---	10.60	10.78				---				
13	9.99	---	10.61	10.79				---				
14	10.01	---	10.61	10.82				---				
15	10.03	---	10.61	10.83				---				
16	10.04	---	10.62	10.85				---				
17	10.07	---	10.61	10.88				---				
18	10.09	---	10.61	10.89				---				
19	10.11	---	10.61	---				---				
20	10.13	---	10.62	---				---				
21	10.15	---	10.62	---				---				
22	10.17	---	10.61	---				---				
23	10.19	---	10.61	---				---				
24	10.21	---	10.61	---				---				
25	10.22	---	10.62	---				---				
26	10.23	---	10.61	---				---				
27	10.23	---	10.61	---				---				
28	10.24	---	10.61	---				---				
29	10.25	10.43	10.62	---				---				
30	10.27	10.44	10.63	11.15				9.51				
31	10.27	---	10.63	---				---				
MAX	10.27	---	10.63	---				---				
WTR YR 1985 MEAN	10.40		HIGH	9.51	MAY 30	LOW	11.15	JAN 30				

## 321

## STARK COUNTY--Continued

40 52110 81253 500. Local number, ST-27.

LOCATION.--Lat 40°52'11", long 81°25'35", Hydrologic Unit 05040001, Dresler Rd near North Canton.

Owner: North Canton Water Department

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 55 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1060 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 40.80 ft below land-surface datum, Aug. 29, 1982; minimum daily low, 7.10 ft below land-surface datum, June 15, 1981.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.85	36.95	17.10	13.10	13.45	12.15	10.60	24.90	23.40	28.20	29.95	16.05
2	27.35	37.00	15.75	13.10	13.50	12.25	10.30	25.30	18.90	28.55	30.25	23.65
3	28.55	28.85	15.30	13.00	13.45	12.25	10.20	23.30	15.75	27.50	31.10	25.20
4	29.55	25.60	15.15	12.70	13.35	12.20	10.20	25.10	14.70	28.55	31.55	18.75
5	30.40	23.80	15.05	12.90	13.25	12.30	10.15	25.55	14.10	29.30	32.40	17.25
6	31.10	22.75	14.85	12.90	13.40	12.35	10.35	22.45	13.75	29.25	32.85	16.65
7	31.30	21.80	14.85	12.75	13.50	12.30	10.40	25.05	13.45	29.30	33.10	16.35
8	30.95	21.00	14.80	12.70	13.55	12.20	10.40	26.15	13.15	26.00	33.50	16.15
9	31.90	20.40	14.75	12.80	13.60	12.25	10.45	26.70	13.00	27.75	33.70	21.05
10	32.60	19.80	14.75	12.80	13.60	12.25	10.45	27.25	12.95	28.60	33.95	17.35
11	33.10	19.10	14.55	12.85	13.60	12.20	10.50	25.60	12.85	29.10	34.25	16.45
12	33.55	18.55	14.50	12.85	13.35	12.20	10.65	26.95	12.65	29.35	34.40	16.15
13	34.00	18.15	14.45	12.75	13.45	12.20	10.60	27.90	21.25	25.50	30.35	15.95
14	34.35	17.80	14.45	12.70	13.50	12.10	10.60	28.10	23.45	26.95	31.30	15.85
15	34.65	17.45	14.35	12.90	13.50	12.10	10.55	21.95	18.50	21.20	27.55	20.20
16	34.95	16.95	14.15	12.95	13.50	12.05	10.65	19.30	21.15	19.35	24.00	21.75
17	35.15	16.80	13.95	12.80	13.50	12.20	10.75	18.05	24.60	22.10	22.45	17.00
18	35.45	16.55	14.00	12.85	13.45	12.10	10.75	17.20	24.95	25.40	21.45	16.30
19	35.70	16.15	13.95	13.00	13.45	12.10	10.80	16.65	17.90	26.75	20.60	16.00
20	35.95	16.05	13.95	13.05	13.45	12.20	10.80	16.15	18.75	29.10	19.95	15.85
21	36.00	15.95	14.00	13.05	13.45	12.20	10.80	15.75	16.30	30.10	19.40	15.75
22	35.00	15.85	13.90	13.05	13.45	12.20	15.20	15.45	14.70	29.80	18.95	15.70
23	33.55	15.60	13.90	13.05	13.35	12.15	18.70	15.15	14.05	28.00	18.55	15.70
24	33.65	15.30	13.65	13.05	13.00	12.25	21.50	14.95	13.60	28.70	18.20	15.65
25	34.45	15.25	13.55	13.20	12.70	12.30	23.05	14.75	20.55	29.85	17.80	15.65
26	35.30	15.20	13.50	13.30	12.35	12.35	23.85	14.60	22.95	31.55	17.40	18.10
27	35.80	15.00	13.40	13.30	12.20	12.25	24.40	14.50	23.85	31.65	17.20	16.30
28	36.10	14.95	13.40	13.20	12.20	12.30	21.90	14.35	24.80	31.55	17.00	15.75
29	36.30	14.90	13.30	13.20	---	12.30	16.95	13.75	---	30.50	16.75	15.60
30	36.50	21.40	13.20	13.35	---	11.85	23.00	20.10	---	28.60	16.55	15.25
31	36.80	---	13.05	13.45	---	11.35	---	22.40	---	29.75	16.35	---
MAX	36.80	37.00	17.10	13.45	13.60	12.35	24.40	28.10	---	31.65	34.40	25.20
WTR YR 1985 MEAN	19.14		HIGH		10.15	APR 5	LOW		37.00	NOV 2		

## GROUND-WATER RECORDS

## SUMMIT COUNTY

410141081315200. Local number, SU-4A.

LOCATION.--Lat 41°01'41", long 80°31'52", Hydrologic Unit 05040001, Firestone well field, Akron.

Owner: Firestone Tire and Rubber Co.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 60 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 970 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 42.60 ft below land-surface datum, Oct. 21, 1966; minimum daily low, 3.45 ft below land-surface datum, Jan. 23, 1959.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	19.84	15.04	12.87	12.53	10.67	8.73	11.54	12.57	14.00	14.76	16.38
2	---	19.81	14.97	12.76	12.56	10.48	8.67	11.68	12.46	14.11	14.83	16.38
3	---	19.78	14.91	12.63	12.59	10.33	8.64	11.81	12.39	14.21	14.90	16.38
4	---	19.74	14.84	12.52	12.62	10.20	8.62	11.93	12.38	14.23	14.98	16.39
5	---	19.69	14.78	12.41	12.63	10.06	8.61	12.04	12.43	14.23	15.05	16.43
6	---	19.59	14.72	12.32	12.65	9.96	8.63	12.15	12.50	14.22	15.12	16.47
7	---	19.41	14.66	12.24	12.67	9.86	8.65	12.25	12.59	14.21	15.13	16.53
8	---	18.97	14.60	12.17	12.70	9.76	8.66	12.34	12.68	14.18	15.17	16.57
9	---	18.61	14.55	12.11	12.73	9.67	8.67	12.44	12.79	14.17	15.25	16.62
10	---	18.33	14.49	12.08	12.75	9.58	8.67	12.53	12.89	14.17	15.33	16.68
11	---	18.08	14.42	12.06	12.76	9.50	8.67	12.61	13.01	14.14	15.41	16.73
12	---	17.78	14.36	12.05	12.76	9.41	8.67	12.70	13.08	14.08	15.49	16.80
13	---	17.49	14.29	12.05	12.76	9.30	8.69	12.80	13.11	14.05	15.58	16.84
14	---	17.22	14.23	12.05	12.75	9.19	8.71	12.89	13.11	14.04	15.66	16.88
15	---	17.00	14.16	12.07	12.73	9.09	8.74	12.99	13.10	14.03	15.74	16.92
16	---	16.78	14.08	12.09	12.69	9.00	8.77	13.06	13.10	14.00	15.80	16.96
17	---	16.57	13.99	12.09	12.63	8.92	8.85	13.10	13.11	13.95	15.84	17.00
18	---	16.40	13.91	12.10	12.58	8.84	9.02	13.15	13.13	13.95	15.85	17.06
19	---	16.23	13.84	12.12	12.51	8.77	9.24	13.20	13.16	13.98	15.86	17.11
20	---	16.08	13.77	12.14	12.44	8.70	9.50	13.25	13.20	14.02	15.87	17.16
21	---	15.96	13.69	12.17	12.36	8.65	9.74	13.30	13.25	14.06	15.90	17.22
22	---	15.84	13.62	12.19	12.27	8.63	9.95	13.33	13.30	14.11	15.95	17.27
23	19.97	15.73	13.54	12.20	12.17	8.63	10.15	13.36	13.36	14.17	16.00	17.32
24	19.96	15.62	13.46	12.22	12.00	8.66	10.31	13.40	13.42	14.23	16.05	17.38
25	19.94	15.52	13.37	12.25	11.74	8.71	10.49	13.40	13.48	14.29	16.10	17.43
26	19.93	15.42	13.31	12.29	11.40	8.75	10.68	13.36	13.56	14.35	16.15	17.50
27	19.92	15.34	13.24	12.33	11.09	8.79	10.86	13.30	13.64	14.41	16.21	17.56
28	19.92	15.26	13.18	12.38	10.87	8.84	11.03	13.27	13.72	14.48	16.26	17.62
29	19.92	15.18	13.11	12.43	---	8.84	11.20	13.17	13.81	14.56	16.32	17.66
30	19.90	15.11	13.06	12.46	---	8.82	11.36	13.04	13.90	14.63	16.36	17.70
31	19.87	---	12.98	12.49	---	8.79	---	12.85	---	14.70	16.38	---
MAX	---	19.84	15.04	12.87	12.76	10.67	11.36	13.40	13.90	14.70	16.38	17.70
WTR YR 1985 MEAN		13.56		HIGH	8.61	APR 5	LOW	19.97	OCT 23			



## GROUND-WATER RECORDS

323

## TRUMBALL COUNTY

411604080505600. Local number, T-3.

LOCATION.--Lat 41°16'04", long 80°50'56", Hydrologic Unit 05030103, N. River Rd near Warren.

Owner: Copperweld Steel Corp.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 125 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 890 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.30 ft below land-surface datum, July 2, 1975; minimum daily low, 19.35 ft below land-surface datum, Feb. 21, 1982.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.17	40.94	38.35	38.24	44.80	39.62	37.95	40.83	36.19	41.10	43.35	45.88
2	39.09	40.85	37.50	39.10	44.78	39.37	38.41	41.10	37.97	40.79	43.05	45.28
3	39.50	40.00	39.18	39.39	44.12	38.82	38.80	41.14	40.03	40.43	42.84	46.38
4	39.98	38.86	39.54	40.02	43.92	38.36	38.61	40.75	42.06	40.22	42.26	46.97
5	39.68	39.99	39.60	40.33	43.88	38.82	38.37	40.25	44.19	39.83	42.24	47.98
6	39.43	40.09	39.91	39.21	44.61	38.88	38.19	40.96	44.68	39.75	42.89	48.57
7	38.98	39.89	39.91	38.61	44.14	39.12	38.19	41.08	44.36	39.44	43.16	47.60
8	39.37	39.92	39.70	39.03	43.14	39.16	38.80	41.57	43.23	40.73	43.46	46.68
9	40.08	38.21	39.13	39.29	42.44	39.09	39.24	41.78	42.58	43.00	43.60	45.84
10	40.52	37.94	39.27	39.16	41.77	38.94	39.45	41.80	43.46	43.04	43.30	46.18
11	40.86	35.95	39.30	39.86	43.27	39.85	40.05	41.51	43.70	42.73	42.86	45.96
12	41.11	38.03	39.09	40.12	43.61	39.75	40.25	40.68	43.43	42.59	42.91	45.31
13	40.79	38.92	39.63	40.01	43.92	39.70	40.17	41.18	44.98	42.40	45.09	44.98
14	39.78	39.09	39.51	40.18	44.27	39.68	39.21	42.35	44.68	42.39	46.16	44.44
15	39.43	38.99	39.11	40.68	44.14	39.79	40.99	42.69	43.83	41.57	46.17	43.45
16	40.18	38.80	38.74	41.22	43.87	39.55	42.33	42.47	42.49	42.32	45.63	43.45
17	40.86	35.90	39.34	42.24	43.63	39.26	42.63	42.65	42.72	43.03	45.23	44.62
18	41.85	34.25	39.93	42.37	43.42	39.84	42.54	42.72	43.21	43.37	44.39	44.82
19	41.65	33.40	40.39	42.54	43.01	39.88	42.07	42.88	43.55	43.55	45.06	44.82
20	40.96	33.61	40.00	42.49	42.77	40.82	42.06	43.11	43.67	43.45	45.12	45.86
21	39.88	34.41	39.81	42.14	42.97	41.01	42.97	43.20	43.80	42.80	44.95	45.89
22	39.66	33.86	39.13	42.04	42.27	41.09	44.68	43.06	43.45	42.86	46.15	44.80
23	39.74	33.32	38.66	42.26	41.84	40.94	45.53	42.97	43.45	43.08	48.16	45.06
24	39.72	33.28	37.97	41.51	39.99	40.48	45.20	43.18	45.37	43.02	47.19	45.81
25	39.95	34.68	37.97	40.97	40.14	40.11	45.29	42.90	45.21	43.13	46.16	45.08
26	40.51	36.66	38.16	40.95	40.01	40.07	45.17	42.33	44.97	43.02	46.27	44.51
27	40.53	37.48	38.50	40.58	39.97	40.28	43.19	42.11	45.16	42.87	47.48	44.38
28	39.97	38.26	38.64	41.71	39.86	40.30	41.99	42.35	45.51	42.31	48.02	44.09
29	39.90	38.06	38.59	42.58	---	39.84	40.51	42.88	45.11	43.17	48.17	43.19
30	39.80	38.63	38.52	43.30	---	39.21	41.05	43.11	42.79	43.85	48.05	43.65
31	40.08	---	37.99	44.02	---	38.33	---	43.15	---	43.87	47.16	---
MAX	41.85	40.94	40.39	44.02	44.80	41.09	45.53	43.20	45.51	43.87	48.17	48.57
WTR YR 1985 MEAN	41.59			HIGH	33.28	NOV 24	LOW	48.57	SEP 6			

## GROUND-WATER RECORDS

## TUSCARAWAS COUNTY

403207081293800. Local number, TU-3.

LOCATION.--Lat 40°32'07", long 81°29'38", Hydrologic Unit 05040001, in the northwest part of Dover.

Owner: Dover City Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 62 ft, cased.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 880 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1960 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 19.35 ft below land-surface datum, Nov. 29-30, Dec. 6-8, 1962; minimum daily low, 3.20 ft below land-surface datum, July 15, 1969.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 31, 1984	10.02	Jan. 31, 1985	10.26	Apr. 30, 1985	8.58	July 31, 1985	10.04
Nov. 30	9.83	Feb. 28	8.73	May 31	9.18	Aug. 31	10.61
Dec. 28	9.54	Mar. 29	8.36	June 29	9.06	Sep. 30	11.19

## 325

403 5570 81313600. Local number, TU-4.

LOCATION.--Lat 40°35'57", long 81°31'36", Hydrologic Unit 05040001, near Fire Dept. building in Strasburg.

Owner: Strasburg Water Dept.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 42.5 ft, cased.

**INSTRUMENTATION.**--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 920 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

REMARKS.--Station operated by Ohio Department  
PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 10.68 ft below land-surface datum, Nov. 3, 1982; minimum daily low, 4.05 ft below land-surface datum, July 13, 1969.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
DAY	MAXIMUM VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.45	9.65	9.40	8.83	9.38	8.12	7.71	8.30	8.44	8.88	9.54	9.92
2	9.43	9.65	9.41	8.86	9.28	7.95	7.58	8.29	8.43	8.89	9.55	9.94
3	9.43	9.59	9.49	8.90	9.29	7.90	7.50	8.31	8.50	8.90	9.57	10.00
4	9.48	9.56	9.50	8.82	9.36	7.93	7.54	8.25	8.66	8.89	9.56	10.00
5	9.56	9.57	9.50	8.80	9.33	7.98	7.55	8.27	8.66	9.01	9.65	10.00
6	9.46	9.56	9.53	8.80	9.35	8.01	7.67	8.33	8.64	8.90	9.63	---
7	9.48	9.49	9.53	8.89	9.38	8.01	7.55	8.35	8.76	8.93	9.65	---
8	9.54	9.48	9.50	8.93	9.40	8.06	7.63	8.40	8.66	8.98	9.69	---
9	9.60	9.48	9.56	8.92	9.37	8.00	7.64	8.46	8.70	9.04	9.68	---
10	9.57	9.36	9.54	8.93	9.38	8.00	7.66	8.45	8.75	9.04	9.73	---
11	9.56	9.25	9.51	8.96	9.45	8.05	7.66	8.45	8.78	9.09	9.73	---
12	9.58	9.20	9.40	8.94	9.44	7.96	7.69	8.48	8.71	9.18	9.81	---
13	9.54	9.16	9.32	8.95	9.33	7.89	7.66	8.55	8.47	9.08	9.81	---
14	9.56	9.24	9.28	9.00	9.31	7.86	7.67	8.60	8.43	9.10	9.81	---
15	9.61	9.15	9.12	9.06	9.29	7.88	7.74	8.59	8.36	9.14	9.83	---
16	9.63	9.16	9.06	9.08	9.28	7.84	7.77	8.60	8.37	9.18	9.83	---
17	9.64	9.13	9.08	9.09	9.21	7.88	7.83	8.60	8.44	9.20	9.83	---
18	9.65	9.13	9.08	9.09	9.27	7.94	7.84	8.54	8.45	9.22	9.80	---
19	9.65	9.21	9.06	9.09	9.26	7.99	7.88	8.56	8.49	9.38	9.82	---
20	9.64	9.24	9.09	9.12	9.25	8.01	7.87	8.63	8.53	9.34	9.83	---
21	9.67	9.34	9.07	9.17	9.24	8.06	7.89	8.65	8.61	9.25	9.84	---
22	9.69	9.25	9.05	9.16	9.17	8.08	7.99	8.67	8.55	9.29	9.87	---
23	9.71	9.30	8.98	9.17	8.90	8.07	8.02	8.72	8.58	9.31	9.88	---
24	9.70	9.27	9.00	9.27	8.49	8.11	8.05	8.74	8.64	9.33	9.87	---
25	9.70	9.30	8.99	9.19	8.35	8.18	8.09	8.71	8.67	9.36	9.90	---
26	9.71	9.36	9.05	9.16	8.28	8.22	8.11	8.74	8.71	9.39	9.93	---
27	9.68	9.39	9.09	9.18	8.22	8.22	8.10	8.78	8.74	9.35	9.93	---
28	9.69	9.46	9.07	9.26	8.14	8.24	8.14	8.51	8.78	9.37	9.95	---
29	9.71	9.41	9.02	9.26	---	8.19	8.22	8.45	8.76	9.43	9.96	---
30	9.69	9.43	8.96	9.24	---	8.08	8.28	8.41	8.79	9.45	9.95	10.31
31	9.68	---	8.93	9.31	---	7.96	---	8.41	---	9.50	9.92	---
MAX	9.71	9.65	9.56	9.31	9.45	8.24	8.28	8.78	8.79	9.50	9.96	---
WTR YR 1985 MEAN	8.95		HIGH	7.50	APR 3	LOW	10.31		SEP 30			

LOCATION.--Lat 40°36'53", long 81°32'18", Hydrologic Unit 05040001, 1.3 mi north of Strasburg.

Owner: Everett Waltz.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 4 in., depth 23 ft, cased.

**INSTRUMENTATION.**--Type F continuous recorder.

**DATUM.**--Elevation of land-surface datum is 928.24 ft above National Geodetic Vertical Datum of 1929. Measuring

point: Floor of instrument shelter 0.90 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 15.51 ft below land-surface datum, Nov. 20-22, 1982; minimum daily low, 6.64 ft below land-surface datum, July 14, 1969.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.22	14.58	14.21	13.41	13.74	12.25	11.92	12.49	12.78	13.25	14.17	14.83
2	14.21	14.59	14.23	13.38	13.76	12.13	---	12.50	12.84	13.27	14.21	14.84
3	14.19	14.58	14.24	13.33	13.78	12.07	---	12.48	12.87	13.31	14.24	14.84
4	14.21	14.56	14.25	13.27	13.80	12.01	---	12.45	12.89	13.34	14.27	14.88
5	14.24	14.54	14.26	13.27	13.82	12.04	---	12.50	12.92	13.38	14.29	14.89
6	14.26	14.49	14.27	13.27	13.84	12.06	---	12.55	12.97	13.39	14.32	14.92
7	14.28	14.46	14.28	13.28	13.87	12.05	---	12.60	13.00	13.42	14.34	14.93
8	14.29	14.43	14.29	13.33	13.89	12.06	---	12.65	13.04	13.44	14.37	14.95
9	14.31	14.41	14.30	13.35	13.92	12.06	---	12.68	13.08	13.46	14.39	14.97
10	14.33	14.40	14.31	13.35	13.93	12.06	---	12.72	13.13	13.51	14.42	15.00
11	14.34	14.31	14.31	13.40	13.94	12.06	---	12.77	13.17	13.53	14.45	15.01
12	14.35	14.17	14.25	13.41	13.94	12.04	---	12.82	13.17	13.55	14.48	15.03
13	14.37	14.08	14.15	13.41	13.96	12.00	---	12.88	12.96	13.59	14.50	15.04
14	14.39	14.06	14.07	13.47	13.96	11.88	---	12.92	12.70	13.61	14.53	15.06
15	14.42	14.03	13.97	13.51	13.96	11.86	---	12.94	12.69	13.64	14.55	15.08
16	14.43	14.02	13.88	13.53	13.95	11.84	---	12.95	12.72	13.68	14.56	15.09
17	14.44	14.02	13.80	13.53	13.93	11.84	---	12.96	12.73	13.72	14.56	15.11
18	14.45	14.02	13.77	13.56	13.93	11.88	---	12.97	12.77	13.75	14.57	15.13
19	14.46	14.03	13.75	13.60	13.93	11.90	---	12.98	12.81	13.78	14.59	15.15
20	14.48	14.04	13.74	13.60	13.94	11.98	---	13.01	12.86	13.81	14.61	15.16
21	14.49	14.06	13.73	13.58	13.94	12.00	---	13.06	12.90	13.84	14.63	15.18
22	14.49	14.06	13.69	13.56	13.94	12.03	---	13.08	12.94	13.85	14.65	15.20
23	14.49	14.07	13.68	13.55	13.73	12.07	---	13.12	12.93	13.86	14.67	15.22
24	14.50	14.08	13.63	13.53	13.21	12.13	---	13.15	12.94	13.88	14.68	15.23
25	14.51	14.11	13.63	13.60	12.87	12.19	---	13.19	12.97	13.93	14.71	15.24
26	14.53	14.12	13.62	13.61	12.62	12.21	---	13.23	13.01	13.96	14.73	15.24
27	14.55	14.14	13.62	13.61	12.45	12.24	---	13.28	13.05	13.99	14.75	15.24
28	14.56	14.16	13.62	13.65	12.34	12.30	---	13.27	13.09	14.01	14.77	15.25
29	14.56	14.17	13.61	13.68	---	12.30	---	12.96	13.13	14.04	14.79	15.28
30	14.57	14.18	13.61	13.70	---	12.24	12.44	12.79	13.18	14.10	14.82	15.30
31	14.58	---	13.53	13.72	---	12.11	---	12.74	---	14.14	14.82	---



## GROUND-WATER RECORDS

327

## TUSCARAWAS COUNTY--Continued.

403823081324200. Local number, TU-5.

LOCATION.--Lat 40°38'23", long 81°32'42", Hydrologic Unit 05040001, Sugar Creek well field near Strasburg.

Owner: Canton Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 937.93 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 12.68 ft below land-surface datum, Feb. 14, 24, 1977; minimum daily low, 1.05 ft below land-surface datum, July 9, 1969.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.86	9.00	7.95	6.71	8.49	4.42	4.30	6.89	7.35	7.66	9.50	9.47
2	8.67	8.99	7.85	6.69	8.45	4.40	3.90	7.16	7.41	7.50	9.38	9.34
3	8.72	8.88	7.87	6.82	---	3.70	4.24	7.14	7.12	7.98	9.42	9.86
4	8.44	8.08	8.44	6.72	---	4.45	4.49	7.15	7.11	7.73	9.20	10.10
5	8.60	8.29	8.48	6.81	---	4.65	4.50	7.16	7.16	7.60	9.50	10.04
6	8.30	8.31	8.50	6.78	---	5.17	4.49	7.03	7.36	7.05	9.50	10.32
7	8.26	8.63	8.84	7.14	---	4.75	4.58	7.12	7.16	7.18	9.78	10.34
8	8.47	8.73	8.58	7.22	---	4.88	4.60	7.47	6.87	7.80	9.45	10.41
9	8.57	8.73	8.70	7.46	---	5.02	5.20	7.49	6.70	8.14	9.72	10.37
10	8.34	8.60	8.99	7.61	---	4.86	5.14	7.91	7.01	7.83	9.78	10.60
11	8.43	8.02	9.00	7.33	9.13	5.43	5.13	7.76	7.28	7.82	9.76	10.59
12	8.84	7.83	8.68	7.25	9.13	5.47	5.07	7.68	6.87	8.44	9.70	10.60
13	8.39	7.84	8.19	---	9.18	5.03	4.39	7.74	5.72	8.04	9.84	10.68
14	8.21	8.00	7.86	---	8.98	5.05	4.46	8.15	5.54	7.90	9.83	10.53
15	8.34	8.05	7.90	---	---	4.68	4.66	8.00	5.43	8.18	10.11	10.09
16	8.51	8.11	7.58	---	9.00	4.72	4.99	7.68	5.64	8.50	9.74	10.65
17	8.56	7.96	7.70	---	8.87	4.80	5.03	7.90	5.75	8.52	9.79	10.78
18	8.43	7.74	7.74	---	9.07	4.91	5.82	7.13	5.97	8.81	9.80	10.95
19	8.43	7.72	7.58	---	9.29	4.96	6.24	6.88	6.39	9.01	9.35	10.98
20	8.47	7.90	7.77	---	9.08	5.29	6.07	7.32	6.42	8.94	9.87	10.85
21	8.80	8.14	7.86	---	9.30	5.68	5.84	7.44	6.65	8.53	9.74	11.22
22	8.83	---	7.50	8.15	9.32	5.89	6.05	7.76	6.84	8.69	9.56	11.22
23	9.37	7.69	7.33	8.30	9.21	5.79	6.04	7.85	6.31	8.65	10.01	11.10
24	9.43	8.22	7.51	7.99	7.99	5.12	6.52	7.96	6.69	8.89	10.02	11.06
25	9.45	7.58	7.13	---	6.52	5.33	6.96	7.82	7.13	9.02	9.56	10.97
26	9.52	7.87	7.44	8.28	6.24	5.45	6.94	7.52	6.99	9.23	9.78	10.95
27	9.15	8.06	7.28	---	5.12	5.40	7.03	7.74	7.40	8.99	9.96	10.83
28	8.58	8.03	7.45	---	4.73	5.84	6.41	7.45	7.70	9.11	10.08	10.61
29	8.85	8.63	7.29	---	---	6.05	6.58	7.00	7.73	9.01	9.93	10.70
30	8.87	8.72	7.09	8.32	---	5.61	6.74	7.23	7.70	9.35	10.03	10.99
31	9.18	---	6.92	8.47	---	4.83	---	7.33	---	9.43	9.79	---
MAX	9.52	---	9.00	---	---	6.05	7.03	8.15	7.73	9.43	10.11	11.22
WTR YR 1985 MEAN	7.83			HIGH	3.70	MAR 3	LOW	11.22	SEP 21	AND OTHERS		

## GROUND-WATER RECORDS

## UNION COUNTY

401826083255200. Local number, U-4.

LOCATION.--Lat 40°18'26", long 83°25'52", Hydrologic Unit 05060001, 2.6 mi southeast of Raymond.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 350 ft, cased to 37 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1,040 ft above National Geodetic Vertical Datum of 1929, from

topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.56 ft below land-surface datum, Oct. 9, 1983; minimum daily low, 19.32 ft below land-surface datum, Feb. 24, 1975.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	24.35	23.72	22.28	23.02	21.65	21.34	22.31	22.46	23.08	23.56	23.97
2	---	24.40	23.73	22.31	23.10	21.87	21.37	22.08	22.47	23.00	23.65	23.98
3	---	24.32	23.75	22.27	23.16	21.90	21.43	21.42	22.51	22.92	23.63	23.98
4	---	24.18	23.83	22.14	23.16	21.74	21.43	21.47	22.53	22.87	23.63	23.97
5	---	23.95	23.81	22.32	23.04	21.85	21.41	21.48	22.52	22.88	23.60	23.99
6	---	24.02	23.73	22.32	22.99	21.94	21.24	21.52	22.59	22.86	23.58	24.03
7	---	24.05	23.73	22.32	23.09	21.90	21.35	21.66	22.57	22.89	23.57	24.09
8	---	24.07	23.72	22.56	23.14	21.76	21.44	21.78	22.53	22.86	23.53	24.11
9	24.42	24.01	23.74	22.61	23.14	21.83	21.58	21.80	22.57	22.88	23.56	24.07
10	24.45	23.84	23.69	22.58	23.07	21.84	21.59	21.81	22.66	22.92	23.57	24.10
11	24.47	23.65	23.70	22.61	22.90	21.78	21.64	21.85	22.63	23.03	23.68	24.20
12	24.45	23.72	23.39	22.66	22.67	21.48	21.70	21.89	22.59	23.03	23.70	24.25
13	24.38	23.79	23.40	22.58	22.77	21.50	21.71	22.03	22.60	23.08	23.71	24.33
14	24.32	23.83	23.34	22.56	22.79	21.62	21.68	22.08	22.62	23.12	23.73	24.38
15	24.30	23.69	23.09	22.81	22.78	21.76	21.67	22.06	22.64	23.12	23.71	24.32
16	24.36	23.81	23.02	22.81	22.75	21.73	21.87	22.04	22.59	23.25	23.73	24.28
17	24.44	23.90	23.03	22.61	22.90	21.79	21.95	21.93	22.60	23.30	23.73	24.25
18	24.46	23.78	23.13	22.59	22.89	21.89	21.89	22.00	22.57	23.32	23.73	24.32
19	24.37	23.92	23.07	22.79	22.84	21.89	21.94	21.98	22.66	23.31	23.78	24.37
20	24.45	24.03	23.12	22.85	22.81	22.01	22.00	22.02	22.75	23.31	23.81	24.30
21	24.43	24.05	23.09	22.85	22.81	22.04	22.07	22.13	22.77	23.30	23.84	24.29
22	24.47	24.03	22.91	22.85	22.66	21.97	22.06	22.14	22.80	23.34	23.86	24.30
23	24.50	23.93	22.93	22.86	21.62	21.99	22.06	22.13	22.82	23.40	23.88	24.31
24	24.49	23.88	22.96	22.74	21.19	22.03	22.02	22.19	22.85	23.41	23.83	24.36
25	24.50	23.92	23.14	22.87	21.40	22.22	22.12	22.18	22.89	23.45	23.81	24.38
26	24.42	23.92	23.16	23.01	21.45	22.25	22.14	22.20	22.88	23.40	23.88	24.30
27	24.43	23.91	23.04	22.89	21.71	22.09	22.22	22.23	22.93	23.52	23.97	24.39
28	24.39	23.79	22.98	22.91	21.73	22.00	22.32	22.33	22.92	23.48	23.99	24.50
29	24.34	23.67	22.93	22.96	---	22.14	22.36	22.35	22.97	23.51	23.93	24.50
30	24.37	23.56	22.90	22.95	---	22.14	22.32	22.32	23.07	23.58	23.85	24.43
31	24.43	---	22.48	22.97	---	21.75	---	22.28	---	23.52	23.91	---
MAX	---	24.40	23.83	23.01	23.16	22.25	22.36	22.35	23.07	23.58	23.99	24.50

WTR YR 1985 MEAN 23.01 HIGH 21.19 FEB 24 LOW 24.50 OCT 23 AND OTHERS

## GROUND-WATER RECORDS

329

## VINTON COUNTY

3914520 82282900. Local number, V-1.

LOCATION.--Lat 39°14'52", long 82°28'29", Hydrologic Unit 05090101, State Highway garage in Vinton.

Owner: Vinton County School Board.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 218 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 730 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring Point: Top of platform 2.50 ft below land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 93.23 ft below land-surface datum, Apr. 12, 1979; minimum daily low, 49.55 ft below land-surface datum, Mar. 20, 1963.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84.57	83.99	83.31	83.44	83.07	83.05	82.19	82.88	82.77	83.12	83.75	83.47
2	84.63	83.98	83.33	83.44	83.20	83.08	82.21	82.66	82.70	83.10	83.90	83.52
3	84.48	83.97	83.34	83.41	83.25	83.09	82.18	82.76	82.78	83.16	83.94	83.48
4	84.55	83.74	83.51	83.16	83.19	82.93	82.20	82.73	82.92	83.07	83.84	83.43
5	84.61	83.62	83.55	83.10	83.07	83.16	82.06	82.72	82.99	83.15	83.73	83.47
6	84.62	83.84	83.32	83.10	83.14	83.18	82.23	82.48	83.18	83.15	83.52	83.54
7	84.47	83.90	83.34	82.73	83.28	83.18	82.27	82.59	83.11	83.18	83.55	83.71
8	84.43	83.96	83.43	82.80	83.35	83.03	82.44	82.93	82.98	83.17	83.51	83.71
9	84.38	83.84	83.43	82.88	83.44	82.94	82.45	83.03	82.96	83.19	83.51	83.60
10	84.43	83.58	83.19	82.85	83.39	83.01	82.46	83.01	82.94	83.20	83.58	83.69
11	84.56	83.42	83.33	82.59	83.09	82.84	82.45	82.95	83.04	83.34	83.56	83.86
12	84.58	83.59	83.20	82.64	83.06	82.70	82.58	82.90	83.03	83.46	83.72	83.79
13	84.33	83.62	83.48	82.49	83.00	82.70	82.60	82.82	83.17	83.47	83.68	83.78
14	84.25	83.60	83.64	82.31	83.08	82.78	82.47	82.89	83.36	83.48	83.91	83.77
15	84.17	83.56	83.78	82.63	83.10	82.73	82.35	82.87	83.32	83.42	83.82	83.55
16	84.25	83.61	83.76	82.65	83.01	82.77	82.47	82.68	83.14	83.57	83.72	83.47
17	84.44	83.73	83.73	82.30	83.28	82.59	82.58	82.52	83.10	83.77	83.72	83.72
18	84.44	83.53	83.90	82.20	83.32	82.61	82.40	82.54	82.95	83.81	83.59	83.78
19	84.20	83.39	83.89	82.20	83.10	82.67	82.45	82.59	82.91	83.83	83.59	83.77
20	84.29	83.85	83.91	82.35	83.21	82.73	82.35	82.62	83.10	83.85	83.59	83.67
21	84.12	83.87	83.94	82.40	83.21	82.83	82.73	82.63	83.01	83.76	83.64	83.53
22	84.09	83.74	84.05	82.42	83.13	82.83	83.05	82.67	83.00	83.59	83.59	83.54
23	84.12	83.74	84.14	82.63	83.09	82.86	83.09	82.57	83.01	83.72	83.59	83.55
24	84.12	83.60	83.98	82.71	82.98	82.64	82.85	82.54	82.86	83.78	83.50	83.70
25	84.15	83.60	84.15	82.95	83.14	82.72	82.79	82.74	83.02	83.69	83.41	83.74
26	84.13	83.47	84.13	83.16	83.14	82.73	82.79	82.60	83.07	83.65	83.39	83.55
27	84.13	83.53	84.08	83.01	83.26	82.50	82.83	82.56	83.07	83.77	83.48	83.44
28	84.10	83.40	83.93	83.08	83.27	82.39	82.80	82.62	83.12	83.73	83.52	83.57
29	83.95	83.40	83.77	83.31	---	82.34	82.78	82.62	83.06	83.72	83.55	83.44
30	84.00	83.24	83.68	83.31	---	82.33	82.90	82.58	83.08	83.80	83.41	83.36
31	84.01	---	83.65	83.06	---	82.24	---	82.50	---	83.76	83.55	---
MAX	84.63	83.99	84.15	83.44	83.44	83.18	83.09	83.03	83.36	83.85	83.94	83.86
WTR YR 1985 MEAN	83.29			HIGH	82.06	APR 5	LOW	84.63	OCT 2			

## WARREN COUNTY

LOCATION.--Lat 39°27'12", long 84°19'17", Hydrologic Unit 05080002, Union Rd., 2 mi east of Monroe.

**Owner:** Bob Proeschel.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

**WELL CHARACTERISTICS.**--Drilled unused artesian well, diameter 12 in., depth 121 ft, cased.

**INSTRUMENTATION.**--Type F continuous recorder

**DATUM.**--Elevation of land-surface datum is 660 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

REMARKS.--Station operated by Ohio Department  
PERIOD OF RECORD.--March 1972 to current year

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 44.60 ft below land-surface datum, Oct. 29, 1983; minimum daily low, 17.70 ft below land-surface datum, Apr. 30, 1975.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.55	39.80	39.45	38.30	38.00	37.35	37.75	37.35	37.15	37.55	37.85	39.15
2	39.40	40.10	39.05	38.60	37.90	37.75	37.90	37.45	37.05	37.30	37.95	38.85
3	39.25	39.85	39.35	38.30	38.05	37.65	37.65	37.75	37.20	37.20	38.00	38.65
4	39.45	39.65	39.35	37.95	37.80	37.25	37.50	37.65	37.10	37.15	37.90	38.75
5	39.55	39.65	39.20	38.10	37.35	37.95	37.40	37.25	37.00	37.20	38.00	38.85
6	39.70	39.85	39.10	38.00	37.70	38.10	37.75	37.30	37.10	37.15	38.00	39.05
7	39.60	40.00	39.25	37.85	37.95	37.80	37.65	37.55	36.75	37.35	37.75	39.15
8	39.55	39.90	38.95	38.25	38.10	37.70	37.95	37.55	36.85	37.20	37.95	39.15
9	39.70	39.70	39.05	38.35	37.80	37.90	38.00	37.50	36.85	37.30	38.15	39.15
10	39.75	39.40	39.10	37.85	37.45	37.65	37.90	37.50	36.95	37.35	38.15	39.25
11	39.75	39.85	39.05	38.15	37.25	37.25	37.70	37.30	36.85	37.45	38.25	39.40
12	39.70	39.85	38.70	38.10	37.30	37.70	37.75	37.35	36.90	37.65	38.25	39.40
13	39.50	39.85	39.05	37.95	37.85	37.50	37.75	37.40	37.20	37.60	38.35	39.50
14	39.30	39.60	39.15	37.60	38.00	37.75	37.35	37.30	36.95	37.60	38.30	39.60
15	39.60	39.45	39.25	38.00	37.95	37.80	37.35	37.10	36.70	37.65	38.20	39.40
16	39.70	39.70	38.90	37.85	37.90	37.75	37.60	37.00	36.70	37.80	38.45	39.40
17	39.65	39.55	38.90	37.55	38.15	37.65	37.75	37.00	36.70	37.85	38.35	39.50
18	39.80	39.35	39.10	37.55	38.15	37.85	37.65	37.15	36.80	38.00	38.35	39.60
19	39.75	39.70	38.70	37.65	38.15	37.70	37.65	37.00	36.80	38.10	38.40	39.70
20	39.70	39.85	38.75	38.05	38.15	37.65	37.85	37.25	36.95	37.95	38.50	39.60
21	39.65	39.85	38.55	37.80	38.05	37.95	37.85	37.20	37.05	37.70	38.55	39.80
22	39.95	39.80	38.75	37.90	37.90	37.80	37.65	37.10	36.95	37.75	38.70	39.80
23	40.30	39.35	38.70	38.05	37.80	37.75	37.65	37.05	37.05	38.05	38.70	39.80
24	40.10	39.30	38.90	37.70	37.90	37.65	37.35	37.05	37.00	38.00	38.50	39.90
25	40.00	39.25	39.05	37.80	37.80	38.05	37.50	37.15	37.15	37.95	38.45	39.70
26	40.00	39.30	39.00	38.15	37.65	38.05	37.75	37.10	37.20	38.00	38.55	39.95
27	39.60	39.15	38.75	37.90	38.05	37.80	37.55	37.10	37.35	37.95	38.70	40.20
28	39.65	39.25	38.45	37.90	37.90	37.55	37.60	37.05	37.15	37.95	38.60	40.25
29	40.00	39.20	38.40	37.80	---	---	37.75	37.85	37.15	37.30	38.10	38.55
30	39.95	38.85	38.60	---	---	---	37.85	37.55	37.10	37.50	38.15	38.70
31	40.00	---	38.35	---	---	---	37.45	---	36.75	---	38.00	---
MAX	40.30	40.10	39.45	---	38.15	38.10	38.00	37.75	37.50	38.15	38.80	40.30
WTR YR 1985 MEAN	38.27		HIGH		36.70	JUN 15 AND OTHERS			LOW	40.30	OCT 23 AND OTHERS	



## GROUND-WATER RECORDS

331

## WASHINGTON COUNTY

392553081281600. Local number, WA-2.

LOCATION.--Lat 39°25'53", long 81°28'16", Hydrologic Unit 05040004 near county fairgrounds north of Marietta.

Owner: Marietta Water Dept.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth, 50 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 605 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 35.60 ft below land-surface datum, Feb. 10, 12, 1985; minimum daily low, 18.72 ft below land-surface datum, June 28, 1972.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.00	33.47	32.65	30.44	---	30.50	25.75	32.25	31.70	33.25	33.25	32.85
2	32.90	33.45	32.46	30.48	---	30.65	25.05	32.35	31.60	33.25	33.30	---
3	33.10	33.47	32.75	30.57	---	30.40	25.65	32.05	32.05	33.30	33.20	32.60
4	33.02	33.32	32.69	30.88	---	30.35	26.60	31.75	32.05	---	33.00	33.10
5	33.12	33.40	32.83	31.25	---	30.45	26.80	31.55	32.35	---	33.05	33.20
6	33.09	33.15	32.93	31.48	---	30.45	27.45	31.85	32.35	---	33.00	33.20
7	32.90	32.96	32.92	31.89	---	30.55	27.70	31.75	32.50	---	32.95	33.25
8	32.99	33.03	33.10	32.35	35.55	30.45	28.15	32.35	32.65	---	32.85	33.15
9	32.70	33.06	33.23	32.37	35.55	30.65	28.30	32.35	32.35	33.05	32.90	33.25
10	33.03	32.96	33.34	32.49	35.60	30.40	28.65	32.35	32.85	32.85	32.75	33.15
11	33.19	32.39	33.15	32.84	35.50	30.35	29.45	32.45	32.90	32.50	32.60	33.15
12	33.19	32.08	33.01	32.99	35.60	29.95	29.45	32.50	32.85	32.30	32.70	33.20
13	32.99	31.91	33.09	32.99	35.40	28.55	29.85	32.60	32.60	32.45	32.70	33.30
14	32.73	32.05	33.06	33.05	35.45	27.30	30.25	32.80	32.55	32.40	32.55	33.20
15	32.96	32.34	32.80	33.16	35.45	28.50	30.30	32.55	32.50	32.25	32.55	33.15
16	33.06	32.31	32.62	---	35.40	28.95	30.70	32.90	32.45	31.85	32.45	33.15
17	32.99	32.49	32.58	---	35.35	29.10	30.90	32.80	32.60	32.05	32.55	33.25
18	33.18	32.25	32.58	---	35.40	29.75	30.75	32.75	32.55	32.05	32.30	33.25
19	33.36	32.24	32.77	---	35.40	30.10	31.15	32.55	32.85	32.30	32.10	33.40
20	33.38	32.63	32.72	---	35.35	30.40	31.45	32.75	32.70	32.35	32.10	33.45
21	33.20	32.62	32.51	---	35.35	30.70	31.35	32.60	33.10	32.35	32.55	33.40
22	33.19	32.60	31.89	---	35.20	31.05	31.75	32.65	33.00	32.25	32.45	33.50
23	33.12	32.61	31.56	---	34.25	31.35	31.80	32.80	32.85	32.95	32.30	33.45
24	33.25	32.65	31.63	---	33.00	31.60	31.90	32.80	32.95	33.00	32.20	33.50
25	33.15	32.62	31.44	---	32.05	31.70	32.00	32.85	32.85	33.05	32.00	33.40
26	33.20	32.93	31.23	---	31.00	31.25	32.15	32.95	32.95	33.10	32.05	33.40
27	33.18	32.83	31.34	---	30.75	31.40	32.05	32.70	33.00	33.00	32.20	33.45
28	33.18	32.81	31.20	---	30.65	31.45	32.05	32.75	33.20	33.05	32.50	33.45
29	33.05	32.59	31.33	---	---	31.20	32.20	32.60	33.25	33.05	32.65	33.45
30	33.06	32.54	31.09	---	---	30.30	32.20	32.85	33.25	33.20	32.75	33.45
31	32.93	---	30.58	35.08	---	27.15	---	32.60	---	33.30	32.75	---
MAX	33.38	33.47	33.34	---	---	31.70	32.20	32.95	33.25	---	33.30	---
WTR YR 1985 MEAN	32.32		HIGH		25.05	APR 2	LOW	35.60	FEB 10 AND OTHERS			

## GROUND-WATER RECORDS

## WAYNE COUNTY

404655081553200. Local number, WN-3.

LOCATION.--Lat 40°46'55", long 81°55'32", Hydrologic Unit 05040003, OARDC-OSU Experiment Station near Wooster.

Owner: OARDC-OSU.

AQUIFER.--Shale of Mississippian Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 20 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 1040 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 16.17 ft below land-surface datum, Jan. 27, 29, 1956; minimum daily low, 10.46 ft below land-surface datum, Feb. 10-11, 1985.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.17	12.44	13.92	11.72	14.28	12.38	11.21	13.95	12.23	13.80	14.01	12.31
2	13.93	12.46	13.99	11.74	14.33	12.38	11.42	---	12.43	13.85	14.01	12.47
3	13.79	12.08	14.01	12.06	14.36	12.41	11.69	---	12.59	13.85	14.01	12.62
4	13.85	12.21	14.03	12.15	14.39	12.49	11.98	---	12.70	13.77	14.02	12.78
5	13.92	11.53	14.05	12.27	14.42	12.57	11.94	---	12.77	13.75	14.04	12.93
6	13.99	12.01	14.07	12.41	14.46	12.63	11.74	---	12.88	13.74	14.04	13.06
7	14.02	12.21	14.10	12.54	14.49	12.69	11.91	---	13.00	12.66	14.05	13.18
8	14.02	12.41	14.13	12.68	14.53	12.78	12.04	---	13.11	12.83	14.05	13.29
9	14.02	12.57	14.15	12.84	14.55	12.88	12.15	---	13.19	13.00	14.02	13.41
10	14.04	11.70	14.17	12.97	14.56	12.95	12.28	---	13.26	13.07	14.00	13.54
11	14.06	11.75	12.23	13.10	14.56	12.95	12.36	---	13.28	13.15	14.01	13.61
12	14.08	12.04	11.96	13.22	14.51	11.61	12.49	---	11.54	13.27	14.02	13.73
13	14.11	12.20	12.02	13.30	14.47	11.99	12.59	---	11.87	13.40	14.03	13.85
14	14.14	12.36	12.00	13.38	14.44	12.22	12.63	---	12.08	13.52	14.04	13.94
15	14.16	12.50	11.88	13.50	14.42	12.40	12.82	---	12.25	13.54	14.05	14.00
16	14.19	12.64	12.08	13.63	14.40	12.54	12.92	---	12.36	13.55	11.59	14.02
17	14.22	12.80	12.23	13.70	14.38	12.73	13.02	---	12.49	13.63	11.97	14.04
18	14.25	12.95	12.39	13.77	14.34	12.87	13.12	---	12.62	13.72	12.17	14.05
19	14.28	13.08	12.54	13.86	10.46	13.00	13.21	---	12.75	13.81	12.29	14.08
20	14.31	13.23	12.69	13.95	10.61	13.16	13.28	---	12.82	13.88	12.45	14.15
21	14.34	13.36	12.81	14.02	10.92	13.27	13.36	---	12.92	13.89	12.56	14.18
22	14.34	13.48	12.81	14.04	11.17	13.37	13.43	---	13.04	13.78	12.71	14.20
23	14.34	13.59	12.81	14.06	11.39	13.42	13.49	---	13.07	13.73	12.91	14.21
24	14.28	13.69	12.89	14.08	11.80	13.49	13.55	---	13.14	13.78	13.05	14.23
25	14.24	13.78	13.01	14.10	12.04	13.59	13.60	---	13.24	13.83	13.05	14.25
26	14.22	13.86	13.15	14.13	12.11	13.65	13.67	13.03	13.34	13.87	13.09	14.17
27	14.23	13.93	13.25	14.15	12.22	13.68	13.76	---	13.44	13.87	13.21	14.18
28	14.24	13.96	13.32	14.17	12.32	13.68	13.83	---	13.55	13.91	13.31	14.20
29	14.24	13.93	13.38	14.20	---	11.28	13.88	11.74	13.64	13.94	13.40	14.22
30	12.02	13.86	13.13	14.23	---	10.82	13.92	11.95	13.73	13.98	12.13	14.23
31	12.26	---	11.62	14.25	---	11.07	---	12.08	---	14.01	12.08	---
MAX	14.34	13.96	14.17	14.25	14.56	13.68	13.92	---	13.73	14.01	14.05	14.25
WTR YR 1985 MEAN	13.22			HIGH	10.46	FEB 19	LOW	14.56	FEB 10	AND OTHERS		

## 333

404 80 20 81 583 100. Local number, WN-2A.

LOCATION.--Lat 40°48'02", long 81°58'31", Hydrologic Unit 05040003, in well field by Killbuck Creek near Wooster.

Owner: Wooster Water Dept.

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 65 ft, cased.

**INSTRUMENTATION.**--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 855 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 6.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 34.45 ft below land-surface datum, Feb. 17, 1972; minimum daily low, 2.35 ft below land-surface datum, Jan. 28, 1952.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
	MAXIMUM VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.55	32.21	31.25	30.45	32.64	23.55	25.26	26.07	26.87	28.55	30.24	30.72
2	31.77	32.15	30.55	30.95	32.12	23.57	24.54	25.88	25.81	28.80	30.54	30.27
3	31.83	31.99	31.61	31.20	32.23	23.65	24.52	26.27	26.67	28.81	30.53	31.09
4	31.79	31.06	31.49	31.34	32.47	24.30	24.30	25.97	26.86	28.10	30.05	31.64
5	31.64	31.75	31.77	31.42	32.80	24.65	23.19	25.28	26.99	28.18	30.26	31.71
6	31.37	31.97	31.73	30.59	33.01	24.93	23.79	26.02	27.04	27.31	30.30	31.93
7	30.69	32.08	31.59	31.15	33.18	25.13	23.52	26.19	27.03	27.85	30.49	31.95
8	31.47	32.04	31.48	31.27	33.26	25.10	23.95	26.28	27.16	28.22	30.44	31.70
9	31.86	32.08	31.46	31.45	33.26	23.69	24.15	26.52	26.90	28.85	30.65	31.95
10	31.92	31.70	31.82	31.51	32.81	24.36	24.12	26.60	27.35	28.95	30.69	32.28
11	32.03	30.93	32.14	31.66	33.00	24.84	24.37	26.34	27.35	28.88	29.99	32.39
12	31.87	31.63	32.53	31.26	33.26	25.15	24.36	26.17	27.54	28.60	30.75	32.41
13	31.60	31.89	32.64	31.30	33.23	24.85	24.11	26.93	27.52	28.44	31.35	32.22
14	30.75	32.09	32.72	31.49	33.34	25.08	23.94	27.09	27.27	27.75	31.55	31.87
15	31.64	32.16	32.60	31.74	33.51	25.34	24.43	27.06	26.97	28.86	31.26	31.24
16	31.77	32.27	32.00	31.90	33.50	24.68	24.75	26.80	26.09	29.11	31.22	32.02
17	31.87	32.23	32.16	31.98	32.89	24.17	24.84	27.02	26.77	29.07	31.14	32.14
18	31.85	31.08	32.37	31.98	33.26	24.17	24.90	26.58	27.33	29.33	30.36	32.40
19	31.93	31.74	32.40	31.56	33.57	24.17	24.91	26.04	27.53	29.62	30.81	32.99
20	31.81	31.87	32.27	31.53	33.71	25.60	24.43	27.35	27.50	29.39	31.08	33.09
21	30.81	31.99	32.25	31.43	34.00	25.52	24.47	27.65	27.56	27.87	31.08	33.04
22	31.80	31.75	31.89	31.70	34.03	25.46	25.25	27.93	27.69	29.20	31.27	32.90
23	31.87	30.67	31.33	32.00	33.94	24.74	25.33	28.16	27.19	29.44	31.48	32.55
24	32.11	30.30	31.24	32.28	32.44	24.88	25.45	27.78	27.42	29.38	31.00	32.97
25	31.99	30.19	30.66	32.37	30.60	25.68	25.49	27.34	27.79	29.78	30.51	33.01
26	32.03	31.09	31.09	31.75	26.63	25.88	25.19	26.99	28.00	29.88	31.02	33.01
27	31.80	31.39	31.64	31.97	24.07	25.90	25.10	27.18	28.29	29.51	31.41	33.01
28	31.37	31.54	31.77	32.17	23.23	25.98	24.54	27.44	28.66	28.73	31.60	32.68
29	31.83	31.81	31.65	32.34	---	26.17	23.36	27.48	28.66	29.80	31.62	32.30
30	32.26	31.53	30.82	32.60	---	25.10	25.78	27.20	28.09	30.09	31.68	32.74
31	32.23	---	30.93	32.76	---	25.21	---	27.32	---	30.40	31.25	---
MAX	32.26	32.27	32.72	32.76	34.03	26.17	25.78	28.16	28.66	30.40	31.68	33.09
WTR YR 1985	MEAN	29.52		HIGH	23.19	APR 5	LOW	34.03	FEB 22			

405745081510200. Local number, WN-7.

LOCATION.--Lat 40°57'45", long 81°51'02", Hydrologic Unit 05040001, in well field along Steele Ditch near Sterling.

Owner: Rittman Water Department

**AQUIFER.**--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 123 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 965 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1979 to current year

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.25 ft below land-surface datum, Jan. 1, 1984; minimum daily low, 5.38 ft below land-surface datum, Jan. 17, 1980.

WATER LEVEL (FEET)				WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985								
MAXIMUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.35	18.25	18.15	17.50	19.65	16.85	15.95	18.30	16.85	18.25	17.95	17.70
2	18.55	18.30	18.05	17.55	17.35	17.00	15.95	16.55	16.75	17.15	19.00	18.85
3	18.40	18.30	19.85	17.60	17.35	16.85	17.00	16.35	16.85	18.35	17.95	18.20
4	18.40	18.00	18.15	17.45	17.30	16.65	17.45	16.35	16.90	17.00	17.95	18.30
5	18.50	18.25	18.05	17.55	17.25	16.85	16.00	16.25	16.85	19.40	17.85	18.35
6	18.50	18.15	18.05	17.40	17.35	16.85	15.90	16.30	17.10	19.40	18.20	18.40
7	18.25	18.10	18.05	17.35	17.85	16.75	15.75	16.35	17.10	16.95	17.95	19.40
8	18.25	18.05	18.05	17.55	17.30	16.70	16.00	18.05	16.95	19.50	17.85	18.55
9	18.35	17.95	18.05	17.60	17.45	16.80	16.00	17.85	16.70	20.00	18.05	18.40
10	18.35	17.95	18.00	17.50	17.40	16.60	16.15	17.75	17.00	20.50	18.10	18.45
11	18.40	17.90	18.00	17.50	18.90	16.35	16.00	17.90	16.90	19.65	18.15	19.35
12	18.30	18.00	20.25	17.75	17.65	16.40	16.00	16.85	16.80	18.35	18.00	18.65
13	18.30	18.00	18.05	17.85	17.20	16.35	16.10	17.00	16.70	17.65	18.25	18.55
14	18.20	17.95	18.00	17.70	17.15	16.30	15.95	16.95	16.65	17.65	18.90	18.65
15	21.55	17.90	17.90	17.65	17.15	16.35	16.05	17.00	16.60	17.30	18.30	18.45
16	18.65	17.95	17.75	17.60	17.20	16.80	16.05	16.85	16.35	17.45	18.20	18.70
17	18.85	18.00	17.80	17.50	17.10	16.15	16.05	16.75	16.55	17.55	18.15	18.75
18	18.50	17.80	17.80	17.35	17.20	16.35	16.05	16.55	16.60	17.65	18.15	18.85
19	18.35	18.00	17.80	17.45	17.30	17.65	16.15	16.70	16.75	17.75	18.00	18.80
20	18.45	18.05	17.80	17.35	17.35	18.00	16.30	16.85	16.95	17.75	18.10	18.75
21	18.25	18.05	17.65	19.75	17.10	18.30	16.15	16.70	16.85	17.75	18.20	18.85
22	19.30	18.05	17.70	17.95	17.65	16.50	16.35	17.20	16.65	17.65	18.25	18.65
23	18.80	17.85	17.55	17.95	17.50	16.35	16.35	17.20	16.55	19.55	18.30	18.75
24	18.45	17.85	17.75	17.70	17.00	16.15	16.40	17.15	16.80	19.10	18.15	18.65
25	18.40	17.75	17.55	17.65	17.05	16.35	16.35	17.10	16.95	19.35	18.00	18.65
26	18.30	17.85	17.65	17.80	16.95	16.25	16.35	16.90	16.90	20.05	18.15	18.70
27	18.40	18.05	17.70	17.70	17.00	16.25	16.35	16.90	17.10	17.85	18.25	18.55
28	18.15	19.50	17.65	17.75	17.00	16.15	16.20	16.75	17.15	17.75	18.30	18.55
29	18.25	21.80	17.65	17.70	---	16.10	16.30	16.80	17.05	18.00	18.25	---
30	18.25	18.15	17.50	17.75	---	16.05	16.45	16.80	17.00	18.00	18.00	19.25
31	18.20	---	17.65	18.80	---	15.70	---	16.80	---	17.85	17.95	---
MAX	21.55	21.80	20.25	19.75	19.65	18.30	17.45	18.30	17.15	20.50	19.00	---
WTR YR 1985 MEAN	17.63		HIGH		15.70	MAR 31		LOW		21.80	NOV 29	



## GROUND-WATER RECORDS

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## WAYNE COUNTY--Continued

405805081462300. Local number, WN-6.

LOCATION.--Lat 40°58'05", long 81°46'23", Hydrologic Unit 05040001, Salt Street, Rittman.

Owner: Tenneco, Inc.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 180 ft, cased.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 960 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 92.80 ft below land-surface datum, July 21, 1971; minimum daily low, 69.87 ft below land-surface datum, Apr. 22, 1984.

## WATER LEVEL (FEET)

## WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.65	73.55	74.69	74.36	75.04	74.98	74.40	73.49	73.46	74.03	74.94	73.46
2	75.53	72.90	74.75	74.80	75.17	75.22	73.78	73.47	73.46	73.91	75.06	73.30
3	71.64	74.34	74.61	74.81	75.38	75.25	73.42	73.58	73.63	73.92	75.11	74.55
4	71.80	73.89	74.80	74.43	75.40	74.93	73.42	73.59	73.67	73.94	75.09	74.67
5	71.97	73.80	74.83	74.55	75.14	75.31	73.04	73.40	73.56	75.23	75.02	74.68
6	72.00	74.09	74.44	74.57	74.88	75.57	73.42	73.35	73.67	72.60	74.97	74.82
7	71.95	74.29	74.58	74.31	75.18	75.38	73.42	73.53	73.64	81.17	74.89	74.92
8	71.80	74.24	74.50	74.91	75.27	75.06	73.43	73.67	73.41	72.98	74.94	74.96
9	71.89	74.04	74.57	75.10	75.32	75.10	73.59	73.63	73.54	72.57	75.00	74.84
10	72.90	73.78	74.45	75.02	75.30	75.12	73.58	73.50	73.75	72.63	74.95	74.92
11	73.03	74.03	74.55	74.87	75.03	74.97	73.50	73.43	73.71	72.74	75.08	75.16
12	73.04	74.60	74.32	74.86	74.51	74.96	73.67	73.34	73.51	72.71	75.09	75.32
13	73.41	74.78	74.72	74.68	74.73	75.00	73.63	73.45	73.66	72.74	75.03	75.48
14	72.91	74.80	74.73	74.37	74.87	74.96	73.46	73.50	73.73	72.66	75.15	75.51
15	72.93	74.52	74.85	75.02	74.93	75.20	73.28	73.48	73.71	72.56	75.15	75.40
16	73.17	74.65	74.75	75.11	74.94	75.16	73.63	73.36	73.56	74.33	75.14	75.22
17	73.32	74.77	74.61	74.55	75.27	74.87	73.78	73.18	73.59	74.47	75.16	75.22
18	73.43	74.72	74.77	74.41	75.42	75.02	73.53	73.54	73.44	74.51	75.12	75.90
19	73.23	74.85	74.70	74.62	75.33	74.99	73.47	73.62	73.56	74.53	75.17	75.42
20	73.44	75.14	74.67	74.87	75.32	75.01	73.54	73.59	73.69	74.54	75.26	75.29
21	73.38	75.26	74.67	74.85	75.31	75.09	73.59	73.62	73.74	73.82	75.29	75.19
22	73.55	75.22	74.79	74.80	75.14	74.85	73.58	73.61	73.70	74.65	75.28	75.19
23	76.47	74.75	74.83	74.79	75.10	74.61	73.52	73.39	73.75	74.79	75.28	75.17
24	73.70	74.47	74.57	74.57	75.02	74.56	73.39	73.41	73.78	74.79	75.18	75.32
25	73.74	74.36	74.94	74.80	75.27	74.97	73.49	73.34	73.81	74.75	75.18	75.36
26	73.50	74.43	74.98	75.11	75.11	75.07	73.50	73.31	73.69	74.79	75.33	75.09
27	73.50	74.48	74.80	74.96	75.30	74.77	73.53	73.24	73.83	74.87	75.47	75.28
28	73.38	74.36	74.62	74.90	75.29	74.49	73.70	73.34	73.81	74.71	75.48	75.53
29	73.65	74.34	74.53	75.07	---	74.69	73.78	73.85	73.91	74.71	75.38	75.55
30	73.69	74.27	74.89	75.04	---	74.84	73.65	73.61	73.98	74.81	75.15	75.37
31	73.88	---	74.87	74.91	---	74.68	---	73.30	---	74.74	75.26	---
MAX	76.47	75.26	74.98	75.11	75.42	75.57	74.40	73.85	73.98	81.17	75.48	75.90
WTR YR 1985 MEAN	74.35		HIGH		71.64	OCT 3	LOW		81.17	JUL 7		

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## FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	$2.54 \times 10^1$ $2.54 \times 10^{-2}$	millimeters (mm) meters (m)
feet (ft)	$3.048 \times 10^{-1}$	meters (m)
miles (mi)	$1.609 \times 10^0$	kilometers (km)
<i>Area</i>		
acres	$4.047 \times 10^3$ $4.047 \times 10^{-1}$ $4.047 \times 10^{-3}$	square meters (m <sup>2</sup> ) square hectometers (hm <sup>2</sup> ) square kilometers (km <sup>2</sup> )
square miles (mi <sup>2</sup> )	$2.590 \times 10^0$	square kilometers (km <sup>2</sup> )
<i>Volume</i>		
gallons (gal)	$3.785 \times 10^0$ $3.785 \times 10^0$ $3.785 \times 10^{-3}$	liters (L) cubic decimeters (dm <sup>3</sup> ) cubic meters (m <sup>3</sup> )
million gallons	$3.785 \times 10^3$ $3.785 \times 10^{-3}$	cubic meters (m <sup>3</sup> ) cubic hectometers (hm <sup>3</sup> )
cubic feet (ft <sup>3</sup> )	$2.832 \times 10^1$ $2.832 \times 10^{-2}$	cubic decimeters (dm <sup>3</sup> ) cubic meters (m <sup>3</sup> )
acre-feet (acre-ft)	$1.233 \times 10^3$ $1.233 \times 10^{-3}$ $1.233 \times 10^{-6}$	cubic meters (m <sup>3</sup> ) cubic hectometers (hm <sup>3</sup> ) cubic kilometers (km <sup>3</sup> )
<i>Flow</i>		
cubic feet per second (ft <sup>3</sup> /s)	$2.832 \times 10^1$ $2.832 \times 10^1$ $2.832 \times 10^{-2}$	liters per second (L/s) cubic decimeters per second (dm <sup>3</sup> /s) cubic meters per second (m <sup>3</sup> /s)
gallons per minute (gal/min)	$6.309 \times 10^{-2}$ $6.309 \times 10^{-2}$ $6.309 \times 10^{-5}$	liters per second (L/s) cubic decimeters per second (dm <sup>3</sup> /s) cubic meters per second (m <sup>3</sup> /s)
million gallons per day	$4.381 \times 10^1$ $4.381 \times 10^{-2}$	cubic decimeters per second (dm <sup>3</sup> /s) cubic meters per second (m <sup>3</sup> /s)
<i>Mass</i>		
tons (short)	$9.072 \times 10^{-1}$	megagrams (Mg) or metric tons



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