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Water Resources Data
Ohio
Water Year 1986

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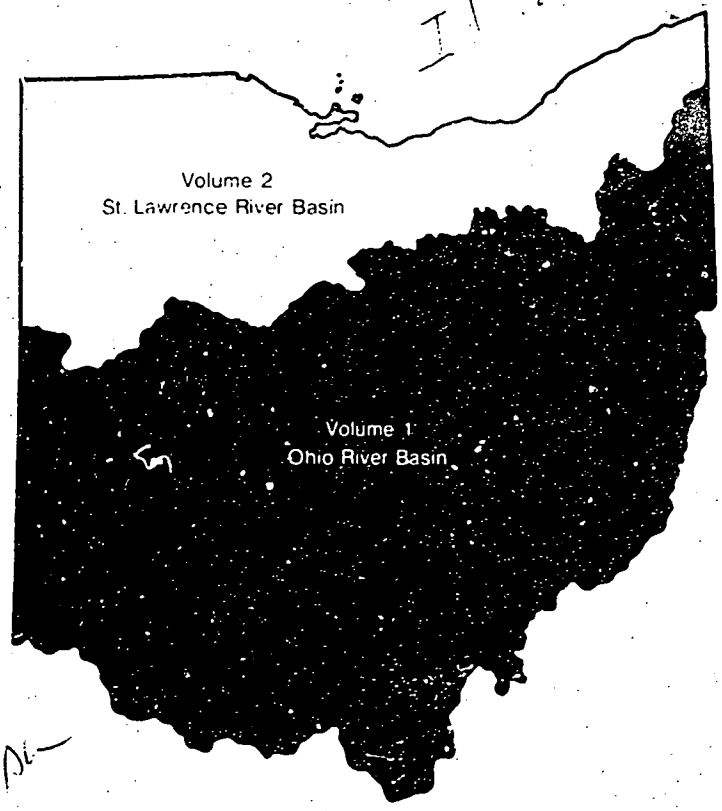
Volume 1. Ohio River Basin



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-86-1
Prepared in cooperation with the State of Ohio
and with other agencies

ORIGINAL 000001

CALENDAR FOR WATER YEAR 1986

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SEPTEMBER

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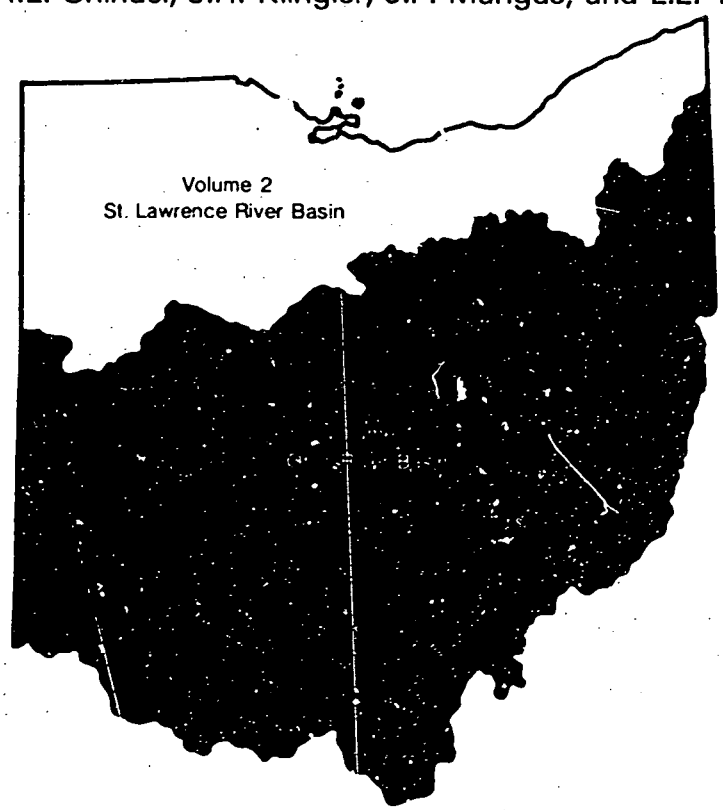
Water Resources Data
Ohio
Water Year 1986

Volume 1. Ohio River Basin

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



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Prepared in cooperation with the State of Ohio
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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

1987

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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 ech 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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16. Abstract (Limit: 200 words)

Water-resources data for the 1986 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 125 gaging stations, stage and contents at 4 lakes and reservoirs; water quality at 17 gaging stations, 100 wells, and 60 partial-record sites; and water levels at 948 observation wells. Also included are data from 59 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.

17. Document Analysis a. Descriptors
*Ohio, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rates, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperature, Sampling sites, Water levels, Water analyses, Streamflow, Water wells.

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(Letter after station name designates type of data: (b) biological, (c) chemical, (d) discharge, (e) contents and (or) elevation, (HBM) hydrologic bench mark, (m) microbiological, (NASQAN) National stream-quality accounting network, (r) radiochemical, (s) sediment, (t) temperature.)

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		ASHLAND COUNTY	
405303082170700	AS-2	Ashland (l)	197
405425082173000	AS-3	Jerome Fork (l)	198
		ATHENS COUNTY	
392004082071600	AT-2A	Athens (l)	199
392009082072200	AT-5	Athens (l)	200
		AUGLAIZE COUNTY	
403233083574500	AU-3	Southwest of New Hampshire (l)	201
		BELMONT COUNTY	
400118081082200	B-3	Mount Olive (l)	202
		BUTLER COUNTY	
391805084261600	BU-9	Northwest of Sharonville (l)	203
393202084241500	BU-15	Middletown (l)	204
391904084371000	BU-12	East of Ross (l)	205
392017084345100	BU-7	Fairfield (l)	206
392021084340300	BU-56	Fairfield (l)	207
392048084313100	BU-8	East of Hamilton (l)	208
392445084333100	BU-36	Hamilton (c)	209
392515084322100	BU-5	North of Hamilton (l)	210
392733084295000	BU-16	Southwest of Hamilton (l)	211
392939084231700	BU-3	Middletown (l)	212
393103084240900	BU-2	Middletown (l)	213
		CARROLL COUNTY	
403709081052800	C-1	North of Carrollton (l)	214
		CHAMPAIGN COUNTY	
400638083453900	CH-3	Urbana (l)	215
		CLARK COUNTY	
395639084012200	CL-9	New Carlisle (l)	216
395840083495200	CL-7	Northwest of Springfield (l)	217
		CLERMONT COUNTY	
		COSHOCTON COUNTY	
401256081525100	CS-3	North of Conesville (l)	218
		DARKE COUNTY	
400514084345700	D-2	East of Greenville (l)	219
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402126083040400	DL-3	Delaware (l)	220
		FAIRFIELD COUNTY	
394257082362900	F-6	Lancaster (l)	221
394544082271300	F-1	West Rushville (l)	222
395053082361900	F-5	Baltimore (l)	223
		FAYETTE COUNTY	
393153083322000	FA-1	West of Washington Court House (l)	224
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400101083021[illegible]	FR-10	Col[illegible] (l)	228

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Well Number	Local number	Location	Page
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383638082103300	G-2	East of Crown City (1)	229
		GREENE COUNTY	
394411083561300	GB-1	North of Xenia (1)	230
394425083551100	[illegible]-10	North of Xenia (1)	231
		HAMILTON COUNTY	
391003084291500	H-11	Cincinnati (1)	232
391101084172100	H-3	Southeast of Miamiville (1)	233
391201084281600	H-10	Cincinnati (1)	234
391214084470100	H-1	Southeast of Harrison (1)	235
391324084272500	H-9	Cincinnati (1)	236
391341084275300	H-8	Wyoming (1)	237
391442084262900	H-7	Evendale (1)	238
391608084254400	H-6	Glendale (1)	239
391733084392400	H-2	South of Ross (1)	240
391748084393800	H-19	Southwest of Venice (c)	241
391617084393300	H-4	Southwest of Ross (1)	242
		HARDIN COUNTY	
404218083503700	HN-1	Alger (1)	243
		HOCKING COUNTY	
393200082235300	HK-1	Logan (1)	244
		KNOX COUNTY	
402344082300700	K-1	Mt. Vernon (1)	245
		LICKING COUNTY	
		MADISON COUNTY	
395301083272200	M-2	London (1)	246
395357083304400	M-4	Northwest of London (1)	247
395740083255700	M-3	North of London (1)	248
		MAHONING COUNTY	
400042080453800	MA-1	Canfield (1)	249
		MARION COUNTY	
403413083170500	MN-4	Southeast of New Bloomington (1)	250
403443083230400	MN-1	Lakue (1)	251
403601083110400	MN-2	West of Marion (1)	252
		MEDINA COUNTY	
410120081431800	MD-3	Wadsworth (1)	[illegible]
		MERCER COUNTY	
402833084375200	MR-2	Coldwater (1)	254
		MIAMI COUNTY	
395948084085500	MI-3	Northeast of Tipp City (1)	255
400308084112900	MI-44	Troy (c)	256
		MONTGOMERY COUNTY	
393757084173000	MT-928	Miamisburg (c)	257
394012084151700	MT-58	West Carrollton (1)	258
394025084162800	MT-49	West Carrollton (1)	259
394425084113200	MT-3	Dayton (1)	260
394533084113800	MT-[illegible]	Dayton (1)	261
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395804081593200	MU-1A	Zanesville (1)	262

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Well Number	Local number	Location	Page
		PICKAWAY COUNTY	
393327082571600	PK-7	South of Circleville (1)	263
393402082572500	PK-4	South of Circleville (1)	264
393638082572300	PK-6	Northwest of Circleville (1)	265
393438083072200	PK-8	Williamsport (1)	266
		PIKE COUNTY	
390359083015100	PI-2	West of Piketon (1)	267
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391913082580500	RO-8	Chillicothe (1)	272
		SHELBY COUNTY	
401712084103500	SH-4	Sidney (1)	273
		STARK COUNTY	
404939081203800	ST-5A	Canton (1)	274
405051081244200	ST-28	Northwest of Canton (1)	275
405211081253500	ST-27	North Canton (1)	276
		SUMMIT COUNTY	
410141081315200	SU-4A	Akron (1)	277
		TRUMBULL COUNTY	
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		WILTON COUNTY	
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392712084191700	W-5	East of Monroe (1)	285
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392553081281600	WA-2	Marietta (1)	286
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405745081510200	WN-7	Near Sterling (1)	289
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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 125 streamflow-gaging stations, 19 miscellaneous sites, and peak flow information for 59 crest-stage partial-record stations; (2) stage and content records for 4 lakes and reservoirs; (3) water-quality data for 17 streamflow-gaging stations, 100 wells, and 60 partial-record sites; and (4) water levels for 946 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 4a, 4b, 4c, and 4d. Locations of observation wells are shown in figures 4e and 4f.

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 the Books and Open-File Reports Section, U.S. Geological Survey, Box 24525, Federal Center, Denver, CO 80225.

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-86-2." 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, W. W. Tyler, Director; Ohio Department of Transportation, W. J. Smith, Director; Miami Conservancy District, J. L. Pozelle, General Manager and Chief Engineer; City of Columbus Department of Public Service, G. Porenbaum, Director; City of Canton Water Department, J. D. Williams, Superintendent; Northeast Ohio Areawide Coordinating Agency, F. E. J. Pizzedaz, Director; Ross County, J. L. Kennard, Commissioner; Seneca County Soil and Water District, Gene Baites, Chief, Water Quality Laboratory; and University of Toledo, P. Gallegher. 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

Ohio is located in three physiographic provinces, each with its own distinctive surface-water characteristics. The topography of the Till Plains section of the Central Lowlands physiographic province (fig. 1) consists of gently rolling ground moraine with bands of terminal moraine and outwash-filled valleys. Glaciation altered the courses of most streams in this area. The Eastern Lake Plains section (fig. 1) consists of wide expanses of level or nearly level land interrupted only by the sporadic sandy ridges that are the last visible remnants of glacial-lake beaches. Much of the area was swamp prior to development, and marshes are still present along Lake Erie near Toledo. The Lexington Plains section of the Interior Low Plateau province (fig. 1) is characterized

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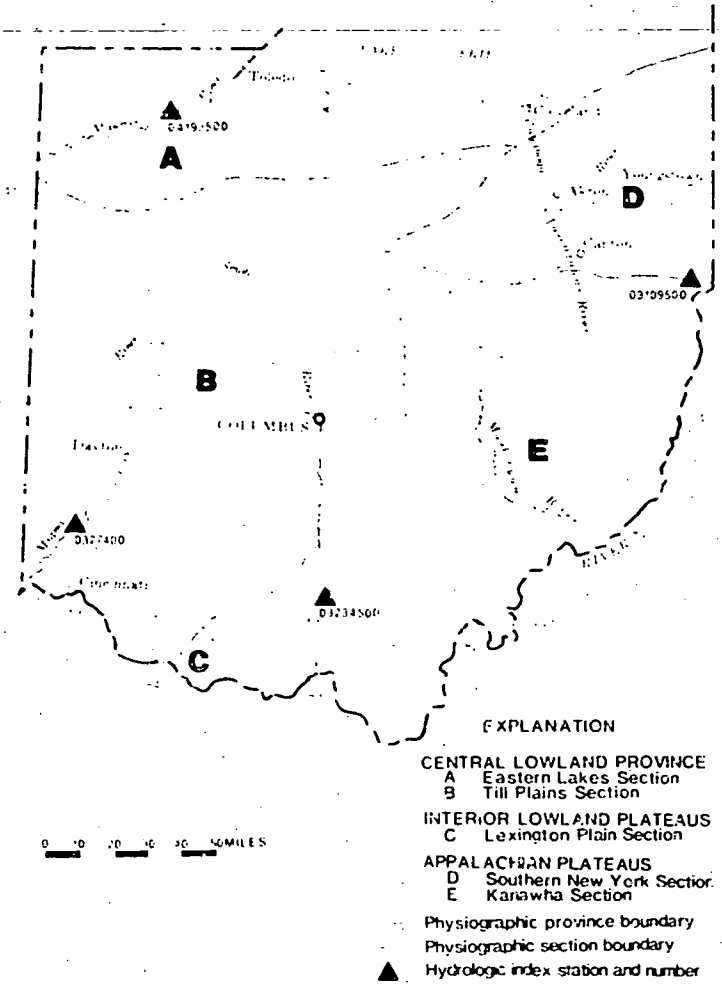

Figure 1.—Physiographic divisions and location of Hydrologic Index Stations.

by rolling terrain with isolated large hills and ridges. The "barbed" drainage pattern formed when small streams were captured as their headwaters cut back into the hills over time. Streams have carved the Kanawha section of the Appalachian Plateau province (fig. 1) into an intricate series of hollows and steep-sided ridges. Only the large streams in the section have any appreciable flood plain. In the southern New York section (fig. 1), successive waves of glaciation have subdued the relief, buried many preglacial valleys, and rerouted many streams.

Precipitation

The average annual precipitation in Ohio is about 38 inches. The rainfall decreases from around 42 inches on the southern border to about 32 inches in the northwest. An area of greater precipitation (up to 44 inches) in northeastern Ohio results from air masses that pick up moisture and heat from Lake Erie and subsequently release precipitation over a range of hills stretching northeastward from Cleveland.

Monthly precipitation typically is greatest from May through July and least in October, December, and February. Of the approximate 38 inches of average annual precipitation, about 10 inches runs off immediately, 2 inches is retained at or near the surface and evaporates or transpires, and 26 inches enters the ground. Of the 26 inches that enters the ground, 20 inches is retained in the unsaturated zone and is later lost by evapotranspiration. The remaining 6 inches reaches the water table. Of this 6 inches, 2 inches is eventually discharged to streams, and the rest is lost by evapotranspiration or consumptive use. Average runoff ranges from about 15 to 18 inches along the southern border to about 8 to 12 inches along most of the northern border, except in the northeast where runoff reaches 20 inches. The pattern of streamflow differs from the pattern of precipitation because of the contributions of snowmelt to streamflow in the early spring and the reduction in flows by evapotranspiration from June through September.

Surface Water

Streamflow

Streamflow-data-collection stations are distributed irregularly throughout the State, and tend to be concentrated on the main river systems. The stations sample a wide variety of conditions. The drainage areas range from 12 to 7,420 square miles, and cover a wide diversity of land uses, topographic conditions, and other physical conditions. The streamflow ranges from natural flow to highly regulated flow.

At the beginning of the 1986 water year, streamflow was normal[1] throughout the State, except for northwestern Ohio, where it was excesesive in response to above-normal precipitation. Record high rainfall for the month of November (225 to 426 percent of the monthly average) resulted in above-normal flow conditions Statewide that prevailed through December. Streamflow in January declined into the normal range throughout the State as precipitation fell to below normal. A return to above-average precipitation in February caused noticeable increases in streamflow, which was above normal for much of the State. Streamflow for most of the State declined into the normal and below-normal ranges from March through June, during which time precipitation was generally below average. Above-average rainfall in June and July resulted in above-normal flow conditions throughout much of the State, and caused serious flooding in northeastern Ohio in June. Streamflow in July remained normal to above normal, except in southeastern Ohio where streamflow was below normal in response to drought conditions that persisted throughout the summer. Streamflow declined seasonally into the normal and below-normal range in August with the exception of northwestern Ohio, where it remained above normal due to above-average precipitation. Above-average precipitation (117 to 214 percent of the monthly average) for much of the State in September resulted in above-normal streamflow Statewide, except for eastern Ohio, where it was in the normal to below-normal range.

These streamflow trends are reflected in graphical comparisons of monthly and annual mean discharges for the 1986 water year and the 1951-80 reference period at four Hydrologic Index Stations (fig. 3; station locations are shown in fig. 1).

Water Quality

Trace-element analyses of samples collected at the 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. Manganese concentrations exceeding 200 micrograms per liter were detected once in November, May, and July in the Hocking River below Athens.

Maumee River at Waterville, and Cuyahoga River at Independence--two of the three major streams that have U.S. Geological Survey Monitors at NASQAN sites--showed improvement in specific conductance during this water year compared to last water year. Dissolved oxygen concentration and pH remained about the same. The other major streams showed no trend in the analyses collected for the year.

Ground-Water Levels

Most of the ground-water observation wells in Ohio tap unconsolidated sand and gravel aquifers in buried-valley or watercourse systems associated with the State's principal streams. The observation-well network also includes some bedrock wells in areas where consolidated 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, which is the peak of the recharge season. The yearly water-level fluctuation due to climatic conditions in water-table and confined-aquifer wells is commonly 3 to 5 feet.

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[1] Normal is defined as flow between the 25th and 75th percentiles as measured during the base period 1951 through 1980.

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Ground-water levels were generally below normal[2] at the beginning of the 1986 water year as a result of lower than average precipitation the preceeding summer. However, record high rainfall for the month of November[3] resulted in rises to above-normal ground-water levels statewide. The above-normal ground-water levels persisted throughout most of the winter, although there were some declines in unconsolidated aquifers in response to below-average precipitation in December and January. Above-average precipitation in February stabilized ground-water levels, but below-average precipitation for most of the State for the last three months of the recharge period resulted in below-normal ground-water levels that persisted into the summer. Seasonal declines continued throughout the summer; generally, ground-water levels were below normal for the remainder of the water year.

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 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 1986 water year that began October 1, 1985, and ended September 30, 1986. 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.

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[2]For ground-water levels, "normal" is defined as being between the 25th and 75th percentiles of the range of values recorded during the reference period 1960-75.

[3]Highest monthly rainfall for any month on record.

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 indention in a "List of Stations" in the front of the report. Each indention represents one rank. This downstream order and system of indention 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 stations 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 indentification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 2.)

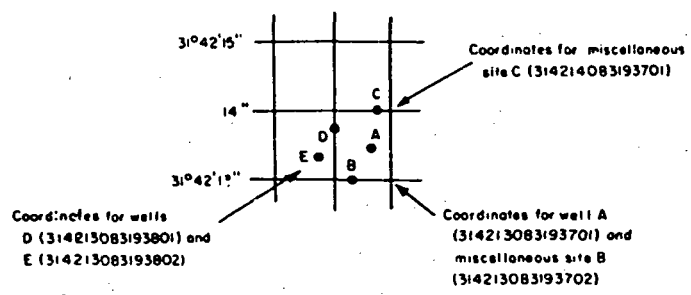

Figure 2 System for numbering wells and miscellaneous sites (latitude and longitude)

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

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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 for which data are given in this volume are shown in figure 4.

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 that trace continuous graphs of stage, or with digital recorders that 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 corresesponding 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;

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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 occured. 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 occuring 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.

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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 retreival, the data would be current and there would be no need to check because any published retreival 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^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three significant figures for more than 1,000 ft^3/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.

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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 that office upon request.

Information used in preparing 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 analylzed statistically. Information on availability of the unpublished information or on 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 figure 4.

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 is 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. 21-22 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.

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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.

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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 data 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 Nation's most important aquifers. Locations of the observation wells in this network in Ohio are shown in figure 4. Water-level data for specific projects are reported under those projects.

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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, which is provided for local needs.

Water-level measurements in this report are given in feet with reference to land-surface datum (LSD). 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.

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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 p. 21-22. 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

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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 ± 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 hours when incubated at 44.5°C ± 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 ± 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^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

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.

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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^3/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 that 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.

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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 ($CaCO_3$).

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, µg/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 kiligram (UG/KG, µg/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, µg/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, 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 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 (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.

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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:

Classification	Size (mm)	Method of analysis
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 (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{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).

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Milligrams of carbon per area or volume per unit time [mg C/(m^2/time)] for periphyton and macrophytes and [mg C/(m^3/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 [mg O_2/(m^2/time)] for periphyton and macrophytes and [mg O_2/(m^3/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, 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 occurences 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 microsiemens 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 microsiemens). 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.

Stage-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 emersed 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 filled with clean streamsize 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 hierarchial 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:

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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.

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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, Books and Open- File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (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."

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 Pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS-TWRI Book 3, Chapter B3. 1980. 106 pages.

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3-C1. *Fluvial sediment concepts* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge.* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations.* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply.* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics.* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy.* by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water.* by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples* edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments.* by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sedments,* by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

5-C1. *Laboratory theory and methods for sediment analysis.* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments.* by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

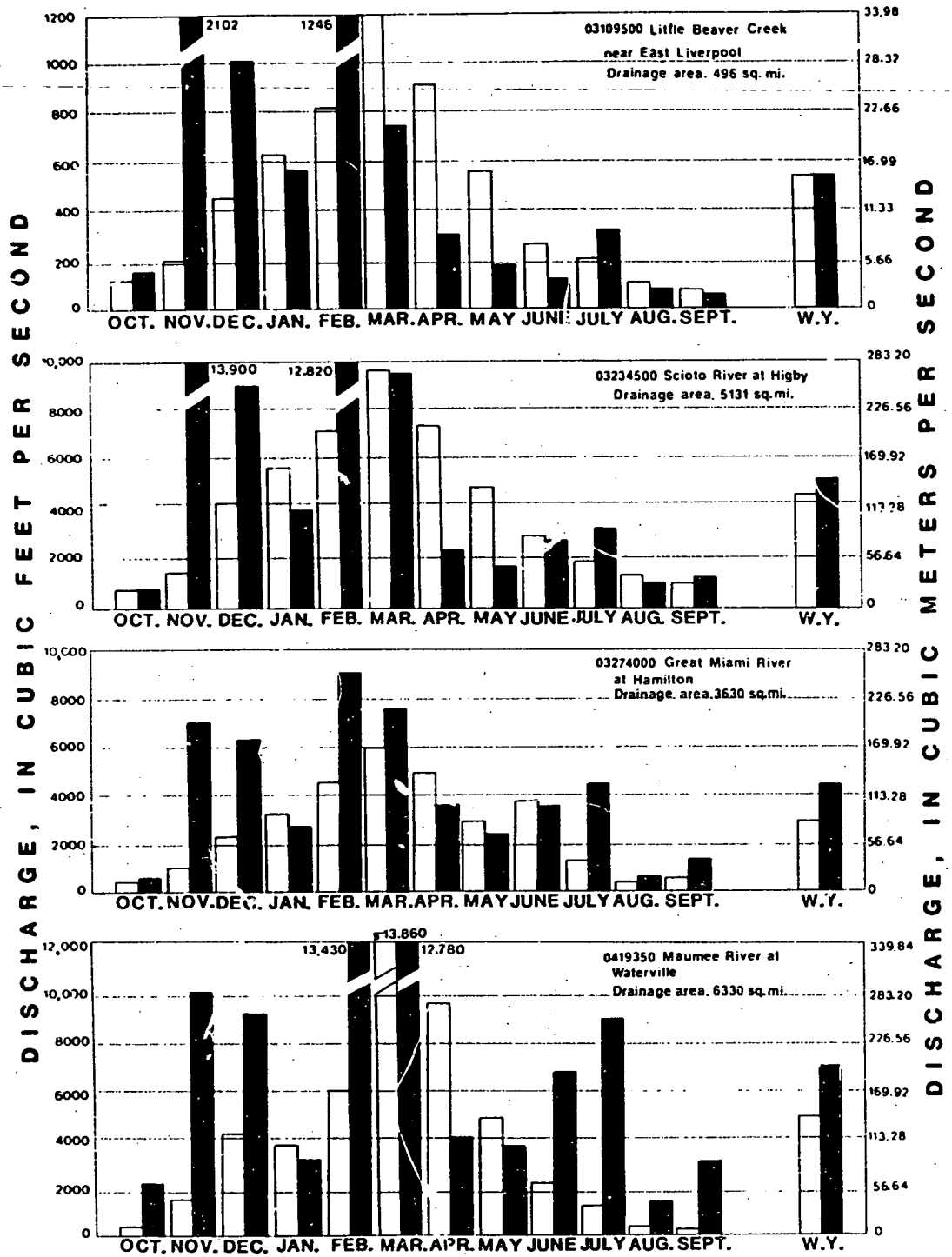
7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water.* by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels* by R. W. Schaffrannek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. *Methods of measuring water levels in deep wells* by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages

8-A2. *Installation and service manual for U.S. Geological Survey manometers* by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

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.



Median of monthly and yearly mean discharge for period 1951-80.

Monthy and yearly mean discharge for 1986 water year.

Figure 3.--Runoff during 1986 water year compared with median runoff for period 1951-80 for four representative gaging stations.

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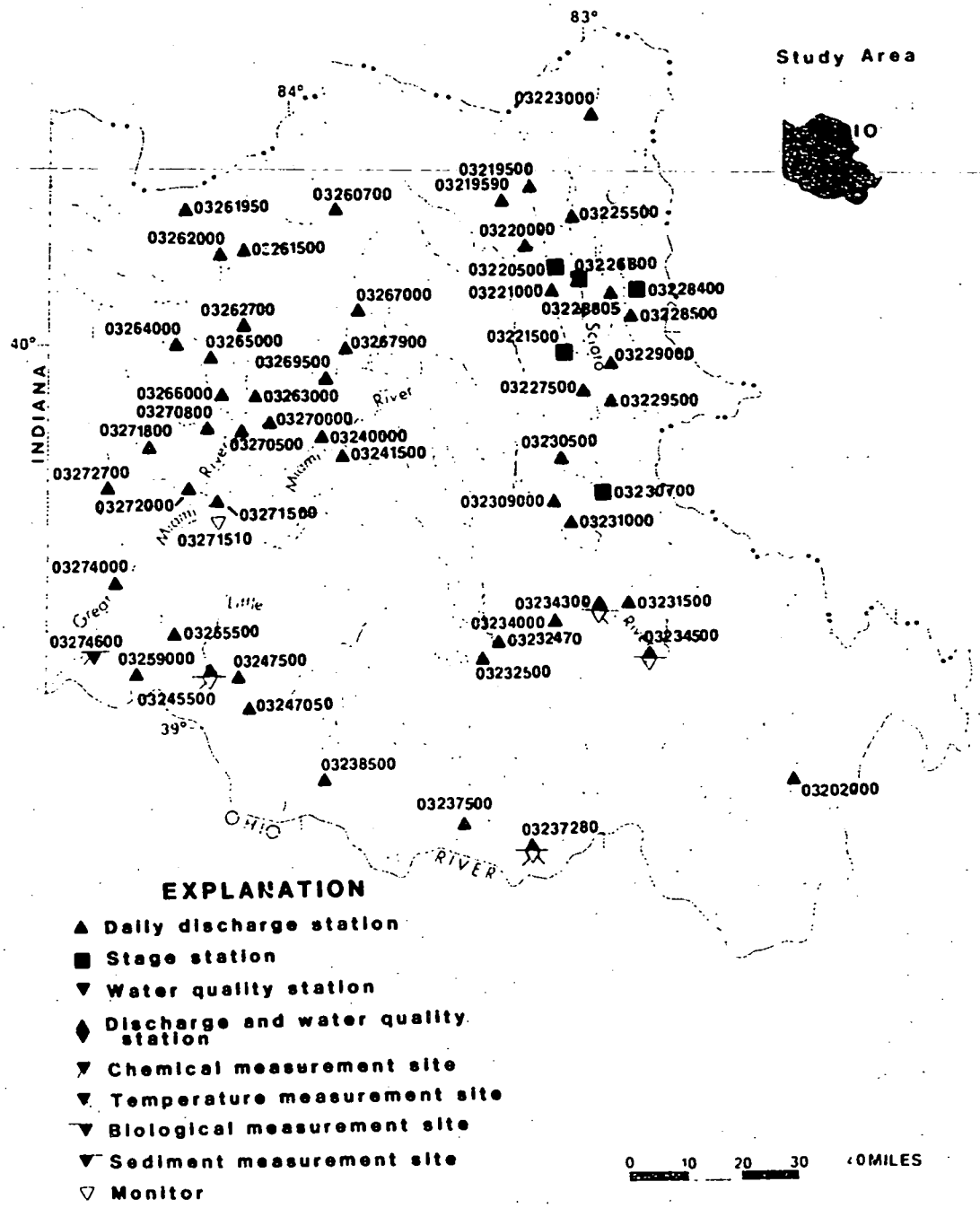
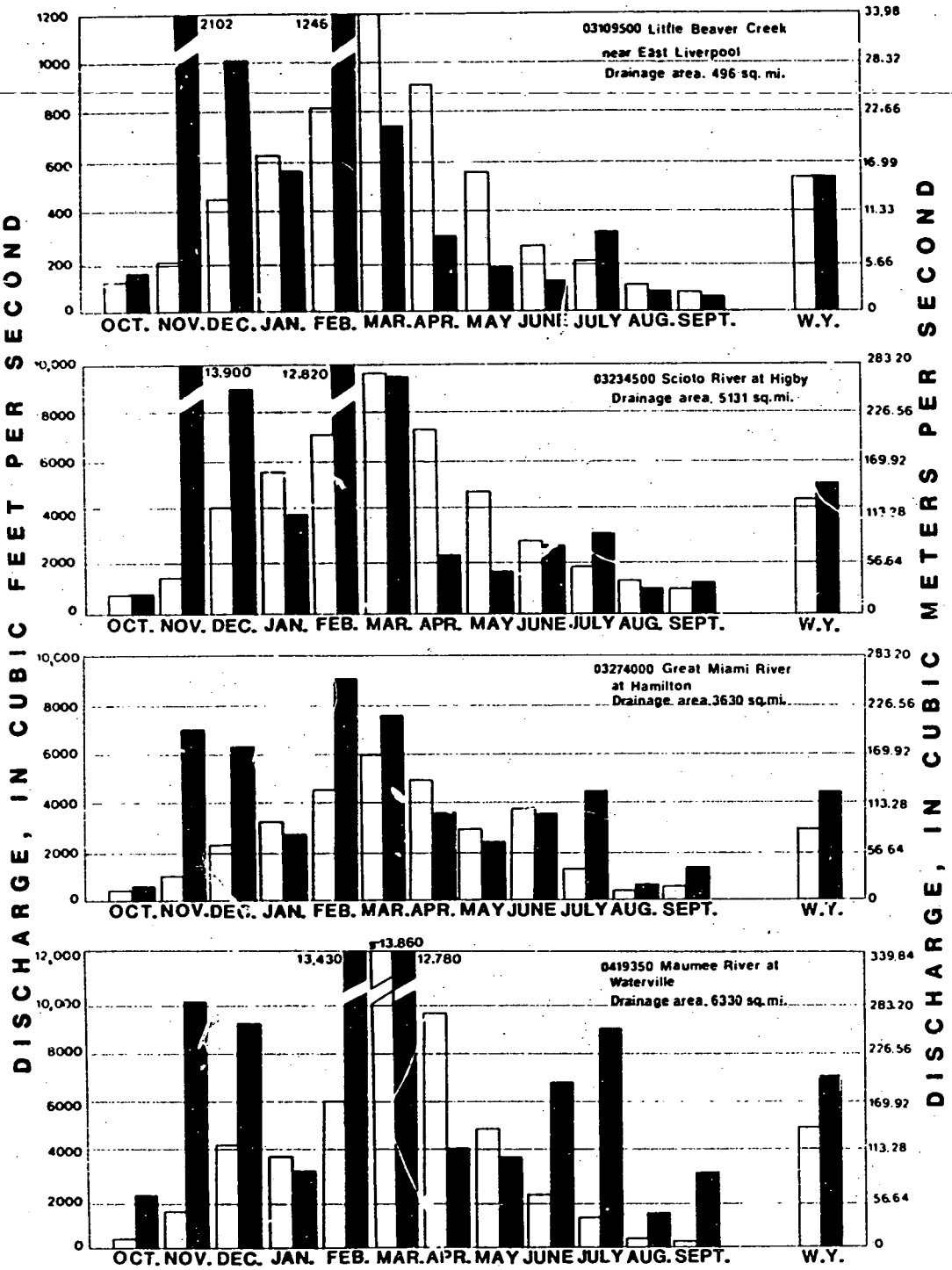


Figure 4a.--Location of data-collection stations excluding crest-stage and low-flow partial record sites.



Median of monthly and yearly mean discharge for period 1951-80.

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Figure 3.--Runoff during 1986 water year compared with median runoff for period 1951-80 for four representative gaging stations.

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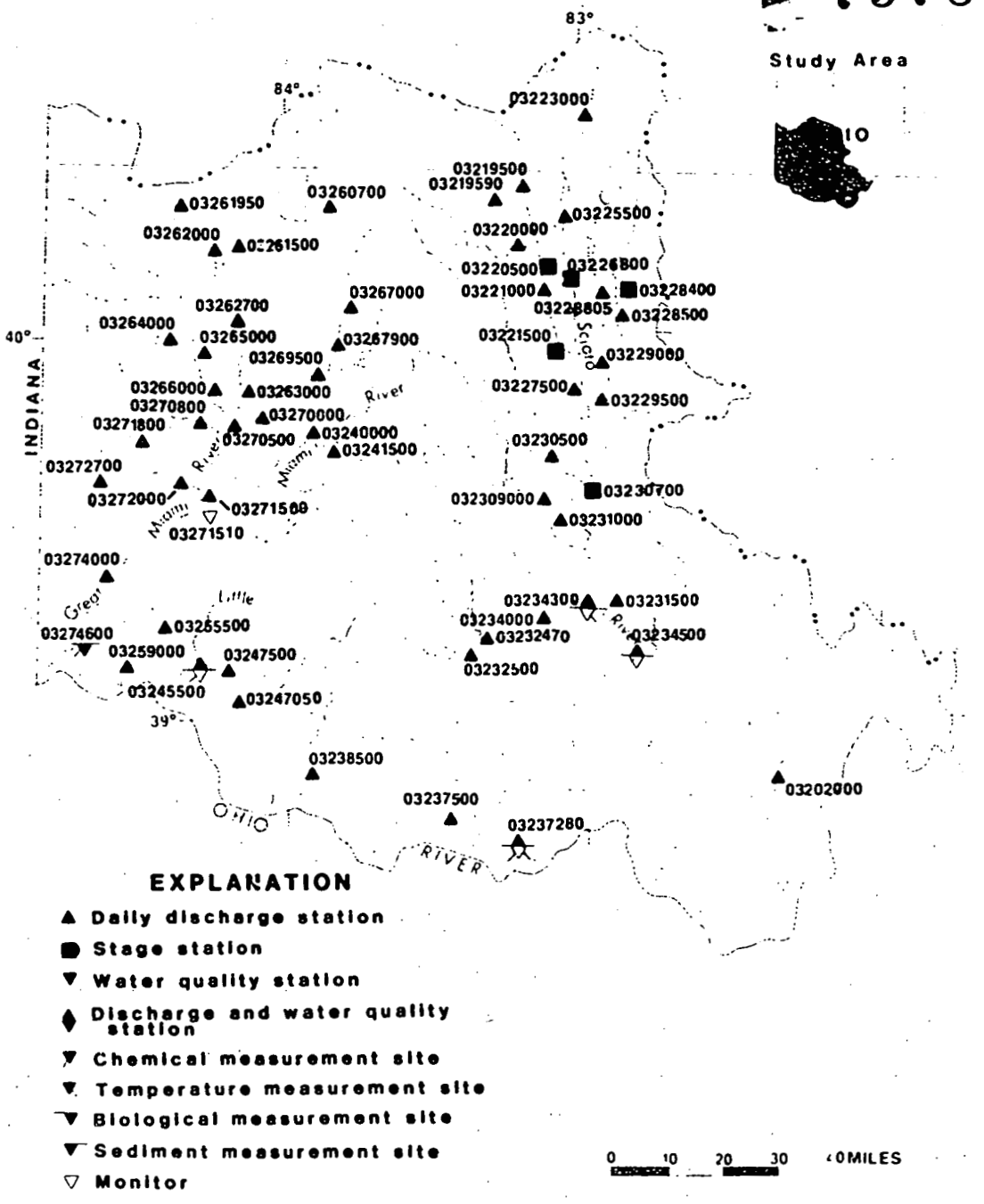

EXPLANATION

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

0 10 20 30 40 MILES

Figure 4a.--Location of data-collection stations excluding crest-stage and low-flow partial record sites.

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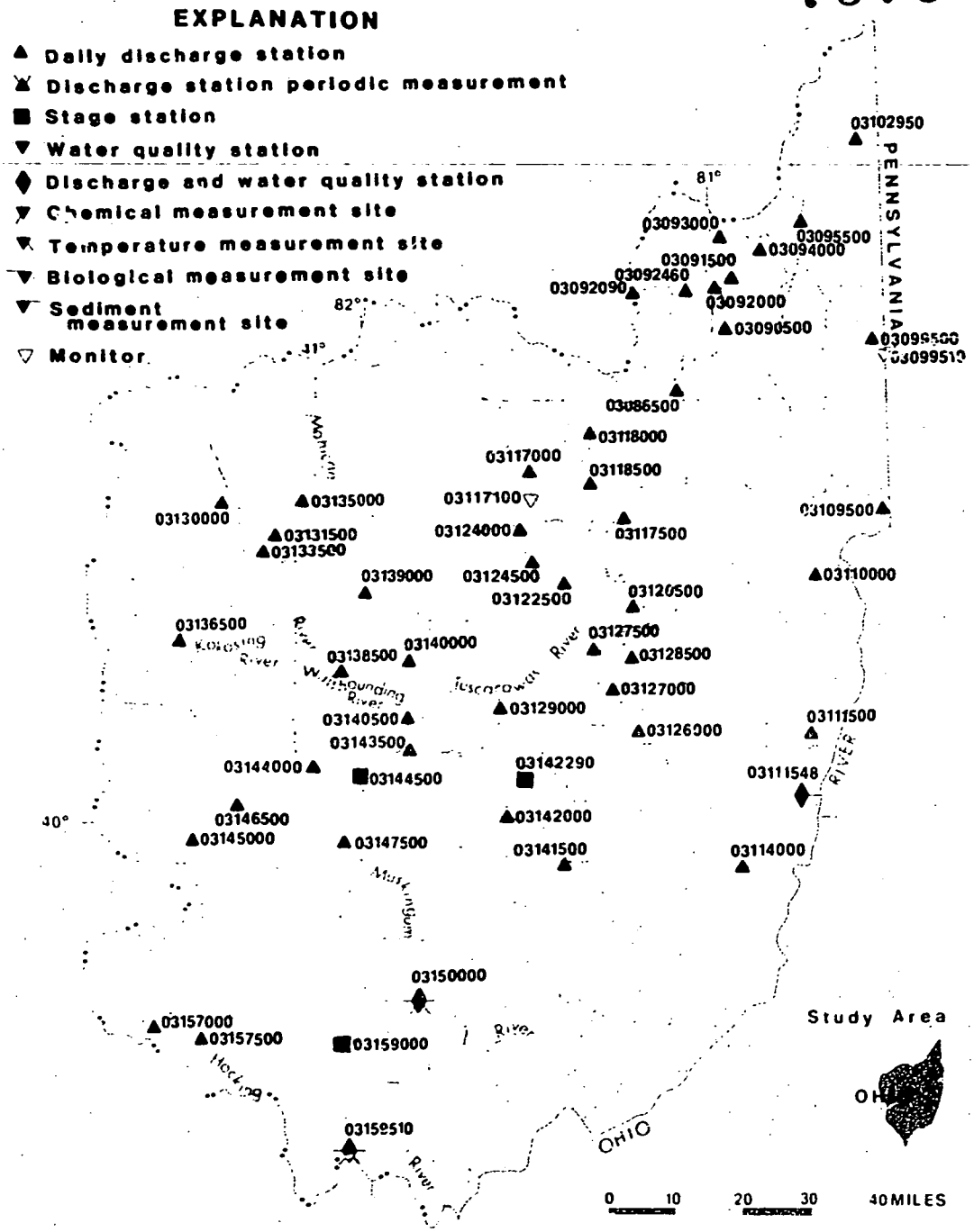

Figure 4b.--Location of data-collection stations excluding crest-stage and low-flow partial record sites and wells.

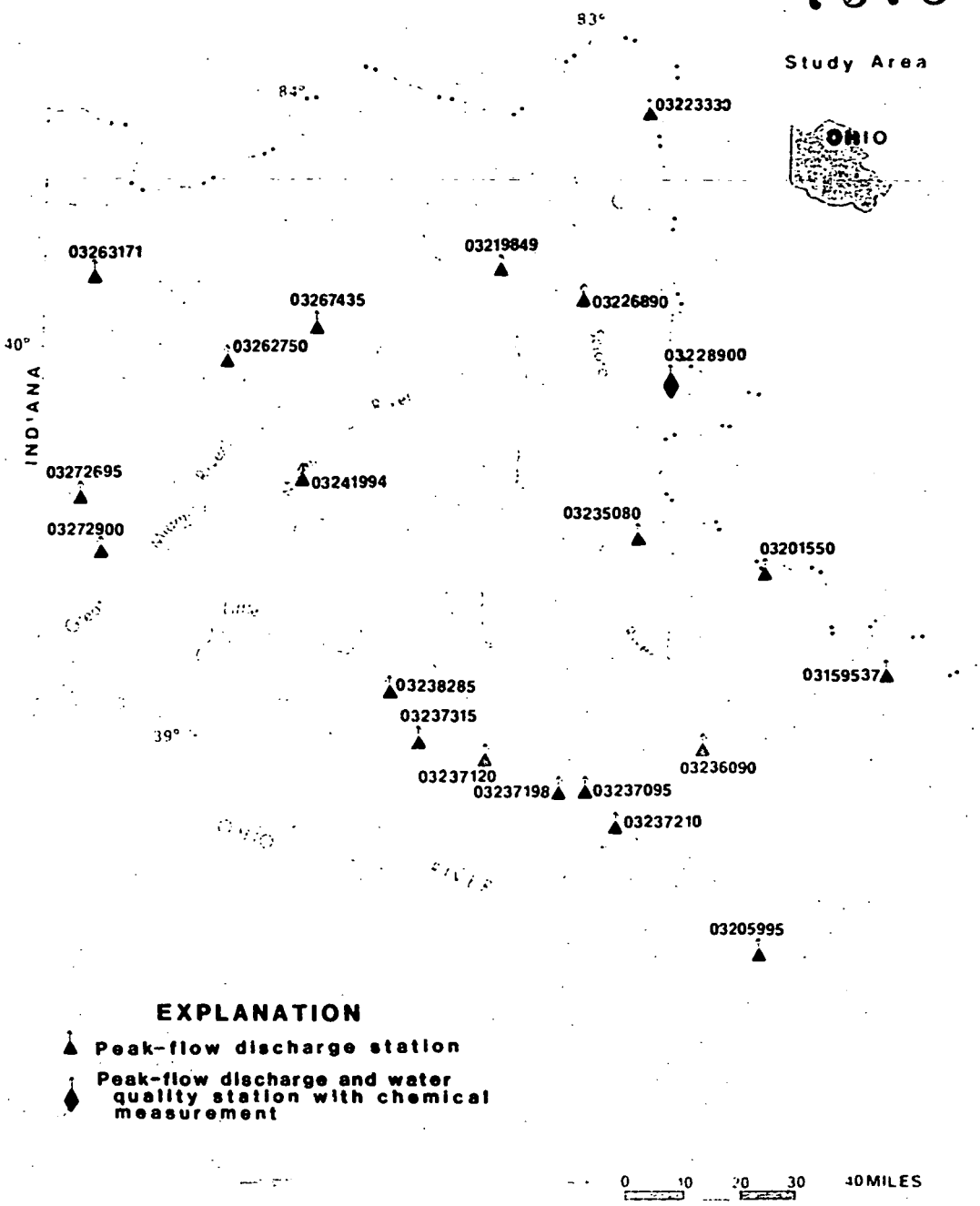

Figure 4c.--Location of crest-stage and low-flow partial record sites.

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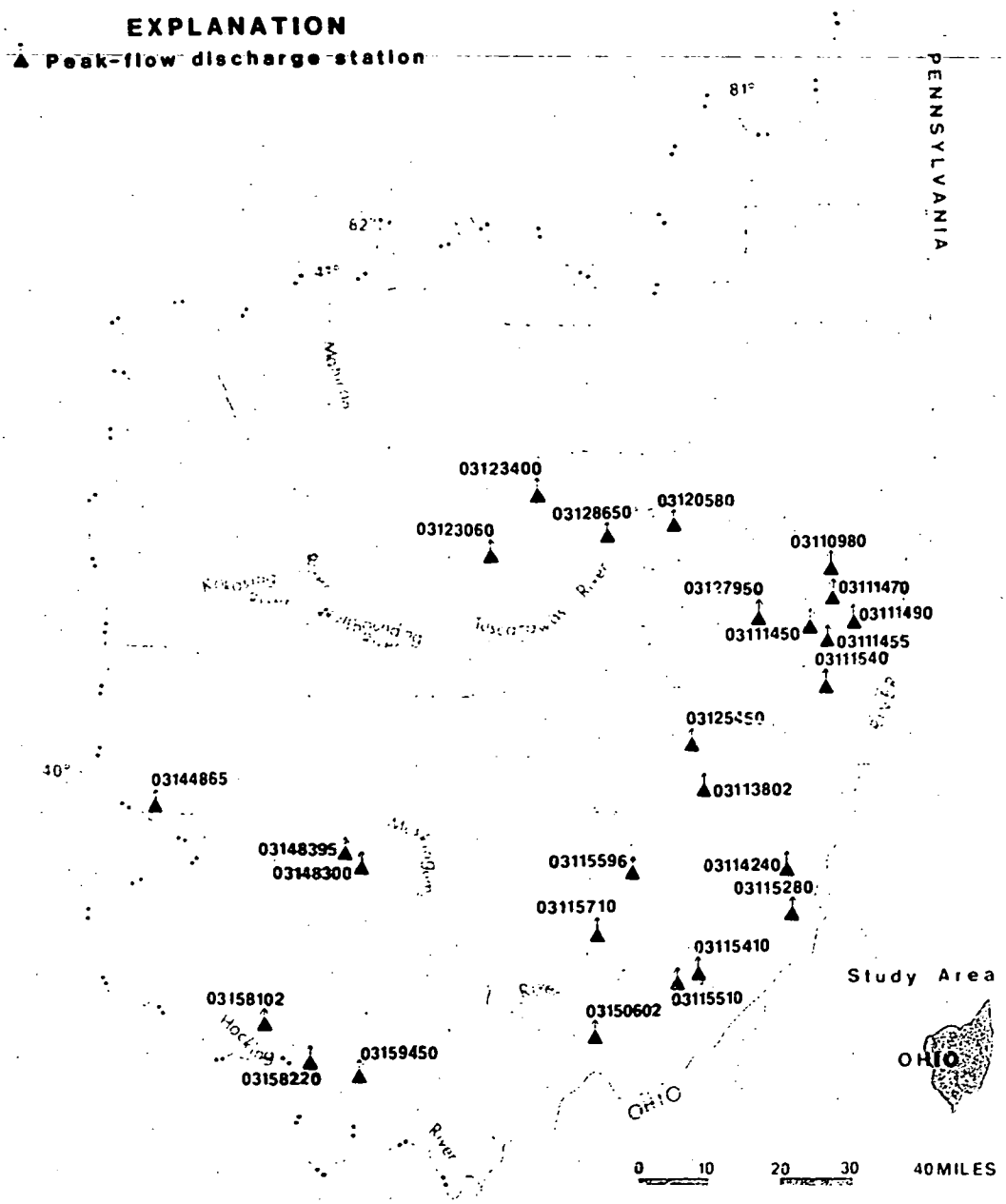

Figure 4d.--Location of crest-stage and low-flow partial record sites.

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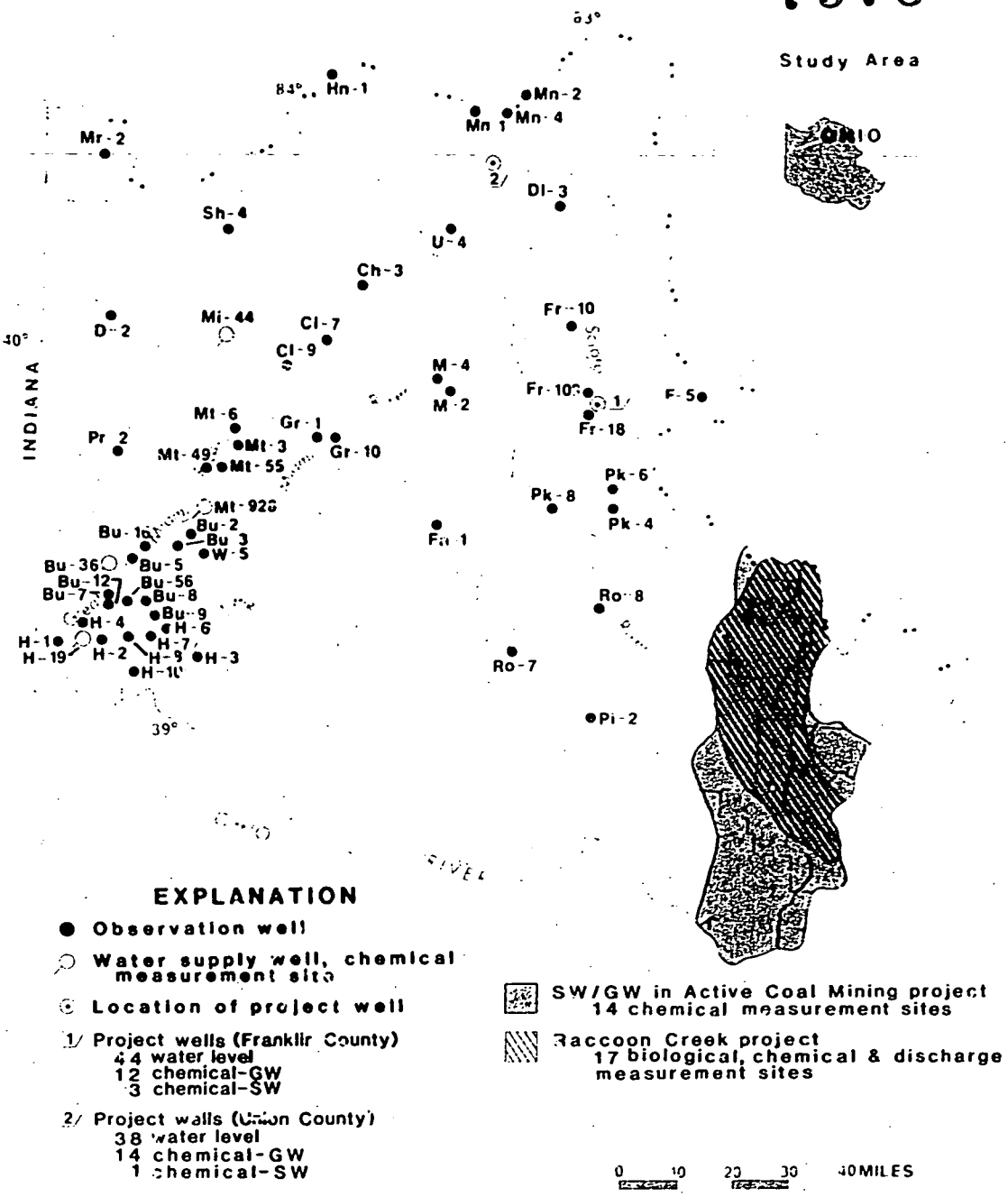

Figure 4e.--Location of wells.

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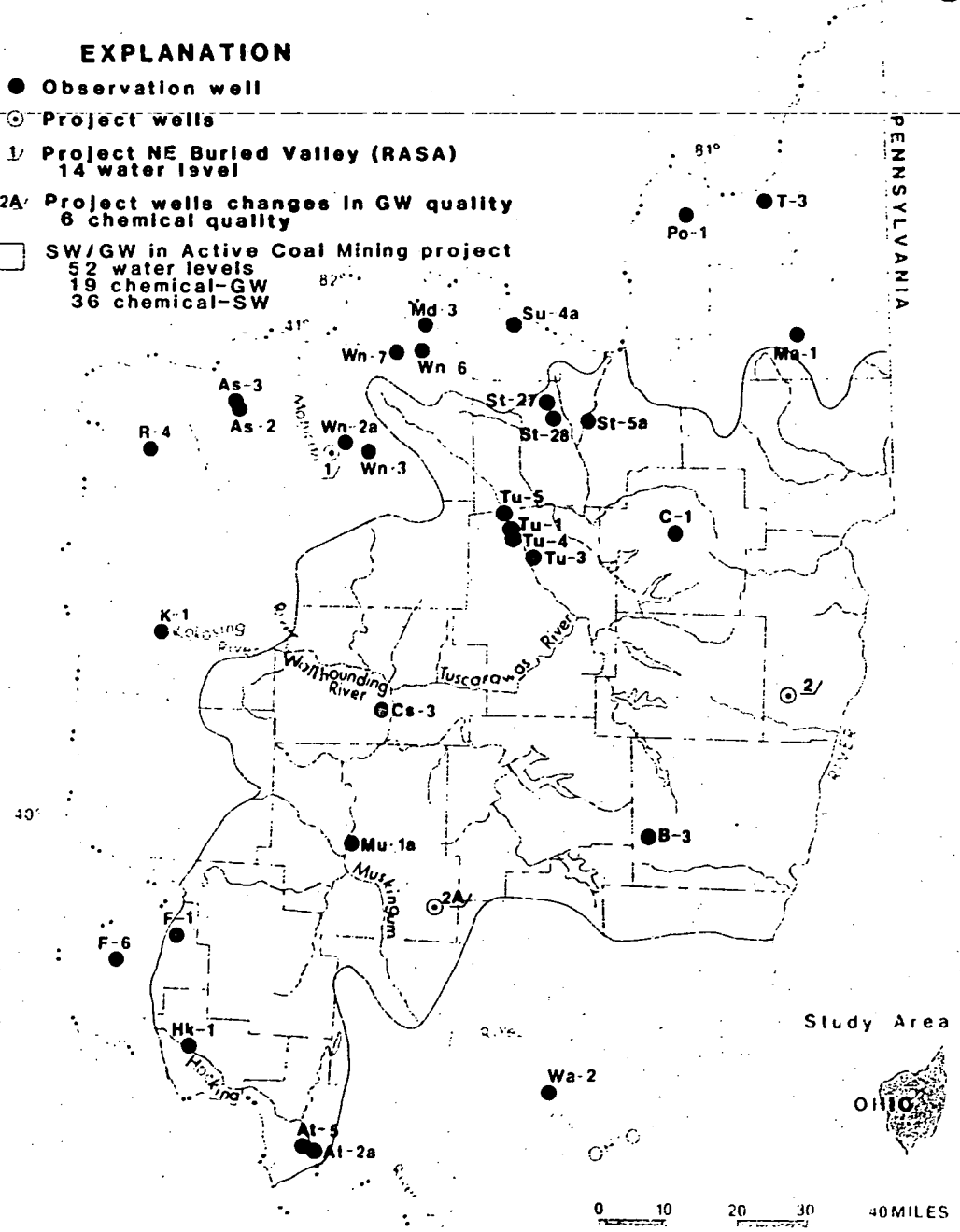

Figure 4f.--Location of wells.

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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^2.

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: Nov. 21 to Sept. 30. Records fair except those for periods of estimated record, 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.--45 years, 91.0 ft^3/s, 13.86 in/yr, unadjusted for diversion 1941-55.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,740 ft^3/s Jan. 21, 1959, gage height, 9.11 ft, from rating curve extended above 3,300 ft^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	1200	1,050	3.43	Dec. 12	0600	*1,530	*4.09
Nov. 17	0700	1,400	3.92	Feb. 5	0700	1,300	3.78

Minimum daily discharge, 3.8 ft^3/s Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	20	180	70	169	70	45	38	30	50	10	8.0
2	7.3	21	200	75	417	70	46	36	28	75	10	7.0
3	8.5	41	130	65	435	70	52	36	26	120	9.5	6.0
4	9.5	166	100	60	502	65	54	34	26	110	9.5	5.5
5	9.4	574	85	55	1160	65	55	34	24	75	9.5	5.0
6	9.0	607	90	50	591	70	60	32	24	60	9.5	12
7	17	247	110	48	320	65	41	65	46	50	10	8.0
8	22	223	130	46	200	60	41	55	110	40	10	6.0
9	23	154	110	46	130	208	47	48	110	38	11	4.6
10	25	277	182	46	110	316	48	44	85	150	12	4.2
11	29	922	709	44	90	375	46	42	65	130	14	4.0
12	29	712	1340	44	75	170	42	38	44	100	16	4.4
13	28	724	608	44	70	504	38	36	36	140	14	6.0
14	28	597	301	44	60	648	38	32	34	120	11	13
15	30	548	150	44	55	544	40	30	34	100	9.5	8.5
16	33	670	110	44	48	250	48	32	32	80	8.0	6.0
17	29	1210	90	144	140	160	60	40	34	65	7.5	4.2
18	29	601	85	295	484	250	55	55	36	50	10	3.8
19	29	348	80	399	520	340	48	70	36	40	12	7.0
20	20	230	75	570	571	200	46	100	34	34	9.5	26
21	20	140	70	352	507	160	50	130	32	30	8.5	15
22	18	120	65	245	627	130	100	70	32	24	7.5	12
23	18	95	65	100	180	110	100	50	34	20	7.0	10
24	25	75	60	90	85	90	80	44	36	17	7.0	10
25	25	60	60	80	110	75	65	38	30	16	9.5	10
26	22	180	60	70	100	61	60	34	28	15	12	11
27	19	489	55	65	85	76	48	30	28	14	11	15
28	17	484	55	60	75	70	44	36	30	13	13	24
29	16	478	50	50	---	66	40	48	110	12	14	38
30	16	281	48	46	---	55	38	38	80	11	11	51
31	18	---	55	46	---	47	---	34	---	11	9.5	---
TOTAL	638.7	11294	5505	3437	7916	5440	1575	1449	1324	1810	322.0	345.2
MEAN	20.6	376	178	111	283	175	52.5	46.7	44.5	58.4	10.4	11.5
MAX	33	1210	1340	570	1160	648	100	130	110	150	16	51
MIN	7.3	20	48	44	48	47	38	30	24	11	7.0	3.8
CFSM	.23	4.22	2.00	1.24	3.17	1.96	.59	.52	.50	.65	.12	.13
IN.	.27	4.71	2.30	1.43	3.30	2.27	.66	.60	.56	.75	.13	.14

CAL YR 1985	TOTAL	47102.9	MEAN	129	MAX	2010	MIN	4.1	CFSM	1.45	IN.	19.64
WTR YR 1986	TOTAL	41068.9	MEAN	113	MAX	1210	MIN	3.8	CFSM	1.27	IN.	17.13

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^2.

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.--No estimated daily discharges. 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.

AVERAGE DISCHARGE.--56 years, 239 ft^3/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,630 ft^3/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, 1,400 ft^3/s Nov. 18, gage height, 4.00 ft; minimum daily discharge, 13 ft^3/s May 8-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	179	1040	200	53	272	37	14	31	22	122	93
2	94	270	1040	57	53	167	38	14	39	93	122	261
3	94	265	1040	34	52	131	39	13	39	150	125	401
4	94	267	1030	34	53	61	37	13	40	125	125	400
5	93	270	1020	34	13	22	38	19	41	125	125	399
6	92	390	1010	34	[illegible]	22	37	25	44	125	92	394
7	92	612	1000	34	[illegible]	22	37	18	70	107	20	394
8	92	703	997	34	333	22	34	13	113	97	57	518
9	92	700	989	34	328	22	34	13	133	98	122	648
10	92	701	979	34	341	22	34	13	133	98	122	587
11	92	708	990	34	345	117	35	13	133	98	122	526
12	94	712	1020	34	349	200	35	13	133	98	150	526
13	94	715	1030	57	347	214	36	13	133	98	167	527
14	94	720	1030	66	342	476	36	13	133	98	167	527
15	86	918	1020	53	342	807	34	31	133	98	167	524
16	92	1050	1020	53	331	923	29	35	136	98	167	522
17	92	1050	1010	52	319	1010	18	21	136	97	167	520
18	92	1250	998	53	323	985	18	16	136	96	154	518
19	92	1400	992	55	324	737	18	18	136	96	146	516
20	92	1330	801	157	328	592	18	19	136	96	146	512
21	92	1240	653	478	545	422	18	16	136	96	134	513
22	92	1150	472	900	779	187	18	15	136	96	117	476
23	92	1050	259	1010	779	125	18	15	136	48	112	409
24	92	1030	263	861	978	[illegible]	18	28	136	96	104	411
25	92	1050	284	486	1100	92	18	56	136	96	95	406
26	92	1050	283	195	1090	63	[illegible]	70	136	96	94	362
27	92	1050	264	206	891	45	[illegible]	70	136	96	93	313
28	92	1050	278	205	567	43	18	46	90	66	93	315
29	91	1050	264	129	---	42	18	21	32	55	93	369
30	91	1050	265	52	---	41	16	21	21	93	93	408
31	91	---	255	51	---	41	---	21	---	107	93	---
TOTAL	2858	24980	23626	5756	12113	8035	820	726	3123	2958	3706	13295
MEAN	92.2	833	762	186	433	259	27.3	23.4	104	95.4	120	443
MAX	94	1400	1040	1010	1100	1010	39	70	136	150	167	648
MIN	86	179	255	34	51	[illegible]	16	13	21	22	20	93
(+)	2.91	3.11	0	0	0	0	0	0	0	0	0	0

CAL YR 1985 TOTAL 123266 MEAN 338 MAX 1400 MIN 18 (+) 0.42
WTR YR 1986 TOTAL 101996 MEAN 279 MAX 1400 MIN 13 (+) 0.42

(+) Diversion in cubic feet per second, furnished by Mahoning Valley Sanitary District.

7378

03091500 MAHONING RIVER AT PRICETOWN, OH

LOCATION.--Lat 41°07'53", long 80°58'1[illegible]", 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^2.

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

AVERAGE DISCHARGE.--57 years, 263 ft^3/s (unadjusted).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,040 ft^3/s Dec. 11, gage height, 4.99 ft; minimum daily discharge, 29 ft^3/s Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	401	1020	242	114	607	74	43	135	363	138	96
2	87	542	1020	242	116	434	74	44	142	314	139	144
3	87	540	1020	241	115	258	61	46	138	246	139	332
4	87	541	1020	240	120	232	46	46	137	148	139	338
5	89	541	1020	238	189	230	47	48	138	146	138	337
6	88	623	1020	237	328	229	47	58	137	145	140	337
7	86	876	1020	235	416	227	46	64	142	134	52	338
8	87	1020	1010	143	414	226	46	53	142	117	29	357
9	87	1010	1010	69	413	225	46	42	139	168	132	526
10	87	1010	1010	69	413	225	47	41	145	127	146	538
11	87	1010	1030	69	412	225	60	40	174	127	140	455
12	88	1010	1030	69	5[illegible]7	225	89	40	196	125	150	455
13	88	997	1020	69	523	231	89	42	182	120	182	443
14	89	994	1020	69	52[illegible]	475	99	43	198	115	182	442
15	192	988	1020	69	528	834	107	45	193	115	183	440
16	300	1000	1020	69	516	835	107	48	197	115	185	443
17	302	1010	1020	59	514	843	106	45	201	114	182	444
18	299	1010	1010	50	518	850	105	43	201	113	176	456
19	299	1010	1010	51	713	851	105	47	200	112	161	446
20	299	1010	1010	134	705	821	105	50	197	111	161	441
21	299	1010	1010	356	792	579	105	47	194	111	156	439
22	297	1000	1010	717	891	306	103	45	191	110	131	443
23	294	1010	974	926	885	292	77	44	191	92	122	372
24	294	1000	946	947	880	267	43	56	189	99	117	355
25	292	1000	927	805	890	273	43	89	186	107	97	369
26	289	1010	916	393	901	269	43	107	272	111	97	350
27	287	878	648	292	905	244	43	108	378	109	97	315
28	287	760	242	292	835	165	43	108	365	98	96	312
29	282	885	242	208	---	162	43	108	343	50	96	311
30	280	1020	242	113	---	159	43	117	402	94	96	355
31	276	---	243	113	---	119	---	128	---	104	96	---
TOTAL	6091	26716	27760	7826	15144	11918	2092	1885	6045	4160	4095	11429
MEAN	196	891	895	252	541	384	69.7	60.8	202	134	132	381
MAX	302	1020	1030	947	905	851	107	128	402	363	185	538
MIN	86	401	242	50	114	119	43	40	135	50	29	96

CAL YR 1985 TOTAL 130173 MEAN 357 MAX 1140 MIN 36
WTR YR 1986 TOTAL 125161 MEAN 3[illegible]3 MAX 1030 MIN 29

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^2.

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: Dec. 17 to Jan. 2, 11-16, Jan. 27 to Feb. 1. Records fair except those for periods of estimated discharge, which are poor. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--46 years, 23.4 ft^3/s, 14.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,890 ft^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 17	0000	594	4.66	May 20	1230	696	5.02
Dec. 11	2300	675	4.95	June 12	2130	*707	*5.06
Feb. 5	0400	570	4.57				

Minimum daily discharge, 0.05 ft^3/s Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	2.7	24	4.5	5.8	5.9	2.2	3.3	2.3	13	9.8	.16
2	.54	2.9	55	4.5	132	5.3	1.9	3.1	1.9	204	9.8	.15
3	.38	3.7	31	6.2	82	5.2	1.6	2.7	1.6	27	9.0	.13
4	.35	16	19	8.5	172	6.5	1.5	2.3	2.0	8.2	8.0	.08
5	.31	212	17	10	420	8.8	2.0	2.2	16	4.2	6.9	.10
6	.28	255	20	9.7	77	9.6	3.4	2.3	16	2.8	6.1	.09
7	.23	51	33	7.8	33	9.4	4.8	59	35	2.1	8.2	.07
8	.20	44	32	5.4	24	7.9	4.5	31	17	2.4	8.2	.06
9	.18	23	24	4.4	17	10	3.8	11	7.7	13	8.2	.05
10	.15	63	34	4.0	12	77	4.5	6.1	3.6	17	6.3	.06
11	.13	269	413	3.9	9.0	86	8.0	4.3	10	6.9	13	.08
12	.12	143	396	3.8	6.8	34	11	3.5	327	7.8	13	.15
13	.12	141	70	3.7	5.5	210	8.1	2.9	122	5.7	6.0	.18
14	.19	138	32	3.6	4.5	100	6.1	2.4	37	3.9	2.0	.23
15	.27	159	19	3.5	3.9	149	5.7	2.2	42	3.7	1.3	.33
16	.34	259	12	3.5	3.8	35	8.4	2.5	29	3.9	1.8	.32
17	.34	352	9.0	5.6	5.5	15	11	2.5	12	4.6	1.4	.26
18	.42	56	7.5	92	108	9.5	12	2.9	6.3	5.0	1.2	.64
19	.54	28	6.5	181	146	23	8.3	38	4.1	5.5	.98	1.9
20	.74	19	5.8	245	88	20	6.8	602	4.2	6.4	.81	3.7
21	.84	13	5.4	70	124	8.4	27	204	3.5	6.8	.51	4.1
22	.42	10	5.4	32	88	5.3	38	32	2.8	6.7	.33	5.1
23	.65	9.0	5.2	23	50	4.4	19	16	3.8	6.8	.20	8.2
24	.99	9.0	5.0	19	24	4.2	10	9.6	2.9	7.0	.14	9.7
25	1.5	9.9	4.9	11	17	3.6	7.7	6.4	2.7	7.5	.12	12
26	2.4	48	4.8	10	11	3.1	6.3	4.5	2.0	9.4	.06	17
27	2.1	198	4.7	8.6	9.3	3.5	5.4	4.2	4.1	9.8	.09	21
28	2.1	152	4.6	7.4	7.1	4.7	4.9	8.0	4.7	9.8	.07	11
29	2.0	93	4.6	6.8	---	3.8	4.1	5.9	2.9	9.6	.12	6.1
30	2.1	34	4.5	6.4	---	3.1	3.4	3.7	2.5	9.5	.20	2.6
31	2.7	---	4.5	6.0	---	2.6	---	2.9	---	9.6	.16	---
TOTAL	24.29	2813.2	1313.4	810.6	1686.2	873.8	241.4	1083.4	728.6	439.6	123.99	105.54
MEAN	.78	93.8	42.4	26.1	60.2	28.2	8.05	34.9	24.3	14.2	4.00	3.52
MAX	2.7	352	413	245	420	210	38	602	327	204	13	21
MIN	.12	2.7	4.5	3.5	3.8	2.6	1.5	2.2	1.6	2.1	.06	.05
CFSM	.04	4.28	1.94	1.19	2.75	1.29	.37	1.59	1.11	.65	.18	.16
IN.	.04	4.78	2.23	1.38	2.86	1.48	.41	1.84	1.24	.75	.21	.18

CAL YR 1985	TOTAL	10245.42	MEAN	28.1	MAX	688	MIN	.04	CFSM	1.28	IN.	17.40
WTR YR 1986	TOTAL	10244.02	MEAN	28.1	MAX	602	MIN	.05	CFSM	1.28	IN.	17.40

7378

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^2.

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: Nov. 21 to Sept. 30. Records fair except those for periods of estimated records, which are poor. Water-quality data collected at this site 1966 to 1978. AVERAGE DISCHARGE.--21 years, 28.4 ft^3/s, 17.69 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft^3/s Sept. 14, 1979, inside gage height 8.63 ft, outside gage height, 9.34 ft; minimum, 0.12 ft^3/s Sept. 30, 1986.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 5	1500	*664	*5.30	Feb. 5	0300	486	4.70
Nov. 16	1730	513	4.80				

Minimum discharge, 0.12 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	5.0	34	12	20	9.2	8.6	6.6	5.7	11	4.0	2.9
2	2.3	5.7	45	12	141	8.6	7.1	5.3	3.9	79	3.3	1.9
3	2.2	14	28	17	70	13	6.5	4.7	3.4	21	3.6	.30
4	2.2	78	23	24	202	18	7.6	4.2	3.0	11	4.1	.31
5	2.0	525	24	24	310	19	10	4.2	9.2	6.4	4.8	.65
6	2.6	222	32	19	80	20	15	14	21	4.5	5.8	.61
7	2.4	81	39	15	53	17	21	84	14	3.6	7.4	.68
8	2.3	71	37	12	36	16	14	29	7.9	3.9	7.7	.60
9	2.1	42	36	11	27	28	13	14	5.4	15	9.1	.44
10	2.1	152	49	11	21	122	22	9.4	4.1	13	6.3	.36
11	3.4	191	302	10	16	172	35	6.5	25	12	7.4	.46
12	2.0	92	193	10	12	56	25	5.1	309	11	7.9	8.3
13	3.6	84	72	9.8	10	225	18	4.5	60	8.8	6.8	1.1
14	4.9	195	45	9.6	9.2	96	12	4.3	24	6.8	7.5	.84
15	6.8	186	38	9.4	8.8	106	19	5.1	18	5.7	7.7	.58
16	6.4	309	25	9.2	8.4	51	18	18	33	4.2	9.0	.74
17	4.5	186	22	28	22	33	24	10	22	3.8	9.2	.68
18	3.6	63	19	205	158	25	18	8.7	12	4.8	8.3	12
19	4.4	41	16	193	170	57	12	44	11	4.2	6.8	3.5
20	4.2	31	15	177	97	35	15	183	12	3.2	6.9	1.6
21	3.4	22	15	63	178	19	54	78	8.3	2.6	6.0	3.1
22	3.7	20	14	43	85	16	52	33	8.7	2.2	6.1	12
23	4.0	18	14	31	53	16	24	23	44	2.1	5.3	37
24	9.4	15	15	25	33	14	16	15	13	2.7	4.8	9.5
25	8.6	18	15	19	25	13	12	11	9.3	4.9	3.7	16
26	7.8	133	14	17	19	13	11	8.2	6.3	8.5	5.2	5.4
27	6.4	187	13	16	15	14	13	14	6.1	5.8	15	7.2
28	4.4	135	13	15	11	12	9.3	20	8.1	5.4	10	16
29	3.5	79	13	14	---	12	7.2	11	8.0	5.0	8.1	1.3
30	3.6	43	12	13	---	10	6.3	7.6	5.3	5.2	6.1	.56
31	4.7	---	12	12	---	9.2	---	8.7	---	4.3	4.5	---
TOTAL	126.3	3243.7	1244	1086.0	1899.4	1275.0	525.6	694.1	720.7	281.6	208.4	146.61
MEAN	4.07	108	40.1	35.0	67.8	41.1	17.5	22.4	24.0	9.08	6.72	4.89
MAX	9.4	525	302	205	310	225	54	183	309	79	15	37
MIN	2.0	5.0	12	9.2	8.4	8.6	6.3	4.2	3.0	2.1	3.3	.30
CFSM	.19	4.95	1.84	1.61	3.11	1.89	.80	1.03	1.10	.42	.31	.22
IN.	.22	5.54	2.12	1.85	3.24	2.18	.90	1.18	1.23	.48	.36	.25

CAL YR 1985 TOTAL 11866.2 MEAN 32.5 MAX 710 MIN 1.1 CFSM 1.49 IN. 20.25
WTR YR 1986 TOTAL 11451.41 MEAN 31.4 MAX 525 MIN .30 CFSM 1.44 IN

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^2.

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 976.44 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.

AVERAGE DISCHARGE.--18 years, 106 ft^3/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 513 ft^3/s Nov. 26, gage height, 7.49 ft; minimum daily, 16 ft^3/s Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	25	361	75	38	160	41	74	92	27	118	113
2	96	25	365	75	44	159	41	74	92	166	113	71
3	96	26	361	75	40	156	41	74	93	441	106	20
4	96	37	360	75	53	144	41	74	107	302	102	20
5	99	62	359	75	45	103	41	74	105	195	104	20
6	99	32	359	75	43	59	41	75	88	144	124	19
7	99	27	359	74	42	42	41	48	87	121	160	19
8	99	51	356	74	41	41	41	24	67	103	141	19
9	100	85	354	74	41	43	41	23	33	105	105	19
10	101	92	356	73	41	47	41	39	31	104	105	18
11	102	89	302	73	55	91	41	67	28	81	105	19
12	102	87	177	73	72	131	41	74	40	44	83	19
13	104	85	248	73	71	141	41	74	27	44	58	19
14	108	102	356	73	71	136	41	74	27	58	57	18
15	55	88	411	73	71	138	33	82	27	73	57	18
16	32	102	477	73	71	133	23	92	28	86	57	16
17	21	86	474	75	72	132	23	84	26	103	56	18
18	22	134	477	81	80	131	22	76	26	103	65	18
19	22	225	480	80	78	135	22	77	26	103	71	18
20	23	266	478	81	75	135	22	58	26	103	71	18
21	24	266	477	75	106	134	25	25	26	113	83	18
22	23	266	475	75	131	133	24	24	26	129	106	18
23	23	312	470	74	129	133	23	24	28	173	114	18
24	25	427	405	74	142	99	22	24	27	167	116	18
25	26	498	343	74	158	53	29	46	27	130	115	43
26	26	465	243	74	159	42	48	74	27	130	115	98
27	26	270	164	74	157	42	56	82	27	130	115	113
28	26	181	166	73	160	42	56	69	27	123	114	114
29	26	245	154	58	---	42	64	58	27	118	114	121
30	26	362	132	40	---	42	73	82	27	118	114	128
31	25	---	75	40	---	41	---	91	---	118	113	---
TOTAL	1848	5018	10584	2231	2286	3060	1139	1936	1340	3955	3077	1208
MEAN	59.6	167	341	72.0	81.6	98.7	38.0	62.5	44.7	128	99.3	40.3
MAX	108	498	480	81	160	160	73	92	107	441	160	128
MIN	21	25	75	40	38	41	22	23	26	27	56	16

CAL YR 1985	TOTAL	45146	MEAN	124	MAX	518	MIN	18
WTR YR 1986	TOTAL	37682	MEAN	103	MAX	498	MIN	16

7378

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^2.

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. 19-21, Dec. 25 to Jan. 3, 10-16, Jan. 27 to Feb. 2, 11-16, Feb. 27 to Mar. 2. Records good except for periods of estimated records, 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.--57 years, 112 ft^3/s, 15.59 in/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 6	0300	*3,280	*12.16	Feb. 5	1730	1,740	10.66
Nov. 17	1100	1,700	10.60				

Minimum daily 7.1 ft^3/s Oct. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.8	167	52	45	50	55	42	30	35	18	12
2	13	9.1	223	52	42	45	51	39	28	306	17	12
3	10	15	171	50	517	66	49	37	25	230	16	12
4	9.9	84	126	82	380	77	49	35	24	56	16	11
5	11	1120	115	91	1310	82	54	33	29	38	15	13
6	11	2510	131	79	859	85	57	33	61	31	15	13
7	12	776	171	65	304	76	79	274	121	27	15	11
8	12	361	171	55	191	73	69	256	73	26	15	11
9	11	214	158	50	142	73	57	84	42	192	14	11
10	12	287	136	46	112	303	56	55	31	470	14	10
11	15	738	440	45	80	734	68	44	34	166	20	10
12	15	551	1120	43	70	470	75	39	641	119	18	15
13	13	305	570	42	58	507	61	34	816	81	14	19
14	16	381	256	42	54	852	54	32	144	55	13	14
15	22	739	143	42	48	670	53	30	64	39	13	12
16	11	623	131	42	46	471	64	38	203	32	13	11
17	9.2	1350	102	51	65	206	78	43	178	30	14	11
18	9.7	560	95	285	262	146	82	36	79	28	14	12
19	14	228	82	874	769	211	59	65	48	25	13	24
20	15	158	74	990	757	222	53	248	53	22	12	18
21	16	118	70	609	562	125	141	364	44	21	12	15
22	17	90	69	240	727	95	254	145	35	20	13	16
23	12	84	70	162	327	86	136	85	138	18	12	51
24	26	73	76	107	195	83	79	61	101	18	13	68
25	33	65	70	89	141	72	62	48	47	17	13	69
26	19	143	64	83	104	66	56	41	37	21	12	132
27	10	725	62	74	80	70	51	40	31	23	16	58
28	7.4	617	58	64	62	72	47	82	34	19	19	81
29	7.4	546	56	58	---	67	44	55	33	27	14	56
30	7.1	270	54	52	---	63	42	40	29	23	13	36
31	7.5	---	54	48	---	57	---	34	---	19	13	---
TOTAL	422.2	13748.9	5285	4664	8309	6275	2135	2492	3253	2234	449	844
MEAN	13.6	458	170	150	297	202	71.2	80.4	108	72.1	14.5	28.1
MAX	33	2510	1120	990	1310	852	254	364	816	470	20	132
MIN	7.1	8.8	54	42	42	45	42	30	24	17	12	10
CFSM	.14	4.69	1.74	1.54	3.04	2.07	.73	.82	1.11	.74	.15	.29
IN.	.16	5.24	2.01	1.78	3.17	2.39	.81	.95	1.24	.85	.17	.32

CAL YR 1985	TOTAL	52598.3	MEAN	144	MAX	3120	MIN	6.6	CFSM	1.48	IN.	20.05
WTR YR 1986	TOTAL	50111.1	MEAN	137	MAX	2510	MIN	7.1	CFSM	1.40	IN.	19.10

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^2.

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: Oct. 24, Dec. 28 to Jan. 3, Feb. 4-24. Records fair except for periods of estimated record, which are poor. 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.--46 years, 587 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft^3/s Jan. 22, 1959, gage height, 19.37 ft; minimum daily, 60 ft^3/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, 4,820 ft^3/s June 12, gage height 11.13 ft; minimum daily, 157 ft^3/s Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	607	1890	580	195	953	219	187	239	551	271	241
2	166	811	2010	480	537	720	202	179	239	2270	291	243
3	177	836	1940	400	983	529	164	173	231	1720	274	382
4	192	1050	1800	444	1150	472	157	168	228	841	266	445
5	216	2480	1760	463	2740	464	160	166	422	562	259	452
6	221	4180	1790	450	2500	430	181	187	510	432	263	448
7	222	2580	1870	420	1100	372	214	597	660	386	296	451
8	226	1880	1880	402	840	314	217	637	497	309	213	450
9	229	1640	1820	248	660	351	185	290	288	707	211	554
10	234	1720	1790	218	560	724	174	189	208	1040	287	632
11	242	2600	2600	218	500	1340	199	164	265	639	312	589
12	249	2530	4080	224	450	1240	266	182	3130	443	290	569
13	263	2160	2950	234	430	1360	259	178	3180	358	280	554
14	282	2130	2120	227	410	2110	235	177	862	284	272	547
15	328	2800	1830	204	400	2520	260	177	603	268	269	542
16	530	2760	1830	208	380	2200	265	209	616	255	274	535
17	516	3900	1790	220	380	1500	296	234	610	293	269	533
18	509	2710	1760	463	380	1310	318	233	438	273	264	568
19	535	1850	1800	1280	900	1390	269	477	361	263	260	580
20	554	1710	1830	2080	2050	1450	246	1280	360	254	257	558
21	561	1620	1750	1690	2200	1190	378	1520	336	238	256	547
22	568	1560	1700	1180	2200	641	598	569	305	254	260	568
23	570	1540	1660	1350	2000	568	446	321	486	261	270	612
24	650	1580	1630	1250	1480	547	267	230	466	304	269	572
25	607	1650	1530	1180	1370	478	198	195	336	269	247	623
26	625	1830	1490	733	1290	433	182	233	303	284	236	718
27	605	2660	1290	463	1260	433	190	262	469	273	257	686
28	590	2570	1200	394	1200	373	182	338	498	270	256	700
29	587	2290	1000	408	---	326	170	281	476	294	248	629
30	586	2080	880	246	---	315	177	239	467	231	244	624
31	587	---	720	193	---	294	---	246	---	248	241	---
TOTAL	12602	62314	55990	18550	30545	27347	7294	10518	18089	15074	8162	16152
MEAN	407	2077	1806	598	1091	882	243	339	603	486	263	538
MAX	650	4180	4080	2080	2740	2520	598	1520	3180	2270	312	718
MIN	166	607	720	193	195	294	157	164	208	231	211	241

CAL YR 1985	TOTAL	293957	MEAN	805	MAX	5450	MIN	153
WTR YR 1986	TOTAL	282637	MEAN	774	MAX	4180	MIN	157

7378

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^2.

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.--44 years, 1,124 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 21,000 ft^3/s Jan. 21, 1959, gage height, 14.43 ft; minimum daily, 155 ft^3/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, 9,850 ft^3/s June 12, gage height, 9.31 ft; minimum daily, 368 ft^3/s, Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	573	400	3100	799	555	1460	489	400	603	900	696	487
2	528	509	3550	781	1290	1180	432	398	586	4450	689	492
3	553	917	3350	820	1930	991	400	383	590	3760	668	507
4	517	2670	3040	866	2930	850	387	373	613	1870	578	608
5	405	5430	2870	907	5640	846	381	376	2930	1040	555	588
6	380	5700	2950	891	5240	867	427	399	1970	783	556	548
7	368	4980	3080	828	2930	814	432	2030	2970	652	989	542
8	376	3180	3070	730	1720	664	443	1540	1890	674	607	533
9	375	2680	2930	665	1370	678	414	897	1150	2590	527	544
10	386	3290	2940	565	1180	1130	389	590	777	3330	656	712
11	398	4810	5500	539	1040	2390	441	487	936	2050	763	735
12	388	5200	7950	542	992	2360	468	463	8290	1510	603	832
13	413	4420	6500	558	989	3260	476	462	6930	1080	563	689
14	429	4380	4090	545	959	4040	442	459	3130	876	563	653
15	478	4940	3220	522	940	3960	515	462	1670	688	584	646
16	458	6490	2890	509	921	3697	523	509	2090	651	612	653
17	545	6790	2740	569	1070	2610	619	519	2100	687	580	634
18	501	5440	2610	955	1970	2030	617	542	1690	682	574	955
19	503	3490	2440	2120	3450	2040	545	1200	1520	654	571	810
20	475	2910	2390	4090	4050	2060	495	2690	1530	643	560	706
21	457	2670	2500	3390	4180	1750	606	3210	1200	636	558	649
22	457	2570	2270	2300	4190	1280	957	1830	1050	621	556	895
23	447	2500	2190	1990	3550	934	924	984	1580	633	566	1240
24	536	2460	2040	1850	2640	882	644	728	1460	647	586	979
25	474	2470	1920	1700	2130	810	488	592	942	682	543	1350
26	456	2940	1730	1500	1880	755	435	538	668	755	531	1220
27	435	4080	1510	1090	1770	785	400	813	663	702	591	1590
28	415	4740	1040	856	1650	716	399	914	807	693	534	1220
29	408	3850	854	816	---	613	464	828	778	1450	516	856
30	405	3220	847	740	---	567	398	674	773	961	501	714
31	411	---	861	550	---	526	---	614	---	762	491	---
TOTAL	13980	110126	88972	35583	63156	47538	15050	26904	53836	38102	18467	23587
MEAN	451	3671	2870	1148	2256	1533	502	868	1796	1229	596	786
MAX	573	6790	7950	4090	5640	4040	957	3210	8290	4450	989	1590
MIN	368	400	847	509	555	526	381	373	586	621	491	487

CAL YR 1985 TOTAL 536548 MEAN 1470 MAX 11000 MIN 352
WTR YR 1986 TOTAL 535351 MEAN 1467 MAX 8290 MIN 368

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^2.

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 fair. 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.

AVERAGE DISCHARGE.--46 years, 88.2 ft^3/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft^3/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, 1,020 ft^3/s June 17, gage height, 4.00 ft, minimum daily 2.1 ft^3/s Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	14	485	84	13	6.0	7.0	6.4	5.3	98	167	113
2	150	14	483	84	13	6.0	7.0	6.6	5.3	98	117	115
3	84	14	487	84	12	6.0	7.1	6.9	5.3	98	74	70
4	16	14	484	84	12	6.0	6.9	6.9	5.9	61	75	1[illegible]
5	16	16	482	84	12	6.1	6.9	6.9	6.5	36	67	3.5
6	15	123	480	64	12	6.5	6.9	6.0	5.9	36	61	3.4
7	15	318	476	84	13	6.3	6.9	6.2	6.0	36	39	3.4
8	15	495	474	84	13	6.5	6.9	6.9	5.9	36	31	3.4
9	15	559	471	84	13	6.5	6.9	6.7	5.7	36	26	3.4
10	15	568	467	84	13	6.5	6.9	7.1	5.5	266	19	3.4
11	15	568	472	84	12	6.6	6.8	7.3	6.0	387	25	3.4
12	15	568	476	84	9.5	6.9	6.9	7.3	5.8	88	23	3.2
13	15	563	476	84	5.7	6.9	6.9	7.1	290	88	19	3.0
14	14	561	473	84	5.7	6.9	6.9	6.9	758	88	68	2.9
15	14	563	472	84	5.7	6.9	6.7	6.9	955	157	121	3.0
16	15	567	470	77	5.9	6.9	6.8	6.5	1030	199	120	3.0
17	15	568	476	47	6.0	6.9	6.5	6.5	935	199	120	2.8
18	15	540	475	26	5.7	6.9	6.5	6.5	855	199	118	2.7
19	14	371	472	26	5.7	6.9	6.5	6.5	758	199	117	2.5
20	15	240	470	27	6.0	6.9	6.5	6.7	580	199	116	2.4
21	14	239	317	27	6.0	7.0	6.4	6.8	566	199	117	2.4
22	14	237	128	27	6.0	7.0	6.3	6.9	447	199	117	2.1
23	14	235	84	27	6.0	6.9	6.5	6.7	207	196	117	2.3
24	14	234	84	27	6.0	6.9	6.3	6.5	98	193	117	2.9
25	14	233	4	27	6.0	6.9	6.2	6.3	98	192	117	3.4
26	14	232	84	27	5.9	6.9	6.0	6.0	98	193	116	3.4
27	14	135	84	26	5.9	6.9	6.1	6.0	98	189	115	3.4
28	14	88	84	26	6.0	6.9	6.2	6.0	98	184	115	3.4
29	14	293	84	22	---	6.9	6.3	5.8	98	183	117	3.4
30	14	497	84	17	---	7.0	6.4	5.5	98	174	117	3.2
31	14	---	84	16	---	7.0	---	5.3	---	170	115	---
TOTAL	792	9667	10722	1732	241.7	207.4	199.1	202.6	8107.1	4676	2803	389.3
MEAN	25.5	322	346	55.9	8.63	6.69	6.64	6.54	270	151	90.4	13.0
MAX	150	568	487	84	13	7.0	7.1	7.3	1000	387	167	115
MIN	14	14	84	16	5.7	6.0	6.0	5.3	5.3	36	19	2.1
(+)	22.6	22.2	21.9	22.7	21.4	20.1	20.7	21.9	22.8	23.1	21.5	21.1

CAL YR 1985 TOTAL 33004.9 MEAN 90.4 MAX 568 MIN 4.9
WTR YR 1986 TOTAL 39739.2 MEAN 109 MAX 1000 MIN 2.1
+ Diversion, in cubic foot per second, furnished by City of Warren.

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

LOCATION.--Lat 41°01'53", long 80°31'10", Mahoning County, Hydrologic Unit 05030102, 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^2.

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, 1968; minimum, 3.0 units Jan. 24, 1967.
WATER TEMPERATURES: Maximum, 39.0°C June 29, 1971; minimum, 0.0°C Dec. 25, 1983, Dec. 26, 1985.
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, 996 microsiemens Feb. 2; minimum, 250 microsiemens July 3.
pH: Maximum recorded, 8.9 units Dec. 29; minimum recorded, 6.9 units May 8, June 28, July 30.
WATER TEMPERATURES: Maximum, 30.0°C July 19, 20; minimum, 0.0°C Dec. 26.
DISSOLVED OXYGEN: Maximum recorded, 14.1 mg/L Dec. 26, 27; minimum recorded, 2.0 mg/L Aug. 14.

BEST COPY AVAILABLE

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	510	492	505	570	554	564	380	358	371	564	502	524
2	500	484	492	568	546	557	390	366	380	526	506	516
3	506	490	501	540	452	515	394	376	383	626	512	538
4	498	486	492	492	336	433	384	372	377	602	544	565
5	526	500	516	398	366	385	---	---	---	578	556	564
6	532	520	525	376	290	336	---	---	---	578	538	553
7	556	526	543	318	276	291	---	---	---	550	538	543
8	598	558	585	376	322	352	---	---	---	552	528	540
9	612	574	594	410	378	394	---	---	---	558	536	542
10	586	570	578	400	368	390	---	---	---	570	552	557
11	594	564	580	392	374	386	378	364	371	576	550	562
12	590	570	585	372	344	355	362	298	329	584	562	572
13	590	564	580	362	344	352	332	284	296	584	570	577
14	568	552	558	370	344	357	360	332	354	604	562	585
15	574	558	566	358	350	352	390	370	378	638	570	598
16	576	558	569	348	310	326	390	380	387	600	578	586
17	566	538	551	328	296	315	410	390	399	764	588	621
18	558	542	550	314	280	291	400	390	397	916	650	705
19	552	538	547	372	318	346	410	390	398	656	554	604
20	540	520	533	398	374	387	410	390	397	542	406	471
21	550	534	542	408	400	403	410	381	396	400	366	374
22	564	542	555	424	408	415	420	390	401	404	374	386
23	554	542	548	418	412	414	480	400	432	432	402	415
24	554	506	537	418	412	414	508	434	466	464	436	452
25	552	518	542	418	414	415	462	426	443	524	458	478
26	562	544	556	416	392	406	428	416	422	520	486	501
27	556	534	545	394	374	387	508	416	449	580	518	540
28	560	538	553	374	340	355	490	456	470	576	546	555
29	566	548	557	344	338	341	516	486	494	568	556	562
30	572	552	563	356	344	347	516	480	495	590	564	576
31	568	552	562	---	---	---	532	486	496	626	584	610
MONTH	612	484	549	570	276	386	532	284	407	916	366	541
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	700	630	663	472	454	460	546	532	541	616	600	609
2	996	690	795	490	468	477	558	546	552	616	602	610
3	690	552	618	516	492	499	568	556	564	632	616	626
4	546	514	532	548	516	526	586	568	581	630	608	619
5	506	374	435	554	540	548	608	584	600	624	606	617
6	376	320	336	768	548	599	628	592	607	632	590	621
7	460	332	392	726	586	614	618	596	608	600	378	467
8	498	420	449	630	616	624	636	614	623	462	438	453
9	500	466	478	682	616	640	618	592	606	482	454	461
10	508	486	494	662	594	630	608	596	602	504	484	491
11	532	500	512	662	492	566	626	602	611	522	508	518
12	532	516	526	482	424	445	640	606	619	556	520	546
13	532	508	520	448	400	420	626	588	607	586	556	573
14	582	522	532	412	358	385	598	588	594	596	568	588
15	612	544	569	360	346	354	594	558	582	616	586	606
16	600	538	560	360	346	350	622	576	597	614	588	603
17	790	552	669	392	350	368	612	570	592	614	580	602
18	694	614	673	406	390	398	604	574	587	610	594	601
19	608	462	531	416	396	405	592	568	581	606	490	573
20	456	380	410	412	398	406	590	566	576	446	376	410
21	468	378	415	427	403	414	592	568	582	398	354	373
22	432	390	407	462	418	436	600	546	566	372	332	348
23	396	388	391	487	463	472	542	506	518	428	372	393
24	424	396	410	498	474	485	512	492	500	464	432	443
25	434	424	430	502	470	486	540	514	524	484	466	473
26	444	428	435	496	480	488	548	542	545	506	486	500
27	466	438	454	520	488	502	580	546	570	522	410	488
28	464	452	458	528	506	514	592	580	587	524	448	504
29	---	---	---	528	510	513	604	576	596	528	506	515
30	---	---	---	538	520	525	618	598	608	552	532	538
31	---	---	---	544	524	531	---	---	---	562	544	553
MONTH	996	320	503	768	346	436	640	492	581	632	332	527
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN

7378

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	572	552	562	484	426	469	450	428	437	508	484	497
2	576	562	570	426	266	331	460	448	456	496	482	488
3	584	560	573	316	250	267	458	450	455	498	476	487
4	570	560	567	324	254	282	484	450	464	492	470	479
5	566	366	490	392	324	359	510	488	495	494	478	484
6	430	342	385	440	396	412	522	500	509	506	482	490
7	416	342	391	476	442	457	510	358	453	542	510	531
8	384	358	373	508	478	487	496	462	481	546	532	539
9	456	386	419	472	308	380	486	468	479	548	538	544
10	528	466	478	336	270	287	500	402	477	550	524	533
11	520	378	502	346	272	300	514	390	471	534	512	523
12	520	406	506	360	348	353	520	472	499	520	486	502
13	482	332	415	414	360	378	484	466	470	516	488	504
14	424	274	351	468	418	443	536	488	519	518	492	507
15	346	314	330	494	470	479	528	506	517	526	508	521
16	328	314	321	516	492	498	522	494	507	546	522	532
17	336	326	331	514	506	511	502	494	498	542	528	532
18	338	318	328	514	490	498	504	498	500	542	404	499
19	360	326	338	506	488	495	512	492	499	530	454	516
20	362	334	348	494	480	487	506	494	498	530	496	514
21	376	356	364	492	466	478	510	498	504	516	504	510
22	386	372	379	494	470	479	512	492	501	510	410	482
23	384	342	367	484	466	473	518	498	510	500	410	465
24	374	322	340	484	470	476	504	474	485	456	408	441
25	400	334	355	482	458	469	498	482	492	510	432	468
26	456	404	423	484	446	462	506	476	495	496	438	464
27	494	458	469	462	432	458	512	480	493	502	434	466
28	458	470	476	462	438	449	508	482	494	474	412	454
29	488	462	468	466	338	392	514	476	498	510	464	482
30	458	466	475	376	322	350	508	494	500	526	506	513
31	---	---	---	426	378	396	504	494	499	---	---	---
MONTH	584	274	424	514	250	421	536	358	489	550	404	499
YEAR	996	250	486									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.20	7.20	7.20	7.30	7.20	7.20	7.60	7.50	7.60	8.00	7.70	7.70
2	7.20	7.20	7.20	7.30	7.20	7.20	7.60	7.30	7.60	7.80	7.70	7.70
3	7.20	7.20	7.20	7.30	7.20	7.20	7.60	7.50	7.60	7.80	7.60	7.70
4	7.20	7.20	7.20	7.40	7.30	7.30	7.60	7.50	7.60	7.70	7.70	7.70
5	7.20	7.20	7.20	7.50	7.40	7.50	---	---	---	7.80	7.60	7.60
6	7.30	7.20	7.20	7.40	7.20	7.30	---	---	---	7.80	7.50	7.70
7	7.30	7.20	7.20	7.20	7.20	7.20	---	---	---	7.70	7.50	7.70
8	7.30	7.20	7.20	7.40	7.20	7.30	---	---	---	7.70	7.50	7.60
9	7.40	7.20	7.20	7.60	7.40	7.40	---	---	---	7.70	7.50	7.60
10	7.30	7.20	7.20	7.50	7.30	7.40	---	---	---	7.50	7.50	7.60
11	7.40	7.20	7.20	7.50	7.40	7.50	7.90	7.80	7.90	7.70	7.50	7.50
12	7.40	7.20	7.20	7.40	7.40	7.40	7.90	7.70	7.80	7.50	7.40	7.50
13	7.30	7.20	7.20	7.40	7.40	7.40	7.70	7.60	7.70	7.40	7.30	7.40
14	7.30	7.20	7.20	7.60	7.40	7.50	7.70	7.50	7.60	7.50	7.40	7.40
15	7.20	7.30	7.20	7.50	7.40	7.50	7.60	7.50	7.50	7.80	7.50	7.50
16	7.30	7.20	7.20	7.50	7.50	7.50	7.90	7.50	7.70	7.50	7.40	7.40
17	7.30	7.20	7.20	7.50	7.40	7.50	7.50	7.40	7.50	7.60	7.40	7.45
18	7.30	7.20	7.20	7.50	7.40	7.40	7.70	7.40	7.50	7.70	7.40	7.50
19	7.20	7.20	7.20	7.60	7.40	7.50	7.60	7.40	7.50	7.70	7.40	7.60
20	7.20	7.20	7.20	7.60	7.50	7.60	7.60	7.30	7.40	7.60	7.50	7.50
21	7.20	7.20	7.20	7.60	7.50	7.60	7.60	7.40	7.40	7.60	7.50	7.50
22	7.20	7.20	7.20	7.80	7.50	7.60	7.60	7.40	7.50	7.70	7.50	7.60
23	7.30	7.20	7.20	7.70	7.60	7.60	7.50	7.40	7.50	7.70	7.60	7.70
24	7.20	7.20	7.20	7.70	7.60	7.60	7.60	7.50	7.50	7.80	7.60	7.70
25	7.30	7.20	7.20	7.60	7.50	7.60	7.90	7.50	7.60	7.80	7.60	7.70
26	7.30	7.20	7.20	7.60	7.60	7.60	7.60	7.30	7.50	7.90	7.50	7.80
27	7.30	7.20	7.20	7.60	7.50	7.60	7.60	7.50	7.50	7.80	7.70	7.70
28	7.30	7.20	7.20	7.60	7.50	7.50	8.00	7.50	7.50	7.80	7.50	7.70
29	7.30	7.20	7.20	7.60	7.50	7.50	8.90	7.50	8.00	7.80	7.60	7.80
30	7.20	7.20	7.20	7.60	7.50	7.50	8.10	7.60	7.80	7.80	7.60	7.70
31	7.20	7.20	7.20	---	---	---	7.70	7.50	7.60	7.80	7.70	7.70
MONTH	7.40	7.10	7.20	7.80	7.20	7.45	8.90	7.30	7.60	8.00	7.30	7.61

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.70	7.60	7.60	8.00	7.70	7.80	8.10	7.60	7.80	7.40	7.20	7.30
2	7.80	7.40	7.70	7.80	7.70	7.80	7.90	7.60	7.70	7.40	7.20	7.30
3	8.10	7.70	7.80	7.80	7.70	7.70	7.80	7.60	7.70	7.50	7.30	7.40
4	7.90	7.70	7.80	7.80	7.70	7.70	7.70	7.40	7.60	7.70	7.40	7.50
5	7.90	7.60	7.70	7.80	7.60	7.70	7.50	7.50	7.50	7.70	7.40	7.50
6	7.70	7.50	7.60	7.80	7.50	7.70	7.80	7.40	7.60	7.70	7.30	7.50
7	7.60	7.50	7.60	7.80	7.60	7.80	7.90	7.50	7.60	7.50	7.30	7.40
8	8.10	7.50	7.70	7.80	7.50	7.70	7.70	7.50	7.60	7.50	6.90	7.40
9	7.80	7.60	7.70	8.00	7.80	7.90	7.70	7.50	7.60	7.50	7.30	7.40
10	7.80	7.70	7.70	7.90	7.70	7.80	7.60	7.50	7.60	7.50	7.30	7.40
11	7.80	7.70	7.70	7.80	7.70	7.80	7.70	7.50	7.60	7.40	7.30	7.40
12	7.80	7.70	7.70	7.80	7.40	7.60	7.90	7.60	7.70	7.50	7.30	7.30
13	7.80	7.70	7.80	7.80	7.50	7.70	7.90	7.60	7.70	7.40	7.30	7.30
14	7.90	7.80	7.80	7.90	7.60	7.70	7.80	7.50	7.60	7.40	7.30	7.30
15	8.00	7.20	7.70	7.80	7.60	7.60	7.80	7.50	7.60	7.40	7.30	7.30
16	7.90	7.80	7.80	7.70	7.60	7.60	7.70	7.50	7.60	7.40	7.30	7.30
17	7.80	7.70	7.70	7.90	7.60	7.70	7.80	7.10	7.60	7.60	7.30	7.40
18	7.80	7.70	7.70	7.70	7.60	7.70	8.00	7.60	7.70	7.60	7.30	7.40
19	7.80	7.70	7.70	7.70	7.60	7.60	8.20	7.60	7.90	7.40	7.20	7.30
20	7.70	7.60	7.70	7.90	7.70	7.90	7.70	7.60	7.60	7.40	7.30	7.40
21	7.80	7.60	7.70	7.90	7.80	7.90	7.70	7.50	7.60	7.40	7.40	7.40
22	7.80	7.60	7.70	8.00	7.80	7.90	7.80	7.50	7.70	7.50	7.40	7.40
23	7.70	7.70	7.70	8.00	7.80	7.90	7.80	7.60	7.70	7.40	7.40	7.40
24	7.80	7.70	7.80	7.80	7.70	7.80	7.60	7.40	7.50	7.40	7.30	7.30
25	7.80	7.70	7.70	7.70	7.40	7.60	7.50	7.30	7.40	7.30	7.30	7.30
26	7.80	7.60	7.70	7.60	7.50	7.60	7.50	7.30	7.40	7.30	7.30	7.30
27	7.80	7.70	7.80	7.70	7.50	7.60	7.70	7.30	7.40	7.30	7.20	7.30
28	7.80	7.80	7.80	7.80	7.50	7.60	7.50	7.30	7.40	7.40	7.30	7.40
29	---	---	---	7.90	7.60	7.70	7.50	7.20	7.40	7.50	7.30	7.40
30	---	---	---	8.10	7.60	7.80	7.40	7.30	7.30	7.40	7.30	7.30
31	---	---	---	8.10	7.50	7.70	---	---	---	7.60	7.30	7.40
MONTH	8.10	7.20	7.72	8.10	7.40	7.73	8.30	7.10	7.59	7.70	6.90	7.37

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.60	7.30	7.40	7.20	7.00	7.10	7.30	7.10	7.20	7.30	7.20	7.20
2	7.70	7.30	7.50	7.40	7.00	7.10	7.30	7.00	7.20	7.30	7.20	7.20
3	7.70	7.30	7.40	7.10	7.00	7.10	7.30	7.20	7.20	7.20	7.20	7.20
4	7.60	7.30	7.40	7.20	7.00	7.20	7.30	7.20	7.20	7.20	7.10	7.20
5	7.50	7.30	7.40	7.30	7.20	7.30	7.20	7.10	7.20	7.20	7.10	7.10
6	7.50	7.30	7.40	7.30	7.20	7.30	7.20	7.00	7.20	7.20	7.20	7.20
7	7.50	7.40	7.40	7.40	7.20	7.30	7.30	7.10	7.20	7.20	7.10	7.20
8	7.40	7.30	7.40	7.30	7.20	7.20	7.40	7.10	7.20	7.30	7.10	7.20
9	7.40	7.30	7.30	7.40	7.20	7.30	7.40	7.20	7.30	7.40	7.20	7.20
10	7.30	7.30	7.30	7.40	7.10	7.30	7.30	7.20	7.20	7.30	7.20	7.20
11	7.30	7.20	7.30	7.30	7.20	7.30	7.30	7.10	7.20	7.30	7.20	7.20
12	7.30	7.20	7.30	7.40	7.30	7.30	7.30	7.10	7.20	7.30	7.10	7.20
13	7.60	7.30	7.50	7.50	7.30	7.30	7.30	7.20	7.20	7.30	7.20	7.20
14	7.40	7.20	7.30	7.40	7.20	7.30	7.30	7.20	7.20	7.40	7.20	7.30
15	7.50	7.30	7.40	7.40	7.30	7.30	7.30	7.20	7.20	7.40	7.30	7.30
16	7.50	7.40	7.40	7.30	7.20	7.30	7.30	7.10	7.20	7.40	7.30	7.30
17	7.40	7.30	7.40	7.40	7.20	7.30	7.30	7.20	7.20	7.40	7.30	7.30
18	7.40	7.30	7.40	7.30	7.20	7.20	7.30	7.20	7.20	7.40	7.30	7.30
19	7.40	7.00	7.30	7.40	7.30	7.30	7.30	7.20	7.20	7.40	7.30	7.30
20	7.50	7.20	7.40	7.40	7.10	7.30	7.30	7.10	7.20	7.40	7.20	7.30
21	7.50	7.30	7.40	7.50	7.20	7.30	7.20	7.10	7.20	7.30	7.30	7.30
22	7.40	7.30	7.30	7.40	7.10	7.20	7.20	7.00	7.10	7.30	7.20	7.30
23	7.30	7.20	7.30	7.40	7.10	7.20	7.50	7.10	7.30	7.30	7.20	7.30
24	7.30	7.10	7.20	7.40	7.10	7.20	7.30	7.20	7.30	7.30	7.20	7.30
25	7.20	7.10	7.10	7.30	7.10	7.20	7.30	7.10	7.20	7.30	7.20	7.20
26	7.20	7.10	7.10	7.30	7.10	7.20	7.20	7.10	7.20	7.30	7.20	7.30
27	7.20	7.00	7.10	7.30	7.10	7.20	7.20	7.10	7.20	7.40	7.30	7.30
28	7.20	6.90	7.00	7.20	7.10	7.20	7.30	7.10	7.20	7.40	7.30	7.30
29	7.20	7.00	7.10	7.20	7.10	7.20	7.20	7.10	7.20	7.30	7.30	7.30
30	7.20	7.00	7.10	7.10	6.90	7.10	7.30	7.10	7.20	7.30	7.20	7.30
31	---	---	---	7.20	7.10	7.10	7.30	7.20	7.20	---	---	---
MONTH	7.70	6.90	7.31	7.50	6.90	7.23	7.50	7.00	7.21	7.40	7.10	7.26
YEAR	8.90	6.90	7.43									

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.0	20.0	20.5	17.0	16.0	16.5	9.5	8.0	9.0	3.5	3.0	3.0
2	21.0	20.0	20.5	16.5	15.0	15.5	9.5	7.0	8.0	4.0	3.0	3.5
3	20.5	19.5	20.0	17.[illegible]	15.0	16.5	7.0	5.5	6.5	5.0	4.0	4.5
4	21.0	20.0	20.5	14.5	13.0	14.0	5.5	5.5	5.5	5.0	4.0	4.5
5	20.0	17.5	18.5	13.0	12.0	12.5	---	---	---	5.5	3.0	4.0
6	17.0	16.5	17.0	12.0	11.0	11.5	---	---	---	3.5	3.0	3.0
7	18.5	16.0	17.0	10.5	10.5	10.5	---	---	---	2.5	2.0	2.5
8	19.5	18.0	19.0	10.5	10.0	10.5	---	---	---	2.5	2.0	2.0
9	20.5	19.0	19.5	11.0	10.0	10.5	---	---	---	4.0	1.5	2.5
10	21.0	19.5	20.5	11.5	11.0	11.0	---	---	---	4.0	3.5	3.5
11	21.0	20.0	20.5	11.0	10.5	10.5	6.0	6.0	6.0	4.5	3.5	4.0
12	20.0	19.5	20.0	11.0	10.5	10.5	6.0	5.5	6.0	5.5	4.5	5.0
13	21.5	19.5	20.5	12.0	11.0	11.5	5.5	5.0	5.5	5.0	4.0	4.5
14	20.0	19.0	19.5	13.0	12.0	12.5	4.5	3.0	4.0	4.5	3.5	4.0
15	21.0	19.5	20.5	12.5	11.5	12.0	3.0	2.5	2.5	5.0	4.0	4.5
16	20.5	18.5	19.5	11.5	10.0	11.0	2.5	2.5	2.5	5.5	4.0	4.5
17	18.5	17.5	18.0	10.0	9.5	10.0	2.0	2.0	2.0	7.0	5.5	6.0
18	19.0	17.5	18.5	9.5	9.0	9.5	1.5	1.0	1.0	7.5	7.0	7.5
19	19.0	18.5	19.0	11.0	9.5	10.5	1.0	.5	.5	7.0	3.5	5.0
20	19.0	17.5	18.0	12.0	11.0	11.5	1.0	.5	.5	2.5	2.5	2.5
21	17.5	17.0	17.0	11.5	10.0	10.5	1.0	.5	1.0	2.5	2.0	2.5
22	17.5	17.0	17.0	10.0	9.0	10.0	1.0	.5	.5	3.0	2.0	2.5
23	16.5	17.0	18.0	9.0	8.5	9.0	2.0	1.0	1.5	4.0	3.0	3.5
24	19.0	18.0	18.5	9.0	8.5	8.5	2.5	2.0	2.5	4.0	3.0	3.5
25	19.0	17.5	18.5	8.5	8.0	8.5	2.0	1.0	2.0	3.5	3.0	3.5
26	18.0	16.5	17.5	9.5	8.0	9.0	1	.0	.5	4.0	3.5	3.5
27	17.5	16.5	17.0	9.0	8.5	9.0	1.5	.5	1.0	3.5	2.5	3.0
28	17.0	15.5	16.5	8.5	8.0	8.0	1.5	1.0	1.5	2.5	1.5	2.0
29	15.5	14.5	15.0	8.0	7.5	7.5	2.0	1.5	1.5	2.5	1.5	2.0
30	16.5	15.0	16.0	8.0	7.5	8.0	2.5	1.5	2.0	3.5	2.5	3.5
31	17.0	16.0	16.5	---	---	---	3.0	2.0	2.5	4.5	3.0	3.5
MONTH	21.5	14.5	18.5	17.5	7.5	11.0	9.5	.0	3.0	7.5	1.5	3.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.0	4.5	5.0	4.5	2.5	3.5	17.5	15.0	16.0	20.0	18.5	19.0
2	6.5	5.5	6.0	5.0	3.5	4.0	17.0	15.0	16.0	18.0	16.0	17.0
3	6.0	2.5	4.5	5.5	4.5	5.0	16.5	14.5	16.0	17.0	15.0	16.0
4	4.0	3.5	4.0	6.0	5.5	6.0	17.0	16.0	16.5	18.0	14.5	16.5
5	4.0	3.5	4.0	7.0	6.0	6.5	17.5	16.5	17.0	19.5	16.5	18.0
6	4.0	3.5	4.0	6.0	5.0	5.5	17.5	16.5	17.0	21.0	18.0	19.5
7	4.0	3.5	4.0	5.0	3.5	4.5	18.0	16.5	17.5	21.0	18.5	19.5
8	4.0	3.5	4.0	4.5	3.0	4.0	17.5	16.0	17.0	20.0	18.0	19.0
9	4.5	4.0	4.0	6.0	4.0	5.0	16.0	14.0	15.0	19.0	17.5	18.5
10	4.5	3.5	4.0	7.5	5.5	6.5	14.0	12.0	13.0	20.5	17.5	19.0
11	4.5	3.5	4.0	7.5	5.5	6.0	12.0	11.5	12.0	21.0	18.5	19.5
12	4.0	3.5	4.0	5.0	5.0	5.0	12.5	10.5	11.5	21.5	18.5	20.0
13	4.0	3.0	3.5	5.5	5.0	5.5	13.5	11.0	12.0	20.0	19.0	19.5
14	3.5	3.0	3.5	6.0	5.5	5.5	15.0	12.5	14.0	20.0	18.5	19.0
15	4.0	3.5	3.5	7.0	6.0	7.0	15.5	14.0	14.5	20.5	19.0	19.5
16	4.0	3.5	3.5	7.0	6.5	6.5	14.5	12.5	13.5	22.0	20.0	21.0
17	5.0	4.0	3.5	6.5	5.5	6.0	14.0	12.5	13.0	22.5	20.5	21.5
18	5.0	4.5	5.0	6.5	5.5	6.0	15.5	12.5	14.0	24.5	21.5	23.0
19	4.5	4.0	4.5	8.0	6.5	7.5	16.5	14.0	15.5	24.5	23.0	23.5
20	4.0	3.5	3.5	7.5	6.0	7.0	16.0	16.0	16.0	21.5	18.5	20.0
21	4.0	3.5	4.0	6.5	5.5	6.0	16.0	15.0	15.5	18.5	16.5	17.5
22	3.5	3.5	3.5	7.0	5.0	6.0	15.0	13.5	14.5	16.5	16.0	16.5
23	3.5	3.0	3.5	7.0	5.5	6.5	13.5	12.0	13.0	17.0	15.5	16.5
24	4.0	3.5	3.5	8.5	7.0	7.5	14.5	11.5	13.0	18.0	16.5	17.0
25	4.5	3.5	4.0	10.0	7.0	8.5	14.0	13.0	13.5	19.5	17.0	18.5
26	4.5	3.5	4.0	11.5	9.5	10.5	17.0	13.5	15.5	21.0	18.5	20.0
27	5.0	3.5	4.0	11.5	11.0	11.0	19.0	15.5	17.5	20.5	20.0	20.0
28	4.0	3.0	3.5	12.5	10.0	11.5	21.0	18.0	19.5	22.0	20.0	21.0
29	---	---	---	14.0	11.5	12.5	20.5	19.0	19.5	23.0	21.0	22.0
30	---	---	---	15.5	12.5	14.0	19.0	18.0	18.5	23.5	22.0	22.5
31	---	---	---	16.5	14.0	15.5	---	---	---	24.5	22.0	23.5
MONTH	6.5	3.0	4.0	16.5	2.5	7.0	21.0	10.5	15.0	24.5	14.5	19.5

03099510 MAHONING RIVER AT OHIO-PENNSYLVANIA STATE LINE, BELOW LOWELLVILLE, OH--Continued 7378

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	23.0	24.5	25.0	23.5	24.0	26.0	24.5	25.0	23.5	21.5	22.5
2	25.0	24.0	24.5	24.0	21.5	22.5	26.5	25.0	26.0	23.5	22.0	23.0
3	24.5	22.0	23.5	21.5	20.5	21.0	27.5	26.5	27.0	24.0	22.0	23.0
4	24.5	22.5	23.5	22.0	20.0	21.0	27.5	25.5	26.5	24.5	23.5	24.0
5	23.5	20.5	21.5	24.0	21.0	22.5	28.0	25.5	26.5	25.0	24.0	24.5
6	21.5	20.5	21.0	25.5	23.0	24.5	27.5	26.0	26.5	24.5	23.0	23.5
7	22.0	20.0	21.0	27.0	24.5	26.0	27.0	24.0	26.0	23.5	21.5	22.5
8	23.5	22.0	22.5	27.5	26.0	26.5	27.5	26.0	26.5	21.5	20.0	20.5
9	24.5	22.0	23.5	26.5	24.0	25.5	27.0	25.0	26.0	21.0	19.5	20.0
10	24.0	22.5	23.5	24.0	22.5	23.0	27.0	25.5	26.5	21.0	19.0	20.0
11	25.0	23.5	24.0	23.0	22.0	22.5	27.0	25.5	26.5	21.5	20.5	21.0
12	25.0	23.5	24.0	24.0	22.5	23.0	26.5	24.5	25.5	21.5	20.5	21.0
13	24.5	22.0	22.5	24.5	23.5	24.0	26.5	24.5	25.5	22.0	20.0	21.0
14	22.0	21.5	22.0	25.5	24.0	24.5	27.0	25.0	26.0	21.5	20.0	21.0
15	24.0	22.0	23.0	26.5	24.0	25.0	28.5	26.0	27.0	21.5	19.5	20.5
16	24.5	23.0	24.0	26.0	25.5	25.5	28.0	27.0	27.5	21.5	19.5	20.5
17	24.0	22.5	23.0	28.5	26.0	27.0	29.0	27.0	28.0	21.0	19.5	20.5
18	23.0	21.5	22.0	29.5	27.0	28.5	28.5	27.0	27.5	20.5	19.0	19.5
19	22.0	21.0	21.5	30.0	28.0	29.0	27.5	25.5	26.5	21.0	19.5	20.0
20	23.0	21.5	22.0	30.0	28.0	29.0	28.5	26.0	27.5	21.5	20.0	21.0
21	24.0	22.0	23.0	29.0	27.5	28.0	28.5	27.0	28.0	22.5	21.0	21.5
22	25.5	22.5	24.0	28.5	26.5	27.5	29.0	27.5	28.0	23.0	21.0	22.0
23	25.5	23.5	24.5	29.0	26.5	27.5	29.0	27.5	28.0	24.0	23.0	23.0
24	24.5	22.5	23.5	29.0	27.5	28.0	28.0	26.5	27.5	23.0	22.5	22.5
25	23.0	21.0	22.0	29.5	27.0	28.0	26.5	25.5	26.0	23.0	23.0	23.0
26	23.5	21.0	22.0	29.0	27.0	27.5	26.5	24.5	25.5	24.0	23.0	23.5
27	24.0	22.0	23.0	28.5	26.5	27.5	26.0	24.5	25.5	24.0	23.0	23.5
28	26.0	24.0	25.0	27.5	26.0	26.5	25.0	23.5	24.5	23.5	23.0	23.0
29	26.5	25.0	25.5	26.5	24.0	25.5	24.0	22.5	23.5	24.5	23.0	24.0
30	25.5	24.0	24.5	24.5	23.5	24.0	24.5	22.5	23.5	25.5	24.0	25.0
31	---	---	---	25.5	23.5	24.5	24.5	22.5	23.5	---	---	---
MONTH	26.5	20.0	23.0	30.0	20.0	25.5	29.0	22.5	26.0	25.5	19.0	22.0
YEAR	30.0	.0	15.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4.0	3.5	3.7	4.0	3.6	3.8	11.4	10.6	11.2	13.2	12.8	13.0
2	4.0	3.5	4.0	4.3	3.6	3.9	11.4	10.8	11.1	13.1	12.7	12.9
3	4.5	3.7	4.0	4.4	4.1	4.2	11.9	11.4	11.8	12.7	12.3	12.5
4	4.5	3.5	3.9	6.9	4.5	5.4	12.1	11.9	12.0	12.7	12.3	12.5
5	3.9	3.4	3.6	7.5	6.9	7.2	---	---	---	13.1	12.2	12.7
6	4.1	3.5	3.7	7.7	7.3	7.6	---	---	---	13.2	12.8	13.0
7	4.4	3.2	3.7	9.1	7.1	8.3	---	---	---	13.5	13.1	13.3
8	4.0	3.1	3.4	9.3	9.1	9.2	---	---	---	13.5	12.0	12.8
9	4.5	3.1	3.6	9.3	8.9	9.1	---	---	---	12.0	11.2	11.8
10	4.0	3.1	3.4	9.1	8.8	8.9	---	---	---	11.6	11.2	11.5
11	3.9	3.0	3.3	9.5	9.1	9.2	12.0	11.7	11.9	11.4	10.9	11.1
12	3.5	3.1	3.2	9.6	9.4	9.5	11.7	11.5	11.6	10.8	10.3	10.6
13	3.6	3.0	3.2	9.5	9.3	9.4	11.6	11.5	11.5	10.8	10.2	10.5
14	3.5	3.0	3.2	9.9	9.3	9.6	12.3	11.6	12.0	10.6	10.3	10.4
15	3.6	3.1	3.3	10.2	9.8	10.1	12.7	12.3	12.5	10.6	10.0	10.3
16	4.0	3.0	3.5	10.6	10.2	10.4	12.7	12.5	12.6	10.4	10.0	10.2
17	4.4	3.5	3.9	10.7	10.5	10.6	12.7	12.5	12.7	10.4	9.7	9.9
18	4.4	3.6	3.9	10.8	10.6	10.7	13.0	12.7	12.9	10.5	9.2	10.0
19	3.9	3.5	3.7	10.9	10.5	10.7	13.2	13.1	13.1	11.9	10.4	11.3
20	3.9	3.3	3.6	10.5	10.4	10.4	13.2	12.9	13.1	12.5	11.9	12.3
21	3.8	3.6	3.7	10.8	10.4	10.6	13.1	12.9	13.0	12.8	12.5	12.7
22	3.9	3.4	3.7	11.0	10.7	10.8	12.9	12.6	12.8	12.6	12.5	12.5
23	4.2	3.5	3.8	11.3	10.9	11.1	13.6	12.5	13.0	12.6	12.4	12.5
24	4.0	3.6	3.7	11.3	11.0	11.2	13.5	13.2	13.3	12.5	12.4	12.4
25	4.2	3.5	3.8	11.3	11.2	11.3	13.8	13.3	13.6	12.5	12.2	12.4
26	4.3	3.6	3.9	11.3	10.7	11.0	14.1	13.8	14.0	12.3	11.5	12.1
27	4.3	3.6	3.9	11.1	10.9	11.0	14.1	13.6	13.9	12.1	11.8	11.9
28	4.2	3.7	4.0	11.2	11.0	11.1	13.9	13.4	13.7	12.1	11.8	12.0
29	4.3	3.6	4.0	11.5	11.1	11.4	13.5	13.4	13.4	12.1	11.8	12.0
30	3.9	3.6	3.8	11.5	11.4	11.4	13.5	13.2	13.4	11.7	11.4	11.6
31	4.0	3.5	3.8	---	---	---	13.3	12.8	13.2	11.4	11.1	11.3
MONTH	4.6	3.0	3.7	11.5	3.6	9.3	14.1	10.6	12.7	13.5	9.2	11.8

7378

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.1	10.4	10.7	12.5	12.2	12.4	9.9	6.7	8.3	6.3	3.4	4.6
2	11.3	9.9	10.8	12.5	11.8	12.2	9.9	6.6	8.3	6.7	3.2	4.8
3	12.1	11.2	11.8	12.0	11.4	11.8	9.5	7.1	8.2	7.3	4.4	5.8
4	12.2	12.0	12.1	11.5	11.1	11.3	9.0	6.7	7.7	8.0	4.9	6.3
5	12.1	12.0	12.0	11.2	11.0	11.1	7.6	6.1	7.0	7.9	4.5	6.0
6	12.9	11.3	12.1	11.3	11.0	11.2	7.9	6.6	7.2	7.4	3.8	5.6
7	12.6	12.5	12.6	11.7	11.1	11.4	8.1	6.3	7.1	6.8	2.4	5.6
8	12.7	12.5	12.6	12.0	11.5	11.7	7.9	5.7	7.0	7.4	5.9	6.7
9	12.7	12.4	12.5	11.7	11.1	11.5	8.8	6.2	7.6	7.4	5.4	6.5
10	12.8	12.4	12.5	11.6	10.8	11.3	8.6	7.0	7.8	6.6	4.6	5.5
11	12.7	12.4	12.5	11.9	10.6	11.6	9.0	7.0	8.1	5.8	4.1	4.8
12	12.7	12.3	12.4	12.1	12.0	12.0	10.7	7.8	9.2	5.2	3.5	4.2
13	12.9	12.3	12.6	12.1	12.0	12.0	9.8	7.8	8.6	5.1	3.4	4.1
14	12.8	12.4	12.6	12.2	11.9	12.0	8.5	7.1	7.9	5.8	3.2	4.4
15	12.6	12.4	12.5	11.8	11.7	11.7	8.4	6.7	7.6	5.2	3.3	4.3
16	12.6	12.3	12.4	11.9	11.7	11.8	8.8	7.0	7.9	5.7	3.2	4.3
17	12.2	11.9	12.1	12.1	11.8	12.0	9.7	7.3	8.4	6.2	2.7	4.3
18	12.4	12.0	12.2	12.2	11.8	12.0	10.8	7.4	8.8	5.5	2.7	3.9
19	12.8	12.2	12.6	11.8	11.3	11.6	11.2	7.1	8.8	4.1	2.1	3.1
20	13.0	12.7	12.9	12.0	11.4	11.7	7.6	6.3	7.0	5.5	3.1	4.9
21	12.8	12.6	12.7	12.4	11.9	12.1	8.0	5.8	7.0	6.5	5.5	6.2
22	13.0	12.8	12.9	12.5	11.7	12.1	8.8	6.4	7.7	7.8	6.6	7.3
23	13.0	12.8	12.9	11.9	11.0	11.5	9.8	7.9	8.9	7.4	6.3	7.0
24	12.9	12.6	12.8	11.5	10.6	11.0	9.9	8.0	8.9	6.6	5.8	6.2
25	12.8	12.6	12.7	10.8	10.1	10.5	8.6	7.2	7.8	5.7	5.0	5.4
26	12.8	12.4	12.6	10.4	9.5	9.9	8.6	6.3	7.4	5.5	4.6	5.0
27	12.4	11.6	12.3	9.7	8.7	9.3	7.6	5.7	6.6	5.0	4.1	4.5
28	12.4	12.2	12.3	9.6	8.9	9.3	7.4	5.3	6.2	6.3	4.6	5.4
29	---	---	---	9.4	8.7	9.0	7.7	4.7	6.1	6.4	4.4	5.2
30	---	---	---	10.7	8.1	9.1	7.2	4.5	5.6	6.1	3.8	4.9
31	---	---	---	10.1	7.7	8.8	---	---	---	6.7	3.5	5.0
MONTH	13.0	9.9	12.4	12.5	7.7	11.2	11.2	4.5	7.7	8.0	2.1	5.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.9	3.1	4.8	6.0	3.7	4.9	5.0	3.5	4.1	6.0	4.1	4.9
2	7.7	3.3	5.2	6.6	4.6	5.9	6.1	3.1	4.4	5.7	3.7	4.6
3	7.9	3.2	5.3	7.0	6.4	6.7	4.5	3.0	3.8	5.5	3.4	4.4
4	7.6	3.2	5.3	7.2	6.8	7.1	4.6	3.0	3.7	5.4	3.3	4.2
5	6.6	2.8	5.8	7.1	5.8	6.7	4.4	2.6	3.4	4.9	3.3	4.1
6	6.7	5.3	6.2	6.1	5.3	5.7	4.0	2.6	3.2	5.0	3.0	3.8
7	7.0	5.7	6.5	5.4	4.3	4.9	5.0	2.2	3.7	4.1	2.7	3.3
8	6.3	5.6	6.0	5.0	3.5	4.2	4.0	2.3	3.0	5.1	3.0	3.8
9	6.1	4.4	5.5	5.9	3.4	5.0	4.1	2.2	3.1	4.7	2.9	3.7
10	5.2	4.1	4.6	6.7	5.9	6.4	3.0	2.2	2.6	4.4	3.1	3.8
11	4.6	3.2	3.9	6.8	6.1	6.5	4.0	2.5	3.1	6.0	4.1	5.1
12	4.6	3.2	3.9	6.8	5.7	6.3	3.7	2.2	2.9	5.9	3.7	5.1
13	5.6	3.7	5.1	6.5	5.3	5.9	3.5	2.2	2.9	6.2	4.7	5.4
14	7.2	5.3	6.1	6.1	4.2	5.4	6.0	2.0	4.0	6.1	4.5	5.2
15	7.0	6.0	6.6	5.6	3.9	4.7	5.4	3.0	4.1	6.0	4.7	5.4
16	6.8	6.1	6.4	5.0	3.6	4.2	5.4	3.1	3.9	6.2	4.0	5.0
17	6.9	6.2	6.6	5.3	3.7	4.4	5.3	3.1	4.0	6.4	4.6	5.4
18	7.3	6.5	6.9	5.7	3.4	4.4	5.3	3.2	4.1	5.9	4.4	5.0
19	7.4	6.0	6.9	5.5	3.3	4.2	5.6	2.9	4.1	6.3	5.6	5.9
20	7.0	6.2	6.6	5.2	3.1	4.2	5.3	3.1	4.1	6.0	4.8	5.4
21	7.1	6.0	6.5	5.6	3.3	4.4	5.3	2.8	3.9	5.7	4.3	5.0
22	6.8	5.6	6.2	6.3	3.1	4.5	4.8	2.9	3.8	5.0	4.2	4.6
23	6.6	4.9	5.8	6.5	3.3	4.6	4.6	2.9	3.6	5.0	4.3	4.7
24	6.8	5.5	6.2	6.1	3.4	4.5	5.2	2.6	3.8	5.6	4.4	5.1
25	7.0	5.6	6.4	5.8	3.3	4.2	5.0	3.1	3.8	5.6	4.1	4.8
26	5.7	5.3	5.9	4.9	2.5	3.7	5.6	2.9	4.1	5.8	4.7	5.3
27	6.0	4.3	5.2	5.3	3.1	4.0	4.9	3.2	4.1	6.4	4.7	5.7
28	6.0	3.9	4.8	4.9	3.3	4.0	5.4	3.9	4.6	6.4	4.8	5.8
29	6.6	4.1	5.1	5.3	3.0	4.4	5.5	3.8	4.6	5.8	4.3	5.3
30	5.6	4.2	4.8	5.7	4.3	4.7	5.8	3.9	4.8	5.2	3.8	4.6
31	---	---	---	5.0	3.9	4.4	5.6	3.8	4.6	---	---	---
MONTH	7.9	2.8	5.7	7.2	2.6	5.0	6.1	2.0	3.8	6.4	2.7	4.8
YEAR	14.1	2.0	7.7									

000060

03102950 PYMATUNING CREEK AT KINSMAN, OH

LOCATION.--Lat 41°26'34", long 80°55'18", 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^2.

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: Dec. 17 to Jan. 2, 9-16, Jan. 27 to Feb. 1, 11-16. Records good, except for periods of estimated record, which are poor. Water-quality data collected at this site 1966 to 1977.

AVERAGE DISCHARGE.--21 years, 129 ft^3/s, 18.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,740 ft^3/s Nov. 6, 1985, gage height, 12.40 ft from rating curve extended above 800 ft^3/s; minimum discharge, 0.10 ft^3/s Aug. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 6	0700	*2,740	*12.40	Feb. 21	1800	745	10.24
Nov. 17	0600	771	10.30	Mar. 13	2000	700	10.13
Nov. 29	0100	756	10.27	May 22	0100	895	10.56
Jan. 20	1700	907	10.58	June 12	0400	1,960	11.83
Feb. 5	1200	801	10.37				

Minimum daily discharge, 3.7 ft^3/s Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	29	412	39	42	70	36	30	31	20	5.8	9.6
2	5.3	29	367	39	122	58	32	27	41	37	5.3	12
3	4.9	36	319	74	170	54	29	24	32	47	7.3	14
4	4.9	121	268	90	251	57	28	20	23	45	7.7	16
5	4.5	1420	227	102	738	63	30	16	22	31	8.9	18
6	5.5	2530	191	101	754	69	37	14	55	22	6.3	19
7	6.1	1630	190	95	608	66	82	76	156	15	6.6	20
8	6.3	1030	185	83	418	70	78	109	336	11	6.1	20
9	6.0	697	176	58	286	59	65	124	481	108	5.6	19
10	6.2	584	164	50	182	129	59	106	414	387	15	19
11	8.8	672	283	45	100	407	78	62	459	259	59	20
12	9.2	593	548	42	80	446	99	35	1860	181	48	27
13	12	522	531	39	66	576	99	20	1530	116	27	30
14	17	480	477	37	58	641	90	12	1060	81	16	29
15	30	450	371	36	52	622	80	8.8	706	57	7.9	29
16	40	479	267	34	48	496	78	14	581	41	5.9	31
17	26	684	160	54	58	376	105	19	465	34	11	31
18	16	570	130	231	155	265	128	18	347	29	12	32
19	25	492	95	535	416	176	173	69	261	24	10	36
20	51	391	88	856	580	144	102	436	176	18	7.4	36
21	62	266	68	836	663	119	110	853	116	13	5.8	35
22	60	204	60	713	624	95	175	853	82	10	4.7	43
23	51	144	54	507	480	60	177	655	84	7.9	4.2	61
24	49	111	50	354	359	70	127	422	70	6.5	3.8	92
25	70	92	48	214	241	62	91	256	51	5.4	3.7	159
26	84	138	46	130	148	55	71	126	36	5.5	3.8	337
27	76	461	45	90	105	56	56	71	27	5.0	5.6	307
28	65	672	44	70	85	58	44	81	22	3.8	8.7	264
29	50	706	43	60	---	54	36	83	21	21	11	144
30	40	543	41	52	---	48	33	72	20	14	11	90
31	34	---	40	46	---	41	---	48	---	7.3	9.6	---
TOTAL	935.0	16798	5988	5712	7889	5581	2383	4761.8	9565	1662.4	351.1	2000.8
MEAN	30.0	560	193	184	282	180	79.4	154	319	53.6	11.3	66.7
MAX	84	2530	548	856	754	641	177	853	1860	387	59	337
MIN	4.3	29	40	34	42	41	28	8.8	20	3.8	3.7	9.8
CFSM	.31	5.79	2.00	1.90	2.92	1.86	.82	1.59	3.30	.55	.12	.69
IN.	.36	6.46	2.30	2.20	3.03	2.15	.92	1.83	3.68	.64	.14	.77

CAL YR 1985 TOTAL 52971.71 MEAN 145 MAX 2530 MIN .62 CFSM 1.50 IN. 20.36
WTR YR 1986 TOTAL 63622.1 MEAN 174 MAX 2530 MIN 3.7 CFSM 1.80 IN. 24.48

7378

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^2.

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. 16 to Jan. 17, Jan. 26 to Feb. 1, 14-17, Mar. 2-8. Records good except for periods of estimated records, which are poor. Water-quality data collected at this site 1964-1978. Sediment data collected at this site 1969 to 1974.

AVERAGE DISCHARGE.--71 years, 524 ft^3/s, 14.35 in/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	2000	5,670	9.16	Dec. 12	0100	5,870	9.31
Nov. 16	2300	*8,820	*11.00				

Minimum discharge, 33 ft^3/s Sept. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	74	1400	310	440	555	330	231	132	86	101	44
2	62	80	1610	300	1180	500	313	223	115	939	126	43
3	63	184	1170	300	1290	460	291	208	102	414	132	44
4	63	1360	937	300	1850	420	287	193	96	223	111	43
5	62	3950	883	290	3920	400	291	185	98	159	92	43
6	59	2240	869	290	2310	380	313	177	247	127	86	42
7	58	1060	844	280	1610	370	340	287	287	107	111	40
8	62	886	782	280	1290	360	326	378	259	159	137	38
9	64	654	705	280	1030	557	298	231	182	1150	105	36
10	63	1010	712	270	885	853	297	191	140	934	115	36
11	66	4100	2740	270	771	1870	332	170	128	499	155	35
12	65	4400	5010	270	661	1280	334	158	250	537	129	38
13	68	3890	2780	270	576	1730	293	149	259	917	95	51
14	74	2790	1790	260	520	2050	266	148	172	706	83	51
15	85	3190	1250	260	490	1670	280	149	239	437	76	44
16	86	5180	900	260	470	1300	330	160	171	325	77	42
17	80	6270	760	260	450	1040	346	156	139	287	80	40
18	75	2990	620	1140	1480	909	346	198	116	234	78	40
19	70	1830	580	1780	1870	928	296	175	103	193	77	59
20	79	1400	540	2370	2060	829	284	218	98	192	67	61
21	91	1120	500	1480	1860	658	365	351	94	180	60	57
22	94	969	450	1040	2000	588	411	234	87	153	57	52
23	85	890	430	843	1490	562	371	189	88	130	58	55
24	87	766	410	675	1160	528	321	172	83	117	82	111
25	91	675	390	606	966	483	294	155	77	111	65	153
26	94	1130	370	560	828	458	285	141	70	109	57	130
27	88	2510	360	520	773	493	270	155	69	102	55	105
28	79	3060	350	500	649	474	261	265	116	99	53	98
29	73	2670	340	490	---	414	251	212	124	204	52	96
30	72	1720	330	470	---	378	237	163	93	152	49	85
31	73	---	320	450	---	351	---	145	---	116	47	---
TOTAL	2294	63048	31132	17674	34879	23848	9259	6167	4234	10098	2668	1812
MEAN	74.0	2102	1004	570	1246	769	309	199	141	326	86.1	60.4
MAX	94	6270	5010	2370	3920	2050	411	378	287	1150	155	153
MIN	58	74	320	260	440	351	237	141	69	85	47	35
CFSM	.15	4.24	2.02	1.15	2.51	1.55	.62	.40	.28	.66	.17	.12
IN.	.17	4.73	2.33	1.33	2.62	1.79	.69	.46	.32	.76	.20	.14

CAL YR 1985	TOTAL	262227	MEAN	718	MAX	6550	MIN	55	CFSM	1.45	IN.	19.67
WTR YR 1986	TOTAL	207113	MEAN	567	MAX	6270	MIN	35	CFSM	1.14	IN.	15.53

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^2.

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. 16 through Jan. 17, Jan. 25 through Feb. 2, Feb. 14-17, Mar. 1-8. Records fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--46 years, 162 ft^3/s, 14.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft^3/s Jan. 27, 1952, gage height, 12.17 ft; minimum, 0.8 ft^3/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^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 17	0300	*3,290	*7.46	No other peak greater than base discharge.			

Minimum daily discharge, 3.9 ft^3/s Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	8.2	426	60	90	140	86	58	40	69	27	8.6
2	4.6	10	408	60	120	120	83	56	31	376	24	8.2
3	4.4	22	281	58	183	100	78	51	26	241	22	7.6
4	4.4	412	221	58	441	90	77	49	24	141	19	7.4
5	4.8	1230	194	56	1320	85	75	47	26	100	16	12
6	4.5	407	188	56	889	80	78	45	262	77	15	14
7	4.1	178	168	54	715	76	78	67	268	62	21	12
8	3.9	147	150	54	625	72	72	56	116	53	21	9.0
9	4.0	105	135	52	461	109	70	45	76	1020	16	7.4
0	4.1	261	129	52	362	178	77	41	54	769	20	6.6
1	4.6	1150	311	52	298	449	82	39	62	441	84	6.2
2	4.6	1060	1230	50	233	373	75	38	72	454	48	6.5
3	4.5	1010	694	50	202	497	67	36	63	524	30	7.4
4	4.9	961	478	50	170	560	63	36	50	402	23	8.5
5	6.2	955	313	50	150	579	67	37	61	264	21	7.3
6	6.0	1800	220	49	140	453	72	37	51	193	19	5.9
7	8.2	2120	180	49	130	359	76	39	79	169	19	5.2
8	9.1	777	150	219	328	294	75	38	59	142	17	5.9
9	7.1	467	120	281	481	294	66	35	43	138	15	7.2
0	7.5	314	100	953	676	240	67	42	37	174	13	12
1	8.3	219	95	565	628	181	97	64	35	124	12	9.7
2	12	177	88	368	608	159	105	43	34	92	12	8.3
3	12	154	82	259	494	157	95	39	44	71	11	8.0
4	11	128	78	191	380	145	86	36	47	54	13	9.7
5	18	109	74	160	302	131	82	33	36	49	14	39
6	18	219	72	130	249	123	80	30	30	45	12	45
7	11	1000	70	110	231	125	75	30	50	42	11	26
8	8.5	1270	66	100	174	[illegible]	69	43	237	37	11	23
9	8.1	1040	64	98	---	105	64	34	132	53	11	22
0	8.8	617	64	94	---	98	59	30	86	50	9.9	17
1	8.3	---	62	90	---	92	---	56	---	35	9.5	---
TOTAL	229.3	18328.2	6911	4528	11080	6595	2296	1330	2231	6461	616.4	372.6
MEAN	7.40	611	223	146	396	213	76.5	42.9	74.4	208	19.9	12.4
MAX	18	2120	1230	953	1320	579	105	67	268	1020	84	45
MIN	3.9	8.2	62	49	90	72	59	30	24	35	9.5	5.2
CFSM	.05	4.16	1.52	.99	2.69	1.45	.52	.29	.51	1.41	.14	.08
IN.	.06	4.64	1.75	1.15	2.80	1.67	.58	.34	.56	1.64	.16	.09

CAL YR 1985	TOTAL	59376.1	MEAN	162	MAX	2120	MIN	3.9	CFSM	1.11	IN.	15.03
WTR YR 1986	TOTAL	60978.5	MEAN	167	MAX	2120	MIN	3.9	CFSM	1.14	IN.	15.43

7378

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^2.

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: Nov. 12-18, Dec. 16 to Jan. 17, Jan. 25 to Feb. 1, Feb. 13-17, Mar. 2-8. Records poor. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--45 years, 131 ft^3/s, 14.46 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft^3/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^3/s Sept. 21, 27, 1947.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	0600	1,260	4.68	Nov. 28	1200	1,890	5.81
Nov. 16	1900	*4,120	*8.90	Jan. 20	0600	1,460	5.05
Nov. 27	0100	1,820	5.69	July 12	0300	1,360	4.99

Minimum daily discharge, 16 ft^3/s Sept. 11, 17.

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7378

03111548 WHEELING CREEK BELOW BLAINE, OH

LOCATION.--Lat 40°04'01", long 80°46'31", 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^2.

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: Oct. 1-6, Dec. 21 to Jan. 18, July 20 to Sept. 18. Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,740 ft^3/s Nov. 16, 1985, gage height, 6.94 ft; minimum daily discharge, 7.0 ft^3/s, Sept. 21-23, 1985.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	0230	1,860	4.74	Nov. 28	0930	1,520	4.26
Nov. 16	1130	*3,740	*6.94				

Minimum daily discharge, 8.1 ft^3/s Sept. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	18	229	45	120	130	87	65	44	41	22	11
2	18	18	219	44	154	124	82	63	41	25	19	11
3	13	29	162	42	135	122	79	59	40	59	17	11
4	13	522	148	41	657	123	79	58	38	41	15	10
5	18	511	132	40	756	115	78	57	43	36	14	10
6	17	128	129	40	446	116	84	58	53	33	14	10
7	14	86	114	39	449	109	83	66	77	30	26	9.3
8	13	73	104	39	320	97	77	64	84	29	20	9.3
9	13	70	96	47	241	118	76	58	49	122	17	8.7
10	14	215	94	74	197	148	75	57	42	77	20	8.4
11	18	913	250	70	174	207	75	53	47	47	60	8.1
12	20	616	437	60	150	142	70	52	74	136	30	8.1
13	22	419	230	56	140	183	66	56	73	79	18	8.7
14	26	268	189	54	152	190	66	50	54	68	15	8.9
15	26	246	146	50	116	291	65	55	49	47	14	8.6
16	25	2640	130	58	105	211	63	56	48	40	14	8.6
17	22	969	121	62	275	174	71	51	61	79	14	8.3
18	22	332	112	68	313	157	66	47	49	58	13	8.6
19	22	230	102	177	310	208	62	46	45	54	12	105
20	35	175	102	618	285	168	62	55	48	66	12	100
21	59	139	100	204	415	139	100	56	45	57	12	94
22	31	125	88	228	315	131	99	45	42	41	12	89
23	2[illegible]	122	80	179	245	127	81	42	48	31	11	88
24	2[illegible]	101	72	141	210	120	72	45	43	30	12	102
25	2[illegible]	89	66	127	187	113	70	44	38	29	14	165
26	20	403	62	123	170	108	68	42	37	40	12	146
27	18	774	58	121	166	103	67	48	40	39	11	122
28	16	1080	54	126	142	96	67	49	76	34	11	119
29	15	453	52	130	---	92	63	4[illegible]	64	31	11	108
30	15	291	49	182	---	89	63	44	44	27	11	105
31	16	---	47	132	---	87	---	40	---	24	11	---
TOTAL	639	12055	3974	3417	7345	4338	2216	1636	1536	1590	514	1509.6
MEAN	20.6	402	128	110	262	140	73.9	52.8	51.2	51.3	16.6	50.3
MAX	59	2640	437	618	756	291	100	66	84	136	60	165
MIN	13	18	47	39	105	87	62	40	37	24	11	8.1
CFSM	.21	4.11	1.31	1.13	2.68	1.43	.76	.54	.52	.53	.17	.51
IN.	.24	4.59	1.51	1.30	2.80	1.65	.84	.62	.58	.61	.20	.57

CAL YR 1985 TOTAL 37237.9 MEAN 102 MAX 2640 MIN 7.0 CFSM 1.04 IN. 14.18
WTR YR 1986 TOTAL 40769.6 MEAN 112 MAX 2640 MIN 8.1 CFSM 1.15 IN. 15.52

7378

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^2.

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. 16 to Jan. 17, Jan. 22 to Feb. 1, 13-17, Mar. 2-8, 25-28, May 17 to June 2. Records good except for periods of estimated record, which are poor. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--37 years, 163 ft^3/s, 16.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,900 ft^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	1030	7,090	10.80	Nov. 28	1000	3,830	8.15
Nov. 26	2330	*14,600	*14.84	Feb. 4	1500	3,670	7.98

Minimum discharge, 35 ft^3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	5.8	497	68	100	143	65	52	15	47	13	3.7
2	1.6	6.2	466	66	456	120	61	48	12	193	12	3.3
3	2.6	14	324	64	440	100	56	42	11	182	12	3.1
4	2.2	681	258	64	2330	92	54	39	7.4	69	10	3.1
5	1.9	746	226	62	2320	84	50	37	6.4	42	12	3.1
6	1.4	209	226	62	1010	78	64	35	11	30	13	3.0
7	1.7	106	196	60	1020	74	123	40	23	23	8.5	3.2
8	1.8	89	172	60	701	72	84	39	30	20	10	3.4
9	1.4	66	154	58	469	623	73	31	25	95	9.4	3.0
10	1.3	132	143	58	355	384	71	28	14	159	7.4	2.5
11	2.1	1080	484	56	296	422	67	26	12	53	35	2.2
12	1.2	969	1170	56	251	431	58	23	24	53	20	1.9
13	1.0	571	647	54	170	726	52	25	34	140	12	1.8
14	1.0	591	510	54	140	474	49	34	20	108	7.5	1.8
15	2.2	559	334	54	120	340	52	30	12	59	6.1	1.5
16	5.1	4270	220	52	100	265	49	29	8.8	39	8.1	1.9
17	2.9	1520	180	52	94	382	61	39	78	199	10	2.1
18	2.0	608	160	133	974	326	59	35	32	71	8.9	2.0
19	1.6	388	140	303	630	209	48	59	16	42	5.8	1.9
20	2.5	283	130	798	472	177	47	90	16	98	4.1	2.0
21	27	216	120	367	530	154	225	54	17	278	3.7	2.8
22	19	182	110	300	449	127	265	36	7.7	86	3.6	2.9
23	12	160	100	250	339	115	206	32	4.9	50	4.0	2.8
24	7.5	129	96	190	277	120	144	29	3.9	35	4.9	4.2
25	7.1	118	90	150	230	100	117	26	3.1	26	5.1	6.0
26	6.5	3210	84	140	202	98	102	39	2.4	53	4.0	14
27	6.4	4820	80	130	199	95	87	52	91	40	3.6	118
28	5.6	2870	76	120	153	93	74	35	599	24	4.5	78
29	4.3	1360	74	110	---	86	63	27	252	29	5.5	33
30	6.1	704	72	100	---	79	55	23	75	22	5.1	18
31	8.5	---	70	100	---	71	---	18	---	16	3.8	---
TOTAL	148.6	26563.0	7609	4201	14827	6662	2581	1152	1463.6	2383	272.6	330.3
MEAN	4.79	885	245	136	530	215	86.0	37.2	48.8	76.9	8.79	11.0
MAX	27	4820	1170	798	2330	726	265	90	599	278	35	118
MIN	1.0	5.8	70	52	94	71	47	18	2.4	16	3.6	1.6
CFSM	.04	6.60	1.83	1.01	3.96	1.60	.64	.28	.26	.57	.07	.08
IN.	.04	7.37	2.11	1.17	4.12	1.85	.72	.32	.41	.66	.08	.09

CAL YR 1985	TOTAL	59497.52	MEAN	163	MAX	4820	MIN	.18	CFSM	1.22	IN.	16.52
WTR YR 1986	TOTAL	68193.1	MEAN	187	MAX	4820	MIN	1.0	CFSM	1.40	IN.	18.93

7378

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^2.

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. 19 to Jan. 3, 6-17, Jan. 26 to Feb. 1, and Feb. 14-17. Records 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.--49 years, 445 ft^3/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,990 ft^3/s Dec. 12, gage height, 9.60 ft; minimum daily, 61 ft^3/s Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	232	825	220	280	446	301	196	163	141	75	91
2	115	177	916	210	997	418	291	186	142	798	70	95
3	95	228	698	210	1030	419	282	170	131	799	63	97
4	85	684	519	311	1790	436	281	153	125	357	[illegible]	100
5	76	2180	475	315	3610	462	369	152	130	220	64	101
6	70	3140	490	260	3380	491	348	150	206	179	72	111
7	74	2840	525	230	2920	470	324	277	252	164	68	91
8	71	1810	469	210	2580	392	333	258	197	155	66	88
9	78	936	462	200	1560	422	304	212	165	279	74	90
10	81	1340	604	190	948	841	304	169	146	331	77	88
11	86	2600	2540	190	664	1760	354	137	144	260	91	94
12	119	2610	3930	180	532	1410	356	130	221	298	100	200
13	139	2440	3390	180	429	2220	319	126	298	383	88	185
14	188	2290	2110	180	390	2900	314	129	216	289	74	121
15	216	2540	1190	170	370	2230	369	144	162	214	77	102
16	223	2970	821	170	350	1430	394	213	259	176	78	96
17	213	3710	638	170	330	949	356	225	279	171	76	88
18	186	2870	539	811	873	706	336	168	182	169	112	109
19	142	1670	480	1510	1310	1120	301	203	151	140	98	296
20	147	964	420	2520	1690	1040	296	395	188	123	85	182
21	142	635	370	2190	1920	712	450	300	157	114	82	131
22	137	517	330	1330	2160	592	614	220	126	103	84	118
23	132	470	300	925	1600	512	513	191	128	95	68	117
24	165	420	280	703	1010	467	399	177	119	89	93	109
25	217	378	260	551	820	430	313	160	109	85	101	175
26	155	717	250	450	660	408	286	148	103	85	94	228
27	128	2140	240	380	560	442	270	208	148	77	131	189
28	125	2200	230	350	529	389	253	468	332	79	164	274
29	121	1950	230	320	---	350	222	359	223	81	124	236
30	126	1180	220	300	---	327	199	218	162	81	108	184
31	153	---	220	290	---	312	---	186	---	80	97	---
TOTAL	4098	48836	24971	16226	35296	25503	10051	6430	5364	6615	2735	4186
MEAN	132	1628	806	523	1261	823	335	207	179	213	88.2	140
MAX	223	3710	3930	2520	3610	2900	614	468	332	799	164	296
MIN	70	177	220	170	280	312	199	126	103	77	61	88

CAL YR 1985 TOTAL 213545 MEAN 585 MAX 5120 MIN 70
WTR YR 1986 TOTAL 190311 MEAN 521 MAX 3930 MIN 61

7378

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^2.

PERIOD OF RECORD.--March 1968 to September 1986.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1968 to September 1986.
pH: March 1968 to September 1986.
WATER TEMPERATURES: March 1968 to September 1986.
DISSOLVED OXYGEN: March 1968 to September 1986.

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, 2,200 microsiemens Oct. 16; minimum, 320 microsiemens March 14.
pH: Maximum, 8.7 units April 29; minimum, 7.2 units June 7, July 23, Sept. 29.
WATER TEMPERATURES: Maximum, 28.5°C July 19; minimum, 0.5°C on several days during the winter period.
DISSOLVED OXYGEN: Maximum, 17.0 mg/L April 28; minimum, 0.6 mg/L Aug. 16, 18, 21, 23.

03117100 TUSCARAWAS RIVER AT NAVARRE OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1520	1380	1450	1780	1260	1570	690	640	668	1270	1080	1180
2	1870	1520	1670	1240	1000	1050	720	630	664	1270	1220	1240
3	1820	1380	1540	1210	890	985	660	610	630	1250	1200	1230
4	1400	1270	1320	1520	670	974	780	660	704	1230	1200	1220
5	1400	1300	1340	670	430	537	840	780	802	1270	1160	1210
6	1400	1320	1350	480	430	457	890	850	867	1230	1190	1210
7	1560	1410	1480	560	490	526	1010	720	857	1300	1190	1250
8	1600	1490	1540	600	560	569	880	750	843	1410	1230	1290
9	1520	1460	1490	710	590	651	880	850	864	1580	1330	1360
10	1610	1510	1560	750	500	635	910	730	824	1660	1370	1480
11	1600	1520	1550	520	450	468	770	320	470	1630	1420	1480
12	1690	1570	1600	500	480	491	370	330	347	1440	1350	1380
13	1800	1200	1610	530	500	517	440	380	411	1430	1340	1380
14	1210	1120	1170	550	510	532	520	440	484	1420	1300	1350
15	1240	1170	1200	500	450	475	590	520	553	1460	1300	1340
16	1220	1150	1190	510	400	461	670	590	632	1520	1280	1370
17	1170	1090	1120	430	370	393	750	640	690	1590	1320	1460
18	1150	1070	1100	520	430	473	780	730	754	1390	870	1110
19	1170	1100	1130	660	520	579	1040	760	878	850	550	662
20	1450	1080	1220	780	660	705	1050	930	977	540	470	502
21	1600	1450	1540	820	730	782	1070	960	1010	620	520	573
22	1590	1400	1470	890	810	842	1170	1090	1150	760	630	688
23	1560	1400	1450	910	870	885	1340	1140	1250	780	670	731
24	1570	1330	1470	910	860	883	1240	1200	1220	770	720	751
25	1880	1480	1660	940	900	916	1290	1230	1260	880	770	828
26	1500	1030	1130	940	690	842	1330	1250	1310	1000	890	945
27	1210	1090	1140	730	420	481	1610	1120	1340	970	910	935
28	1450	1210	1290	470	450	461	1420	1320	1360	1060	960	1020
29	1510	1420	1440	520	450	477	1430	1250	1320	1150	1010	1080
30	1530	1480	1500	630	530	578	1470	1360	1410	1210	1100	1150
31	1580	1480	1510	---	---	---	1460	1050	1210	1270	1170	1220
MONTH	1880	1030	1390	1780	370	673	1610	330	895	1660	470	1120

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1270	1210	1230	1430	1120	1370	1090	1050	1080	1340	1290	1320
2	1230	900	1030	1440	1320	1390	1260	1070	1160	1390	1340	1380
3	780	730	747	1480	1270	1410	1260	1220	1250	1390	1310	1370
4	790	450	652	1470	1160	1320	1320	1250	1280	1360	1320	1340
5	510	430	458	1400	950	1120	1500	1060	1300	1450	1330	1400
6	560	510	539	1010	890	947	1070	970	1040	1620	1430	1520
7	590	510	552	970	830	913	1280	940	1130	1920	1510	1630
8	630	510	585	1040	950	996	1200	1120	1140	1580	910	990
9	740	640	686	1130	950	1060	1110	1050	1070	1280	970	1120
10	830	750	792	1050	740	917	1180	1080	1120	1250	1150	1180
11	940	820	876	720	510	567	1120	1040	1090	1350	1110	1200
12	1020	940	980	620	520	551	1030	980	1000	1510	1370	1470
13	1100	1010	1060	630	340	468	1080	980	1030	1570	1510	1550
14	1210	1100	1150	370	320	353	1110	1080	1100	1620	1550	1580
15	1240	1140	1180	480	370	434	1140	1040	1100	1610	1560	1580
16	1330	1190	1260	560	470	511	1150	860	956	1670	1310	1540
17	1340	1260	1290	650	540	592	1010	910	970	1330	1040	1210
18	1310	880	1170	740	590	638	1090	980	1020	1150	1050	1080
19	870	680	775	810	560	654	1150	1070	1100	1250	1170	1220
20	670	560	618	620	550	594	1250	1030	1130	1420	800	1090
21	610	510	573	700	630	667	1090	900	1000	900	810	860
22	930	480	693	740	680	714	1510	770	903	960	900	938
23	980	780	902	800	730	759	990	710	778	1220	970	1110
24	1940	920	1020	860	800	820	910	780	809	1240	1210	1220
25	1130	980	1050	850	780	815	970	840	908	1250	1220	1220
26	1110	900	1050	910	830	878	1070	940	995	1290	1250	1270
27	1190	1070	1130	1010	870	916	1070	980	1030	1330	1020	1250
28	1250	1150	1190	920	820	863	1120	1050	1080	1140	720	927
29	---	---	---	1010	930	981	1170	1100	1140	880	710	789
30	---	---	---	1050	980	1020	1280	1110	1190	950	890	921
31	---	---	---	1080	1020	1060	---	---	---	1360	950	1140
MONTH	1940	430	901	1480	320	845	1510	710	1060	1920	710	1240

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03117100 TUSCARAWAS RIVER AT NAVARRE OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1440	1270	1370	1350	1160	1250	1760	1680	1730	1690	1450	1570
2	1360	1290	1330	1670	480	1020	1710	1660	1680	1720	1630	1660
3	1450	1340	1380	700	480	595	1780	1670	1730	1770	1710	1750
4	1540	1450	1490	840	710	775	1780	1710	1750	1870	1740	1750
5	1520	1440	1480	1160	840	981	1820	1750	1780	1950	1880	1920
6	1450	1130	1300	1340	1180	1270	1840	1780	1820	1930	1600	1860
7	1450	1190	1340	1450	1340	1410	1860	1510	1730	1910	1870	1890
8	1260	1060	1120	1530	1450	1500	1800	1720	1780	2030	1810	1910
9	1240	1080	1170	1520	890	1130	1820	1740	1780	2020	1420	1650
10	1340	1240	1290	1640	900	1330	1840	1760	1810	1880	1580	1790
11	1410	1340	1370	970	880	906	1880	1680	1780	1930	1620	1790
12	1560	1420	1490	1200	870	1040	2020	1670	1800	1770	1110	1410
13	1850	800	1180	860	560	713	2180	1650	1910	2200	1160	1780
14	990	920	969	980	780	848	1690	1460	1560	1140	1070	1100
15	1020	990	1000	1170	850	918	1620	1360	1520	1310	1140	1200
16	1470	1040	1310	1070	830	925	1690	1370	1580	1480	1320	1410
17	1530	920	1080	1220	870	1010	1820	1680	1750	1620	1490	1570
18	1130	900	982	1420	1050	1220	1780	1530	1640	1680	1450	1620
19	1280	1150	1210	1320	1050	1190	1550	1490	1520	2190	880	1610
20	1490	1240	1340	1210	1090	1140	1550	1340	1450	920	870	889
21	1670	1340	1510	1250	1150	1210	1490	1320	1390	1140	930	1010
22	1340	1240	1270	1270	1210	1240	1510	1380	1430	1350	1150	1240
23	1420	1290	1360	1490	1210	1310	1540	1430	1480	1370	1290	1350
24	1570	1430	1520	1590	1340	1440	1570	1470	1510	1410	1320	1370
25	1660	1530	1610	1700	1390	1580	1600	1500	1550	1640	1240	1390
26	1640	1560	1600	1720	1650	1700	1800	1510	1630	1600	1090	1430
27	1680	1410	1610	1800	1680	1750	1800	1110	1330	1040	850	942
28	1700	1060	1320	1760	1680	1720	1750	1270	1500	1290	960	1080
29	1110	900	973	1780	1690	1750	1700	1060	1390	940	600	765
30	1160	900	1030	1790	1770	1780	1130	1050	1080	990	830	960
31	---	---	---	1780	1700	1750	1500	1210	1410	---	---	---
MONTH	1850	800	1300	1800	480	1240	2180	1050	1610	2200	600	1460
YEAR	2200	320	1150									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.50	7.50	7.50	7.80	7.70	7.80	7.80	7.70	7.70	8.00	8.00	8.00
2	8.00	7.40	7.50	7.90	7.80	7.80	7.90	7.80	7.80	8.00	8.00	8.00
3	7.50	7.50	7.50	7.80	7.80	7.80	7.90	7.90	7.90	8.00	8.00	8.00
4	7.60	7.50	7.50	7.80	7.70	7.70	7.90	7.90	7.90	8.10	8.00	8.00
5	7.60	7.50	7.60	7.70	7.60	7.70	7.90	7.90	7.90	8.00	8.00	8.00
6	7.70	7.60	7.60	7.60	7.60	7.60	7.90	7.90	7.90	8.10	8.00	8.00
7	7.70	7.60	7.70	7.60	7.50	7.50	8.00	7.90	7.90	8.00	8.00	8.00
8	8.00	7.60	7.70	7.60	7.50	7.50	7.90	7.90	7.90	8.00	7.90	7.90
9	7.80	7.70	7.80	7.70	7.60	7.60	7.90	7.80	7.90	7.90	7.80	7.90
10	7.80	7.70	7.70	7.70	7.60	7.70	7.90	7.90	7.90	7.90	7.90	7.90
11	7.80	7.70	7.70	7.70	7.60	7.60	7.90	7.60	7.70	8.00	7.90	7.90
12	7.80	7.70	7.80	7.60	7.50	7.50	7.60	7.60	7.60	8.00	8.00	8.00
13	8.00	7.70	7.80	7.60	7.50	7.50	7.70	7.60	7.60	8.00	8.00	8.00
14	7.90	7.80	7.80	7.60	7.50	7.60	7.90	7.70	7.70	8.00	8.00	8.00
15	7.90	7.70	7.80	7.60	7.50	7.50	7.80	7.70	7.70	8.00	7.90	8.00
16	7.90	7.70	7.80	7.60	7.50	7.50	8.00	7.80	7.90	7.90	7.90	7.90
17	7.90	7.70	7.80	7.50	7.50	7.50	8.00	7.90	8.00	8.00	7.90	8.00
18	7.90	7.70	7.80	7.50	7.50	7.50	8.00	7.80	8.00	8.00	7.90	8.00
19	8.00	7.70	7.80	7.60	7.50	7.50	8.00	7.80	8.00	7.90	7.90	7.90
20	7.70	7.70	7.70	7.70	7.60	7.60	8.00	7.90	7.90	7.90	7.90	7.90
21	7.70	7.60	7.70	7.70	7.70	7.70	7.90	7.90	7.90	7.90	7.80	7.80
22	7.70	7.60	7.70	7.80	7.70	7.70	7.90	7.90	7.90	7.90	7.80	7.80
23	7.70	7.60	7.70	7.80	7.70	7.80	7.90	7.90	7.90	7.90	7.80	7.80
24	7.60	7.60	7.60	7.80	7.80	7.80	8.00	7.90	8.00	7.90	7.80	7.90
25	7.70	7.60	7.60	7.80	7.80	7.80	8.00	7.90	8.00	7.90	7.90	7.90
26	7.70	7.70	7.70	7.80	7.70	7.80	8.00	7.90	7.90	8.00	7.90	7.90
27	7.70	7.60	7.70	7.70	7.60	7.60	7.90	7.80	7.90	8.00	7.90	8.00
28	7.80	7.70	7.70	7.70	7.60	7.60	7.90	7.80	7.90	8.00	7.90	8.00
29	7.80	7.70	7.80	7.70	7.60	7.70	8.00	7.90	7.90	7.90	7.80	7.90
30	7.80	7.70	7.70	7.70	7.70	7.70	8.00	7.90	7.90	7.90	7.80	7.80
31	7.80	7.70	7.80	---	---	---	8.00	7.90	7.90	7.90	7.80	7.90
MONTH	8.00	7.40	7.70	7.90	7.50	7.64	8.00	7.60	7.87	8.10	7.80	7.94

03117100 TUSCARAWAS RIVER AT NAVARRE OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.90	7.90	7.90	8.00	7.90	7.90	8.40	7.60	8.00	8.00	7.70	7.80
2	8.00	7.80	7.90	8.00	7.90	7.90	8.40	7.70	8.10	8.00	7.70	7.80
3	7.90	7.80	7.80	8.00	7.90	7.90	8.50	7.80	8.10	8.00	7.80	7.80
4	7.90	7.80	7.80	8.00	7.90	7.90	8.30	7.80	8.00	8.00	7.80	7.90
5	7.80	7.80	7.80	7.90	7.90	7.90	8.10	7.80	7.90	7.90	7.70	7.80
6	7.80	7.70	7.70	8.00	7.90	8.00	8.20	7.80	8.00	7.90	7.70	7.80
7	7.70	7.70	7.70	8.10	7.90	8.00	8.40	7.80	8.10	7.80	7.60	7.70
8	7.80	7.70	7.70	8.10	8.00	8.00	8.30	7.80	8.00	7.80	7.50	7.70
9	7.80	7.70	7.70	8.10	8.00	8.00	8.30	7.80	8.00	7.80	7.60	7.70
10	7.80	7.70	7.80	8.10	7.90	8.00	8.20	7.90	8.00	7.90	7.60	7.70
11	7.80	7.80	7.80	7.90	7.80	7.80	8.20	8.00	8.10	7.90	7.60	7.70
12	7.90	7.80	7.80	7.80	7.80	7.80	8.40	8.00	8.20	7.80	7.60	7.70
13	7.90	7.80	7.90	7.80	7.70	7.80	8.30	8.00	8.20	7.70	7.60	7.60
14	7.90	7.90	7.90	7.80	7.70	7.70	8.50	8.00	8.20	7.70	7.60	7.60
15	8.00	7.90	7.90	7.70	7.70	7.70	8.30	7.90	8.10	7.70	7.60	7.60
16	8.00	7.90	7.90	7.80	7.70	7.70	8.20	7.80	8.00	7.70	7.50	7.60
17	8.00	7.90	7.90	7.80	7.80	7.80	8.30	7.80	8.00	7.70	7.50	7.60
18	8.00	7.90	7.90	7.80	7.80	7.80	8.50	7.90	8.10	7.60	7.50	7.60
19	7.90	7.90	7.90	7.80	7.70	7.80	8.50	7.90	8.20	7.60	7.50	7.50
20	7.90	7.60	7.80	7.80	7.70	7.70	8.10	7.80	7.90	7.50	7.40	7.50
21	7.80	7.80	7.80	7.90	7.80	7.90	8.00	7.80	7.90	7.50	7.50	7.50
22	7.80	7.80	7.80	8.00	7.90	7.90	7.90	7.80	7.80	7.60	7.50	7.60
23	7.80	7.80	7.80	8.00	7.90	7.90	8.10	7.90	8.00	7.60	7.60	7.60
24	7.90	7.80	7.80	8.00	7.90	8.00	8.20	7.90	8.10	7.60	7.50	7.60
25	7.90	7.80	7.80	8.00	7.90	7.90	8.20	7.90	8.10	7.60	7.50	7.50
26	7.90	7.80	7.90	8.10	7.80	7.90	8.40	7.80	8.10	7.50	7.50	7.50
27	8.00	7.90	7.90	8.10	7.80	7.90	8.50	7.80	8.10	7.50	7.40	7.50
28	8.00	7.90	7.90	8.10	7.80	7.90	8.60	7.80	8.10	7.50	7.30	7.40
29	---	---	---	8.20	7.80	7.90	8.70	7.80	8.20	7.50	7.40	7.50
30	---	---	---	8.30	7.80	8.00	8.30	7.80	8.10	7.50	7.40	7.40
31	---	---	---	8.10	7.70	7.90	---	---	---	7.50	7.40	7.40
MONTH	8.00	7.70	7.83	8.30	7.70	7.88	8.70	7.60	8.06	8.00	7.30	7.62

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.50	7.40	7.40	7.60	7.50	7.50	7.90	7.40	7.60	7.70	7.60	7.60
2	7.50	7.50	7.50	7.50	7.40	7.50	8.10	7.50	7.70	7.70	7.60	7.60
3	7.50	7.50	7.50	7.50	7.40	7.40	7.90	7.50	7.70	7.70	7.60	7.60
4	7.50	7.40	7.50	7.50	7.50	7.50	7.90	7.50	7.70	7.70	7.60	7.60
5	7.40	7.40	7.40	7.60	7.50	7.50	7.80	7.60	7.70	7.70	7.60	7.60
6	7.40	7.30	7.30	8.10	7.50	7.70	7.60	7.50	7.60	7.70	7.60	7.60
7	7.30	7.20	7.30	8.30	7.50	7.80	7.70	7.50	7.60	7.70	7.60	7.60
8	7.50	7.30	7.30	8.40	7.50	7.80	7.70	7.50	7.60	7.70	7.70	7.70
9	7.50	7.30	7.40	7.70	7.30	7.50	7.80	7.50	7.60	7.80	7.70	7.70
10	7.70	7.30	7.50	8.20	7.50	7.70	7.60	7.50	7.60	7.70	7.60	7.70
11	7.60	7.40	7.50	7.70	7.50	7.50	7.70	7.60	7.60	7.60	7.60	7.60
12	8.30	7.40	7.60	7.60	7.40	7.50	7.70	7.60	7.70	7.70	7.50	7.60
13	7.50	7.40	7.50	7.50	7.40	7.40	7.70	7.60	7.70	7.80	7.60	7.70
14	8.10	7.40	7.70	7.50	7.40	7.40	7.70	7.60	7.60	7.70	7.50	7.60
15	8.10	7.40	7.70	7.40	7.40	7.40	7.70	7.50	7.60	7.70	7.50	7.60
16	7.70	7.40	7.50	7.40	7.30	7.40	7.60	7.50	7.60	7.70	7.60	7.60
17	7.40	7.30	7.30	7.40	7.30	7.30	7.60	7.50	7.50	7.70	7.60	7.60
18	7.40	7.30	7.40	7.50	7.30	7.40	7.60	7.50	7.50	7.60	7.40	7.60
19	7.40	7.30	7.30	8.40	7.40	7.80	7.60	7.50	7.50	7.70	7.50	7.60
20	7.80	7.30	7.50	8.20	7.30	7.60	7.50	7.50	7.50	7.60	7.50	7.50
21	7.60	7.40	7.50	8.30	7.30	7.70	7.50	7.50	7.50	7.60	7.50	7.50
22	7.90	7.40	7.50	8.20	7.30	7.70	7.60	7.50	7.50	7.60	7.50	7.50
23	7.90	7.40	7.60	8.20	7.20	7.70	7.60	7.50	7.50	7.60	7.50	7.50
24	7.90	7.30	7.60	8.20	7.30	7.70	7.70	7.50	7.60	7.50	7.40	7.50
25	7.90	7.50	7.70	8.00	7.30	7.60	7.70	7.70	7.70	7.50	7.40	7.40
26	8.30	7.40	7.80	7.90	7.30	7.60	7.70	7.70	7.70	7.40	7.30	7.40
27	8.00	7.50	7.70	7.90	7.50	7.70	7.80	7.60	7.70	7.30	7.30	7.30
28	7.60	7.50	7.50	7.90	7.50	7.70	7.80	7.70	7.70	7.40	7.30	7.30
29	7.60	7.40	7.50	7.80	7.40	7.70	7.90	7.70	7.80	7.40	7.20	7.30
30	7.60	7.40	7.50	8.00	7.70	7.80	7.80	7.70	7.70	7.40	7.30	7.40
31	---	---	---	8.00	7.50	7.70	7.70	7.60	7.70	---	---	---
MONTH	8.30	7.20	7.50	8.40	7.20	7.59	8.10	7.40	7.62	7.80	7.20	7.55
YEAR	8.70	7.20	7.73									

03117100 TUSCARAWAS RIVER AT NAVARRE OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

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

03117100 TUSCARAWAS RIVER AT NAVARRE OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	20.5	22.5	22.0	19.5	20.5	24.0	21.5	23.0	19.5	17.5	18.5
2	23.0	19.0	21.0	21.5	20.0	20.5	23.5	21.0	22.5	20.5	18.0	19.5
3	21.5	17.0	19.5	21.5	20.0	20.5	23.5	21.0	22.5	21.5	19.5	20.5
4	22.5	17.5	20.0	23.0	19.0	21.0	23.5	20.0	22.0	21.5	20.0	21.0
5	22.0	19.5	21.0	24.0	20.0	22.0	23.5	20.5	22.0	21.5	20.5	21.0
6	22.5	20.5	21.5	26.0	21.5	23.5	23.0	21.0	22.0	21.5	19.0	20.0
7	24.0	21.5	22.5	27.0	22.0	24.5	23.5	21.0	22.5	20.5	18.5	19.5
8	24.5	22.0	23.5	26.5	23.0	25.0	23.0	21.0	22.5	18.5	16.0	17.5
9	24.5	21.0	22.5	25.5	23.0	23.5	24.0	21.0	22.5	18.5	16.0	17.5
10	23.5	20.0	21.5	24.5	22.0	23.0	23.5	21.5	22.0	20.0	17.0	18.0
11	24.5	21.5	23.0	23.0	21.5	22.5	22.0	20.0	21.0	20.0	19.5	19.5
12	24.5	22.5	23.5	24.0	22.0	22.5	22.5	18.5	20.5	20.5	19.5	19.5
13	23.5	21.5	22.5	23.5	21.5	22.5	22.5	18.5	20.5	20.5	17.5	19.0
14	23.0	21.0	22.0	24.0	21.5	23.0	23.0	20.0	21.5	20.0	17.5	18.5
15	24.5	21.0	22.5	25.0	21.5	23.0	24.0	21.5	22.5	20.0	17.5	18.5
16	24.5	21.0	23.0	24.5	22.5	23.5	24.0	22.0	23.0	20.0	16.5	18.0
17	24.0	21.0	22.5	27.0	22.5	24.5	24.0	22.0	23.0	18.0	15.0	17.0
18	23.0	19.0	21.0	28.0	24.0	26.0	24.5	21.5	23.5	18.0	16.5	17.0
19	22.0	19.0	20.5	28.5	25.0	26.5	24.0	21.0	23.0	18.5	16.5	17.5
20	23.5	19.5	21.5	28.0	25.0	26.5	24.0	21.5	23.0	20.0	17.5	18.5
21	24.0	19.5	21.5	26.5	23.5	25.0	24.0	22.0	23.0	20.5	18.5	19.5
22	25.0	20.5	22.5	26.0	22.0	24.5	24.0	22.0	23.0	21.0	18.0	19.5
23	25.0	22.0	23.5	25.5	21.5	23.5	24.0	22.0	23.0	21.5	19.5	20.5
24	23.5	21.0	22.5	26.0	22.0	24.0	23.0	20.0	21.5	21.0	20.0	20.5
25	22.5	19.0	21.0	26.0	23.0	24.5	22.0	19.0	20.5	23.0	20.0	21.5
26	23.0	19.0	21.5	26.0	23.5	24.5	21.5	19.5	20.5	23.5	21.0	22.0
27	22.5	20.0	21.5	24.5	22.5	23.5	21.5	20.0	20.5	22.5	21.0	21.5
28	23.0	20.0	21.5	24.5	22.0	23.5	20.0	17.5	18.5	23.0	21.5	22.0
29	24.5	21.0	22.5	24.0	22.5	23.0	18.5	16.0	17.5	23.5	20.5	22.0
30	24.0	20.0	21.5	24.0	21.0	22.5	19.0	16.0	17.5	23.5	21.5	22.5
31	---	---	---	24.5	20.5	22.5	19.5	16.5	18.0	---	---	---
MONTH	25.0	17.0	22.0	28.5	19.0	23.5	24.5	16.0	21.5	23.5	15.0	19.5
YEAR	28.5	.5	13.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.4	4.0	5.3	5.7	4.7	5.3	9.1	8.7	8.9	10.6	10.3	10.5
2	6.2	4.4	5.3	6.0	5.1	5.5	9.4	8.7	9.0	10.6	10.4	10.5
3	6.2	3.7	5.1	5.5	4.7	5.1	10.4	9.4	10.1	10.8	10.0	10.6
4	5.5	3.7	4.7	5.3	4.7	5.0	10.4	10.1	10.3	10.8	10.5	10.7
5	5.3	3.0	4.4	5.5	5.1	5.4	10.7	10.4	10.6	11.0	10.4	10.8
6	6.5	4.2	5.5	5.6	5.1	5.4	10.7	10.3	10.6	11.2	11.0	11.2
7	6.5	5.3	5.9	5.9	5.2	5.5	11.0	10.5	10.8	11.5	11.1	11.3
8	7.4	4.4	6.1	7.4	5.3	6.5	11.1	10.8	11.0	11.3	10.9	11.0
9	7.1	5.3	6.4	8.0	7.5	7.8	11.4	9.7	11.1	10.9	10.4	10.7
10	6.4	4.5	5.6	8.6	9.0	8.4	11.5	11.2	11.4	10.5	10.1	10.3
11	6.4	4.0	5.3	8.5	8.0	8.2	11.6	11.1	11.4	10.5	10.1	10.3
12	6.5	3.6	5.2	8.[illegible]	7.9	8.1	11.2	9.5	10.4	10.6	10.1	10.4
13	7.7	4.5	6.1	7.9	7.6	7.7	10.9	9.2	10.0	10.7	10.3	10.5
14	6.2	5.2	5.7	7.6	7.3	7.5	11.2	9.7	10.4	10.8	10.4	10.6
15	7.0	4.0	5.4	7.6	7.3	7.4	12.1	10.7	11.4	10.8	10.4	10.6
16	7.2	4.3	5.6	8.4	7.5	8.1	12.4	11.5	12.0	10.8	10.2	10.5
17	7.4	4.6	5.9	8.3	7.8	8.0	12.1	11.5	11.8	10.6	10.1	10.4
18	7.5	5.1	6.1	8.0	6.4	7.2	12.4	11.8	12.1	10.9	10.1	10.4
19	5.4	3.8	4.4	7.7	6.5	7.4	12.9	12.0	12.3	11.3	10.8	11.2
20	4.0	3.2	3.6	7.7	7.1	7.4	12.0	11.6	11.8	11.7	11.2	11.5
21	4.0	3.3	3.6	8.4	7.7	8.1	11.7	11.3	11.6	11.7	11.3	11.5
22	4.0	3.0	3.5	8.8	8.4	8.7	11.4	11.2	11.3	11.3	11.1	11.2
23	4.1	3.0	3.6	8.8	8.5	8.7	11.3	11.0	11.2	11.5	10.9	11.4
24	4.1	2.9	3.6	9.2	8.8	9.0	11.2	10.9	11.1	11.7	11.4	11.5
25	4.6	3.5	4.1	9.2	8.9	9.0	11.3	10.9	11.2	11.6	11.3	11.4
26	5.2	3.8	4.5	9.[illegible]	8.8	9.1	11.3	10.8	11.1	11.2	10.9	11.1
27	6.0	4.0	4.7	8.7	8.1	8.3	11.2	10.8	11.0	11.5	10.9	11.2
28	6.3	3.9	5.4	9.2	8.6	8.9	10.9	10.6	10.7	11.7	11.2	11.5
29	6.2	5.0	5.7	9.3	9.1	9.2	10.7	10.4	10.6	11.5	11.3	11.4
30	5.6	4.5	5.1	9.1	8.9	9.0	10.7	10.4	10.6	11.4	11.0	11.2
31	5.8	4.7	5.2	---	---	---	10.7	10.5	10.6	11.3	10.8	11.1
MONTH	7.7	2.9	5.1	9.3	7.7	7.5	12.9	8.7	10.9	11.7	10.0	10.9

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03117100 TUSCARAWAS RIVER AT NAVARRE CH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.0	10.7	10.9	12.1	11.3	11.6	13.3	7.1	9.6	9.2	5.1	6.9
2	11.1	10.7	10.9	11.9	11.1	11.5	14.0	6.9	9.8	9.0	5.1	6.9
3	11.4	10.8	11.2	11.3	10.5	10.9	16.6	7.3	11.2	8.5	6.0	7.1
4	11.8	11.0	11.5	11.1	10.1	10.5	15.2	6.4	11.1	9.0	6.6	7.6
5	11.2	10.6	10.9	11.1	10.1	10.6	11.2	8.0	9.3	8.7	5.9	7.0
6	10.8	10.5	10.6	11.2	9.4	10.5	12.0	7.7	9.5	8.4	4.8	6.3
7	11.4	10.5	11.0	12.4	10.6	11.5	14.8	5.9	10.4	6.9	3.5	5.2
8	11.5	9.5	10.4	13.0	11.5	12.1	13.6	7.4	10.0	7.2	2.8	4.7
9	10.3	10.0	10.1	12.8	11.3	12.0	13.1	7.8	10.0	7.9	3.7	5.6
10	10.4	10.1	10.3	11.2	10.2	10.9	12.7	8.9	10.4	8.5	3.3	5.6
11	10.3	9.9	10.0	10.4	9.6	10.1	14.5	9.5	11.8	8.8	3.7	5.8
12	10.0	9.2	9.6	10.8	10.4	10.7	15.0	10.0	12.1	7.5	3.2	5.1
13	10.3	9.1	9.8	11.3	10.6	10.9	15.4	9.5	11.8	5.4	3.0	4.2
14	11.8	9.4	10.8	10.7	10.2	10.4	15.6	9.0	11.6	5.9	3.1	4.4
15	11.6	11.1	11.4	10.1	9.8	10.0	12.7	8.0	10.0	5.5	2.8	4.1
16	11.4	11.1	11.3	10.5	9.9	10.2	12.5	7.7	9.7	5.0	2.8	3.9
17	11.0	10.2	10.7	10.8	10.5	10.7	13.6	8.5	10.7	6.7	3.0	4.7
18	10.9	10.4	10.7	11.1	10.5	10.8	15.9	9.2	12.0	4.7	2.1	3.3
19	11.2	10.8	11.0	10.4	9.2	9.9	15.7	8.6	11.4	3.9	1.6	2.6
20	11.2	10.8	11.0	10.4	9.1	9.7	10.8	7.7	8.9	3.0	2.5	2.8
21	11.5	10.8	11.1	11.5	10.4	11.1	10.0	7.2	8.2	4.1	2.8	3.5
22	11.7	11.2	11.6	12.0	11.0	11.4	9.8	7.8	8.8	4.9	3.4	4.2
23	11.5	11.2	11.4	11.7	10.7	11.2	12.4	9.2	10.6	4.8	3.8	4.3
24	11.6	11.4	11.5	11.8	10.3	10.[illegible]	13.4	9.6	11.1	4.5	3.3	3.9
25	11.5	11.2	11.3	11.8	9.8	10.6	14.1	8.8	10.9	4.7	2.5	3.7
26	11.5	11.0	11.3	11.6	9.0	10.0	14.8	7.4	10.5	5.0	3.1	4.0
27	11.5	10.9	11.2	11.7	8.3	9.7	16.8	6.9	11.0	4.3	2.9	3.4
28	11.6	11.0	11.3	12.7	8.6	10.3	17.0	6.7	11.0	4.3	2.3	3.3
29	---	---	---	13.0	8.4	10.5	16.5	6.2	11.0	3.4	2.2	2.7
30	---	---	---	13.4	8.3	10.3	13.0	6.2	9.4	3.7	2.0	2.6
31	---	---	---	13.8	7.6	10.1	---	---	---	4.3	1.8	2.8
MONTH	11.8	9.1	10.9	13.8	7.6	10.7	17.0	5.9	[illegible].5	9.2	1.6	4.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	3.6	1.4	2.3	5.3	2.3	3.7	7.9	2.3	5.1	3.5	2.5	3.0
2	3.4	1.2	2.3	3.8	1.4	2.7	9.2	2.2	5.0	3.5	2.4	2.0
3	4.1	2.3	3.1	4.2	2.5	3.7	7.7	2.2	4.6	3.3	1.6	2.5
4	4.2	2.1	3.1	5.4	3.8	4.5	6.6	2.4	4.2	3.4	1.5	2.6
5	3.6	1.2	2.4	6.8	3.4	4.9	5.7	2.0	3.7	3.2	1.0	2.0
6	3.3	1.8	2.6	10.6	3.6	6.7	3.6	1.3	2.5	3.1	1.5	2.3
7	3.7	1.9	2.7	14.3	3.7	8.3	5.0	.6	2.5	2.6	1.4	2.1
8	5.1	1.1	3.2	14.1	3.1	8.0	5.1	1.1	2.7	3.2	2.4	2.8
9	6.9	1.8	4.1	7.6	2.0	3.4	5.4	.7	2.6	4.2	2.7	3.4
10	6.4	2.1	4.0	11.0	3.0	5.6	3.6	1.0	2.3	3.6	2.0	2.7
11	4.9	1.7	3.2	4.1	2.8	3.2	4.8	1.4	2.9	2.6	1.0	1.8
12	9.0	1.8	4.4	---	---	---	4.5	1.7	3.1	3.8	1.0	2.3
13	6.2	1.8	3.8	---	---	---	4.5	1.2	2.7	4.5	2.4	3.3
14	10.9	2.5	6.1	---	---	---	4.0	1.0	2.4	3.6	1.9	2.8
15	10.2	2.3	5.9	---	---	---	4.9	.7	2.4	3.7	1.9	2.7
16	8.0	2.4	4.6	---	---	---	3.3	.6	1.7	3.5	1.6	2.5
17	6.1	1.4	3.2	---	---	---	2.8	.6	1.7	3.3	1.9	2.5
18	5.4	1.9	3.3	---	---	---	2.5	.6	1.5	3.2	1.9	2.4
19	4.5	1.4	2.6	---	---	---	2.2	.7	1.3	4.4	2.2	3.2
20	9.1	2.2	5.0	---	---	---	2.0	.6	1.2	3.7	2.6	3.1
21	6.8	1.9	4.3	---	---	---	2.3	.6	1.3	3.9	2.3	3.0
22	9.3	2.0	5.0	---	---	---	2.5	.7	1.6	4.0	2.1	3.0
23	10.7	2.1	6.4	---	---	---	2.7	.6	1.5	3.7	2.0	2.8
24	9.6	2.8	6.4	10.9	4.6	8.8	3.1	.8	2.0	2.6	1.7	2.2
25	9.5	3.7	6.6	9.1	2.4	5.7	3.9	1.9	3.0	3.0	2.0	2.5
26	12.1	3.9	7.9	7.5	1.1	4.2	3.6	2.0	3.0	2.8	1.9	2.3
27	8.9	4.1	6.6	8.2	2.6	5.3	4.7	1.6	3.2	2.7	1.6	2.1
28	5.8	3.3	4.3	7.7	3.0	5.3	4.8	2.6	3.8	2.6	1.6	2.0
29	6.2	1.5	3.6	6.4	2.7	4.9	5.4	3.1	4.3	2.5	1.7	2.0
30	4.8	2.4	3.6	7.6	2.3	4.8	4.7	2.7	3.7	2.9	1.7	2.2
31	---	---	---	8.9	2.9	5.6	3.6	2.8	3.3	---	---	---
MONTH	12.1	1.1	4.2	14.3	1.1	5.2	9.2	.6	2.8	4.5	1.0	2.6
YEAR	17.0	.6	7.2									

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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^2.

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. 20 to Jan. 3, Jan. 6-17, Jan. 26 to Feb. 1, Feb. 13-17. Records good except for periods of estimated record, and discharges between 80 and 1,600 ft^3/s, which are fair. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1969 to 1974.

AVERAGE DISCHARGE.--48 years, 272 ft^3/s, 14.60 in/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	0800	2,120	5.18	Dec. 12	0700	2,370	5.54
Nov. 13	1630	2,530	5.77	Feb. 5	0800	2,130	5.20
Nov. 17	0300	*3,210	*6.65				

Minimum discharge, 31 ft^3/s Sept. 7, 8, 9, 10, 11, 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	63	705	130	160	291	190	103	142	87	71	36
2	36	56	678	125	523	283	178	99	107	519	69	33
3	36	72	513	120	490	276	168	94	93	619	70	33
4	37	307	395	200	885	268	166	93	86	455	66	35
5	41	1240	344	202	1960	283	168	81	86	313	62	36
6	41	948	330	160	1470	276	172	83	122	176	61	34
7	38	664	317	140	1250	253	172	97	327	132	67	33
8	38	522	284	120	1020	211	166	95	310	112	61	32
9	38	358	255	110	736	244	159	84	228	329	56	31
10	38	657	276	110	573	432	162	78	147	462	62	32
11	38	1850	1070	110	472	756	175	72	131	257	74	32
12	38	1970	2110	100	401	641	163	70	400	363	61	50
13	40	2420	1640	98	320	1010	148	69	247	647	54	42
14	46	1970	1140	96	270	1110	139	73	169	514	50	37
15	57	1630	731	94	250	1310	156	76	179	398	48	36
16	55	1950	539	92	220	909	160	79	164	320	48	33
17	52	2950	451	90	210	668	159	78	140	240	48	33
18	53	2000	376	409	668	527	154	97	118	194	82	37
19	53	1060	320	599	849	541	139	195	106	162	76	41
20	57	704	280	1140	968	465	135	385	100	147	61	40
21	66	479	240	852	1040	355	173	348	90	135	53	37
22	79	363	220	672	969	312	191	202	84	126	48	36
23	82	323	200	510	775	295	166	161	86	110	46	60
24	85	272	190	377	609	277	145	128	81	101	46	75
25	92	237	180	325	508	254	137	120	73	95	42	118
26	83	492	170	270	432	240	129	107	69	95	43	104
27	73	1380	160	250	402	263	123	115	85	91	44	83
28	65	1330	150	220	345	250	116	142	155	84	44	70
29	62	1280	150	200	---	229	110	118	135	84	42	63
30	62	951	140	180	---	211	104	136	97	82	39	69
31	63	---	135	170	---	198	---	177	---	75	37	---
TOTAL	1681	30238	14689	8271	18775	13658	4623	3855	4357	7624	1731	1422
MEAN	54.2	1008	474	267	671	441	154	124	145	246	55.8	47.4
MAX	92	2950	2110	1140	1960	1310	191	385	400	647	82	118
MIN	36	56	135	90	160	198	104	69	69	75	37	31
CFSM	.21	3.98	1.87	1.06	2.65	1.74	.61	.49	.57	.97	.22	.19
IN.	.25	4.45	2.16	1.22	2.76	2.01	.68	.57	.64	1.12	.25	.21

CAL YR 1985	TOTAL	125369	MEAN	344	MAX	3710	MIN	36	CFSM	1.36	IN.	18.44
WTR YR 1986	TOTAL	110924	MEAN	304	MAX	2950	MIN	31	CFSM	1.20	IN.	16.31

7378

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^2.

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. 6-9, Dec. 19 to Jan. 4, Jan. 7-17, Jan. 26 to Feb. 1, Feb. 13-17, and May 13-17. Records good except for estimated daily discharges which are fair. 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 1986, 11.4 ft^3/s. At times low flow regulated by small pools above station. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 36.4 ft^3/s.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	2400	429	4.74	Feb. 5	2300	410	4.65
Dec. 12	0200	*474	*4.95				

Minimum daily discharge, 3.6 ft^3/s Oct. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.0	66	20	25	41	28	20	12	14	8.3	7.0
2	4.3	4.2	81	20	41	39	26	20	11	22	6.3	6.8
3	4.0	5.6	66	19	124	39	25	20	10	26	8.4	6.7
4	4.0	19	50	25	88	41	25	18	10	22	7.9	7.0
5	4.2	171	45	32	268	42	26	18	12	17	7.5	7.2
6	4.2	172	43	31	301	43	26	18	19	14	7.6	7.0
7	4.0	66	41	26	154	41	25	20	33	13	8.8	6.8
8	3.7	43	38	23	143	38	24	19	30	17	9.1	6.6
9	3.6	26	36	21	112	40	24	16	20	28	9.5	6.9
10	3.6	53	55	19	82	81	24	15	16	32	9.7	6.6
11	3.9	262	268	18	65	100	26	14	15	24	9.6	6.7
12	3.9	185	380	17	55	75	25	13	15	36	8.6	8.8
13	4.2	180	179	16	47	160	24	12	14	39	7.7	7.7
14	4.8	132	114	16	41	164	23	12	13	29	7.3	7.1
15	5.5	112	93	15	38	164	26	12	13	19	7.1	6.6
16	5.5	213	65	15	35	109	25	13	13	15	7.2	5.9
17	5.4	321	57	14	22	78	26	13	12	13	8.2	5.6
18	5.3	145	51	54	70	63	25	13	11	12	11	6.8
19	5.5	92	45	124	123	80	23	16	11	11	8.0	7.9
20	4.5	70	41	163	154	77	24	20	12	10	7.1	7.7
21	4.6	54	36	147	161	56	33	20	11	9.8	6.7	7.1
22	4.4	46	34	84	155	46	37	17	11	9.1	6.0	6.7
23	4.3	42	31	65	113	43	31	15	12	8.8	6.1	7.0
24	5.7	38	29	52	82	41	27	15	11	8.7	6.3	7.0
25	5.4	35	28	43	67	38	26	14	11	8.9	6.3	9.3
26	5.1	63	26	37	56	36	25	13	10	10	6.2	7.9
27	4.9	167	25	34	52	40	23	14	13	9.8	7.3	8.5
28	4.9	154	24	31	46	38	22	14	23	9.1	6.7	8.7
29	4.7	132	23	29	---	34	22	13	20	8.8	6.2	8.0
30	4.4	85	22	28	---	31	21	13	16	9.1	6.3	8.4
31	4.1	---	21	26	---	30	---	12	---	8.6	7.0	---
TOTAL	141.1	3091.8	2113	1264	2731	1948	767	482	440	513.7	238.0	218.2
MEAN	4.55	103	68.2	40.8	97.5	62.8	25.6	15.5	14.7	16.6	7.68	7.27
MAX	5.7	321	380	163	301	164	37	20	33	39	11	9.3
MIN	3.6	4.0	21	14	25	30	21	12	10	8.6	6.0	5.6

CAL YR 1985 TOTAL 17466.9 MEAN 47.9 MAX 603 MIN 3.6
WTR YR 1986 TOTAL 13947.8 MEAN 38.2 MAX 380 MIN 3.6

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^2.

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: Nov. 21-25, Dec. 20 to Jan. 3, 6-16, Jan. 25 to Feb. 1, 13-16. 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, 18.3 ft^3/s. See REMARKS for station 03124500. Water-quality data collected at this site 1964 to 1969, 1975, 1977.

AVERAGE DISCHARGE.--65 years, 187 ft^3/s.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 5	0230	2,070	5.24	Feb. 5	0200	2,360	5.63
Nov. 10	1730	2,390	5.67	Mar. 14	1800	2,300	5.56
Nov. 16	1630	2,500	5.81	July 15	0230	2,110	5.30
Dec. 11	2230	*2,870	*6.27				

Minimum daily, 66 ft^3/s Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	70	311	110	110	205	186	141	96	94	83	70
2	70	70	404	110	574	201	179	139	104	258	80	73
3	69	158	271	110	367	210	178	133	100	113	77	74
4	71	841	233	173	1230	227	177	133	94	94	81	75
5	72	1530	225	174	1700	220	180	136	125	82	80	75
6	73	683	234	130	659	234	179	138	263	79	84	70
7	73	406	224	120	845	216	176	195	202	86	94	68
8	74	335	214	110	546	195	179	128	153	187	80	72
9	74	283	212	100	365	234	178	120	115	485	86	71
10	73	1220	368	100	308	407	184	117	106	173	139	71
11	75	1480	1950	96	265	466	197	108	159	234	100	73
12	75	1140	1770	94	235	322	184	114	138	218	83	208
13	72	1000	664	92	190	1070	172	112	108	728	79	77
14	107	788	431	90	170	948	166	114	112	212	79	70
15	69	694	319	88	150	763	215	112	106	142	78	71
16	71	1830	285	86	140	430	169	123	157	138	76	70
17	69	1250	265	229	284	337	183	158	102	120	213	68
18	67	565	234	423	422	311	163	164	93	107	180	103
19	81	395	211	553	674	444	154	190	98	97	89	80
20	75	317	180	848	648	328	168	189	100	92	81	72
21	74	260	170	396	875	264	264	142	91	91	79	68
22	72	240	160	296	626	239	210	130	91	89	79	72
23	72	210	150	254	452	233	180	121	114	85	80	98
24	125	180	140	218	342	219	167	109	101	86	77	143
25	82	160	140	180	295	213	159	102	96	86	74	197
26	70	859	130	170	265	219	149	98	97	117	75	89
27	66	834	130	150	251	247	146	210	353	83	118	163
28	66	813	130	140	225	206	149	136	280	86	79	96
29	68	508	120	130	---	195	143	109	105	87	75	81
30	67	338	120	120	---	188	141	110	97	87	72	150
31	78	---	120	110	---	183	---	106	---	83	69	---
TOTAL	2347	19457	10515	6000	13223	10174	5275	4137	3956	4719	2819	2767
MEAN	75.7	649	339	194	472	328	176	133	132	152	90.9	92.2
MAX	125	1830	1950	848	1700	1070	264	210	353	728	213	208
MIN	66	70	120	86	110	183	141	98	91	79	69	68

CAL YR 1985 TOTAL 100276 MEAN 275 MAX 3140 MIN 66
WTR YR 1986 TOTAL 85389 MEAN 234 MAX 1950 MIN 66

7378

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.--48.2 mi^2.

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.--48 years, 54.0 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 740 ft^3/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, 286 ft^3/s Dec. 18, gage height, 4.61 ft; minimum daily, 1.7 ft^3/s Sept. 8, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	40	163	14	3.7	23	6.1	23	29	17	7.5	2.2
2	2.0	61	221	53	3.2	23	6.1	20	22	63	7.0	2.1
3	2.0	61	247	29	92	23	6.1	16	16	71	6.7	2.0
4	2.0	61	251	12	129	56	6.1	14	12	62	6.3	3.1
5	2.0	61	252	12	4.8	83	6.1	14	10	51	5.9	2.1
6	2.0	61	249	12	4.8	82	6.1	14	39	39	5.7	2.1
7	2.3	121	252	12	4.8	55	17	23	59	29	5.4	1.9
8	2.4	173	252	59	4.8	26	23	22	57	21	5.1	1.7
9	2.4	172	243	55	69	26	23	17	48	84	5.0	3.8
10	2.1	172	243	12	160	26	24	14	38	164	5.2	2.3
11	1.9	69	215	8.2	193	84	25	13	37	191	6.2	1.7
12	2.0	11	97	8.2	211	157	24	13	35	201	5.9	2.1
13	2.0	57	111	8.5	247	174	23	13	28	195	5.5	2.1
14	2.1	91	113	8.7	223	5.8	17	12	23	188	5.2	2.0
15	2.0	113	216	10	181	5.8	19	12	27	170	5.0	1.8
16	2.0	124	250	11	180	5.8	18	17	25	86	4.7	1.9
17	2.1	191	229	11	179	122	21	17	29	59	4.8	2.4
18	2.3	199	260	11	120	196	20	16	23	53	5.0	2.6
19	2.6	120	279	11	30	196	18	18	18	46	4.7	2.9
20	2.6	116	277	11	2.6	81	19	42	19	42	4.2	2.8
21	2.3	164	274	11	2.6	3.7	24	51	16	36	3.8	2.8
22	2.0	200	271	114	2.6	3.6	26	47	11	27	3.5	2.7
23	2.0	199	268	189	2.6	3.6	25	39	14	20	3.4	2.6
24	2.0	198	265	190	47	2.8	22	33	9.4	16	3.7	3.2
25	2.0	196	262	190	102	2.4	20	26	7.9	11	3.2	4.9
26	2.0	184	258	188	116	2.7	20	20	7.2	11	2.8	5.2
27	2.1	117	174	162	98	4.9	18	23	9.0	9.2	3.0	5.8
28	2.1	119	51	163	46	6.1	24	25	26	8.6	2.7	6.2
29	2.0	122	51	160	---	6.1	26	20	25	8.6	2.4	6.1
30	2.0	126	48	64	---	6.1	24	23	19	8.3	2.2	5.9
31	1.8	---	30	4.5	---	6.1	---	34	---	7.7	2.2	---
TOTAL	65.1	3699	6372	1804.1	2459.5	1498.5	556.6	691	738.5	1995.4	143.9	91.0
MEAN	2.10	123	206	58.2	87.8	48.3	18.6	22.3	24.6	64.4	4.64	3.03
MAX	2.6	200	279	190	247	196	26	51	59	201	7.5	6.2
MIN	1.8	11	30	4.5	2.6	2.4	6.1	12	7.2	7.7	2.2	1.7

CAL YR 1985 TOTAL 20198.93 MEAN 55.3 MAX 279 MIN .94
WTR YR 1986 TOTAL 20114.6 MEAN 55.1 MAX 279 MIN 1.7

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^2.

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. 23 to Jan. 3, 6-17, Jan. 26 to Feb. 1, Mar. 28-31, May 18 to June 20. Records good except for estimated daily discharges, which are poor. 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 1986 water year, 18.3 ft^3/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.--63 years, 1,437 ft^3/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,660 ft^3/s Feb. 6, gage height, 7.17 ft; minimum daily, 260 ft^3/s Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322	475	5090	900	980	1680	1160	723	900	682	487	275
2	353	582	5230	850	2000	1540	1100	712	700	1800	477	273
3	360	593	5260	800	2850	1470	1060	684	500	2520	458	280
4	341	1080	5290	1130	3490	1520	1030	650	440	1790	438	287
5	342	3320	4970	1150	5090	1590	1060	634	410	1240	431	295
6	328	4110	4090	950	5340	1640	1120	628	1700	954	427	291
7	323	4220	3550	860	5090	1660	1070	673	1600	778	434	293
8	333	3290	2910	820	5260	1420	1050	852	1300	711	398	260
9	331	3430	2430	780	5140	1400	1020	708	1000	1860	378	260
10	342	3060	2920	720	4600	1890	993	654	760	2190	397	270
11	353	4570	3260	680	4600	3230	1050	591	700	2080	522	275
12	363	4520	5280	660	4620	3830	1070	558	1400	2240	469	462
13	408	4780	5380	640	4270	4130	992	556	1200	2760	416	483
14	431	4780	5210	630	3020	5040	935	562	1000	2770	380	372
15	502	5100	5080	620	2380	4930	1000	568	840	2070	360	310
16	490	3670	5170	600	1750	4600	1100	625	700	1740	344	291
17	465	2010	5210	580	1710	4560	1050	697	780	1870	333	280
18	460	4210	4670	1880	2370	4250	1020	720	740	1430	541	307
19	424	5140	3600	3250	3220	4210	960	790	720	1010	453	451
20	409	5220	3080	5080	4160	3820	899	840	700	893	368	551
21	421	5070	2320	5000	4450	2500	1110	900	632	812	331	406
22	420	5030	2020	3710	5090	1960	1350	820	553	746	319	348
23	422	5030	1800	3430	4560	1790	1360	700	526	668	316	392
24	452	5150	1700	2960	3710	1660	1160	580	532	605	316	518
25	569	5220	1500	2340	2980	1540	1010	500	531	571	304	666
26	541	3090	1400	1900	2380	1460	920	450	483	594	309	748
27	467	4610	1300	1600	2120	1450	870	430	523	554	333	736
28	423	4760	1200	1400	1920	1500	828	500	1250	519	360	670
29	413	5040	1100	1300	---	1400	789	720	1070	516	357	695
30	411	5070	1000	1100	---	1300	724	660	782	511	316	593
31	426	---	960	1000	---	1200	---	880	---	499	292	---
TOTAL	12645	117230	103980	49320	99150	76170	30960	20565	24972	39983	12084	12338
MEAN	408	3908	3354	1591	3541	2457	1029	663	832	1290	390	411
MAX	569	5220	5380	5080	5340	5040	1360	900	1700	2770	541	748
MIN	322	475	960	580	980	1200	724	430	410	499	292	260

CAL YR 1985 TOTAL 626627 MEAN 1717 MAX 5450 MIN 284
WTR YR 1986 TOTAL 599297 MEAN 1642 MAX 5380 MIN 260

7378

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^2.

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. 20 to Jan. 3, Jan. 6-17, Jan. 25 to Feb. 1, Feb. 12-17, Sept. 2-4. 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.--48 years, 277 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,520 ft^3/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, 2,100 ft^3/s Dec. 12, gage height, 6.58 ft; minimum daily, 8.4 ft^3/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	20	1350	100	140	266	175	97	114	107	40	15
2	12	23	1260	100	382	260	164	96	68	280	82	15
3	15	27	705	100	596	249	153	87	50	822	65	16
4	15	110	420	147	623	273	150	82	42	651	42	18
5	12	599	357	149	1570	283	151	77	40	294	33	19
6	9.8	904	339	110	1670	282	149	74	73	157	32	23
7	11	714	316	96	1260	265	148	79	157	113	33	18
8	10	423	294	88	1800	190	140	89	125	86	30	14
9	11	271	276	80	1790	240	151	75	83	259	27	11
10	9.7	302	266	76	1830	436	161	68	60	442	31	12
11	8.4	1220	651	74	1380	679	159	63	57	270	48	12
12	9.0	1580	1670	72	400	761	147	60	147	666	43	34
13	11	1750	1720	70	300	795	131	58	137	672	32	62
14	13	1730	1680	68	250	1500	122	59	87	516	27	40
15	21	1660	1550	68	220	1300	128	60	68	283	25	26
16	26	1110	643	66	200	970	144	62	66	188	23	17
17	24	801	437	66	190	645	137	74	96	168	23	15
18	19	1380	337	369	440	494	133	112	80	140	45	20
19	14	1600	236	692	592	565	119	90	54	111	44	55
20	12	1520	210	1240	901	701	117	89	56	96	28	55
21	17	1590	200	1420	859	505	177	84	82	95	21	38
22	23	951	180	834	1080	396	248	72	57	78	19	29
23	[illegible]	394	160	628	868	349	226	67	55	66	19	31
24	27	294	150	464	618	317	172	63	63	58	19	52
25	34	243	140	32[illegible]	494	280	147	57	42	54	19	75
26	38	306	140	250	417	258	136	52	33	58	17	102
27	28	896	130	210	383	266	125	54	35	60	18	74
28	20	1110	130	180	322	256	118	74	284	51	25	187
29	15	1140	120	160	---	227	110	66	327	48	27	115
30	14	1310	110	150	---	205	99	58	169	48	20	66
31	16	---	110	140	---	187	---	87	---	44	17	---
TOTAL	530.9	25978	16287	8587	21575	14404	4437	2285	2807	6981	974	1268
MEAN	17.1	866	525	277	771	465	148	73.7	93.6	225	31.4	42.3
MAX	38	1750	1720	1420	1830	1500	248	112	327	822	82	187
MIN	8.4	20	110	66	140	187	99	52	33	44	17	

CAL YR 1985 TOTAL 105484.7 MEAN 289 MAX 1960 MIN 6.9
WTR YR 1986 TOTAL 106113.9 MEAN 291 MAX 1830 MIN 8.4

000080

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^2.

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: Oct. 1 to Nov. 15, Dec. 20 to Jan. 3, Jan. 6-17, Jan. 25 to Feb. 1, Feb. 13-17. Records good except for periods of estimated record and Feb. 18 to Mar. 15, 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, 18.3 ft^3/s. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--29 years (1931-32, 1935-38, 1961-85), 313 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft^3/s Aug. 7, 1935, gage height, 14.70 ft (present datum), from rating curve extended above 8,400 ft^3/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, 2,330 ft^3/s Dec. 12, gage height, 5.82 ft; minimum daily, 8.8 ft^3/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	20	1460	110	140	283	181	107	110	104	38	20
2	13	23	1350	100	365	282	166	106	65	276	67	19
3	15	28	752	100	613	264	156	98	46	861	65	18
4	15	100	434	146	636	281	150	91	49	735	42	19
5	12	700	363	149	1740	293	150	88	37	330	34	20
6	10	940	341	110	1870	291	149	83	57	165	32	22
7	11	700	319	98	1440	281	147	85	148	104	33	20
8	10	410	296	90	2050	192	137	96	122	79	31	15
9	11	270	277	82	2030	244	148	83	76	283	29	14
10	10	300	264	78	2060	431	161	73	54	498	32	13
11	8.8	1200	638	76	1600	659	160	66	51	288	42	13
12	10	1700	1840	74	550	786	150	61	127	702	43	21
13	12	2000	1950	72	300	769	128	56	138	726	34	48
14	14	1900	1900	70	260	1630	119	55	83	579	29	36
15	22	1900	1790	70	230	1460	120	56	60	310	27	24
16	26	1360	692	68	210	1060	143	56	58	200	26	18
17	23	797	461	68	200	687	134	66	80	169	26	15
18	18	1440	358	335	480	529	133	100	76	142	36	18
19	13	1770	246	677	606	559	119	85	50	106	44	36
20	12	1670	220	1290	924	715	114	78	45	90	31	46
21	17	1720	200	1590	884	544	176	79	73	87	25	35
22	23	1070	180	861	1160	426	260	66	54	73	23	24
23	25	412	170	638	915	37	247	61	45	60	23	24
24	28	300	160	481	649	334	189	57	57	54	22	34
25	34	247	150	340	518	295	158	52	40	49	23	49
26	37	301	140	260	441	270	144	48	33	50	21	84
27	26	884	130	210	403	268	133	49	36	54	21	59
28	19	1160	130	180	341	271	125	63	256	48	23	139
29	15	1180	120	170	---	239	118	62	355	45	27	134
30	14	1380	120	160	---	213	108	54	179	44	24	65
31	16	---	110	150	---	194	---	71	---	42	21	---
TOTAL	530.8	27882	17561	8903	23615	15121	4523	2251	2651	7353	994	1100
MEAN	17.1	929	566	287	843	488	151	72.6	88.4	237	32.1	36.7
MAX	37	2000	1950	1590	2060	1630	260	107	355	861	67	139
MIN	8.8	20	110	68	140	192	108	48	33	42	21	13

CAL YR 1985	TOTAL	114669.7	MEAN	314	MAX	2080	MIN	6.2
WTR YR 1986	TOTAL	112484.8	MEAN	308	MAX	2060	MIN	8.8

7378

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^2.

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. 9-18. Records fair. Flow regulated by Piedmont Lake. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--48 years, 138 ft^3/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft^3/s Nov. 16, gage height, 10.80 ft; minimum daily, 2.6 ft^3/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	8.6	401	95	101	167	32	88	35	232	59	8.7
2	6.0	9.4	508	94	144	165	30	79	28	241	59	8.5
3	6.2	20	613	99	206	100	31	70	22	179	47	8.2
4	6.5	140	623	101	385	66	29	65	19	109	38	8.6
5	5.8	378	624	101	432	63	29	62	19	104	35	9.6
6	7.4	313	667	95	335	64	41	59	27	98	32	9.0
7	5.6	186	726	90	285	61	40	70	43	91	30	8.1
8	3.9	197	733	87	482	52	36	66	40	85	27	7.6
9	3.1	274	730	85	506	64	45	60	35	117	22	7.0
10	2.6	373	732	80	499	151	48	55	32	126	28	6.9
11	2.7	593	695	75	505	290	51	50	39	128	36	6.9
12	3.5	518	429	65	493	356	52	47	69	210	31	7.5
13	3.2	422	602	60	474	410	52	46	72	203	26	7.8
14	6.1	324	587	50	285	348	52	44	50	219	23	6.7
15	11	269	695	46	172	342	63	42	41	240	21	6.4
16	8.0	962	733	44	166	321	61	41	36	177	18	5.6
17	5.5	1140	728	46	228	244	71	41	39	194	17	5.6
18	4.5	568	737	60	346	181	73	41	36	153	15	7.0
19	4.3	284	754	117	349	189	71	37	32	117	13	9.3
20	9.4	328	722	341	332	155	75	82	30	132	13	11
21	25	485	695	323	314	61	115	72	27	137	11	7.7
22	13	548	697	364	293	56	132	57	24	124	11	7.4
23	10	542	706	431	262	52	125	52	23	115	11	7.8
24	13	539	721	463	245	47	117	46	18	107	14	9.5
25	18	540	720	452	236	42	112	41	15	100	12	37
26	14	544	721	446	210	40	111	38	12	96	11	26
27	10	571	670	378	180	42	107	38	20	93	11	30
28	9.1	686	570	230	171	40	102	39	109	88	11	32
29	8.0	503	563	138	---	38	93	36	115	81	10	28
30	7.6	380	364	101	---	36	91	36	173	73	9.5	29
31	8.3	---	139	98	---	34	---	41	---	65	8.9	---
TOTAL	245.5	12645.0	19595	5255	8626	4277	2087	1641	1280	4234	710.4	370.4
MEAN	7.92	421	632	170	308	138	69.6	52.9	42.7	137	22.9	12.3
MAX	25	1140	754	463	506	410	132	88	173	241	59	37
MIN	2.6	8.6	139	44	101	34	29	36	12	65	8.9	5.6

CAL YR 1985 TOTAL 55716.7 MEAN 153 MAX 1140 MIN 2.6
WTR YR 1986 TOTAL 60966.3 MEAN 167 MAX 1140 MIN 2.6

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^2.

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. 10-18. 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.--48 years, 322 ft^3/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,830 ft^3/s Nov. 17, gage height, 16.18 ft; minimum daily, 11 ft^3/s Oct. 3, 9-13, Sept. 10, 11, 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	1080	160	213	277	58	145	139	329	85	13
2	12	19	1160	177	323	274	84	131	102	356	102	13
3	11	21	1220	199	451	237	79	118	78	375	89	12
4	12	124	1310	218	812	156	79	105	59	225	65	12
5	12	819	1300	227	1420	154	77	98	52	176	53	13
6	12	902	1340	197	1600	150	88	95	98	146	48	14
7	12	603	1380	172	1210	149	108	103	155	126	42	13
8	12	371	1380	151	1170	125	94	110	123	111	37	12
9	11	420	1400	133	1210	134	92	98	107	167	32	12
10	11	674	1380	120	1090	252	107	88	96	361	33	11
11	11	1350	1290	120	1070	692	113	80	138	325	70	11
12	11	1740	1360	110	1040	845	117	75	194	461	63	12
13	11	1860	1440	110	1040	960	115	72	232	593	49	12
14	12	1620	1350	105	831	1010	114	72	184	593	40	12
15	14	1170	1280	100	441	1040	127	70	144	671	34	12
16	14	1480	1400	98	401	1020	143	72	120	640	29	11
17	14	2570	1460	95	491	758	149	75	114	568	26	11
18	13	2580	1440	95	932	462	164	77	117	440	23	13
19	13	1800	1420	216	1000	415	154	72	85	213	20	15
20	13	925	1410	1040	932	384	149	93	73	241	17	16
21	17	928	1370	1180	836	199	204	142	64	322	17	17
22	25	1170	1340	1210	828	157	278	112	54	248	16	18
23	18	1180	1250	1110	712	147	288	98	49	206	17	16
24	18	1160	1050	1110	587	136	258	89	41	180	21	17
25	25	1140	998	959	532	119	234	81	30	160	21	113
26	27	1170	897	917	468	112	219	74	24	144	18	130
27	22	1540	845	847	352	115	207	75	27	131	17	117
28	18	1890	722	503	304	111	192	84	351	120	17	138
29	16	2010	683	332	---	103	173	78	508	109	16	130
30	15	1630	600	235	---	98	154	99	445	100	15	117
31	15	---	289	216	---	92	---	186	---	90	14	---
TOTAL	459	34883	37070	12462	22296	10883	4448	2967	4003	8927	1146	1063
MEAN	14.8	1163	1196	402	796	351	148	95.7	133	288	37.0	35.4
MAX	27	2580	1460	1210	1600	1040	288	186	506	671	102	138
MIN	11	17	289	95	213	92	77	70	24	90	14	11

CAL YR 1985 TOTAL 124755.1 MEAN 342 MAX 2580 MIN 9.
WTR YR 1986 TOTAL 140607 MEAN 385 MAX 2580 MIN 1

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7378

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^2.

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: Nov. 11-20, Nov. 27 to Dec. 2, 11-15, Jan. 9-17, 21-29, Feb. 4-15, Feb. 25 to Mar. 4, Mar. 11 to Apr. 25, May 6 to June 2, June 6-12. Records fair, except estimated daily discharges, which are poor. 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.--64 years, 433 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,650 ft^3/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, 2,900 ft^3/s Nov. 18, maximum gage height, 6.42 ft Nov. 19 (backwater from Tuscarawas River); minimum daily discharge, 8.1 ft^3/s Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	25	1500	283	271	330	120	190	200	460	134	12
2	13	27	1200	203	331	300	120	174	140	500	199	10
3	11	36	1430	221	515	270	110	160	114	524	131	9.4
4	11	79	1440	246	630	250	108	145	84	400	99	10
5	10	615	1370	268	1300	236	101	127	67	260	74	12
6	8.7	929	1340	270	1800	227	96	120	150	205	62	13
7	8.9	760	1350	236	1800	226	100	110	240	169	57	14
8	8.9	495	1360	162	1600	181	110	130	210	145	53	12
9	12	402	1340	150	1400	188	140	140	170	187	48	11
10	12	631	1330	140	1200	266	130	120	130	448	45	11
11	12	1000	1400	130	1100	1000	130	110	170	556	52	11
12	11	1700	1600	130	1100	1200	150	100	240	849	64	17
13	9.2	2200	1600	125	1000	1300	150	90	392	879	48	17
14	8.1	2100	1500	125	800	1200	150	85	325	818	37	20
15	17	1400	1400	120	600	1400	150	85	241	753	30	20
16	17	1400	1510	120	521	1400	170	90	188	749	26	19
17	19	2500	1540	120	522	1300	190	90	151	675	24	16
18	22	2900	1560	128	911	1100	200	95	130	632	22	25
19	21	2500	1470	213	1150	620	210	90	129	387	20	32
20	23	2000	1400	1080	1210	530	220	85	108	284	18	31
21	32	1280	1330	1400	1120	470	200	120	95	355	18	27
22	46	1120	1300	1400	1070	320	300	180	78	315	15	15
23	52	1190	1270	1200	977	230	310	180	70	278	14	17
24	37	1160	1170	1100	819	200	350	170	63	234	20	20
25	24	1130	1030	900	640	180	320	180	53	208	21	167
26	34	1220	971	780	550	160	305	100	44	187	18	295
27	29	1400	877	670	440	150	279	100	47	169	17	215
28	21	2100	821	530	370	160	252	110	368	152	16	258
29	19	2300	725	440	---	150	233	100	731	136	15	212
30	22	1900	695	375	---	140	215	120	619	125	13	162
31	25	---	512	296	---	130	---	260	---	12	12	---
TOTAL	610.8	38499	39341	13561	25747	15914	5619	3956	5767	12191	1422	1713.4
MEAN	19.7	1283	1269	437	920	513	187	128	192	393	45.9	57.0
MAX	52	2900	1600	1400	1800	1400	350	260	731	879	199	295
MIN	8.1	25	512	120	271	130	96	85	44	112	12	9.4
(+)	2.22	2.09	2.18	2.23	2.18	2.00	2.00	2.09	2.10	2.10	2.10	1.94

CAL YR 1985 TOTAL 144084.8 MEAN 395 MAX 2900 MIN 8.1 (+) 2.12
WTR YR 1986 TOTAL 164338.2 MEAN 450 MAX 2900 MIN 8.1 (+) 2.10

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

03128500 LITTLE STILLWATER CREEK BELOW TAPPAN DAM, AT TAPPAN, 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^2.

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. 1 to Jan. 17, July 23 to Aug. 4. Records poor prior to Aug. 4, fair thereafter. Flow completely regulated by Tappan Lake. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--48 years, 77.4 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft^3/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, 700 ft^3/s Dec. 4, 5; minimum daily, 0.80 ft^3/s Nov. 6, 12-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	120	110	11	55	12	2.9	27	25	36	40	2.4
2	6.5	170	160	11	56	12	3.0	26	11	75	38	2.4
3	6.4	180	300	11	113	34	2.8	25	7.5	89	36	2.4
4	6.6	290	700	11	164	87	2.9	26	9.0	88	35	2.4
5	6.5	320	700	11	2.4	99	3.0	26	8.6	86	34	2.4
6	6.5	.80	690	28	2.4	99	3.1	28	53	82	34	2.4
7	6.5	120	680	55	2.4	61	2.9	30	77	79	32	2.4
8	6.5	500	680	55	40	9.7	2.8	31	75	75	32	2.4
9	6.6	500	670	55	165	9.7	2.8	29	71	77	29	2.3
0	6.6	500	660	50	264	86	2.7	27	69	79	30	2.3
1	6.7	260	680	50	305	120	2.7	26	75	84	32	2.4
2	6.5	.80	700	50	309	260	2.7	25	77	95	29	2.4
3	6.6	.80	700	80	314	399	2.7	26	75	125	29	2.4
4	6.7	.80	270	80	251	397	2.7	26	72	201	28	2.4
5	6.9	.80	560	50	164	323	2.8	26	69	215	13	2.4
6	6.7	8.2	620	20	164	325	3.1	26	65	155	3.2	2.4
7	6.4	80	610	11	164	128	3.2	26	60	182	3.1	2.3
8	6.6	85	600	11	115	23	3.6	25	49	205	2.9	2.3
9	6.5	90	500	11	19	24	4.1	25	41	90	2.8	2.3
0	6.5	90	260	11	12	10	4.9	28	44	91	2.7	2.3
1	6.7	250	58	105	12	3.0	6.3	29	38	91	2.6	2.3
2	6.7	580	120	267	12	3.1	8.1	29	35	88	2.6	2.2
3	6.7	570	100	338	12	3.1	11	28	35	28	2.6	2.2
4	6.4	560	100	294	12	3.0	15	19	31	70	2.6	2.2
5	5.9	560	100	201	12	3.0	18	16	29	65	2.5	4.4
6	5.8	560	100	201	12	3.0	22	14	28	60	2.4	5.6
7	5.8	20	40	259	12	3.0	26	22	29	56	2.4	7.0
8	5.9	30	11	207	12	3.0	27	18	38	52	2.4	10
9	6.2	46	11	104	---	3.0	26	12	40	48	2.4	12
0	6.9	70	11	82	---	3.0	28	17	36	45	2.4	12
1	6.1	---	11	75	---	2.9	---	27	---	42	2.4	---
TOTAL	200.8	6463.20	10684	2285	2788.2	2551.5	248.9	765	1372.1	2904	512.0	107.2
MEAN	6.48	215	345	89.8	99.6	82.3	8.30	24.7	45.7	93.7	16.5	3.58
MAX	6.9	580	700	338	314	399	28	31	77	215	40	12
MIN	5.8	.80	11	11	2.4	2.9	2.7	12	7.5	36	2.4	2.2

CAL YR 1985 TOTAL 27309.20 MEAN 74.8 MAX 700 MIN .80
WTR YR 1986 TOTAL 31383.60 MEAN 86.0 MAX 700 MIN .80

7378

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^2.

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: Dec. 24 to Jan. 4, Jan. 7-17, Jan. 27 to Feb. 1, Feb. 12-17. Records good except for periods of estimated record which are 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.--65 years, 2,550 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,800 ft^3/s Jan. 26, 1937, gage height, 20.65 ft, site and datum then in use; minimum daily, 170 ft^3/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^3/s computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,100 ft^3/s Nov. 17, gage height, 9.43 ft; minimum daily, 335 ft^3/s Sept. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362	395	9730	1700	1600	2940	1750	1510	1500	1600	807	390
2	366	532	9330	1600	2150	2620	1670	1470	1190	3490	1150	375
3	387	687	8940	1500	3940	2510	1600	1420	934	4490	862	370
4	393	954	8490	1600	4950	2480	1540	1350	810	4100	769	375
5	378	3450	8240	1760	9150	2500	1520	1290	747	2740	690	415
6	362	5830	8000	1740	10300	2550	1550	1250	1170	1950	648	401
7	353	5840	7240	1500	10800	2560	1590	1230	2900	1530	626	374
8	350	5990	6560	1400	10600	2320	1550	1300	2760	1310	642	362
9	355	5320	5890	1300	9810	2050	1520	1430	1920	1790	603	335
10	352	4690	5250	1200	9200	2390	1520	1230	1460	3780	588	335
11	360	7290	5560	1200	8660	4470	1520	1230	1320	3600	695	335
12	361	8750	8750	1100	7800	6220	1570	1020	1940	4580	750	379
13	363	9670	9760	1100	6800	6560	1530	937	2370	4760	690	526
14	402	9770	10100	1100	5800	8270	1420	893	1910	5170	619	526
15	449	10600	9760	1000	4200	10000	1420	860	1560	4200	574	435
16	486	11000	9180	1000	3300	8930	1540	853	1310	3340	539	377
17	475	9980	8330	1000	2800	7810	1650	881	1340	3300	508	351
18	455	8690	8160	1460	3910	6910	1600	986	1300	3020	522	378
19	448	10400	7590	3120	5270	5940	1550	1100	1090	2220	691	482
20	423	10600	6570	7230	6560	6050	1470	1160	977	1690	581	554
21	415	9200	5540	8900	7220	4910	1510	1440	995	1570	504	569
22	408	8700	4640	8230	7700	3540	1940	1610	891	1500	467	469
23	410	8070	4160	6520	7770	3010	2250	1290	848	1320	460	438
24	433	7550	3700	5895	6510	2760	2140	1100	785	1210	454	493
25	471	7370	3500	4990	5320	2520	1900	991	741	1100	447	954
26	523	7620	3200	4180	4430	2240	1740	898	685	1050	427	1160
27	505	8280	2900	3500	3830	2310	1660	878	772	1020	443	1080
28	444	9270	2600	3000	3370	2320	1620	943	2240	938	461	1370
29	400	10200	2300	2500	---	2160	1600	1240	2710	892	475	1160
30	383	9920	2100	2100	---	1990	1560	1210	2160	852	454	976
31	384	---	1900	1800	---	1860	---	1470	---	808	419	---
TOTAL	12656	216018	197970	86230	173750	125800	49100	36372	43275	74920	18565	16720
MEAN	408	7201	6386	2782	6205	4058	1633	1173	1443	2417	599	558
MAX	523	11000	10100	8900	10800	10000	2250	1610	2900	5170	1150	1370
MIN	350	395	1900	1000	1600	1860	1420	853	685	808	419	335

CAL YR 1985 TOTAL 1050249 MEAN 2877 MAX 11000 MIN 350
WTR YR 1986 TOTAL 1051266 MEAN 2880 MAX 11000 MIN 335

000086

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^2.

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.--48 years, 203 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft^3/s Mar. 13, 1964 from rating curve extended above 1,900 ft^3/s; maximum gage height, 8.45 ft Mar. 14, 1939; minimum daily discharge, 0.5 ft^3/s Nov. 18, 1982.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,530 ft^3/s July 15, gage height, 6.07 ft; minimum daily, 5.1 ft^3/s Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	23	1100	168	196	328	202	204	146	306	30	27
2	6.5	23	1070	165	210	285	191	157	197	313	29	25
3	5.1	31	1080	163	249	257	181	43	192	435	27	25
4	9.3	98	1130	160	308	238	179	13	170	625	25	25
5	14	210	1140	160	168	223	177	22	186	721	25	27
6	13	306	1110	158	830	223	173	30	249	702	25	25
7	13	405	886	158	522	223	158	43	308	576	27	25
8	13	452	633	157	1030	216	101	50	324	431	28	21
9	13	435	469	155	1320	211	44	51	356	315	32	18
10	12	439	377	150	1290	232	24	51	343	387	35	17
11	34	485	312	145	1280	319	17	51	291	331	42	19
12	48	528	226	141	1230	429	17	49	244	74	39	44
13	48	582	601	137	891	283	22	47	145	97	38	40
14	47	616	999	134	626	865	28	46	85	774	36	39
15	48	630	1140	132	456	1300	48	49	86	1480	35	38
16	49	492	1120	128	356	1320	65	58	92	1260	34	35
17	47	193	1080	128	305	1290	82	65	97	1070	34	29
18	39	196	996	140	292	1290	84	93	104	946	37	41
19	38	202	755	164	320	907	86	187	116	639	35	60
20	38	261	553	186	366	956	91	210	123	617	31	75
21	36	530	413	310	468	968	125	199	118	573	30	77
22	35	916	333	478	570	868	276	184	113	457	28	69
23	31	1050	284	544	637	748	389	92	105	365	29	70
24	28	1020	250	522	663	612	423	53	96	291	30	69
25	26	1010	224	460	632	487	422	60	87	201	25	79
26	26	674	205	388	556	394	391	63	50	126	25	88
27	25	262	192	331	474	340	341	70	43	115	36	152
28	25	426	184	283	390	293	292	73	87	106	35	275
29	24	432	180	252	---	261	253	75	136	50	34	465
30	24	831	177	229	---	236	221	85	237	28	32	578
31	24	---	172	207	---	215	---	122	---	26	30	---
TOTAL	846.8	13788	19391	7033	16635	16818	5103	2595	4926	14439	978	2577
MEAN	27.3	460	626	227	594	543	170	83.7	164	466	31.5	85.9
MAX	49	1050	1140	544	1320	1320	423	210	356	1480	42	578
MIN	5.1	23	172	128	168	211	17	13	43	28	25	17

CAL YR 1985 TOTAL 92[illegible]5.9 MEAN 253 MAX 1280 MIN 5.1
WTR YR 1986 TOTAL 105179.8 MEAN 288 MAX 1480 MIN 5.1

7378

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^2.

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. 22, 1941, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 3-21. Records fair. 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.--55 years, 355 ft^3/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,940 ft^3/s Mar. 13, gage height, 9.81 ft; minimum daily, 70 ft^3/s Oct. 4, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	91	1350	307	350	532	356	346	247	509	87	104
2	84	91	1440	299	755	474	349	301	293	753	94	103
3	73	304	1300	290	523	446	332	215	297	659	89	102
4	70	465	1320	290	1180	437	331	139	256	807	87	102
5	72	969	1320	280	1610	417	326	139	377	912	88	127
6	73	726	1330	260	1100	428	328	146	568	913	88	105
7	73	685	1180	260	2500	412	311	177	557	774	109	99
8	73	774	894	270	1420	376	284	179	490	600	112	94
9	70	691	708	270	1670	403	193	169	500	759	120	93
10	71	992	615	260	1570	639	172	170	493	632	114	89
11	74	1420	1700	260	1500	1090	159	171	430	868	145	89
12	105	1090	1470	260	1470	762	153	163	369	1300	123	307
13	112	1060	963	250	1230	2340	152	163	299	1200	116	137
14	120	1130	1230	250	900	1460	155	159	181	787	113	114
15	130	1030	1360	240	708	1730	242	168	207	1540	111	108
16	114	1670	1360	240	574	1650	211	258	207	1480	110	109
17	104	939	1320	250	572	1570	214	185	224	1380	108	103
18	97	537	1250	260	629	1520	218	223	203	1200	123	179
19	93	467	1080	330	713	1910	213	325	213	806	112	207
20	99	436	808	400	729	1300	235	374	319	742	108	154
21	96	647	656	560	1050	1310	453	338	249	704	104	150
22	96	999	541	762	958	1180	590	328	229	592	101	141
23	96	1110	480	810	966	1050	661	263	243	470	103	169
24	172	1170	440	781	946	893	641	147	211	372	105	200
25	135	1150	389	726	916	750	632	148	193	293	98	325
26	96	1590	359	657	823	638	600	150	172	187	97	221
27	91	1230	346	561	739	581	530	186	176	164	162	487
28	88	1140	328	477	625	498	458	182	703	151	124	1140
29	88	856	321	422	---	444	403	167	336	130	111	612
30	89	938	314	387	---	405	360	168	335	89	108	766
31	91	---	313	359	---	375	---	306	---	87	106	---
TOTAL	2946	26494	28485	12080	28736	28020	10262	6544	9577	21853	3377	6741
MEAN	95.0	883	919	390	1026	904	342	211	319	705	109	225
MAX	172	1670	1700	810	2500	2340	661	374	703	1540	163	1140
MIN	70	91	313	240	350	375	152	139	172	87	87	89

CAL YR 1985 TOTAL 162868 MEAN 449 MAX 3210 MIN 70
WTR YR 1986 TOTAL 185123 MEAN 507 MAX 2500 MIN 70

000088

03133500 CLEAR FORK BELOW PLEASANT HILL DAM, NEAR PERRYSVILLE, 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 Perrysville, and 4.7 mi upstream from the confluence of Clear Fork and Black Fork.

DRAINAGE AREA.--198 mi^2.

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

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 1986 water year 15.8 ft^3/s returned to Rocky Fork as sewage effluent. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--48 years, 199 ft^3/s .

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 967 ft^3/s Dec. 17, gage height 3.22 ft; minimum daily, 27 ft^3/s Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	33	572	128	180	227	186	151	64	125	47	27
2	35	33	703	126	180	227	178	143	60	161	45	33
3	35	33	840	128	376	189	167	134	55	180	43	34
4	35	45	911	128	443	163	162	121	52	158	41	34
5	35	128	864	128	448	163	156	110	52	133	38	36
6	35	238	641	128	690	163	153	103	68	111	37	35
7	35	216	624	128	672	209	150	101	81	94	39	34
8	35	205	694	101	714	231	146	96	93	81	39	35
9	35	177	760	79	735	231	143	88	90	50	38	37
10	35	240	479	86	667	231	141	82	83	106	38	37
11	35	494	296	90	753	556	139	79	77	145	41	37
12	35	513	407	90	797	676	134	77	73	417	38	42
13	36	531	522	99	800	595	126	74	66	482	36	44
14	36	541	788	103	810	584	117	73	63	489	36	42
15	36	544	893	103	765	614	128	75	66	474	37	40
16	36	557	865	103	536	617	130	93	72	425	37	39
17	36	599	856	95	399	604	127	88	64	312	37	39
18	36	611	907	93	522	739	121	83	57	226	35	39
19	36	598	761	96	568	818	115	87	52	170	32	39
20	36	583	344	180	565	817	120	82	65	134	39	39
21	36	568	222	616	564	818	176	77	77	110	39	39
22	34	549	222	735	569	814	252	75	72	92	36	39
23	33	529	305	813	566	780	273	74	75	79	35	39
24	33	507	212	650	563	730	263	71	75	70	32	39
25	33	483	153	353	560	522	242	67	67	65	33	45
26	33	467	153	350	470	318	225	64	60	62	33	46
27	33	527	153	429	278	279	209	70	56	60	36	59
28	33	560	153	390	202	263	187	73	112	57	34	88
29	33	579	153	336	---	241	172	70	163	54	31	80
30	33	579	153	158	---	219	159	68	145	51	29	70
31	33	---	135	170	---	202	---	69	---	48	27	---
TOTAL	1075	12267	15741	7215	15392	13990	4999	2718	2255	5262	1138	1286
MEAN	34.7	409	508	233	550	451	167	87.7	75.2	170	36.7	42.9
MAX	36	611	911	813	810	818	273	151	163	489	47	88
MIN	33	33	135	79	180	163	115	64	52	48	27	27

CAL YR 1985	TOTAL	77125	MEAN	211	MAX	1390	MIN	31
WTR YR 1986	TOTAL	83338	MEAN	228	MAX	911	MIN	27

7378

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^2.

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: Dec. 26 to Jan. 16 and May 3 to June 5. Records good except those for May 3 to June 5, which are poor. Flow regulated by Mohicanville Reservoir. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--48 years, 240 ft^3/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft^3/s Mar. 14, gage height, 8.35 ft; minimum daily, 16 ft^3/s Oct. 10, Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	33	547	110	161	233	151	110	64	108	37	2
2	45	33	854	110	850	216	145	97	58	690	38	2
3	34	297	1190	100	702	214	137	80	52	677	33	2
4	33	727	1160	100	769	242	135	64	46	258	31	2
5	34	822	1160	100	316	273	134	52	120	149	31	2
6	25	848	1160	98	724	319	143	58	236	105	30	2
7	21	838	1160	96	740	249	145	70	329	82	33	1
8	21	809	1120	94	945	209	133	56	244	67	32	1
9	19	799	1140	88	1080	246	138	60	152	575	51	1
10	18	819	1140	80	1140	787	180	56	96	582	35	1
11	22	856	1060	84	1150	1090	172	52	80	340	49	1
12	26	848	529	84	1140	980	147	48	71	736	34	1
13	24	854	544	84	1190	1080	129	45	61	853	29	4
14	25	872	890	82	1160	1200	131	42	56	838	27	2
15	38	851	1130	82	1080	1110	221	40	79	749	27	2
16	35	572	1130	80	958	1080	218	110	249	413	27	2
17	27	344	1150	146	702	1120	161	100	146	255	36	1
18	24	342	1130	761	757	1140	143	90	89	174	110	1
19	23	341	1130	1040	859	1150	123	140	73	134	38	1
20	26	573	1160	1200	908	1160	129	140	161	111	28	5
21	25	792	887	1070	1020	1090	327	110	96	95	26	3
22	24	607	529	913	1130	989	593	70	68	82	24	3
23	23	819	398	723	1010	814	534	54	65	70	24	4
24	59	808	325	473	763	602	276	45	53	61	28	5
25	66	819	249	378	577	437	197	40	44	58	23	1
26	39	804	200	316	431	346	292	36	41	53	23	8
27	31	532	160	277	363	306	208	36	52	51	85	2
28	27	551	140	346	275	260	152	44	480	48	43	3
29	26	552	130	294	---	224	128	38	291	46	29	1
30	26	550	120	234	---	193	116	35	126	42	26	8
31	29	---	110	188	---	163	---	70	---	39	23	---
TOTAL	939	19512	23742	9837	22900	19522	5838	2098	3778	8541	1110	1986
MEAN	30.3	650	766	317	818	630	195	67.7	126	276	35.8	66.2
MAX	66	872	1190	1200	1190	1200	593	140	480	853	110	321
MIN	18	33	110	80	161	163	116	35	41	39	23	18

CAL YR 1985 TOTAL 104409 MEAN 286 MAX 1200 MIN 16
WTR YR 1986 TOTAL 119803 MEAN 328 MAX 1200 MIN 18

000090

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^2.

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: Dec. 23 to Jan. 17, Jan. 27-29. 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.--33 years, (1954-86), 215 ft^3/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,630 ft^3/s Dec. 12, Feb. 5, gage height 5.45 ft; minimum daily, 12 ft^3/s Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	23	409	86	138	192	168	100	69	139	58	41
2	22	25	414	80	478	187	159	95	60	1470	56	40
3	21	54	326	76	468	189	152	88	50	861	52	42
4	19	113	261	72	1210	202	150	83	46	371	51	48
5	17	170	233	68	2420	219	147	83	45	227	51	71
6	12	185	223	66	1440	251	144	81	63	162	51	71
7	12	150	204	62	1590	238	145	84	104	126	52	59
8	13	140	194	58	1180	191	138	85	132	103	51	50
9	13	128	190	54	618	223	132	80	101	444	49	46
10	13	302	199	52	425	526	126	65	74	483	48	44
11	16	1480	1290	50	333	1090	123	61	62	465	51	45
12	16	1240	2270	47	271	625	118	58	56	1250	50	87
13	13	1130	1180	45	228	1830	116	55	48	603	49	98
14	18	916	646	43	211	1570	112	57	45	339	51	76
15	32	696	443	41	195	843	127	58	45	227	52	64
16	32	1140	320	39	182	516	137	89	50	174	47	56
17	28	1640	274	38	214	395	131	81	45	149	45	49
18	22	769	236	407	388	341	122	68	39	125	45	52
19	18	466	216	766	515	679	116	66	37	105	44	66
20	21	352	191	1070	529	612	121	66	187	93	42	69
21	24	280	181	566	603	395	196	63	251	85	39	63
22	23	239	170	433	561	318	255	62	133	77	39	58
23	24	209	150	342	421	287	216	62	115	71	39	57
24	29	187	140	269	345	263	177	61	90	65	44	58
25	37	169	130	236	314	239	155	55	70	61	44	252
26	38	516	120	219	275	224	143	52	59	59	43	231
27	30	1720	120	190	253	230	129	60	57	59	62	213
28	26	1390	110	170	213	218	120	78	499	59	63	319
29	25	944	100	160	---	204	109	72	365	55	55	196
30	23	542	96	146	---	191	101	62	137	51	49	136
31	22	---	90	137	---	179	---	72	---	52	45	---
TOTAL	679	17315	11126	6088	16018	13667	4285	2203	3184	8610	1517	2757
MEAN	21.9	577	359	196	572	441	143	71.1	106	278	48.9	91.9
MAX	38	1720	2270	1070	2420	1830	255	100	499	1470	63	319
MIN	12	23	90	38	138	179	101	52	37	51	39	40

CAL YR 1985 TOTAL 81926.1 MEAN 224 MAX 4080 MIN 8.8
WTR YR 1986 TOTAL 87449 MEAN 240 MAX 2420 MIN 12

7378

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^2.

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: Dec. 17 to Jan. 18, Feb. 12-18. Records good except those for Apr. 10 to July 3, which are fair, and those for periods of estimated record, which are poor. 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.--65 years, 1,522 ft^3/s.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 6,530 ft^3/s Feb. 11, maximum gage height, 11.48 ft Feb. 17, (backwater from ice); minimum daily, 248 ft^3/s Oct. 6-8, 10, Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	304	6180	900	1260	1990	1460	977	623	1170	429	265
2	307	303	5350	860	2220	1850	1390	922	518	3800	412	257
3	285	345	4570	880	3150	1780	1320	813	518	4500	404	254
4	260	1330	4470	960	4130	1730	1270	682	475	2790	378	267
5	254	2060	4420	1000	5370	1770	1250	605	513	2140	361	336
6	248	2820	4410	940	5050	1830	1230	591	786	1850	360	346
7	248	2350	3900	840	4160	1850	1230	604	1520	1590	371	297
8	248	2350	3660	800	3560	1610	1170	632	1370	1320	365	268
9	249	2210	3410	740	4750	1690	1070	573	1270	1430	356	252
10	248	2440	3260	700	6020	2590	1010	533	1070	3130	385	250
11	251	5380	3920	660	6530	4710	1010	494	993	2380	385	248
12	257	5910	4990	640	6200	4830	944	467	955	5120	400	369
13	311	5830	5970	600	5600	5440	877	446	814	5550	348	636
14	320	5720	6150	580	5200	6160	831	443	657	4260	332	399
15	353	4900	6050	560	3600	6120	888	432	564	3660	336	335
16	363	2530	5860	540	2000	6020	1120	512	728	3510	328	308
17	336	379	5000	520	1600	5890	1000	646	784	3050	325	290
18	318	1600	4400	520	2800	5380	932	506	662	2500	324	292
19	311	3640	3600	3340	3810	5930	869	542	557	2010	402	594
20	312	4610	2700	5500	4270	6430	853	767	752	1590	312	506
21	315	5300	2400	4740	4280	6510	1170	685	1180	1440	297	402
22	310	5830	2100	4480	5040	5420	1790	617	853	1280	290	372
23	307	5820	1800	4010	4470	4160	2260	599	748	1090	285	362
24	325	5690	1600	3690	3980	3670	1960	498	700	936	285	434
25	450	5190	1400	2730	3610	3120	1710	409	590	821	279	1070
26	390	4150	1300	2430	3210	2540	1580	394	[illegible]	716	266	1210
27	329	4930	1200	2200	2810	2270	1610	439	479	627	289	898
28	307	5560	1100	1970	2240	2090	1340	502	1710	580	417	2180
29	293	6020	1100	1740	---	1880	1180	471	2120	550	333	1490
30	291	6220	1000	1430	---	1710	1050	430	1420	499	294	1240
31	300	---	960	1280	---	1570	---	578	---	438	276	---
TOTAL	9358	111721	108230	52780	110920	111040	37374	17809	26450	66327	10624	16387
MEAN	302	3724	3491	1703	3961	3582	1246	574	882	2140	343	546
MAX	450	6220	6180	5500	6530	6510	2260	977	2120	5550	429	2180
MIN	248	303	960	520	1260	1570	831	394	475	438	266	248

CAL YR 1985 TOTAL 624713 MEAN 1712 MAX 7150 MIN 235
WTR YR 1986 TOTAL 679020 MEAN 1860 MAX 6530 MIN 248

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^2.

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

REVISED RECORDS.--WSP 573: 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 788.03 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. 22-24, Dec. 26 to Jan. 3, 6-16, Jan. 27 to Feb. 2, 12-17, 23-27, Mar. 21-24, 26-29, Aug. 22-27, Aug. 30 to Sept. 9. Records poor. Water-quality data collected at this site 1962 to 1977. Sediment data collected 1962 to 1969.

AVERAGE DISCHARGE.--56 years, 420 ft^3/s, 12.34 in/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 14	0530	2,820	15.42	Feb. 7	1630	3,340	15.81
Nov. 18	0830	3,110	15.64	Mar. 16	0200	2,460	15.14
Nov. 30	0830	2,070	14.78	July 12	1100	*3,840	*16.13
Dec. 14	0500	2,700	15.33				

Minimum daily discharge 45 ft^3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	84	1950	230	340	574	429	228	75	376	89	60
2	55	84	1730	220	680	524	412	214	488	1560	80	60
3	47	86	1550	210	875	511	375	190	352	1410	86	60
4	47	177	1360	281	2140	562	367	182	277	818	83	60
5	48	664	1100	249	2590	585	367	175	241	431	80	70
6	48	1080	858	230	2500	566	366	166	453	299	85	65
7	48	855	732	220	3210	550	341	187	497	227	94	60
8	47	825	655	200	3250	481	331	179	410	194	96	55
9	47	776	592	190	2920	541	330	151	327	485	89	54
10	49	678	550	190	2220	702	337	145	252	645	88	59
11	52	1360	512	180	1580	1060	333	136	230	760	96	61
12	50	1860	562	180	1100	1130	321	130	307	1460	97	145
13	49	2180	1730	170	800	1600	299	127	262	2690	84	154
14	53	2310	2610	170	640	2030	277	130	216	1760	80	94
15	70	2090	2320	160	520	2370	314	125	230	1190	82	80
16	75	1910	2270	160	480	2320	360	180	327	723	87	70
17	90	2440	2030	616	560	1890	351	189	369	674	85	65
18	89	3050	1620	1000	738	1500	320	177	270	510	93	85
19	87	2810	1330	1500	907	1680	287	164	190	391	90	262
20	99	2380	1030	1380	1090	1940	274	259	264	312	75	140
21	95	1810	848	1370	1190	1600	369	224	229	257	72	97
22	88	1440	680	1320	1330	1300	477	188	166	220	70	85
23	70	1140	560	1160	1300	1000	472	180	178	180	65	83
24	72	830	480	969	1200	840	424	158	142	166	65	123
25	98	647	432	818	1100	637	388	137	121	145	60	191
26	96	540	380	683	920	640	367	123	111	135	66	186
27	85	622	340	560	800	590	332	146	224	119	65	275
28	74	1730	310	480	679	550	297	148	1340	109	104	497
29	69	1770	290	420	---	510	269	134	1060	106	85	215
30	67	2060	270	370	---	486	239	255	542	99	66	163
31	72	---	250	310	---	470	---	1100	---	92	60	---
TOTAL	2081	40288	31941	16196	37659	31789	10456	6237	10859	20544	2521	3614
MEAN	67.1	1343	1030	522	1345	1025	349	201	362	663	81.3	120
MAX	99	3050	2610	1500	3250	2370	477	1100	1340	3460	104	497
MIN	45	84	250	160	340	470	239	122	111	92	60	54
CFSM	.14	2.89	2.22	1.12	2.90	2.21	.75	.43	.78	1.43	.18	.26
IN.	.17	3.23	2.56	1.30	3.02	2.55	.84	.50	.87	1.65	.20	.29

CAL YR 1985 TOTAL 185356 MEAN 508 MAX 3890 MIN 45 CFSM 1.09 IN. 14.86
WTR YR 1986 TOTAL 214185 MEAN 587 MAX 3460 MIN 45 CFSM 1.27 IN. 17.17

03140000 MILL CREEK NEAR COSHOCTON, OH

7378

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^2.

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: Oct. 1-24, Oct. 29 to Nov. 2, Dec. 23 to Jan. 4, 7, 10-15, Jan. 25 to Feb. 2, 14-16, Aug. 13-27, Aug. 30 to Sept. 2, 8-10, 15-17, 21, 22. Records fair, except those for estimated daily discharges, which are poor. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--50 years, 28.8 ft^3/s, 14.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,720 ft^3/s July 5, 1969, gage height, 13.92 ft, from rating curve extended above 2,200 ft^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	2100	*732	*8.57	No other peak greater than base discharge.			

Minimum daily discharge 0.40 ft^3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	1.4	57	8.0	18	26	19	8.6	5.0	18	3.4	1.3
2	1.2	1.2	68	7.5	24	28	17	7.6	3.8	278	4.9	1.8
3	1.0	2.6	43	7.0	42	29	15	6.7	3.0	52	3.0	2.4
4	.90	33	37	6.5	200	29	15	6.4	2.5	33	2.5	2.6
5	.70	59	35	9.9	318	27	14	6.2	2.5	24	2.3	3.6
6	.80	27	33	7.3	145	26	14	5.9	23	18	2.2	2.8
7	.90	14	31	5.8	293	24	14	6.4	12	14	2.3	2.4
8	.70	14	28	5.4	142	18	12	6.0	6.7	11	2.2	1.6
9	.60	10	26	5.3	87	29	12	5.0	4.3	39	2.0	1.2
10	.60	97	29	5.0	62	41	12	4.7	3.7	21	2.3	1.6
11	1.2	144	236	4.8	51	106	12	4.5	7.7	49	4.7	2.3
12	.90	219	202	4.6	44	53	11	4.3	8.5	45	2.4	5.4
13	1.0	164	96	4.6	38	140	9.9	4.2	4.7	31	1.7	2.3
14	2.4	137	61	4.4	34	157	9.2	4.7	3.7	24	1.5	2.0
15	1.5	89	47	4.4	29	170	12	4.7	5.2	18	1.3	1.7
16	1.8	434	42	5.7	27	68	10	4.5	3.5	15	1.2	1.4
17	1.5	199	38	13	41	63	11	4.1	2.8	14	1.2	1.5
18	1.7	37	30	41	70	53	9.5	4.3	2.3	11	1.5	2.0
19	2.5	57	28	77	76	73	8.4	4.0	2.2	8.9	2.0	3.0
20	3.5	45	27	225	73	53	9.5	3.9	7.1	7.8	1.4	2.0
21	3.0	37	24	78	82	42	28	3.9	3.3	6.7	1.0	1.5
22	2.5	35	21	65	66	38	20	3.7	2.3	5.3	1.1	1.3
23	3.0	30	18	52	55	37	16	3.7	5.5	4.9	1.4	2.0
24	3.4	27	16	43	48	34	13	3.3	2.8	4.5	1.7	7.7
25	2.7	23	14	36	42	31	12	3.0	2.3	4.3	1.1	21
26	2.3	183	12	32	39	29	12	2.8	2.2	5.6	1.0	4.4
27	1.8	176	11	28	38	30	11	8.7	92	4.4	1.5	21
28	1.9	236	10	26	30	26	10	5.5	163	4.0	2.2	21
29	1.5	112	10	24	---	24	9.1	3.6	39	5.3	2.3	6.1
30	1.3	71	9.0	20	---	22	8.1	16	22	3.8	1.6	4.1
31	1.8	---	8.5	19	---	20	---	12	---	3.2	1.1	---
TOTAL	51.00	2764.2	1348.5	875.2	2214	1568	385.7	172.9	448.6	784.2	62.0	135.0
MEAN	1.65	92.1	43.5	28.2	79.1	50.6	12.9	5.58	15.0	25.3	2.00	4.50
MAX	3.5	434	236	225	318	170	28	16	163	278	4.9	21
MIN	.40	1.2	8.5	4.4	18	18	8.1	2.8	2.2	3.2	1.0	1.2
CFSM	.06	3.39	1.60	1.04	2.91	1.86	.47	.21	.55	.93	.07	.17
IN.	.07	3.78	1.84	1.20	3.03	2.14	.53	.24	.61	1.07	.08	.18

CAL YR 1985	TOTAL	9334.13	MEAN	25.6	MAX	434	MIN	.21	CFSM	.94	IN.	12.77
WTR YR 1986	TOTAL	10809.30	MEAN	29.6	MAX	434	MIN	.40	CFSM	1.09	IN.	14.78

BEST COPY AVAILABLE

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^2.

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: Dec. 24 to Jan. 8, 7-17, Jan. 28 to Feb. 1, Feb. 14-18. Records excellent except for period of estimated record which is fair. Flow regulated by 13 flood-control reservoirs at points 19 mi to 58 mi upstream. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--50 years, 4,995 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78,700 ft^3/s Jan. 26, 1937, gage height, 21.98 ft; minimum daily, 420 ft^3/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^3/s, computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,400 ft^3/s Feb. 7, gage height, 15.36 ft; minimum daily, 672 ft^3/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	852	18100	3100	2900	6130	4070	2760	3550	3740	1590	828
2	715	853	17500	3000	4580	5560	3880	2670	2880	7450	1870	792
3	743	928	15200	2900	7180	5290	3730	2540	2350	11200	1650	768
4	754	1730	14400	3360	10100	5160	3610	2380	2050	8930	1490	788
5	743	4390	13500	3450	17600	5140	3530	2210	1840	6230	1370	920
6	717	8450	13200	3380	18600	5210	3500	2120	2190	4640	1310	937
7	697	8460	12000	2800	20000	5280	3540	2090	4430	3850	1270	841
8	686	8380	11000	2600	19100	4870	3440	2130	4900	3260	1260	781
9	677	7890	10000	2400	18800	4460	3320	2250	3960	3470	1240	736
10	672	7570	9210	2300	19200	5360	3230	2130	3250	7160	1210	716
11	673	12700	9770	2200	18300	8650	3190	1990	2890	6680	1300	709
12	674	16000	16200	2100	17300	11800	3180	1890	3160	10100	1380	806
13	687	17700	17300	2100	16000	13100	3090	1800	3820	12100	1310	1120
14	728	18000	18600	2000	12000	15700	2920	1770	3350	12000	1200	1250
15	788	17400	18500	2000	9000	18400	2890	1740	2750	10100	1150	1050
16	838	18300	17700	1900	7000	18600	3170	1750	2490	8620	1110	893
17	882	17200	16500	1900	5400	17000	3330	1980	2580	7370	1060	799
18	881	12600	15500	3040	6800	15600	3190	2020	2560	6530	1060	793
19	872	15500	14000	5560	9920	14400	3040	2090	2220	5360	1200	908
20	871	17200	11700	12900	12200	14100	2910	2310	2080	4100	1180	1280
21	879	16600	9730	14900	12700	13600	3100	2590	2510	3700	1030	1230
22	861	15900	8180	14800	14200	11200	3880	2770	2330	3420	965	1110
23	844	15100	7160	12800	14100	8810	4730	2550	1990	3040	931	999
24	859	13900	6200	11300	12500	7830	4750	2280	1930	2690	935	969
25	901	13100	5600	9500	11000	6950	4190	2000	1720	2440	895	2490
26	970	12500	5000	8000	9430	6100	3900	1840	1560	2270	879	2870
27	991	16400	4600	7200	8160	5580	3750	1830	1470	2090	891	2640
28	961	16500	4200	5600	7010	5380	3470	1920	6100	1960	970	3130
29	908	18800	3800	4600	---	5040	3180	2060	6580	1850	1040	3820
30	877	18500	3500	4200	---	4640	2930	2130	5000	1750	946	2950
31	864	---	3200	3500	---	4320	---	2920	---	1610	878	---
TOTAL	24933	369403	351050	161390	341080	279290	104640	67510	90490	169710	36570	39923
MEAN	904	12310	11320	5206	12180	9009	3488	2178	3016	5475	1180	1331
MAX	991	18800	18600	14900	20000	18600	4750	2920	6580	12100	1870	3820
MIN	672	852	3200	1900	2900	4320	2890	1740	1470	1610	878	709

CAL YR 1985 TOTAL 1911448 MEAN 5237 MAX 19300 MIN 672
WTR YR 1986 TOTAL 2035989 MEAN 5578 MAX 20000 MIN 672

7378

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^2.

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: 1981.

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 good except those for discharges between 100 and 350 ft^3/s, which are fair. 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.--48 years, 132 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 985 ft^3/s Aug. 24, 1980, gage height, 9.69 ft; minimum 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, 922 ft^3/s Dec. 7, gage height, 9.36 ft; minimum daily, 0.10 ft^3/s, Nov. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	273	86	619	4.9	80	3.4	4.8	7.3	4.4	5.2	5.2
2	11	462	619	520	4.9	80	3.4	5.0	7.3	4.3	5.2	5.1
3	11	460	742	241	162	30	4.2	5.0	7.3	4.4	5.4	5.1
4	11	450	774	69	218	4.4	4.3	5.0	7.6	4.6	5.8	5.0
5	11	417	795	70	3.9	4.2	4.2	5.0	7.4	4.7	5.8	5.0
6	11	393	830	97	4.0	4.1	4.1	5.1	7.6	4.9	5.3	4.4
7	6.6	465	888	86	78	3.8	4.1	5.1	7.5	4.7	5.4	4.2
8	3.8	462	879	32	450	4.0	4.9	82	6.6	4.9	5.3	4.3
9	4.1	458	871	13	724	4.2	5.9	100	6.6	5.0	5.1	4.3
10	4.7	462	864	3.7	809	4.6	5.9	38	6.9	4.7	5.6	4.4
11	5.0	246	856	3.3	824	17	5.9	38	7.5	4.7	5.6	4.6
12	5.3	.20	308	3.1	804	139	5.9	38	8.0	4.9	5.6	4.2
13	5.5	.10	387	38	823	253	5.9	38	8.0	4.9	5.6	4.4
14	6.5	296	656	99	723	288	6.1	39	8.0	17	5.6	4.6
15	5.6	398	788	98	497	292	6.2	38	7.9	37	5.2	4.6
16	4.9	474	856	25	492	292	6.2	15	8.6	37	5.0	5.1
17	4.9	4.8	884	4.1	334	290	6.2	3.8	7.9	37	5.1	4.6
18	4.9	3.9	869	4.0	290	255	6.2	4.8	7.8	24	3.3	4.4
19	5.0	4.0	860	4.0	297	238	6.2	4.2	7.6	6.2	.23	4.4
20	5.1	207	852	4.0	376	45	6.4	3.7	7.6	6.2	5.6	4.5
21	5.0	518	861	114	334	4.0	6.5	5.2	7.4	6.2	5.3	4.3
22	4.9	613	856	302	269	1.6	66	6.1	6.9	6.1	4.6	4.6
23	4.4	609	856	538	269	4.0	207	6.4	7.4	5.5	4.8	5.1
24	4.4	610	861	491	265	5.9	249	6.3	5.4	5.6	4.1	5.3
25	4.4	616	857	144	265	3.3	198	5.3	4.5	5.6	4.2	5.6
26	4.4	682	852	144	209	6.2	39	5.6	4.6	5.6	4.6	5.9
27	4.6	145	851	220	116	5.1	39	6.2	4.5	5.8	5.0	5.9
28	4.5	9.1	856	332	80	3.5	147	7.4	4.5	5.9	5.3	5.9
29	4.4	9.2	843	329	---	3.5	227	6.9	4.6	5.9	5.2	5.9
30	4.6	7.8	830	326	---	3.8	80	7.1	4.6	5.9	5.1	5.9
31	4.5	---	757	114	---	3.5	---	7.2	---	5.6	5.3	---
TOTAL	196.0	9668.10	23944	5087.2	9915.7	2362.7	1364.1	547.3	205.3	289.2	154.43	146.8
MEAN	6.06	322	772	164	354	76.2	45.5	17.7	6.84	9.33	4.98	4.89
MAX	11	682	888	619	324	292	249	100	8.6	37	5.8	5.9
MIN	3.8	.10	96	3.1	3.9	1.6	3.4	3.7	4.5	4.3	.23	4.2

CAL YR 1985 TOTAL 50979.70 MEAN 140 MAX 888 MIN .10
WTR YR 1986 TOTAL 53872.83 MEAN 148 MAX 888 MIN .10

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^2.

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: Dec. 14-24, Dec. 26 to Feb. 2, Feb. 11-16. Records good except for periods of estimated daily discharges, which are poor. 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.--51 years, 448 ft^3/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,500 ft^3/s June 6 or 7, 1963; maximum gage height, 24.51 ft Aug. 13, 1980 (backwater from tributaries); minimum daily discharge, 0.7 ft^3/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, 5,670 ft^3/s Nov. 29, gage height, 19.60 ft; minimum daily, 5.4 ft^3/s Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	23	3570	60	190	331	146	164	40	45	15	9.9
2	29	203	2310	60	400	325	129	98	33	56	60	12
3	30	414	1420	55	1100	333	117	79	29	190	85	11
4	33	525	1120	55	1490	338	112	70	28	122	31	15
5	28	1030	1120	50	2730	347	113	73	26	56	19	18
6	28	1040	1110	50	3390	331	127	71	27	41	13	24
7	26	596	1100	45	3060	343	188	83	53	33	12	23
8	25	516	1050	45	2400	241	187	120	73	26	12	14
9	20	497	1080	45	1660	266	143	168	58	51	16	11
10	13	603	1530	43	1280	468	135	151	39	157	20	9.7
11	9.6	1520	2200	42	1100	920	132	92	35	129	51	9.8
12	8.3	2250	1720	40	1000	988	121	81	60	65	63	15
13	11	2460	990	40	880	876	106	79	68	150	35	13
14	21	2100	983	39	760	1050	102	65	73	226	13	12
15	26	1530	850	38	650	1290	112	100	48	126	9.4	14
16	29	2070	650	37	560	1370	127	97	36	92	9.5	15
17	35	4280	480	36	923	914	123	78	29	143	6.6	15
18	41	5020	360	35	1850	725	132	60	27	181	6.8	18
19	38	4130	280	45	1950	690	117	45	30	78	9.2	19
20	46	2850	230	400	1360	823	98	55	29	32	7.2	21
21	43	1290	200	400	1130	499	164	107	35	26	5.4	22
22	39	779	160	360	1510	313	435	74	36	30	19	41
23	49	764	130	360	1100	271	543	54	31	23	27	78
24	35	718	110	420	790	248	461	48	21	16	36	88
25	21	691	98	470	697	217	414	44	20	13	60	96
26	19	996	90	380	614	200	325	39	16	14	36	81
27	24	3060	80	280	545	196	219	45	9.3	37	28	112
28	32	5140	75	220	439	197	189	55	27	28	23	129
29	17	5540	70	190	---	176	256	60	112	17	15	114
30	15	4710	65	180	---	167	275	53	118	14	13	70
31	16	---	65	170	---	155	---	47	---	12	11	---
TOTAL	823.9	57345	25326	4690	35558	15618	5868	2475	1266.3	2229	745.1	1128.4
MEAN	26.9	1912	817	151	1270	504	196	79.8	42.2	71.9	24.0	37.6
MAX	49	5540	3570	470	3390	1370	543	168	118	226	85	129
MIN	8.3	23	65	35	190	155	98	39	9.3	12	5.4	9.7
(+)	5.97	5.22	5.36	5.65	5.39	5.13	5.32	5.57	6.41	6.53	6.35	5.88

CAL YR 1985 TOTAL 152181.8 MEAN 417 MAX 5540 MIN 6.0 (+) 5.62
WTR YR 1986 TOTAL 153082.7 MEAN 419 MAX 5540 MIN 5.4 (+) 5.73

7378

03142190 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, 0.6 mi upstream from mouth, 5.0 mi north of Cambridge, and 3.5 mi north of Kimbolton.

DRAINAGE AREA.--159 mi^2.

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, 18,600 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, 806.48 ft; minimum, 12,200 acre-ft Oct. 17, 1968, elevation, 786.53 ft.

EXTREMES FOR CURRENT YEAR: Maximum recorded contents, 65,630 acre-ft Nov. 17, 18, elevation, 806.79 ft; minimum recorded, 42,100 acre-ft Sept. 17, 18, elevation, 800.05 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	799.76	41,230	--
Oct. 31	--	--	--
Nov. 30	805.02	58,830	--
Dec. 31	--	--	--
CAL YR 1985	--	--	--
Jan. 31	--	--	--
Feb. 29	--	--	--
Mar. 31	801.54	46,780	--
Apr. 30	--	--	--
May 31	--	--	--
June 30	801.26	45,800	--
July 31	800.65	43,960	-1,920
Aug. 31	800.16	42,450	-1,510
Sept. 30	800.44	43,310	+ 860
WTR YR 1986	--	--	+2,080

Salt Fork Reservoir--Maximum recorded contents, 65,630 acre-ft. Nov. 17, 18 (elev. 806.79 ft); minimum recorded contents 42,100 acre-ft Sept. 17, 18 (elev. 800.05 ft).

000098

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.8 W., Coshocton County, Hydrologic Unit 04140203, 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 mi².

PERIOD OF RECORD.--October 1936 to current year. Prior to October 1936, 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, 1929, nonrecording gage and Feb. 18, 1939, to Sept. 30, 1949, water-stage recorder, at site 1,500 ft downstream at [illegible] datum.

REMARKS.--Estimated daily discharges: Dec. 23 to Jan. 18, Jan. 30 to Feb. 1, Feb. 12-16. Records fair. Flow regulated by Seneca Lake on Seneca Fork, 60 mi upstream, Salt Fork Reservoir 40 mi upstream, and Wills Creek Lake, 0.2 mi upstream (see stat. no. 03142900). Water-quality data collected at this site 1957, 1965 to 1977.

AVERAGE DISCHARGE.--45 years, 935 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,930 ft³/s Mar. 7, 1940, gage height, 17.[illegible] ft; maximum gage height, 17.50 ft Mar. 22, 1964 (backwater from Muskingum River); minimum daily discharge, [illegible] ft³/s Aug. 10, Oct. 27-29, 1946, Jan. 28, 1952, July 6-9, 1969, Apr. 3, 1970, Feb. 25, 1975, Feb. 19, 1977, when gates at Wills Creek Lake were closed.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 27,300 ft³/s, computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,510 ft³/s Dec. 9, gage height, 15.54 ft; minimum daily, [illegible] ft³/s Oct. 1, Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	40	3250	590	720	1120	556	476	179	403	115	56
2	35	38	366[illegible]	530	956	982	527	472	[illegible]	417	118	50
3	35	41	4210	4[illegible]	1150	904	492	404	144	470	114	45
4	35	110	4760	4[illegible]	2050	883	463	333	128	427	130	50
5	36	502	4830	3[illegible]	2850	876	436	285	118	434	144	5[illegible]
6	37	1031	484[illegible]	350	2630	868	423	257	126	384	134	52
7	37	1290	497[illegible]	340	2400	859	425	248	158	316	114	49
8	37	1070	5060	320	2480	815	443	246	161	262	97	46
9	37	822	5210	300	3650	763	475	249	147	294	85	44
10	36	867	53[illegible]0	290	4030	778	474	257	146	769	80	42
11	37	1790	5150	280	4030	1250	417	276	189	742	88	40
12	36	2900	3100	260	3500	1770	440	279	291	777	89	49
13	35	3580	[illegible]	250	3000	2030	400	251	234	827	87	49
14	37	4050	3620	240	2600	2140	370	224	307	755	87	41
15	37	4190	3620	230	2200	2500	360	210	266	688	90	40
16	36	3230	4110	220	2000	2720	362	202	226	651	87	36
17	37	880	5100	220	1700	2700	368	205	200	640	80	34
18	36	787	5300	250	1810	2360	373	205	171	588	77	36
19	36	2980	5210	472	2410	1980	364	214	146	536	68	39
20	40	2640	3950	1200	2890	1770	367	227	139	477	59	39
21	45	3860	2030	1850	2830	1670	373	211	138	391	54	39
22	45	4230	1510	2080	2550	1430	392	198	127	322	46	39
23	45	4380	1200	1910	2490	1120	497	201	122	269	41	47
24	49	4460	1100	1880	2330	967	699	196	116	221	57	49
25	53	4570	1000	1910	1920	867	779	182	109	204	57	[illegible]
26	53	4430	950	1780	1610	789	752	163	99	197	58	[illegible]
27	49	1260	890	1470	1420	759	694	160	95	164	49	[illegible]
28	47	1360	830	1230	1260	720	599	168	248	148	78	[illegible]
29	43	1780	760	1060	---	681	514	170	452	139	74	[illegible]
30	40	2490	700	920	---	638	470	168	427	126	68	195
31	40	---	650	800	---	598	---	180	---	127	61	---
TOTAL	1235	66667	100720	24552	65468	40308	14304	7520	5675	13294	2607	2138
MEAN	39.8	2223	3249	792	2338	1300	477	242	189	429	84.1	72.9
MAX	53	4570	5340	2080	4030	2720	779	476	452	827	144	262
MIN	34	36	650	220	720	598	360	160	95	127	49	34

CAL YR 1985 TOTAL 327675 MEAN 898 MAX 5340 MIN 29
WTR YR 1986 TOTAL 344708 MEAN 944 MAX 5340 MIN 34

TOP

7378

Film Identification

Century

1303 Geneva Avenue
St. Paul, MN 55119

PRECISION℠ RESOLUTION TARGETS

LEFT

RIGHT

150 MM

6"

PM-3 8½"x11" PHOTOGRAPHIC GENERAL TARGET
NBS 1010a ANSI/ISO #2 EQUIVALENT

000100

7378

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^2.

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: Oct. 1-21, Dec. 19-Jan. 19, Jan. 26-Feb. 3, Feb. 12-17. 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.--50 years, 154 ft^3/s, 14.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s Sept. 14, 1979, gage height, 14.07 ft, from rating curve extended above 7,700 ft^3/s on basis of contracted-opening measurement of peak flow; minimum, 2.0 ft^3/s Oct. 3, 1963, gage height, 0.94.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 17	0130	*2,910	*7.01	Feb. 4	2130	1830	5.35
Nov. 27	0830	2,170	5.90	Feb. 7	1800	2010	5.65
Nov. 29	1800	1,670	5.07				

Minimum discharge, 5.1 ft^3/s Sept. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	7.8	314	47	96	158	93	82	27	31	14	6.1
2	8.8	8.2	389	45	94	149	88	78	21	79	12	6.0
3	8.2	17	242	42	150	126	82	70	17	239	11	5.9
4	7.6	46	186	40	1040	138	82	67	16	89	11	6.0
5	6.6	75	163	38	1700	139	78	67	16	58	11	11
6	6.4	73	158	36	971	142	80	66	37	44	9.7	9.6
7	6.0	42	133	35	1410	130	81	71	79	36	9.2	8.5
8	6.6	35	119	33	905	115	76	66	48	29	8.8	7.6
9	6.8	35	107	32	528	126	72	56	35	30	9.2	6.5
10	7.2	120	104	30	372	199	71	49	25	303	9.2	5.8
11	6.8	549	280	29	298	385	69	45	90	106	9.3	5.9
12	6.4	355	1090	28	250	278	65	42	92	124	8.5	7.4
13	6.2	557	510	27	230	704	62	40	66	147	9.3	16
14	11	508	334	26	210	714	59	40	43	94	8.4	14
15	17	331	223	25	190	759	71	39	34	69	7.9	9.8
16	14	1510	190	25	160	338	70	39	32	54	7.6	7.9
17	12	1680	162	24	170	326	67	37	25	53	7.5	7.2
18	11	471	139	23	339	270	64	34	21	80	7.3	6.7
19	9.6	273	130	55	325	380	59	31	18	46	7.0	7.4
20	11	191	120	1030	330	298	65	34	40	35	6.4	9.8
21	12	139	110	426	335	221	149	30	82	28	6.0	11
22	11	116	100	330	333	196	138	28	36	24	5.9	9.8
23	9.8	101	94	289	282	186	118	28	76	21	6.0	9.1
24	12	87	86	231	240	166	103	26	45	17	6.4	9.7
25	19	78	78	186	205	145	98	23	29	16	6.2	225
26	11	308	72	160	181	136	106	21	23	15	5.7	480
27	11	1540	66	150	180	149	96	36	20	16	5.6	223
28	8.3	1300	62	130	159	128	91	37	35	15	7.2	181
29	7.2	873	56	120	---	116	86	27	76	14	7.9	81
30	6.9	455	52	110	---	107	80	24	40	15	7.6	56
31	7.2	---	49	110	---	99	---	51	---	15	6.6	---
TOTAL	294.0	11881.0	5916	3912	11703	7622	2519	1384	1244	1942	255.8	1450.7
MEAN	9.48	396	191	126	418	246	84.0	44.6	41.5	62.6	8.25	48.4
MAX	19	1680	1090	1030	1700	759	149	82	92	303	14	480
MIN	6.0	7.8	49	25	94	99	59	21	16	14	5.7	5.8
CFSM	.07	2.83	1.36	.90	2.99	1.76	.60	.32	.30	.45	.06	.35
IN.	.08	3.16	1.57	1.04	3.11	2.03	.67	.37	.33	.52	.07	.39

CAL YR 1985 TOTAL 49315.8 MEAN 135 MAX 2860 MIN 6.0 CFSM .96 IN. 13.10
WTR YR 1986 TOTAL 50125.5 MEAN 137 MAX 1700 MIN 5.7 CFSM .98 IN. 13.32

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 sid. 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^2.

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: Dec. 24-28, Jan. 3-18, May 8, 9, Sept. 5-30. 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.--27 years, 135 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,120 ft^3/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^3/s, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,590 ft^3/s Nov. 28, gage height 10.42 ft; minimum daily, 4.9 ft^3/s Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	5.6	782	35	183	63	[illegible]	22	25	27	7.0	13
2	10	5.9	757	34	537	61	[illegible]	22	22	131	12	14
3	10	16	653	33	445	67	[illegible]	20	16	142	11	14
4	8.6	48	598	31	952	99	[illegible]	18	14	55	7.0	16
5	11	43	573	30	1480	144	32	18	13	33	6.6	13
6	9.0	46	564	29	957	180	32	17	33	24	7.0	8.8
7	10	23	542	28	996	178	34	23	120	20	6.6	7.2
8	11	25	525	27	776	93	33	22	177	18	5.6	6.6
9	6.7	33	373	27	472	88	31	18	67	42	5.4	6.4
10	5.7	526	79	26	404	146	29	17	41	196	7.0	6.2
11	5.4	1650	389	26	364	357	29	17	676	54	8.7	6.2
12	4.9	2020	960	25	340	210	30	16	1040	563	7.4	20
13	7.1	1600	572	24	321	664	27	20	395	245	7.0	14
14	10	1330	236	24	222	693	27	23	172	94	7.2	11
15	11	950	134	23	66	312	28	19	89	53	10	9.4
16	9.8	1730	107	23	59	191	30	20	60	35	11	8.0
17	10	2350	93	25	161	130	29	21	47	31	8.6	7.2
18	9.4	1570	79	37	571	105	27	20	36	24	11	6.8
19	7.0	945	87	285	394	194	25	18	31	19	11	6.6
20	13	783	64	873	278	227	26	22	30	16	12	6.4
21	17	710	58	479	339	111	65	21	27	13	10	6.2
22	11	545	56	417	470	78	61	18	24	12	9.4	6.0
23	9.1	268	53	455	351	69	42	17	23	11	18	6.0
24	11	245	50	344	320	62	35	17	21	10	21	7.2
25	12	235	48	288	311	56	31	17	18	7.2	18	58
26	12	605	45	282	288	53	31	18	17	11	17	14
27	10	2000	41	257	278	56	31	25	16	12	20	70
28	8.7	2430	39	216	197	57	28	74	23	9.3	16	130
29	8.1	1930	37	207	---	51	26	40	25	8.5	14	74
30	6.6	1060	36	192	---	45	23	26	23	7.6	14	41
31	5.9	---	35	180	---	41	---	23	---	8.1	13	---
TOTAL	290.5	25737.5	8685	4982	12532	4881	990	689	3521	1936.8	338.9	613.2
MEAN	9.37	858	280	161	448	157	33.0	22.2	117	62.5	10.9	20.4
MAX	17	2430	980	873	1480	693	65	74	1040	563	21	130
MIN	4.9	5.6	35	23	59	41	23	16	13	7.6	5.4	6.0

CAL YR 1985 TOTAL 70121.1 MEAN 192 MAX 2650 MIN 4.9
WTR YR 1986 TOTAL 65196.9 MEAN 179 MAX 2430 MIN 4.9

7378

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^2.

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: Dec. 23 to Jan. 15. 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.--47 years, 595 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft^3/s Jan. 21, 1959, gage height, 20.3 ft (from high-water mark), from rating curve extended above 24,000 ft^3/s on basis of flood-routing studies from station at Toboso; minimum daily, 28 ft^3/s Sept. 27, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	2000	*10,600	*11.61	Dec. 12	0700	6,550	9.38
Nov. 27	0200	9,890	11.29	Feb. 4	2100	8,150	10.37
Nov. 28	1430	7,720	10.62	Feb. 7	1400	6,510	9.35

Minimum daily discharge, 49 ft^3/s Oct. 7, 8, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	52	1790	190	582	477	239	190	153	583	94	60
2	57	53	1770	180	2150	468	219	183	145	688	93	63
3	56	117	1420	170	1880	478	197	173	134	330	94	63
4	54	155	1190	170	5250	567	181	166	122	200	88	160
5	52	196	1100	160	7050	692	166	164	125	148	85	95
6	51	163	1060	150	3700	770	161	165	360	127	83	78
7	49	138	987	150	5020	749	144	183	988	111	86	69
8	49	118	938	150	3170	510	224	178	669	836	85	63
9	51	217	804	140	2050	543	283	164	325	600	79	62
10	50	1360	412	140	1650	1020	264	156	302	743	86	63
11	51	4520	1970	140	1370	2200	255	145	1910	1990	90	61
12	50	3700	5260	140	1130	1280	249	143	1780	775	84	125
13	49	4230	2540	130	986	4490	235	144	624	397	80	82
14	54	3740	1660	130	885	3370	225	146	325	276	78	72
15	55	2700	1150	130	593	2070	257	140	230	219	76	65
16	52	7670	979	140	522	1360	242	152	190	190	76	65
17	50	5780	832	168	975	982	238	159	159	168	74	62
18	52	3250	659	612	2580	793	228	155	137	149	72	65
19	51	2320	531	1970	2170	1610	212	152	138	135	72	61
20	78	2000	495	4710	1770	1430	252	151	142	128	71	62
21	73	1770	440	2270	1720	818	391	150	133	122	68	61
22	66	1480	382	2180	1920	632	383	144	182	117	67	56
23	57	944	350	2020	1360	558	304	138	218	112	69	60
24	87	808	320	1520	1140	492	266	135	145	116	71	70
25	71	743	290	1240	1040	425	242	123	113	112	66	722
26	62	2670	270	1150	917	386	267	143	104	106	65	563
27	57	7600	250	997	871	415	252	178	153	102	100	700
28	56	6570	230	810	702	409	232	280	138	99	74	763
29	54	4070	220	731	---	358	212	268	124	97	64	338
30	55	2340	210	652	---	314	201	197	125	94	64	213
31	52	---	200	582	---	275	---	173	---	93	61	---
TOTAL	1776	72074	30709	24022	55156	30941	7242	5138	10393	10163	2415	5046
MEAN	57.3	2402	991	775	1970	998	241	166	346	328	77.9	168
MAX	87	7670	5260	4710	7050	4490	391	280	1910	1990	100	763
MIN	49	52	200	130	522	275	144	123	104	93	61	56

CAL YR 1985 TOTAL 261499 MEAN 716 MAX 12000 MIN 49
WTR YR 1986 TOTAL 255074 MEAN 699 MAX 7670 MIN 49

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^2.

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^3/s; 26 years (water years 1961-86), 877 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft^3/s Jan. 22, 1959, gage height, 32.46 ft; minimum daily, 19 ft^3/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, 4,690 ft^3/s Dec. 10, gage height, 9.61 ft; minimum daily, 87 ft^3/s June 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	104	3000	286	627	504	227	296	248	329	106	105
2	97	101	3560	305	653	504	95	216	144	405	105	104
3	97	100	3970	335	1660	631	97	169	108	1200	104	103
4	98	96	4260	346	2990	813	96	170	108	804	103	113
5	98	98	4520	345	356	870	99	199	120	247	103	106
6	97	97	4550	380	693	929	100	212	177	234	104	105
7	97	98	4570	398	2040	971	160	286	250	131	104	103
8	98	97	4470	333	2380	965	309	314	250	112	103	104
9	97	100	4470	263	3780	705	367	222	666	314	102	103
10	98	119	4420	251	4450	524	367	158	1270	1040	105	103
11	100	137	4400	252	4550	1600	323	158	1230	636	103	104
12	100	222	4460	251	4500	2610	289	157	1830	971	103	103
13	100	779	4470	250	4460	2480	289	158	1730	1550	98	103
14	103	1270	4490	251	4100	3740	290	180	1010	1210	93	103
15	103	1770	4520	252	3230	3710	290	188	879	499	92	103
16	103	923	4520	251	3100	2740	320	187	108	339	91	102
17	104	273	4400	221	2970	1890	369	187	87	276	91	103
18	104	874	4410	195	2900	1080	314	187	88	181	91	103
19	103	2110	4490	204	2870	952	285	186	89	108	91	104
20	105	3420	2950	217	2820	1510	286	185	92	110	91	105
21	105	3500	1270	582	2310	1770	379	185	94	183	91	105
22	103	3540	1240	2260	1610	960	576	185	96	192	91	106
23	103	3500	774	3680	1600	957	475	184	163	191	91	107
24	103	3430	564	3470	1600	636	367	193	328	192	90	107
25	102	3780	609	2640	1300	641	277	[illegible]	281	159	90	108
26	103	3010	482	2530	1190	695	211	184	180	107	107	466
27	101	374	360	2430	1100	642	211	185	145	107	121	532
28	101	593	393	2060	812	605	429	220	138	108	112	895
29	102	1010	393	1190	---	546	427	306	136	107	106	1020
30	102	2130	410	871	---	546	309	290	277	105	106	371
31	102	---	276	745	---	517	---	262	---	106	104	---
TOTAL	3126	37655	91779	28044	66651	38243	8633	6382	12322	12253	3092	5899
MEAN	101	1255	2961	905	2380	1234	288	206	411	395	99.7	197
MAX	105	3780	4570	2680	4550	3740	576	314	1830	1550	121	1020
MIN	97	96	360	195	356	504	95	157	87	105	90	102

CAL YR 1985 TOTAL 315594 MEAN 865 MAX 4570 MIN 94
WTR YR 1986 TOTAL 314079 MEAN 860 MAX 4570 MIN 87

7378

03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, 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^2.

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: Aug. 27 to Sept. 12. 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.--65 years, 7,633 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 126,000 ft^3/s Jan. 26, 1937, gage height, 21.14 ft; minimum daily, 325 ft^3/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^3/s, computed by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47,900 ft^3/s Nov. 16, gage height, 11.99 ft; minimum daily, 753 ft^3/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	899	936	26000	6380	7150	10500	6380	4410	4460	6010	2170	1100
2	891	963	26900	5970	8580	9530	5520	4190	4440	5550	2160	1100
3	894	1070	26300	5600	11400	8880	5290	3880	3540	12300	2360	1000
4	877	1550	25100	5510	20300	8850	5350	3620	3000	12200	2150	1200
5	917	3430	24900	5550	26300	8860	5150	3400	2700	9500	2010	1200
6	898	7960	24400	5310	27400	8860	5090	3230	2630	7050	1890	1200
7	883	10700	23900	5120	28700	9030	5120	3300	4010	5640	1810	1200
8	807	10400	22800	4690	29000	8490	5180	3390	6170	4690	1750	1100
9	820	10300	21900	4050	28000	8020	5130	3280	5600	4480	1690	1000
10	839	10100	21000	3860	29200	7960	5010	3230	5550	7310	1690	980
11	753	17300	21600	3940	29200	12900	4910	3020	4980	9790	1740	1000
12	781	20500	27700	3900	28200	17500	4760	2930	6230	10400	1750	1100
13	847	22600	27500	3820	27000	19300	4690	2860	6710	14800	1800	1150
14	890	24600	28000	3690	25800	23200	4520	2770	5750	15100	1730	1490
15	930	25200	27800	3610	23600	25600	4370	2800	4970	13300	1630	1560
16	976	38800	27200	3380	21400	26400	4410	2840	3760	11600	1540	1340
17	996	36900	27200	3430	20300	24600	4780	2900	3340	11700	1500	1150
18	1060	21600	26300	3920	19700	22400	4800	3140	3310	9370	1470	1020
19	973	20400	25400	6680	17700	20900	4550	3170	3110	7830	1410	1020
20	1090	24500	22600	15100	19700	19800	4410	3270	2920	6450	1490	1250
21	1220	25100	16900	19400	21400	19900	4540	3520	2940	5440	1480	1580
22	1140	24800	13800	20900	21200	17500	5430	3740	3240	4860	1320	1540
23	1060	24600	11900	21900	21200	14600	6400	3810	2900	4430	1250	1440
24	1040	23600	10600	20100	20400	12500	6840	3470	2810	3980	1290	1350
25	1120	23000	10300	17800	18300	11000	6620	3140	2740	3600	1230	1690
26	1140	25500	8970	15900	16000	10100	6110	2840	2360	3380	1130	4310
27	1280	36800	7940	14200	14200	9280	5600	2790	2130	3070	1200	4490
28	1250	31800	7960	12600	12500	8750	5610	2900	3790	2810	1300	4620
29	1110	27200	7530	10400	---	8240	5280	3040	8060	2630	1400	5930
30	1020	25700	6860	8680	---	7720	4720	3260	7450	2500	1300	4430
31	962	---	6570	8040	---	7240	---	3440	---	2340	1200	---
TOTAL	30363	577909	613830	273430	593830	428410	156770	101580	125600	224110	49840	54540
MEAN	979	19260	19800	8820	21210	13820	5226	3277	4187	7229	1608	1818
MAX	1280	38800	28000	21900	29200	26400	6840	4410	8060	15100	2360	5930
MIN	753	936	6570	3380	7150	7240	4370	2770	2130	2340	1130	980

CAL YR 1985 TOTAL 3114791 MEAN 8534 MAX 38800 MIN 692
WTR YR 1986 TOTAL 3230212 MEAN 8850 MAX 38800 MIN 753

000105

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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, 771 mg/L Nov. 12; minimum daily mean, 6 mg/L Jan. 18.
SEDIMENT LOADS: Maximum daily, 59,400 tons Nov. 16; minimum daily, 34 tons Aug. 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
22...	1100	1140	910	8.00	16.5	17.5	1.5	7.3	79	10
DEC										
10...	1215	21000	420	7.60	5.0	8.5	17	11.0	96	1200
MAR										
04...	1030	8800	580	7.80	2.0	3.5	15	9.6	75	520
MAY										
08...	1000	3380	640	8.50	24.0	19.0	5.5	10.2	112	50
JUN										
10...	1130	5380	590	8.10	26.0	24.0	30	7.5	92	1600
AUG										
06...	1100	1840	649	7.00	32.5	27.0	2.7	5.2	67	46

DATE	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)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT										
22...	8	86	27	61	6.6	166	170	100	0.3	1.2
DEC										
10...	180	48	15	15	3.6	74	100	26	<1.0	8.0
MAR										
04...	200	63	19	24	2.9	98	120	48	0.1	8.0
MAY										
08...	--	63	23	31	3.5	104	110	48	0.2	<0.1
JUN										
10...	370	65	19	29	4.2	103	130	45	0.2	6.4
AUG										
06...	33	62	25	38	5.0	94	150	59	0.3	0.2

DATE	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)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
OCT										
22...	644	1.10	0.17	0.8	0.16	0.14	0.11	10	2	68
DEC										
10...	257	1.70	0.09	0.8	0.11	0.07	0.04	20	<1	40
MAR										
04...	344	2.30	0.13	0.4	0.10	0.02	0.02	--	--	--
MAY										
08...	391	0.13	0.03	1.2	0.11	0.02	0.01	--	--	--
JUN										
10...	364	2.00	0.10	1.0	0.17	0.05	0.04	30	1	52
AUG										
06...	418	<0.10	0.10	1.3	0.09	0.03	0.02	--	--	--

7378

03150000 MUSKINGUM RIVER AT MCCONNELSVILLE, OH-Continued

WATER-QUALITY RECORDS

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM, DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM, DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY, DISSOLVED (UG/L AS HG)
OCT										
22...	2	<1	1	<3	13	11	<1	15	170	0.1
DEC										
10...	<0.5	<1	<1	<3	2	40	1	9	96	<0.1
MAR										
04...	--	--	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	<0.5	<1	<1	<3	6	12	<1	15	24	<0.1
AUG										
06...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)
OCT									
22...	<10	5	<1	<1	320	<6	11	100	28
DEC									
10...	<10	2	<1	<1	220	<6	11	100	30
MAR									
04...	--	--	--	--	--	--	--	100	44
MAY									
08...	--	--	--	--	--	--	--	99	40
JUN									
10...	<10	3	<1	<1	260	<6	4	96	60
AUG									
06...	--	--	--	--	--	--	--	100	70

000107

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^2.

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: Dec. 15 to Jan. 17 and Jan. 26 to Feb. 1. Records good except for periods of estimated record which are fair. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--47 years, 89.3 ft^3/s, 13.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft^3/s July 22, 1948, gage height, 17.68 ft (from high-water mark in well), from rating curve extended above 4,300 ft^3/s on basis of slope-area measurement of peak flow; minimum, 3.0 ft^3/s Dec. 29, 1947, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	1945	*3,350	*10.31	No other peak greater than base discharge.			

Minimum discharge, 16 ft^3/s Oct. 8, 9, 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	21	186	47	92	86	64	53	28	57	19	16
2	19	22	163	46	267	86	62	47	53	113	35	16
3	17	89	128	45	205	95	59	45	34	58	20	16
4	17	136	115	44	738	114	59	44	28	41	18	21
5	17	166	111	44	502	135	58	44	27	34	17	49
6	17	122	109	43	261	171	65	44	28	29	17	23
7	17	80	97	43	447	137	65	50	31	26	17	18
8	17	75	94	43	242	109	59	44	32	39	16	17
9	16	60	87	42	178	117	58	41	25	32	16	16
10	16	116	86	42	151	133	56	38	25	34	20	16
11	16	716	349	42	133	349	54	37	27	34	28	16
12	17	373	390	42	115	185	52	37	73	95	18	39
13	19	289	204	42	104	263	50	37	43	171	16	26
14	19	273	160	42	100	196	49	42	34	80	16	19
15	20	212	128	42	94	172	57	38	30	55	16	18
16	19	2450	112	42	89	140	52	36	28	43	16	17
17	18	795	102	42	521	122	51	34	26	39	21	16
18	18	316	94	53	359	113	49	32	23	32	24	17
19	19	218	88	120	213	124	47	31	22	29	17	24
20	63	173	82	264	171	104	54	31	25	32	19	21
21	50	144	76	163	188	91	75	31	22	34	17	19
22	28	128	72	292	161	88	88	32	21	25	16	18
23	24	111	68	255	133	87	71	32	21	23	19	19
24	25	100	64	180	123	81	61	29	20	21	30	24
25	30	94	61	160	114	77	60	27	19	21	17	27
26	25	280	58	140	111	77	63	33	18	36	16	24
27	23	716	56	130	107	84	58	60	19	25	31	175
28	22	948	54	120	91	73	54	41	72	21	23	96
29	21	365	52	110	---	71	52	35	68	21	17	54
30	21	227	50	100	---	69	49	33	47	19	16	42
31	21	---	48	98	---	66	---	31	---	18	16	---
TOTAL	695	9815	3544	2918	6010	3815	1751	1189	969	1337	604	919
MEAN	22.4	327	114	94.1	215	123	58.4	38.4	32.3	43.1	19.5	30.6
MAX	63	2450	390	292	738	349	88	60	73	171	35	175
MIN	16	21	48	42	89	66	47	27	18	18	16	16
CFSM	.25	3.67	1.28	1.06	2.42	1.38	.66	.43	.36	.48	.22	.34
IN.	.29	4.10	1.48	1.22	2.51	1.59	.73	.50	.41	.56	.25	.38

CAL YR 1985	TOTAL	40429	MEAN	111	MAX	2450	MIN	14	CFSM	1.25	IN.	16.90
WTR YR 1986	TOTAL	33566	MEAN	92.0	MAX	2450	MIN	16	CFSM	1.03	IN.	14.03

7378

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, on 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^2.

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: Dec. 20 to Jan. 18 and Jan. 29 to Feb. 1. 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.--56 years, 461 ft^3/s, 13.64 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,000 ft^3/s Mar. 10, 1964, gage height, 21.31 ft, from rating curve extended above 17,000 ft^3/s on basis of contracted-opening and slope-area measurement of peak flow; minimum daily, 23 ft^3/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^3/s, from reports of U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 3,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	1130	3,560	9.04	Dec. 12	0330	3,850	9.54
Nov. 17	0330	*13,300	*17.41	Feb. 4	2300	4,690	10.91
Nov. 28	2030	6,760	13.28				

Minimum daily discharge, 61 ft^3/s Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	75	1410	210	380	476	305	181	120	266	83	62
2	77	76	1230	200	1290	479	288	171	160	475	97	63
3	72	170	916	200	1480	519	270	156	115	302	82	52
4	68	352	747	190	3170	586	262	150	103	192	77	80
5	69	435	667	190	4020	667	252	150	101	147	75	131
6	66	441	633	190	2360	755	269	149	101	125	73	87
7	63	265	544	180	2370	748	287	170	104	113	72	70
8	64	236	498	180	1890	567	238	159	123	164	71	64
9	62	199	456	180	1320	601	251	146	111	145	69	63
10	62	314	432	170	1030	676	241	134	97	184	70	61
11	62	2590	988	170	853	1770	228	129	100	147	103	62
12	63	1830	3000	170	710	1230	215	124	250	426	85	113
13	66	1440	1570	170	558	1410	203	128	180	752	72	98
14	68	1230	1140	160	581	1310	194	144	125	493	68	75
15	69	1100	802	160	555	1210	219	140	107	281	67	68
16	67	6390	688	160	488	935	212	131	104	203	68	66
17	64	10600	625	160	1530	774	204	123	103	170	79	62
18	63	4130	483	200	2490	681	198	116	89	147	87	62
19	64	1670	399	413	1540	725	184	113	85	129	79	71
20	133	1180	360	1620	1230	650	195	113	104	122	70	71
21	185	887	340	1040	1170	529	287	110	94	134	68	67
22	119	733	320	1110	1220	479	348	110	84	117	66	66
23	91	609	300	1330	919	460	281	112	78	102	68	70
24	92	517	290	997	800	428	242	112	76	95	92	81
25	106	463	270	835	730	396	231	106	72	92	76	90
26	97	843	260	782	673	385	242	108	70	151	65	79
27	84	5070	250	653	651	423	244	231	70	152	100	488
28	77	5810	240	575	541	388	216	166	218	103	100	422
29	74	4310	230	500	---	358	200	139	551	94	76	201
30	74	1950	220	450	---	337	183	145	230	89	67	128
31	76	---	220	400	---	318	---	144	---	83	64	---
TOTAL	2491	55915	20528	13945	36549	21270	7209	4310	3925	6195	2389	3186
MEAN	80.4	1864	662	450	1305	686	240	139	131	200	77.1	106
MAX	185	10600	3000	1620	4020	1770	348	231	551	752	103	488
MIN	62	75	220	160	380	318	183	106	70	83	64	61
CFSM	.18	4.06	1.44	.98	2.84	1.49	.52	.30	.29	.44	.17	.23
IN.	.20	4.53	1.66	1.13	2.96	1.72	.58	.35	.32	.50	.19	.26

CAL YR 1985	TOTAL	212518	MEAN	582	MAX	10600	MIN	61	CFSM	1.27	IN.	17.22
WTR YR 1986	TOTAL	177912	MEAN	487	MAX	10600	MIN	61	CFSM	1.06	IN.	14.42

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^2.

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: Dec. 17 to Jan. 18. 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 Strounds Run, 1.1 mi upstream.

AVERAGE DISCHARGE.--10 years, 1,112 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,600 ft^3/s Feb. 27, 1979, gage height, 25.45 ft; minimum daily, 52 ft^3/s Sept. 19, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 11, 1964 reached a stage of 24.18 ft at site and datum then in use, discharge, 32,900 ft^3/s. Flood in March 1907 reached a stage of 27 ft, site and datum then in use, discharge 50,000 ft^3/s, estimated by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,600 ft^3/s Nov. 18, gage height, 24.25 ft; minimum daily, 52 ft^3/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	107	3770	380	783	1070	659	415	265	360	125	78
2	83	110	3070	370	1650	1030	620	400	243	422	120	71
3	104	123	2600	360	2480	1070	584	373	275	679	125	65
4	93	214	1830	350	4990	1150	562	342	230	443	123	75
5	87	538	1450	340	8800	1290	542	328	203	290	113	70
6	81	737	1330	340	6170	1490	532	323	193	225	103	104
7	79	608	1230	330	4730	1690	536	343	190	190	101	116
8	78	407	1100	330	4520	1400	545	387	194	171	103	86
9	75	344	1010	330	3300	1270	512	351	199	192	99	67
10	74	295	945	320	2600	1380	503	312	192	192	97	59
11	73	671	979	320	2140	2480	487	283	181	228	99	57
12	72	3420	4540	320	1610	3230	468	267	808	200	108	66
13	74	3100	5360	320	1300	3090	444	258	583	623	112	67
14	77	2360	3350	310	1190	3120	425	268	357	1080	100	102
15	81	2250	2410	310	1170	2920	416	281	247	692	86	87
16	76	4390	1700	310	1100	2440	425	268	203	429	83	67
17	75	8910	1300	310	1390	1900	421	265	177	319	101	55
18	75	16200	1100	310	4840	1650	410	248	161	265	106	53
19	76	9510	940	484	4120	1780	401	251	148	230	108	52
20	130	3250	840	1840	3040	1780	388	248	141	204	110	58
21	176	2450	760	2500	2480	1470	489	232	138	191	101	62
22	236	2030	680	1990	2650	1210	604	224	148	191	89	59
23	185	1410	640	2620	2170	1080	701	217	134	185	95	57
24	146	1120	580	2400	1760	1050	622	213	124	167	104	60
25	134	976	540	1920	1590	1010	547	208	114	154	97	63
26	141	938	500	1680	1450	871	587	202	108	185	102	78
27	136	4010	480	1530	1390	816	634	247	110	176	102	136
28	125	8690	450	1200	1250	831	551	411	159	224	104	279
29	115	9880	430	1070	---	771	480	333	341	162	124	414
30	111	8330	410	1020	---	730	441	270	649	140	106	257
31	107	---	400	873	---	691	---	256	---	132	88	---
TOTAL	3255	97[illegible]8	46724	27087	78463	47760	15536	9044	7215	9342	3238	3021
MEAN	105	3246	1507	874	2802	1541	518	292	241	301	104	101
MAX	236	16200	5360	2620	8800	3230	701	415	808	1080	125	414
MIN	72	107	400	310	783	691	388	202	108	132	83	52

CAL YR 1985 TOTAL 413150 MEAN 1132 MAX 16200 MIN 72
WTR YR 1986 TOTAL 348063 MEAN 954 MAX 16200 MIN 52

7378

03159510 HOCKING RIVER BELOW ATHENS, OH

WATER-QUALITY RECORDS

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, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
12...	1200	3580	360	7.00	19.0	13.0	60	9.9	97	3200
MAR										
18...	0930	1660	450	6.90	7.5	7.5	2.0	11.4	97	1400
MAY										
28...	0930	432	850	7.60	21.5	19.0	7.0	7.4	82	750
JUL										
30...	1100	139	920	8.30	29.0	25.0	4.5	6.7	83	440

DATE	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)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV										
12...	18000	45	15	14	5.4	63	85	32	0.2	11
MAR										
18...	460	43	15	17	2.0	67	100	30	0.1	8.8
MAY										
28...	440	76	28	48	3.4	98	210	72	0.2	9.6
JUL										
30...	230	85	29	67	4.3	141	190	110	0.3	3.4

DATE	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)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSEN DI SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
NOV										
12...	283	2.40	0.16	2.8	0.79	0.66	0.14	1400	1	93
MAR										
18...	264	1.20	0.08	0.7	0.07	<0.01	<0.01	--	--	--
MAY										
28...	532	0.92	0.15	0.7	0.12	0.03	0.02	20	<1	60
JUL										
30...	582	0.36	0.06	0.7	0.15	0.08	0.03	40	<1	62

DATE	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)	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)
NOV										
12...	1	1	8	20	19	5200	24	13	1300	<0.1
MAR										
18...	--	--	--	--	--	--	--	--	--	--
MAY										
28...	0.9	<1	<1	<3	6	4	2	27	240	<0.1
JUL										
30...	<0.5	<1	<1	<3	3	13	<5	24	180	0.1

DATE	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)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)
NOV									
12...	<10	30	<1	<1	240	<6	75	--	480
MAR									
18...	--	--	--	--	--	--	--	70	92
MAY									
28...	<10	7	<1	<1	390	<6	15	96	55
JUL									
30...	<10	1	<1	<1	440	<6	10	100	151

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^2, 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: Dec. 22 to Jan. 17. Records fair. Water-quality data collected at this site 1965-77, 1979-81. Sediment data collected 1970-74.

AVERAGE DISCHARGE.--21 years, 169 ft^3/s, 14.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,170 ft^3/s May 25, 1968, gage height, 27.39 ft; minimum, 0.27 ft^3/s Aug. 14, 15, 16, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 28	0130	*2,970	*18.12	No other peak greater than base discharge.			

Minimum discharge, 0.27 ft^3/s Aug. 1, 14, 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.3	242	30	86	307	66	49	10	43	3.2	.40
2	2.2	2.5	228	28	158	124	62	47	14	67	2.8	.45
3	2.5	8.7	164	27	265	148	58	42	17	58	2.7	.63
4	2.0	214	117	26	1220	184	56	37	.1	30	2.4	2.0
5	1.8	612	104	24	2130	217	55	35	5.8	15	1.2	2.1
6	1.7	458	117	23	1110	237	58	34	4.8	10	1.3	1.0
7	2.4	151	107	23	733	364	93	39	18	7.5	1.6	.93
8	2.1	99	92	22	531	220	68	49	15	7.1	1.5	1.6
9	1.6	71	82	21	315	200	58	56	7.4	6.8	1.6	2.5
10	1.4	54	73	21	225	202	56	38	5.1	5.8	1.1	2.6
11	1.1	48	85	20	184	283	53	29	3.4	11	1.4	3.2
12	.99	153	488	20	152	364	49	23	276	21	.80	6.8
13	1.0	307	538	19	171	639	46	21	182	8.2	.37	6.9
14	.97	146	687	19	215	895	44	26	59	10	.28	3.6
15	1.1	94	271	19	153	1140	43	39	37	8.5	.27	2.7
16	.90	263	179	18	154	603	43	41	23	6.0	.27	3.4
17	.98	1200	141	18	526	342	44	32	15	5.5	.60	2.9
18	.87	294	113	34	1490	241	44	23	10	9.2	.79	3.0
19	.70	142	94	50	644	528	41	40	6.2	9.8	.67	3.5
20	17	99	79	160	425	576	38	55	4.6	9.6	.80	3.7
21	98	76	71	262	308	263	113	42	4.1	7.9	.42	4.0
22	61	64	64	285	302	184	254	30	3.6	6.7	.36	5.0
23	23	58	58	493	220	154	142	24	28	5.2	.61	4.3
24	11	50	52	362	172	131	93	19	9.1	3.9	1.6	4.4
25	11	46	48	275	156	111	75	17	6.3	3.7	1.1	4.0
26	6.6	82	43	228	163	102	75	13	4.4	4.1	.67	3.5
27	3.6	2110	41	193	161	95	90	16	3.6	10	.65	25
28	1.9	2780	37	145	134	85	71	45	29	14	.69	68
29	1.3	1420	35	142	---	79	60	33	51	8.6	.69	35
30	1.2	435	33	112	---	74	52	21	36	5.9	.54	14
31	1.2	---	31	91	---	69	---	15	---	4.3	.42	---
TOTAL	264.71	11538.5	4514	3210	12523	8961	2100	1030	896.5	423.3	33.50	211.19
MEAN	8.54	385	146	104	447	289	70.0	33.2	29.9	13.7	1.08	7.37
MAX	98	2780	687	493	2130	1140	254	56	276	67	3.2	68
MIN	.70	1.3	31	18	86	69	38	13	3.4	3.7	.27	.40
CFSM	.05	2.47	.94	.67	2.87	1.85	.45	.21	.19	.09	.01	.05
IN.	.06	2.75	1.08	.77	2.99	2.14	.50	.25	.21	.10	.01	.05

CAL YR 1985 TOTAL 54749.51 MEAN 150 MAX 2780 MIN .68 CFSM .96 IN. 13.06
WTR YR 1986 TOTAL 45715.70 MEAN 125 MAX 2780 MIN .27 CFSM .80 IN. 10.90

7378

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^2.

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: Dec. 24-28 and Jan. 4-10. Records good except for estimated daily discharges, which are fair. Water-quality data collected at this site 1964 to 1977. Sediment data collected 1951 to 1953.

AVERAGE DISCHARGE.--54 years, 457 ft^3/s, 10.95 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft^3/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, 2.5 ft^3/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^3/s, computed by Franklin County Conservancy District, at site and datum used 1925-32.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 29	0130	4,160	9.41	Feb. 7	0900	*5,950	*11.61
Dec. 5	0530	4,410	9.74	Mar. 15	0700	4,820	10.26
Dec. 14	0500	4,910	10.28				

Minimum discharge 10 ft^3/s Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	[illegible]	133	194	368	242	245	197	217	47	22
2	17	16	1570	120	321	318	228	850	168	345	43	21
3	16	32	2890	114	867	312	215	3000	147	1040	38	21
4	14	63	2980	112	1800	311	206	1690	141	1180	34	45
5	12	72	4310	108	3320	367	197	1000	125	810	30	89
6	12	85	3070	101	5000	766	188	450	142	402	30	97
7	11	79	1360	130	5860	1160	183	250	330	265	34	100
8	11	74	850	115	5090	962	193	220	468	188	32	69
9	12	68	1160	100	3610	619	196	210	356	228	32	46
10	12	118	2060	89	2060	769	184	180	249	630	30	35
11	12	415	2290	86	1030	1900	172	150	193	755	31	33
12	12	283	3330	88	597	2580	160	115	162	1220	29	85
13	13	286	4470	99	453	3860	147	108	139	1360	29	63
14	21	270	4830	113	425	4410	135	120	121	1390	31	45
15	23	222	3740	105	331	4730	149	116	111	973	31	43
16	18	192	2070	96	278	3730	152	231	110	531	29	38
17	17	176	916	97	225	2070	155	932	145	415	28	31
18	16	172	505	268	512	1030	154	953	132	525	22	43
19	16	206	399	1120	1310	1590	144	782	107	416	22	92
20	15	264	327	1780	1970	2210	157	816	103	283	21	117
21	14	1140	304	1970	2540	2730	903	607	198	198	19	162
22	15	1460	261	1810	2480	1790	2120	415	262	152	17	125
23	16	1460	270	1160	2170	886	2640	343	227	126	17	91
24	21	958	213	808	1440	617	1670	299	162	97	15	76
25	25	604	200	566	948	497	829	259	119	83	13	1110
26	19	1810	188	491	791	429	538	226	91	79	14	1400
27	16	2940	178	405	651	383	414	251	76	74	28	1810
28	14	4120	167	296	492	342	337	390	182	70	29	2150
29	14	3960	152	330	---	307	294	355	403	65	20	2100
30	16	2560	159	284	---	285	263	281	309	57	22	1750
31	16	---	129	257	---	262	---	231	---	53	23	---
TOTAL	480	24321	47518	13371	46765	42610	13565	15985	5675	14227	837	11909
MEAN	15.5	811	1533	431	1670	1375	452	516	189	459	27.0	397
MAX	25	4120	4830	1970	5860	4730	2640	3000	468	1390	47	2150
MIN	11	16	129	86	194	262	135	108	76	53	13	21
CFSM	.03	1.43	2.70	.76	2.95	2.43	.80	.91	.33	.81	.05	.70
IN.	.03	1.60	3.12	.88	3.07	2.80	.89	1.05	.37	.93	.05	.78

CAL YR 1985 TOTAL 171732 MEAN 470 MAX 6000 MIN 11 CFSM .83 IN. 11.27
WTR YR 1986 TOTAL 237263 MEAN 650 MAX 5860 MIN 11 CFSM 1.15 IN. 15.57

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 Moore Run, and 1.2 mi north of Warrensburg.

DRAINAGE AREA.--83.2 mi^2.

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. 21 to Jan. 17, Jan. 26 to Feb. 1, 11-17, and Sept. 26-30. Records fair except for periods of estimated record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,220 ft^3/s Feb. 24, 1985, gage height 11.30 ft; minimum, no flow many days during 1982-1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 28	0815	1,070	10.00	Mar. 14	1330	1,400	*10.55
Dec. 13	0415	*1,410	10.54	July 1	2345	1,260	10.32
Feb. 6	0230	1,290	10.38	Sept. 27	0315	1,120	10.08

Minimum, no flow many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	143	18	29	41	21	20	38	103	.80	.00
2	.00	.00	78	17	56	40	20	17	22	628	.70	.00
3	.00	.01	56	16	137	33	18	16	14	428	.54	.00
4	.00	.23	41	15	465	38	18	15	12	167	.37	.00
5	.00	.38	36	15	1040	65	15	14	11	70	.23	.00
6	.00	.48	24	14	1110	192	15	14	66	36	.18	.00
7	.00	.70	20	14	744	192	15	16	430	22	.17	.00
8	.00	.82	20	13	390	98	15	17	403	14	.65	.00
9	.00	.89	12	13	155	64	14	17	132	11	.00	.00
10	.00	46	14	12	95	104	13	17	62	11	.00	1.7
11	.00	162	365	12	67	439	13	16	43	11	.00	2.2
12	.00	172	1070	12	45	399	12	15	32	76	.00	5.5
13	.00	206	1160	12	38	856	11	14	24	215	.00	4.9
14	.00	223	315	12	33	1270	11	14	18	76	.00	4.3
15	.00	165	168	12	28	416	11	13	15	37	.00	6.2
16	.00	255	92	12	25	160	11	15	12	23	.00	6.6
17	.00	280	68	19	24	100	12	142	9.2	16	.00	4.8
18	.00	167	83	37	63	76	12	86	7.0	12	.00	4.9
19	.00	101	105	171	224	390	11	53	6.4	12	.00	5.4
20	.00	66	62	382	240	519	14	52	6.4	8.5	.00	5.2
21	.00	46	40	186	212	144	121	50	5.1	5.8	.00	22
22	.00	35	35	109	272	82	264	38	4.7	4.3	.00	20
23	.00	25	32	103	128	65	111	32	4.7	3.6	.00	13
24	.00	17	29	85	96	54	63	27	5.2	3.8	.00	9.7
25	.01	14	27	65	56	45	46	26	5.3	3.1	.00	241
26	.01	233	25	51	79	40	35	24	5.3	2.3	.00	558
27	.01	838	23	45	63	37	29	42	5.3	1.9	.00	886
28	.00	977	22	39	47	31	25	52	5.7	1.6	.00	910
29	.00	685	20	35	---	28	23	50	5.7	1.3	.00	200
30	.00	273	19	32	---	25	22	42	5.6	.94	.00	44
31	.00	---	18	30	---	23	---	48	---	.80	.00	---
TOTAL	.03	4989.52	4222	1608	6001	6066	1021	1014	1415.6	2005.94	3.04	2955.50
MEAN	.00	166	136	51.9	214	196	34.0	32.7	47.2	64.7	.10	98.5
MAX	.01	977	1160	382	1110	1270	264	142	430	628	.80	910
MIN	.00	.00	12	12	24	23	11	13	4.7	.80	.00	.00
CFSM	.00	2.00	1.63	.62	2.57	2.36	.41	.39	.57	.78	.00	1.18
IN.	.00	2.23	1.89	.72	2.68	2.71	.46	.45	.63	.90	.00	1.32

CAL YR 1985	TOTAL	24870.23	MEAN	68.1	MAX	1930	MIN	.00	CFSM	.82	IN.	11.12
WTR YR 1986	TOTAL	31301.63	MEAN	85.8	MAX	1270	MIN	.00	CFSM	1.03	IN.	14.00

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^2.

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: Dec. 19 to Jan. 26, July 11 to Aug. 12. Records good except for period of estimated record, which are fair. Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--44 years, 154 ft^3/s, 11.75 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft^3/s Jan. 21, 1959, gage height, 13.85 ft, from rating curve extended above 14,000 ft^3/s; no flow Sept. 25, 26, 1944, Sept. 19, 1946.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 18.0 ft occurred in March 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 28	0930	*3,180	*7.12	Mar. 13	0715	2,940	6.89
Dec. 12	0515	2,870	6.82	July 2	1215	2,980	6.93
Feb. 5	0400	2,650	6.60				

Minimum daily discharge, 2.4 ft^3/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	3.3	268	22	44	67	52	43	86	49	9.5	7.2
2	2.5	3.5	198	22	145	61	48	39	47	2220	8.9	7.7
3	4.4	8.1	136	21	350	66	47	38	31	798	8.4	4.4
4	3.8	40	87	20	1560	99	43	33	24	186	7.9	8.3
5	3.5	29	70	19	2470	211	42	33	22	81	7.5	52
6	2.8	20	64	19	1290	615	42	34	152	42	7.2	16
7	3.1	15	57	18	1530	392	41	39	726	27	6.8	12
8	3.3	13	53	18	678	148	40	39	598	20	6.6	10
9	3.1	12	51	18	285	107	42	38	176	17	6.3	7.5
10	2.4	57	68	17	173	283	38	37	89	26	6.0	6.6
11	2.8	814	1390	17	74	1230	36	31	76	81	5.9	7.9
12	3.4	836	2710	17	48	600	32	32	53	230	5.8	44
13	3.5	1480	1340	17	67	2680	29	28	41	598	5.7	50
14	3.7	1310	356	17	74	2190	30	29	29	245	5.6	27
15	3.7	690	162	17	70	621	37	28	23	115	5.1	18
16	5.1	1160	130	17	57	308	37	30	20	53	5.8	12
17	5.0	1130	93	25	74	198	38	112	19	28	7.6	9.4
18	4.0	392	63	59	244	154	35	68	17	84	6.2	11
19	2.8	204	56	508	545	1270	33	52	15	76	4.6	32
20	3.5	138	50	990	492	963	41	55	16	61	13	63
21	4.6	93	45	325	610	266	453	53	18	40	11	51
22	7.8	71	41	261	427	158	491	38	14	31	7.7	28
23	5.4	56	38	219	245	127	196	33	43	26	5.4	19
24	5.8	46	35	134	208	107	114	29	45	21	4.5	20
25	12	39	33	103	229	91	82	27	27	18	5.6	1510
26	9.5	557	31	105	165	85	68	26	19	16	4.7	1480
27	5.5	2740	29	78	112	87	57	89	14	14	19	1940
28	4.2	2750	27	69	53	79	52	90	14	13	30	1160
29	3.3	1390	26	93	---	69	49	70	20	12	21	259
30	3.3	479	25	68	---	61	46	364	16	11	16	133
31	3.3	---	24	49	---	55	---	214	---	10	11	---
TOTAL	135.9	16575.9	7756	3382	12319	13448	2391	1871	2490	5249	276.3	7006.4
MEAN	4.38	553	250	109	440	434	79.7	60.4	83.0	169	8.91	234
MAX	12	2750	2710	990	2470	2680	491	364	726	2220	30	1940
MIN	2.4	3.3	24	17	44	55	29	26	14	10	4.5	4.4
CFSM	.02	3.11	1.40	.61	2.47	2.44	.45	.34	.47	.95	.05	1.31
IN.	.03	3.46	1.62	.71	2.57	2.81	.50	.39	.52	1.10	.06	1.46

CAL YR 1985	TOTAL	59988.7	MEAN	164	MAX	4140	MIN	1.9	CFSM	.92	IN.	12.54
WTR YR 1986	TOTAL	72900.5	MEAN	200	MAX	2750	MIN	2.4	CFSM	1.12	IN.	15.24

BEST COPY AVAILABLE

03221000 SCIOTO RIVER BELOW O'SHAUGHNESSY DAM, NEAR DUBLIN, OH

LOCATION.--Lat 40°08'36", long 93°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^2.

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.--Estimated daily discharges: Dec. 23-26 and Jan. 9-17. Records good except for periods of estimated record, which are fair. 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.--65 years, 792 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft^3/s Jan. 22, 1959, gage height, 22.04 ft, from flood-mark; minimum daily, 0.4 ft^3/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 /s at Griggs Dam, 9 mi downstream from gage, computed by C.F. Sherman, Ohio State University.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,500 ft^3/s Mar. 13, gage height, 10.51 ft; minimum daily, 8.3 ft^3/s Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	161	3540	198	378	651	410	374	448	357	148	98
2	26	158	2440	193	531	555	370	339	337	3110	146	9.1
3	25	153	1510	194	1280	537	338	318	246	2470	142	8.5
4	24	148	1010	200	4250	572	326	321	224	1680	137	18
5	22	152	729	199	8200	761	311	297	218	1250	135	8.8
6	22	147	588	176	8370	1610	307	275	446	720	133	8.3
7	57	146	495	183	9550	2100	290	276	1500	454	131	8.7
8	186	144	443	169	7160	1570	294	268	1910	323	126	8.9
9	232	145	406	165	4670	1090	295	242	1020	294	120	8.9
10	180	168	409	160	2930	1080	280	239	615	412	120	8.9
11	109	250	2850	155	1650	3680	266	232	471	804	119	11
12	110	1640	8280	150	1010	4020	254	221	375	2010	119	11
13	113	2660	7690	148	670	9180	237	197	299	2120	119	8.9
14	119	3050	5830	150	589	9550	218	186	250	1690	68	9.1
15	70	2310	4370	150	551	6600	241	184	221	1330	22	42
16	12	2740	2940	150	492	4820	249	184	211	834	22	91
17	14	3640	1600	160	470	3110	265	644	206	572	22	86
18	14	2490	864	160	727	1820	234	1220	197	532	22	55
19	14	1860	558	1020	1970	3360	234	962	197	547	21	11
20	16	1230	521	3480	2900	4510	256	944	194	418	20	15
21	17	839	446	2900	3640	3440	910	885	184	307	66	15
22	18	688	389	2[illegible]0	3730	2650	2720	632	190	239	106	27
23	19	562	340	1970	2970	1590	3090	497	243	211	106	95
24	20	455	290	1370	2250	1060	2330	416	282	201	106	141
25	19	381	255	1010	1660	850	1360	365	222	195	106	1920
26	17	985	247	850	1320	731	863	338	201	183	107	4190
27	18	6080	257	756	1090	658	650	389	195	173	57	5120
28	16	7400	253	534	834	580	528	555	191	167	9.0	4220
29	16	5760	233	422	---	521	465	592	194	162	45	2650
30	72	4360	217	454	---	478	404	680	328	156	103	2150
31	149	---	209	414	---	436	---	681	---	150	103	---
TOTAL	1773	50882	50209	20880	75842	74170	18995	13953	11815	24071	2806.0	21056.1
MEAN	57.2	1696	1620	674	2709	2393	633	450	394	776	90.5	702
MAX	232	7400	8280	3480	9550	9550	3090	1220	1910	3110	148	5120
MIN	12	144	209	148	378	436	218	184	184	150	9.0	8.3

CAL YR 1985 TOTAL 287318 MEAN 787 MAX 12500 MIN 12
WTR YR 1986 TOTAL 366452.1 MEAN 1004 MAX 9550 MIN 8.3

7378

03225500 OLENTANGY RIVER NEAR DELAWARE, OH

LOCATION.--Lat 40°21'16", 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^2.

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 878.00 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 1.72 ft lower. Oct. 1, 1950 to Sept. 30, 1985, at datum 78.42 ft lower.

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.--59 years, 355 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft^3/s Mar. 21, 1927, gage-height, 16.9 ft, site and datum then in use; minimum daily, 0.1 ft^3/s Sept. 14-29, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,460 ft^3/s Feb. 8, gage height, 8.54 ft; minimum daily, 1.0 ft^3/s Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	47	750	67	117	120	77	476	75	418	39	35
2	20	47	3150	89	129	120	23	94	74	416	40	25
3	20	49	4160	99	232	267	23	76	56	1270	40	19
4	30	170	3500	99	1290	339	23	76	31	637	40	19
5	38	442	2390	99	1810	265	239	76	21	286	40	19
6	38	467	176	113	3310	538	235	78	90	286	40	19
7	38	580	67	120	1590	728	23	78	656	178	40	19
8	38	490	67	104	2440	417	23	78	954	75	40	19
9	38	356	153	97	4390	261	22	78	492	195	40	19
10	38	376	240	76	4320	529	21	78	180	538	40	19
11	38	658	1200	67	3940	1690	21	77	124	408	41	19
12	38	1240	1060	67	2180	2300	21	41	78	1150	40	20
13	38	1980	3090	89	303	1210	22	21	68	1670	40	20
14	38	1470	3860	99	301	1270	11	42	49	1640	49	19
15	38	2870	3820	99	297	3330	1.0	52	49	1320	42	19
16	38	1550	2620	78	142	3230	2.1	52	48	513	33	19
17	38	848	1110	70	71	2990	2.2	52	59	219	33	19
18	37	2200	212	75	447	1890	2.1	52	74	132	33	19
19	38	3370	157	107	1020	1860	2.1	150	74	132	38	20
20	40	3080	261	100	1550	2690	4.0	192	98	132	38	22
21	40	547	301	1250	1480	1150	10	250	110	132	38	21
22	40	386	297	2410	1490	519	95	275	110	76	36	20
23	41	274	192	2550	1200	346	471	173	718	49	35	20
24	47	372	104	1810	490	352	429	126	598	49	34	20
25	47	234	120	1070	576	305	237	85	140	42	34	1020
26	47	242	117	823	485	265	137	49	64	39	34	895
27	46	158	119	299	407	264	135	52	49	39	35	817
28	46	98	118	212	231	215	197	104	464	38	35	729
29	47	66	117	256	---	195	225	129	1710	38	34	1580
30	47	54	117	255	---	195	170	103	1190	38	34	1570
31	47	---	83	156	---	194	---	76	---	38	34	---
TOTAL	1195	24841	34078	12908	36238	30044	2903.5	3341	8503	12193	1169	7100
MEAN	38.5	828	1099	416	1294	969	96.8	108	283	393	37.7	237
MAX	47	3370	4160	2550	4390	3330	471	476	1710	1670	49	1580
MIN	20	47	67	67	71	120	1.0	21	21	38	33	19

CAL YR 1985 TOTAL 150698 MEAN 413 MAX 4480 MIN 20
WTR YR 1986 TOTAL 174513.5 MEAN 478 MAX 4390 MIN 1.0

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^2.

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: Dec. 20-25. Records good except for estimated daily discharges, 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.--66 years, 1,398 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,200 ft^3/s Jan. 22, 1959, gage height, 27.22 ft, from high-water mark in well, from rating curve extended above 46,000 ft^3/s; minimum daily, 47 ft^3/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^3/s, estimated by Franklin County Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,200 ft^3/s Feb. 7, gage height, 18.09 ft; minimum daily, 147 ft^3/s Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	178	4150	455	737	1170	794	667	713	1360	246	153
2	192	239	4740	411	947	957	703	922	705	4110	243	176
3	174	1270	5660	420	1480	932	558	508	445	3960	225	174
4	164	782	5080	443	5660	1160	527	465	374	3260	225	700
5	158	635	4190	444	10800	1350	499	460	333	1990	219	562
6	148	820	1820	426	11700	1960	723	426	1220	1390	217	208
7	158	923	931	416	14200	3140	749	518	2560	975	232	185
8	156	996	779	407	9490	2730	495	426	3130	672	227	203
9	153	1030	728	395	9740	1890	492	392	2370	1480	213	202
10	155	2550	950	418	7960	1580	459	363	1750	835	325	208
11	159	3370	4090	392	6230	3920	431	347	3120	1980	314	281
12	147	2950	10700	368	4590	6450	409	336	1170	3160	240	1700
13	159	6410	10800	356	1940	12400	390	355	689	4050	224	298
14	238	5590	9920	361	1180	11200	368	304	543	3510	216	197
15	311	5230	8820	376	1140	10600	525	298	434	3110	203	177
16	201	8330	6420	392	1060	8800	427	420	394	2180	197	176
17	159	5350	3790	443	1110	6820	412	361	372	1270	179	169
18	156	4490	1670	480	1190	4840	382	1210	335	878	180	174
19	158	4960	952	1090	2590	4790	364	1400	353	796	171	182
20	327	4890	840	4190	4210	7740	457	1140	524	721	167	186
21	257	2720	760	3510	5280	5730	682	1220	391	586	166	176
22	185	1510	680	4750	5560	3870	2260	1090	364	486	168	173
23	178	1260	640	4590	4750	2740	3130	954	456	407	161	172
24	271	1110	600	3780	3670	1820	3190	720	1230	323	162	194
25	275	1060	560	2560	2620	1570	2190	586	751	312	160	376
26	195	2100	520	2200	2410	1320	1530	574	427	321	166	4920
27	178	8760	526	1760	1990	1310	1010	976	337	290	552	6260
28	171	10500	560	944	1630	1110	844	692	796	271	238	6340
29	173	7410	515	844	---	989	833	794	1210	273	179	4020
30	183	5170	484	905	---	900	756	854	2190	256	162	4210
31	183	---	486	874	---	855	---	969	---	250	155	---
TOTAL	6058	102693	93361	39400	125864	116643	26589	20747	29686	45462	6732	33153
MEAN	195	3423	3012	1271	4495	3763	886	669	990	1467	217	1105
MAX	336	10500	10800	4750	14200	12400	3190	1400	3130	4110	552	6340
MIN	147	178	484	356	737	855	364	298	333	250	155	153

CAL YR 1985 TOTAL 543412 MEAN 1489 MAX 16200 MIN 147
WTR YR 1986 TOTAL 646388 MEAN 1771 MAX 14200 MIN 147

7378

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^2.

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.--Estimated daily discharges: Dec. 18-27. Records good except for periods of estimated record, which are fair. Flow completely regulated by Hoover Reservoir since September 1954. (See station 03228400). Water-quality data collected at this site 1965 to 1977.

AVERAGE DISCHARGE.--48 years, 188 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,800 ft^3/s Jan. 21, 1959, gage height, 19.75 ft, from rating curve extended above 7,200 ft^3/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, 2,430 ft^3/s Mar. 13, gage height, 8.44 ft; minimum daily, 105 ft^3/s Nov. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	113	129	120	135	244	174	144	134	119	169	139
2	114	120	130	120	266	190	153	129	133	162	165	139
3	110	107	128	120	373	171	146	121	123	148	175	142
4	119	115	128	120	177	166	144	133	131	113	166	167
5	110	110	128	120	615	170	149	134	136	117	168	183
6	108	118	128	120	947	197	151	160	167	135	161	137
7	120	124	128	119	1540	265	156	134	201	154	147	117
8	113	105	128	119	1400	196	135	141	207	176	158	119
9	111	113	130	119	1070	171	116	145	205	159	168	128
10	130	132	126	119	953	179	116	170	150	138	162	115
11	111	114	138	119	163	240	115	159	158	169	129	118
12	117	116	766	119	158	162	123	175	186	175	146	159
13	112	127	1030	119	158	1400	121	130	184	133	147	113
14	121	119	473	119	158	1510	113	131	163	121	158	113
15	106	117	331	119	158	810	113	154	163	113	164	123
16	129	117	281	119	157	643	113	145	163	131	159	116
17	123	124	258	120	164	557	112	151	161	137	153	116
18	116	123	230	120	161	371	115	138	161	137	159	116
19	113	122	210	129	162	428	125	142	136	145	166	115
20	115	112	190	417	322	477	127	134	115	149	166	114
21	121	110	180	710	596	307	127	139	123	146	166	114
22	119	118	160	621	532	274	127	128	136	145	168	121
23	112	108	150	477	438	270	127	131	121	155	167	109
24	110	131	140	309	494	274	127	130	112	155	166	127
25	120	120	130	226	529	257	127	130	143	173	180	112
26	118	144	130	198	521	254	135	122	142	161	162	157
27	122	112	120	180	592	272	126	113	143	151	166	166
28	108	120	116	143	474	255	127	140	145	173	116	186
29	115	120	119	135	---	258	128	139	115	146	117	150
30	116	128	120	133	---	249	128	140	115	159	134	116
31	110	---	120	133	---	220	---	136	---	175	130	---
TOTAL	3592	3559	6675	5961	13413	11437	3896	4318	4472	4570	4858	3953
MEAN	116	119	215	192	479	369	130	139	149	147	157	132
MAX	130	144	1030	710	1540	1510	174	175	207	176	180	186
MIN	106	105	116	119	135	162	112	113	112	113	116	109

CAL YR 1985	TOTAL	55589	MEAN	152	MAX	1230	MIN	91
WTR YR 1986	TOTAL	70704	MEAN	194	MAX	1540	MIN	105

7378

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^2.

PERIOD OF RECORD.--Water year 1962 (occasional low-flow measurements) June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 822.00 ft above National Geodetic Vertical Datum of 1929. (levels by U.S. Army Corps of Engineers). July 9, 1974 to Sept. 30, 1985, at datum 22.00 ft lower. Oct. 17, 1973 to July 9, 1974 nonrecording gage at bridge 400 ft downstream at datum 22.00 ft lower. Prior to Oct. 17, 1973 water-stage recorder 600 ft downstream at datum 4.63 ft lower.

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^3/s, 13 years (water years 1974-86), 109 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,160 ft^3/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^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,010 ft^3/s Nov. 19, gage height, 5.40 ft; minimum daily, 2.7 ft^3/s May 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	69	287	29	49	81	14	8.2	3.7	[illegible]	5.5	5.9
2	11	67	1310	29	48	84	9.3	8.1	4.0	5.7	5.5	5.8
3	35	67	1550	29	188	58	8.9	8.0	3.4	4.5	5.5	5.8
4	61	67	1520	29	410	46	10	8.3	3.2	25	5.5	7.3
5	77	78	1080	29	245	62	12	8.4	3.1	72	5.5	6.1
6	77	88	267	29	454	77	11	6.1	8.7	101	5.5	6.2
7	77	88	90	29	379	122	11	4.1	5.8	101	5.5	6.2
8	75	88	89	29	619	152	11	3.9	4.9	101	5.5	6.6
9	75	88	60	29	1340	152	12	3.5	4.9	56	5.5	6.6
10	75	91	48	28	1310	154	12	3.5	4.0	148	5.8	7.5
11	75	123	399	28	1250	497	12	3.4	4.6	332	6.1	8.6
12	75	335	250	26	937	732	12	4.0	5.5	580	5.9	9.6
13	75	574	737	26	303	401	12	4.4	5.9	661	5.8	8.9
14	75	521	865	25	93	264	7.8	4.4	5.9	338	5.7	8.8
15	75	986	945	25	62	610	5.1	4.2	6.2	74	5.1	25
16	75	584	723	25	62	609	6.9	4.3	4.4	20	5.0	33
17	75	373	226	25	62	489	6.9	3.8	5.4	20	5.0	48
18	75	958	86	25	121	283	6.9	3.6	5.9	20	5.4	61
19	75	1800	67	28	98	299	6.9	3.5	5.2	19	5.5	126
20	75	1880	43	27	117	300	7.2	3.1	4.9	18	5.3	149
21	75	1410	42	447	244	302	8.7	2.7	5.1	18	5.0	121
22	75	403	42	735	302	298	9.3	3.0	6.7	10	4.9	37
23	76	90	42	728	302	294	9.3	3.4	6.2	5.7	4.7	37
24	77	90	42	310	404	296	9.3	3.3	5.5	5.5	5.3	62
25	77	90	42	45	202	294	9.4	3.4	5.5	5.5	5.5	531
26	77	96	36	45	86	294	10	3.4	5.1	5.9	5.4	899
27	77	58	29	73	85	294	9.5	3.9	4.9	5.7	6.5	896
28	77	30	29	84	84	178	9.0	3.7	4.9	5.7	6.1	889
29	82	27	29	84	---	86	9.0	3.7	4.7	4.5	5.6	789
30	82	27	29	84	---	86	8.5	3.8	5.1	4.3	5.5	251
31	78	---	29	70	---	55	---	3.5	---	5.4	5.6	---
TOTAL	2178	11246	11053	3256	9856	7952	286.9	138.6	153.3	2778.5	170.2	5053.9
MEAN	70.3	375	357	105	352	257	9.56	4.47	5.11	89.6	5.49	168
MAX	82	1880	1550	735	1340	732	14	8.4	8.7	661	6.5	899
MIN	11	27	29	25	48	46	5.1	2.7	3.1	4.3	4.7	5.8

CAL YR 1985	TOTAL	44476.4	MEAN	122	MAX	1880	MIN	9.0
WTR YR 1986	TOTAL	54122.4	MEAN	148	MAX	1880	MIN	2.7

7378

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^2.

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: Dec. 19 to Jan. 17 and May 22 to June 9. Records fair. 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.--60 years, 173 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft^3/s Jan. 22, 1959, gage height, 19.59 ft (from high-water mark in well), from rating curve extended above 17,000 ft^3/s on basis of contracted-opening measurement of peak flow; no flow Sept. 21-29, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,400 ft^3/s June 10, gage height, 7.45 ft; minimum daily, 6.0 ft^3/s Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	79	98	40	84	105	60	40	21	84	7.0	12
2	30	95	944	40	137	105	44	38	22	457	6.7	12
3	16	436	1630	40	158	105	35	35	21	59	6.7	11
4	29	210	1640	40	1290	94	30	34	20	29	6.5	475
5	67	119	1510	39	677	100	30	34	18	55	6.0	60
6	81	107	516	39	422	170	42	38	33	122	7.0	24
7	81	132	119	38	1270	144	51	63	23	132	9.9	19
8	79	117	112	37	277	166	40	34	21	133	9.9	17
9	76	216	104	37	1500	163	42	29	35	782	9.0	16
10	76	1030	118	35	1450	189	44	26	396	138	43	17
11	79	844	716	34	1390	352	45	24	385	618	40	60
12	79	286	744	34	1250	807	40	22	100	1150	18	272
13	76	1260	747	33	481	1860	39	25	44	873	13	39
14	103	772	828	32	159	247	40	22	32	655	12	23
15	121	1070	988	31	94	645	91	34	24	217	11	21
16	86	2300	940	31	91	606	49	68	23	65	9.0	44
17	77	326	354	38	190	569	45	35	23	46	15	54
18	78	754	114	77	233	293	42	30	19	36	17	88
19	81	1600	86	217	244	565	38	79	20	33	11	121
20	154	1880	70	286	139	336	82	32	41	30	9.7	206
21	110	1840	64	253	307	294	92	23	23	27	8.5	207
22	79	659	62	802	345	281	68	22	17	27	8.5	104
23	73	127	62	735	317	276	53	23	46	22	7.3	59
24	133	110	62	559	362	271	47	25	23	13	14	86
25	104	119	58	102	346	267	43	24	17	12	12	340
26	80	735	50	104	118	269	96	23	15	17	11	1170
27	76	857	45	85	123	304	55	25	15	16	187	1750
28	78	701	43	131	110	249	46	23	164	12	28	1200
29	79	210	43	104	---	104	47	22	39	8.8	16	1020
30	85	117	41	101	---	99	43	21	65	8.2	13	599
31	87	---	41	99	---	98	---	20	---	7.3	12	---
TOTAL	2544	19108	12949	4273	13544	10133	1517	993	1745	5884.3	584.7	8096
MEAN	82.1	637	418	138	484	327	50.6	32.0	58.2	190	18.9	270
MAX	154	2300	1640	802	1500	1860	96	79	396	1150	187	1750
MIN	16	79	41	31	84	94	30	20	15	7.3	6.0	11

CAL YR 1985	TOTAL	72820.4	MEAN	200	MAX	2300	MIN	8.4
WTR YR 1986	TOTAL	81371.0	MEAN	223	MAX	2300	MIN	6.0

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^2.

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: Dec. 19 to Jan. 19. Record good except for estimated daily discharges, 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.--62 years, 522 ft^3/s (adjusted for diversion).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,800 ft^3/s Jan. 22, 1959, gage height, 22.03 ft (from high-water mark in well), from rating curve extended above 13,000 ft^3/s on basis of contracted-opening measurement of peak flow; minimum, 5 ft^3/s Sept. 4, 5, 10-12, 1925; minimum daily since 1956, 9.4 ft^3/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, 6,670 ft^3/s Nov. 11, gage height, 10.53 ft; minimum daily, 41 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	103	472	98	719	468	268	101	64	234	46	56
2	88	129	1150	98	566	370	203	113	141	969	77	52
3	56	773	1750	98	751	342	178	83	87	340	63	47
4	51	479	1720	98	2090	349	162	81	68	187	53	411
5	92	286	1690	96	1660	384	152	75	69	132	53	437
6	112	207	955	96	1220	558	168	72	475	171	43	150
7	111	210	359	96	2340	562	193	110	1320	184	42	85
8	109	238	314	96	1620	497	174	113	457	190	61	65
9	105	420	302	94	1850	417	153	78	267	1160	46	59
10	106	1910	340	94	1770	448	128	67	200	563	67	50
11	107	4660	1340	92	1180	909	122	69	2260	670	166	51
12	110	1340	2480	92	1220	1160	116	69	786	2240	85	691
13	108	2190	2200	92	966	4240	106	62	335	1180	70	176
14	149	1630	1390	92	414	3040	111	78	228	893	61	91
15	159	1450	356	92	312	1860	185	73	172	355	59	64
16	127	4780	240	94	271	1500	136	138	161	205	48	57
17	114	1900	156	100	514	1370	115	124	139	143	57	72
18	109	1270	145	110	1080	919	110	95	135	121	69	91
19	110	1690	140	300	821	1470	99	175	121	103	55	121
20	264	1910	130	1420	562	1130	138	141	136	94	49	185
21	240	1860	120	1060	1140	846	274	91	102	86	42	196
22	127	1080	120	902	1240	70[illegible]	179	88	75	87	48	161
23	110	374	110	1050	978	661	152	83	98	79	44	82
24	188	272	110	857	920	641	129	84	93	64	41	107
25	218	306	110	700	1080	611	119	68	68	54	58	196
26	126	1480	110	649	710	592	214	67	62	55	67	897
27	108	4120	100	339	720	687	135	374	70	82	345	1630
28	105	3040	100	347	724	617	120	174	329	73	151	1530
29	107	1200	100	378	---	410	106	104	202	61	82	1120
30	112	631	100	552	---	367	99	97	186	60	52	807
31	111	---	98	499	---	353	---	101	---	51	42	---
TOTAL	3931	41928	18810	10781	29438	28485	4544	3248	8926	10886	2242	9737
MEAN	127	1398	607	348	1051	919	151	105	298	351	72.3	325
MAX	264	4780	2480	1420	2340	4240	274	374	2260	2240	345	1630
MIN	51	103	98	92	271	342	99	62	62	51	41	47

CAL YR 1985 TOTAL 150839 MEAN 413 MAX 5180 MIN 36
WTR YR 1986 TOTAL 172966 MEAN 474 MAX 4780 MIN 41

7378

03230500 BIG DARBY CREEK AT DARBYVILLE, OH

LOCATION.--Lat 39°42'02", long 83°06'3 ", 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^2.

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: 1929-31(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: Dec. 11-17, Feb. 20-28 and Dec. 17 to Jan. 17. 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.--62 years, 455 ft^3/s, 11.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,000 ft^3/s Jan. 22, 1959, gage height, 17.94 ft from rating curve extended above 22,000 ft^3/s on basis of contracted-opening measurement of peak flow; minimum observed, 1.4 ft^3/s Sept. 17, 1932.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 4,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 28	2130	*6,810	*10.82	Mar. 14	2030	5,680	10.02
Feb. 6	0300	4,820	9.14				

Minimum discharge, 28 ft^3/s Oct. 6, 7, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	48	1760	210	299	464	340	215	253	208	86	53
2	34	50	1350	200	364	437	321	207	218	480	82	45
3	34	133	989	190	591	448	302	194	182	2270	77	42
4	34	216	749	190	2100	493	290	179	153	1210	74	43
5	31	149	622	190	4200	583	276	171	138	626	69	57
6	29	124	563	180	4100	803	266	170	134	435	65	63
7	28	125	490	180	3590	1120	273	177	966	332	64	49
8	29	124	439	180	3430	765	276	171	1140	271	60	71
9	30	118	422	180	1740	619	264	160	668	239	59	61
10	29	727	422	180	1130	597	244	151	467	373	63	50
11	29	3480	1200	170	853	1160	229	140	1590	328	64	46
12	29	2650	3200	170	684	1770	221	134	1240	1120	60	75
13	30	2540	2000	170	572	2960	209	130	837	2810	56	70
14	31	3180	1300	170	513	5360	197	127	591	2060	57	82
15	30	3060	920	170	489	3440	206	124	452	877	54	128
16	30	3890	800	170	426	1750	210	126	355	620	50	98
17	34	4070	640	170	458	1180	207	124	288	537	50	73
18	36	2780	540	215	829	927	195	123	234	485	53	59
19	35	1600	450	354	1300	1290	184	134	198	390	47	52
20	45	1170	410	1210	1500	2580	187	133	182	314	44	50
21	49	860	370	1090	1200	1290	237	129	172	254	42	90
22	50	701	340	842	1100	844	608	132	163	209	41	123
23	46	598	320	827	960	716	522	127	148	176	40	102
24	47	505	300	706	840	626	411	120	139	153	39	84
25	55	448	280	588	740	556	328	113	129	137	38	75
26	59	913	270	578	640	513	293	162	120	128	35	826
27	56	3800	250	546	560	485	271	427	110	120	48	1170
28	55	5990	240	422	500	455	249	392	218	114	55	1570
29	54	5390	230	406	---	432	239	358	181	107	49	760
30	55	2900	220	393	---	403	229	289	190	95	55	369
31	50	---	220	329	---	373	---	263	---	92	54	---
TOTAL	1217	52339	22306	11578	357[illegible]	35439	8284	5602	11856	17574	1730	6436
MEAN	39.3	1745	720	373	1275	1143	276	181	395	567	55.8	215
MAX	59	5990	3200	1210	4200	5360	608	427	1590	2810	86	1570
MIN	28	48	220	170	299	373	184	113	110	92	35	42
CFSM	.07	3.27	1.35	.70	2.39	2.14	.52	.34	.74	1.06	.10	.40
IN.	.08	3.65	1.55	.81	2.49	2.47	.58	.39	.83	1.22	.12	.45

CAL YR 1985	TOTAL	195554	MEAN	536	MAX	7050	MIN	27	CFSM	1.00	IN.	13.62
WTR YR 1986	TOTAL	210069	MEAN	576	MAX	5990	MIN	28	CFSM	1.08	IN.	14.63

7378

03230900 DEER CREEK NEAR PANCOASTBURG, OH

LOCATION.--Lat 39°37'14", long 83°12'47", Pickaway County, Hydrologic Unit 05060002, on left bank 250 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^2.

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 [illegible]. Oct. 21, 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.--20 years 265 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft^3/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, 2,270 ft^3/s Dec. 4, gage height, 6.29 ft; minimum daily, 9.5 ft^3/s Apr. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	166	28	141	182	290	33	12	12	13	18	12
2	84	166	873	140	182	289	16	12	12	13	18	12
3	82	166	1970	140	258	140	16	12	12	13	18	12
4	82	226	2230	140	613	133	17	12	12	13	18	12
5	82	264	2190	139	1160	366	17	12	12	17	16	12
6	82	264	2170	140	1380	519	18	12	12	56	13	12
7	70	191	2160	107	1200	557	17	11	12	118	13	12
8	52	155	2140	62	1380	482	13	11	11	143	13	12
9	50	228	2170	39	1900	478	14	12	11	168	13	12
10	52	259	1590	62	1860	248	14	13	11	132	14	12
11	55	503	929	73	1340	312	14	12	11	69	13	12
12	55	661	1210	73	373	432	15	12	11	188	13	12
13	53	675	1350	92	235	738	15	12	11	371	13	12
14	54	976	1070	101	205	89	14	12	11	527	13	12
15	54	1530	754	101	223	1210	11	12	11	306	13	12
16	120	683	581	100	223	1800	11	12	12	175	13	12
17	174	287	347	80	223	1700	11	12	12	138	13	12
18	123	1000	251	72	470	1150	11	12	12	125	13	12
19	82	1570	135	72	927	478	12	12	12	89	14	12
20	82	1780	216	72	880	722	11	12	12	54	13	12
21	146	1830	268	247	605	646	10	12	12	55	13	11
22	172	1810	267	552	541	430	10	12	12	31	13	11
23	171	1790	174	621	536	425	10	12	12	19	13	11
24	171	1800	170	444	485	222	9.9	11	12	20	13	11
25	171	1790	188	363	376	214	11	11	12	20	13	11
26	170	1450	113	362	355	216	12	11	12	20	13	12
27	169	642	64	306	352	214	11	12	12	20	13	12
28	168	381	64	194	330	181	11	12	13	20	13	12
29	168	29	64	167	---	138	9.5	12	13	19	13	12
30	168	28	110	201	---	140	11	11	13	19	13	12
31	167	---	140	193	---	110	---	12	---	19	13	---
TOTAL	3386	23300	25995	5596	18794	15069	405.4	367	355	2990	428	355
MEAN	109	777	839	181	671	486	13.5	11.8	11.8	96.5	13.8	11.8
MAX	174	1830	2230	621	1900	1800	33	13	13	527	18	12
MIN	50	28	28	39	182	89	9.5	11	11	13	13	11

CAL YR 1985	TOTAL	167311	MEAN	294	MAX	2230	MIN	11
WTR YR 1986	TOTAL	97040.4	MEAN	266	MAX	2230	MIN	9.5

7378

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^2.

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.--No estimated daily discharges. Records good. 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.--51 years (1926-35, 1938-56, 1962-86), 302 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,600 ft^3/s Jan. 22, 1959, gage height, 17.6 ft (from flood-marks), from rating curve extended above 25,000 ft^3/s on basis of contracted-opening measurement of peak flow; minimum daily, 1.8 ft^3/s July 25, 1934, Oct. 1-4, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,040 ft^3/s Nov. 16, gage height, 9.75 ft; minimum daily, 7.5 ft^3/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	183	188	161	216	351	90	17	28	35	18	11
2	89	190	765	161	224	347	45	17	23	39	16	11
3	90	199	2280	161	296	254	41	15	20	32	18	11
4	91	237	2650	161	1310	199	40	14	19	22	17	13
5	91	305	2680	161	1660	464	40	15	19	19	16	12
6	91	305	2610	161	1820	653	43	15	19	22	12	11
7	89	251	2600	146	2120	749	43	15	21	119	12	11
8	62	183	2600	122	1590	602	35	16	19	152	13	11
9	60	178	2600	83	2450	593	33	14	16	197	13	11
10	61	248	2240	78	2320	413	31	15	13	186	19	11
11	64	967	1410	90	1940	403	30	18	15	87	18	11
12	61	977	1800	90	519	581	28	19	20	157	15	16
13	60	990	1850	101	335	1570	25	19	14	389	14	11
14	59	1180	1470	115	246	444	24	21	14	642	14	9.1
15	59	1860	1010	115	271	1340	26	22	13	459	14	8.9
16	97	2760	780	115	271	2330	22	22	14	231	13	8.7
17	188	684	492	108	404	2190	19	22	13	198	17	8.1
18	160	1280	330	97	717	1730	17	15	13	163	14	9.0
19	91	1900	256	103	1200	666	15	14	13	137	13	9.6
20	99	2150	321	126	1230	870	18	17	15	68	12	9.0
21	129	2250	438	236	887	865	25	17	14	62	12	8.6
22	181	2210	449	626	745	549	24	16	13	55	12	8.1
23	181	2200	262	785	700	536	19	14	11	22	12	7.5
24	185	2180	198	606	654	362	17	14	11	22	13	8.0
25	183	2170	218	453	505	249	17	14	11	20	13	8.4
26	183	2290	190	456	457	264	18	17	10	19	13	10
27	183	1580	116	422	449	261	18	192	10	19	19	19
28	183	1920	100	575	417	240	18	90	17	19	14	12
29	183	399	100	528	---	181	19	58	34	19	13	10
30	183	240	124	392	---	179	15	43	27	19	13	11
31	183	---	161	247	---	166	---	33	---	18	12	---
TOTAL	3653	34466	33288	7751	25953	20601	855	850	499	3648	446	316.0
MEAN	118	1149	1074	251	927	665	28.5	27.4	16.6	118	14.4	10.5
MAX	188	2760	2680	785	2450	2330	90	192	34	642	19	19
MIN	34	178	100	78	216	166	15	14	10	18	12	7.5

CAL YR 1985 TOTAL 144687.3 MEAN 396 MAX 2760 MIN 8.4
WTR YR 1986 TOTAL 132356.0 MEAN 363 MAX 2760 MIN 7.5

BEST COPY AVAILABLE

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^2.

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.--No estimated daily discharges. Records good. Flow regulated by 6 reservoirs 36 mi to 91 mi upstream from station.

AVERAGE DISCHARGE.--56 years, 3,454 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 144,000 ft^3/s Jan. 23, 1959, gage height, 32.5 ft, (from high-water mark in well); minimum daily, 166 ft^3/s Sept. 27, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913 reached a stage of 39.8 ft, discharge, 160,000 ft^3/s (estimated by Franklin County Conservancy District).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,200 ft^3/s Nov. 29, gage height, 13.04 ft; minimum daily, 424 ft^3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424	662	14300	1920	2570	4430	2700	1760	1900	3390	813	551
2	612	675	9550	1840	2570	3650	2470	1680	1640	2920	786	514
3	638	647	11500	1780	3900	3360	2220	1650	1610	7060	812	540
4	519	3070	12500	1800	8810	3350	2010	1430	1270	7210	797	593
5	470	2750	11800	1800	17100	4080	1900	1340	1110	5030	79	1450
6	447	2300	10500	1790	21300	4600	1820	1340	1050	3270	713	1550
7	473	2240	7130	1720	23200	6260	2070	1330	2860	2510	694	842
8	481	2150	5690	1560	23300	6940	2080	1420	5880	2120	683	649
9	473	2200	5330	1470	24300	5800	1800	1310	5760	1810	686	578
10	466	3060	5220	1500	19300	4810	1730	1100	3880	3750	678	561
11	466	11900	5050	1490	16400	5480	1620	1140	4600	2640	761	547
12	470	18100	14000	1460	12100	9810	1540	1090	7570	4720	937	636
13	477	15300	20100	1440	8550	13700	1470	1044	4400	9370	781	1770
14	472	15100	20900	1440	4920	18900	1410	1080	2800	9560	691	943
15	521	15600	17700	1400	3900	23600	1410	1040	2090	7580	677	717
16	611	20700	14700	1390	3560	22700	1650	997	1700	5440	652	656
17	668	25200	11300	1420	3780	17500	1500	1170	1490	3900	700	603
18	551	24200	7340	1530	6660	13500	1420	1140	1340	2760	636	570
19	543	16300	4410	1840	7370	9740	1360	1970	1230	2230	617	587
20	619	12900	3600	5200	8630	11100	1340	2200	1200	1950	601	617
21	793	12000	3630	9370	9400	13600	1590	2000	1320	1720	575	683
22	1010	9010	3770	8530	11200	10100	2230	1990	1170	1500	567	719
23	736	6840	3830	11000	10900	7440	4190	1850	1070	1320	564	737
24	703	5660	3310	9700	9110	5940	4760	1710	1110	1160	556	652
25	759	5230	2900	7570	7540	4580	4390	1450	1790	1020	538	617
26	942	5280	2630	5680	6440	4210	3230	1290	1400	962	529	1710
27	753	14500	2160	5090	5770	3900	2690	1750	1060	944	618	8110
28	677	24200	2150	4070	5090	3650	2150	2570	1000	938	1170	9660
29	635	28500	2070	3180	---	3500	1940	2050	2020	906	852	9210
30	646	26400	1930	2810	---	3090	1870	1990	2340	869	668	6280
31	655	---	1910	2770	---	2870	---	1880	---	831	587	---
TOTAL	18761	332874	242910	105560	287570	256390	64560	48087	69260	101390	21680	53974
MEAN	605	11100	7836	3405	10270	8271	2152	1551	2309	3271	699	1799
MAX	1010	28500	20900	11000	24300	23600	4760	2570	7570	9560	1170	9660
MIN	424	662	1910	1390	2570	2870	1340	997	1000	831	529	524

CAL YR 1985 TOTAL 1469293 MEAN 4025 MAX 31700 MIN 360
WTR YR 1986 TOTAL 1603016 MEAN 4392 MAX 28500 MIN 424

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03231500 SCIOTO RIVER AT CHILLICOTHE, OH

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-51, 1965-1981, November 1985 to September 1986.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1965 to October 1981, November 1985 to September 1986.
pH: June 1971 to October 1981, November 1985 to September 1986.
WATER TEMPERATURES: October 1950 to September 1951, October 1953 to October 1981, November 1985 to September 1986.
DISSOLVED OXYGEN: May 1965 to October 1981, November 1985 to September 1986.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,210 micromhos Jan. 13, 1976; minimum, 150 micromhos June 29, 1972.
pH: Maximum, 9.3 units Aug. 24-26, 1981; minimum, 6.3 units Mar. 6, 1979.
WATER TEMPERATURES: Maximum, 32.0°C July 14, 1954, Aug. 2, 3, 1955, July 20, 1977; minimum 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum, ≥20.0 mg/L on several days during 1978, 1981, and 1986, minimum, 0.0 mg/L April 27, Aug. 12, Sept. 22, 1966.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 800 microsiemens Jan. 19; minimum, 288 micromhos Nov. 11, 12.
pH: Maximum, 9.0 units June 24; minimum 7.0 units Dec. 13, 14.
WATER TEMPERATURES: Maximum, 30.0°C July 24, 25, 27; minimum, 0.0°C several times during winter months.
DISSOLVED OXYGEN: Maximum, ≥20.0 mg/L Mar. 24, 25; minimum, 5.0 mg/L June 8.

03231500 SCIOTO RIVER AT CHILLICOTHE CH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1				---	---	---	464	436	448	736	720	730
2				---	---	---	484	464	477	740	720	725
3				---	---	---	508	486	496	760	736	758
4				760	592	693	524	508	519	760	736	747
5				584	550	559	588	522	548	744	720	741
6				576	564	571	594	464	530	760	736	746
7				610	580	598	464	[illegible]	440	756	724	740
8				636	604	616	454	424	440	756	736	744
9				670	640	660	426	400	410	776	736	758
10				656	628	645	402	392	398	780	760	766
11				634	288	433	410	392	397	776	764	773
12				360	288	313	456	410	433	776	760	762
13				494	366	427	526	458	489	780	760	763
14				505	480	493	564	530	558	764	760	762
15				502	486	497	616	584	604	776	760	766
16				490	308	386	616	602	609	764	760	760
17				348	308	320	604	582	592	784	760	774
18				400	348	365	592	586	589	784	760	781
19				512	408	463	630	594	614	800	780	786
20				494	479	483	688	632	646	784	684	754
21				478	470	473	---	---	---	684	640	661
22				494	472	482	---	---	---	664	604	645
23				516	468	503	---	---	---	616	496	556
24				530	518	523	---	---	---	504	480	487
25				538	526	532	---	---	---	496	480	483
26				546	446	501	670	660	664	524	480	504
27				480	454	467	666	642	663	540	520	526
28				480	446	459	686	640	664	564	524	553
29				448	438	444	704	680	690	616	560	582
30				436	434	435	736	704	717	656	500	626
31				---	---	---	736	724	728	664	640	660
MONTH				760	288	494	736	392	552	800	480	691

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	664	640	649	660	600	629	600	564	576	644	600	622
2	664	640	654	660	640	644	604	600	601	656	640	646
3	656	600	635	644	640	641	620	600	608	664	640	651
4	600	444	515	640	616	626	644	604	628	664	640	654
5	460	440	448	636	600	610	644	640	642	656	640	647
6	476	444	461	620	600	608	656	640	644	656	640	644
7	456	376	414	616	600	604	660	640	646	696	604	662
8	436	360	384	604	600	601	660	640	643	680	640	651
9	376	360	364	624	600	612	656	640	649	720	656	686
10	380	364	370	640	600	608	696	640	669	724	680	706
11	384	364	378	616	524	573	704	680	688	724	684	716
12	424	380	399	616	536	581	700	680	687	740	720	727
13	444	424	438	540	440	484	700	680	684	760	720	746
14	524	444	483	444	360	414	720	680	694	760	720	732
15	584	524	556	376	336	362	724	684	715	736	720	727
16	624	560	587	364	360	362	740	684	710	736	720	731
17	656	600	626	376	360	364	724	680	714	760	720	752
18	604	400	516	380	360	366	724	680	698	776	760	765
19	580	536	565	496	376	406	720	680	689	776	736	757
20	576	560	563	520	400	440	724	684	706	776	640	691
21	560	520	534	424	400	405	724	684	715	656	640	645
22	564	520	533	464	416	444	736	720	726	696	640	679
23	564	520	543	684	456	552	696	656	684	684	680	682
24	524	484	505	496	480	483	696	644	668	704	680	686
25	536	480	492	524	480	489	684	656	674	736	720	724
26	576	520	562	536	496	52[illegible]	684	640	670	736	680	720
27	560	524	543	544	520	527	664	640	649	72[illegible]	680	705
28	616	536	572	564	520	55[illegible]	644	600	627	684	640	656
29	---	---	---	576	560	[illegible]65	640	600	622	656	640	646
30	---	---	---	576	560	565	620	600	604	684	640	652
31	---	---	---	580	560	567	---	---	---	684	680	682
MONTH	664	360	510	684	336	523	740	564	664	776	600	690

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03221500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	696	680	683	616	562	599	670	660	664	624	604	615
2	684	680	683	---	---	---	650	666	680	686	626	658
3	680	680	680	---	---	---	696	670	684	722	686	702
4	---	---	---	---	---	---	696	662	680	758	718	738
5	---	---	---	---	---	---	678	633	660	758	624	721
6	694	672	681	---	---	---	644	618	633	740	730	734
7	740	694	718	---	---	---	652	636	645	---	---	---
8	720	500	569	---	---	---	658	640	649	---	---	---
9	526	500	514	---	---	---	658	638	650	---	---	---
10	586	528	562	---	---	---	672	646	661	---	---	---
11	616	588	600	---	---	---	684	646	670	---	---	---
12	562	350	406	---	---	---	686	644	668	---	---	---
13	458	378	432	---	---	---	692	662	680	---	---	---
14	530	460	492	---	---	---	700	626	672	---	---	---
15	596	534	567	---	---	---	632	590	617	---	---	---
16	632	596	612	---	---	---	640	620	631	564	534	548
17	656	634	647	---	---	---	660	530	628	614	566	590
18	674	658	668	---	---	---	692	658	673	662	614	639
19	690	668	680	---	---	---	738	688	713	698	662	680
20	710	684	695	---	---	---	740	720	732	718	700	710
21	722	712	716	---	---	---	752	738	745	736	718	728
22	738	720	731	---	---	---	742	718	732	750	738	744
23	736	690	716	---	---	---	732	710	722	752	748	750
24	690	668	682	628	616	621	728	716	723	750	736	743
25	720	684	704	642	630	636	740	728	735	734	708	721
26	716	668	696	652	638	644	744	728	737	734	700	709
27	674	642	662	662	642	651	728	710	721	738	518	572
28	658	638	648	672	652	663	756	730	746	530	418	466
29	702	644	673	678	654	667	760	744	748	416	372	389
30	706	610	651	682	656	669	764	676	728	402	392	399
31	---	---	---	670	660	665	670	608	633	---	---	---
MONTH	740	350	635	682	562	646	764	530	686	758	372	646
YEAR	800	288	612									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1				---	---	---	7.40	7.30	7.30	7.70	7.60	7.70
2				---	---	---	7.30	7.30	7.30	7.70	7.60	7.60
3				---	---	---	7.30	7.30	7.30	7.80	7.70	7.70
4				7.50	7.50	7.50	7.30	7.30	7.30	7.70	7.60	7.70
5				7.60	7.50	7.60	7.50	7.30	7.40	7.70	7.60	7.70
6				7.60	7.60	7.60	7.50	7.40	7.50	7.70	7.60	7.70
7				7.60	7.50	7.60	7.50	7.40	7.40	7.70	7.60	7.60
8				7.60	7.50	7.50	7.50	7.40	7.40	7.60	7.50	7.60
9				7.60	7.50	7.50	7.40	7.30	7.30	7.60	7.40	7.50
10				7.60	7.50	7.60	7.30	7.30	7.30	7.50	7.40	7.40
11				7.50	7.30	7.40	7.30	7.20	7.30	7.50	7.40	7.50
12				7.40	7.30	7.40	7.30	7.20	7.20	7.60	7.50	7.60
13				7.50	7.40	7.50	7.20	7.00	7.10	7.60	7.60	7.60
14				7.60	7.50	7.60	7.20	7.00	7.10	7.60	7.50	7.60
15				7.70	7.60	7.60	7.20	7.10	7.10	7.60	7.40	7.50
16				7.60	7.50	7.50	7.20	7.10	7.10	7.60	7.40	7.50
17				7.50	7.40	7.40	7.20	7.20	7.20	7.60	7.60	7.60
18				7.40	7.40	7.40	7.30	7.20	7.30	7.70	7.60	7.60
19				7.80	7.40	7.50	7.40	7.30	7.30	7.70	7.60	7.60
20				7.60	7.60	7.60	7.40	7.20	7.30	7.70	7.60	7.60
21				7.60	7.50	7.60	---	---	---	7.70	7.60	7.70
22				7.60	7.50	7.60	---	---	---	7.70	7.60	7.60
23				7.60	7.50	7.50	---	---	---	7.70	7.60	7.60
24				7.60	7.50	7.50	---	---	---	7.70	7.60	7.70
25				7.60	7.50	7.50	---	---	---	7.70	7.60	7.60
26				7.60	7.50	7.50	7.30	7.20	7.30	7.70	7.60	7.60
27				7.50	7.40	7.50	7.40	7.30	7.30	7.70	7.60	7.70
28				7.50	7.40	7.40	7.50	7.30	7.40	7.70	7.40	7.60
29				7.40	7.40	7.40	7.50	7.40	7.40	7.60	7.50	7.50
30				7.40	7.30	7.40	7.60	7.40	7.50	7.50	7.40	7.50
31				---	---	---	7.70	7.60	7.60	7.60	7.50	7.50
MONTH				7.80	7.30	7.51	7.70	7.00	7.31	7.80	7.40	7.60

03231500 SCIOTO RIVER AT CHILLICOTHE CB--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.60	7.40	7.50	7.70	7.60	7.70	7.90	7.80	7.80	7.70	7.50	7.60
2	7.60	7.60	7.60	7.70	7.60	7.70	7.90	7.80	7.80	7.70	7.40	7.50
3	7.70	7.60	7.60	7.70	7.60	7.60	7.90	7.80	7.80	7.60	7.40	7.50
4	7.70	7.60	7.60	7.70	7.60	7.60	7.90	7.80	7.80	7.50	7.20	7.40
5	7.60	7.50	7.60	7.70	7.60	7.60	7.90	7.80	7.80	7.90	7.40	7.60
6	7.60	7.60	7.60	7.80	7.70	7.80	7.90	7.80	7.80	7.80	7.50	7.60
7	7.60	7.50	7.60	7.80	7.80	7.80	8.10	7.80	7.90	7.90	7.60	7.70
8	7.50	7.40	7.50	7.80	7.80	7.80	8.10	7.80	7.90	8.00	7.60	7.80
9	7.50	7.50	7.50	7.90	7.80	7.80	7.90	7.90	7.60	8.00	7.60	7.80
10	7.60	7.50	7.60	8.00	7.80	7.90	8.00	7.80	7.90	8.10	7.60	7.80
11	7.60	7.50	7.60	7.90	7.80	7.80	8.10	7.60	7.80	8.20	7.60	7.90
12	7.50	7.50	7.50	7.90	7.70	7.80	8.20	7.60	7.90	8.20	7.60	7.90
13	7.50	7.40	7.50	7.80	7.60	7.70	8.30	7.70	8.00	8.00	7.60	7.80
14	7.50	7.40	7.50	7.70	7.60	7.60	8.40	7.80	8.10	8.00	7.60	7.80
15	7.50	7.40	7.50	7.60	7.60	7.60	8.20	7.90	8.10	8.00	7.60	7.80
16	7.50	7.40	7.40	7.70	7.60	7.60	8.10	7.80	7.90	8.00	7.60	7.80
17	7.60	7.40	7.50	7.70	7.60	7.70	7.90	7.60	7.80	8.20	7.60	7.90
18	7.70	7.20	7.60	7.60	7.60	7.60	8.30	7.60	7.90	8.20	7.70	7.90
19	7.80	7.50	7.60	7.70	7.60	7.60	8.60	7.80	8.20	7.90	7.60	7.70
20	7.80	7.60	7.80	7.70	7.60	7.60	8.40	8.00	8.10	7.70	7.40	7.50
21	7.80	7.80	7.80	7.70	7.60	7.60	8.00	7.80	7.90	7.60	7.40	7.40
22	7.80	7.70	7.80	7.70	7.60	7.60	7.70	7.40	7.60	7.60	7.40	7.50
23	7.80	7.80	7.80	7.70	7.60	7.60	7.70	7.40	7.50	7.70	7.40	7.50
24	7.80	7.80	7.80	7.70	7.60	7.60	7.80	7.60	7.70	7.70	7.40	7.50
25	7.80	7.60	7.70	7.70	7.60	7.60	8.00	7.80	7.90	7.70	7.40	7.50
26	7.70	7.60	7.60	7.80	7.60	7.70	8.10	7.70	7.90	7.70	7.50	7.60
27	7.70	7.60	7.60	7.80	7.60	7.70	8.00	7.80	7.90	7.70	7.60	7.60
28	7.70	7.60	7.60	7.70	7.60	7.60	7.90	7.60	7.80	7.60	7.40	7.50
29	---	---	---	7.80	7.60	7.70	7.90	7.60	7.70	7.70	7.40	7.50
30	---	---	---	7.90	7.80	7.80	7.80	7.40	7.60	7.80	7.60	7.60
31	---	---	---	7.90	7.80	7.80	---	---	---	7.70	7.60	7.60
MONTH	7.80	7.20	7.60	8.00	7.60	7.68	8.60	7.40	7.85	8.20	7.20	7.65

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.80	7.60	7.70	7.70	7.70	7.70	8.70	8.40	8.50	8.60	8.20	8.40
2	8.00	7.60	7.70	---	---	---	8.70	8.30	8.50	8.40	8.10	8.20
3	7.90	7.70	7.80	---	---	---	8.70	8.30	8.50	8.40	8.00	8.20
4	---	---	---	---	---	---	8.80	8.30	8.50	8.20	7.90	8.00
5	---	---	---	---	---	---	8.90	8.40	8.60	7.90	7.60	7.70
6	8.70	8.40	8.50	---	---	---	8.90	8.60	8.70	7.60	7.40	7.50
7	8.40	7.50	8.00	---	---	---	8.80	8.50	8.60	---	---	---
8	7.60	7.50	7.60	---	---	---	8.70	8.30	8.50	---	---	---
9	7.70	7.50	7.60	---	---	---	8.70	8.30	8.50	---	---	---
10	7.70	7.70	7.70	---	---	---	8.70	8.50	8.60	---	---	---
11	7.80	7.50	7.70	---	---	---	8.80	8.30	8.50	---	---	---
12	7.60	7.50	7.50	---	---	---	8.70	8.10	8.40	---	---	---
13	7.50	7.50	7.50	---	---	---	8.70	8.20	8.40	---	---	---
14	7.60	7.50	7.50	---	---	---	8.80	8.30	8.50	---	---	---
15	7.70	7.60	7.60	---	---	---	8.90	8.60	8.70	---	---	---
16	7.80	7.60	7.70	---	---	---	8.90	8.70	8.70	8.30	8.00	8.20
17	7.80	7.70	7.70	---	---	---	8.70	8.40	8.60	8.30	7.90	8.10
18	8.00	7.70	7.80	---	---	---	8.60	8.20	8.40	8.10	7.80	8.00
19	8.20	7.80	8.00	---	---	---	8.70	8.10	8.40	7.90	7.70	7.80
20	8.30	7.90	8.00	---	---	---	8.40	8.10	8.30	7.90	7.70	7.80
21	8.40	7.90	8.10	---	---	---	8.30	8.00	8.10	7.80	7.70	7.70
22	8.80	8.00	8.30	---	---	---	8.50	8.00	8.20	7.80	7.70	7.70
23	8.90	7.90	8.50	---	---	---	8.50	8.10	8.30	7.80	7.60	7.70
24	9.00	8.50	8.70	8.60	8.40	8.50	8.70	8.20	8.40	7.80	7.70	7.70
25	8.90	8.40	8.60	8.70	8.30	8.50	8.80	8.30	8.50	7.80	7.60	7.70
26	8.50	7.90	8.20	8.70	8.40	8.60	8.80	8.40	8.60	7.80	7.40	7.70
27	8.70	8.20	8.40	8.90	8.40	8.60	8.50	8.20	8.40	7.60	7.30	7.50
28	8.50	8.10	8.40	8.80	8.40	8.60	8.20	7.80	8.00	7.60	7.50	7.50
29	8.40	7.90	8.10	8.90	8.40	8.60	8.10	7.70	7.90	7.50	7.50	7.50
30	8.00	7.70	7.70	8.80	8.40	8.60	8.40	7.70	8.00	7.50	7.50	7.50
31	---	---	---	8.70	8.40	8.50	8.70	8.20	8.40	---	---	---
MONTH	9.00	7.50	7.95	8.90	7.70	8.47	8.90	7.70	8.43	8.60	7.30	7.81
YEAR	9.00	7.00	7.77									

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03234500 SCIOTO RIVER AT CHILLICOTHE CH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1				---	---	---	5.0	4.5	4.5	3.0	2.0	2.5
2				---	---	---	5.0	4.5	5.0	4.0	2.0	3.0
3				---	---	---	5.0	4.5	5.0	4.0	3.0	3.5
4				15.0	13.0	14.0	5.0	5.0	5.0	4.0	3.0	3.5
5				12.5	12.0	12.0	7.0	5.5	6.0	3.5	2.0	3.0
6				12.0	11.5	11.5	8.0	7.0	7.5	2.5	1.5	2.0
7				11.5	10.5	11.0	7.5	5.5	6.5	1.5	.5	1.0
8				11.0	9.5	10.5	5.5	3.0	4.5	.5	.0	.0
9				11.0	10.5	10.5	3.0	1.5	2.0	.5	.0	.0
10				12.0	10.5	11.0	2.0	2.0	2.0	1.5	.0	.5
11				11.5	11.0	11.5	2.5	2.0	2.5	2.0	.5	1.5
12				12.0	11.5	11.5	2.0	1.0	1.5	3.5	2.0	2.5
13				13.0	12.0	12.5	1.0	.0	.5	3.5	2.0	2.5
14				14.0	13.0	13.5	.5	.0	.0	2.0	1.0	1.5
15				13.5	12.5	13.5	.5	.0	.5	1.5	.0	1.0
16				12.5	11.0	11.5	.5	.0	.0	3.0	1.0	1.5
17				11.0	10.5	10.5	2.0	.5	1.0	5.0	2.5	4.0
18				11.0	10.5	10.5	2.5	2.0	2.0	6.0	5.0	5.5
19				13.0	11.5	12.0	2.5	1.0	2.0	6.0	4.5	5.5
20				13.0	12.0	12.5	1.5	.0	.5	4.5	2.0	3.5
21				12.0	10.0	10.5	---	---	---	2.0	1.0	1.5
22				10.0	9.5	9.5	---	---	---	2.5	2.0	2.0
23				9.5	8.5	9.0	---	---	---	2.5	2.0	2.0
24				9.0	9.0	9.0	---	---	---	2.0	1.0	1.5
25				9.0	8.5	8.5	---	---	---	2.0	2.0	2.0
26				9.5	7.5	8.5	.5	.0	.0	2.0	1.0	2.0
27				7.0	4.5	5.5	1.5	.0	.5	1.5	.0	.5
28				5.0	4.0	4.5	1.5	.5	1.0	.5	.0	.0
29				5.0	4.5	4.5	2.5	1.0	2.0	.5	.0	.0
30				5.0	5.0	5.0	2.0	1.0	1.5	1.0	.0	.5
31				---	---	---	3.0	2.0	2.5	2.0	1.0	1.5
MONTH				15.0	4.0	10.0	8.0	.0	2.5	6.0	.0	2.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	4.0	1.5	2.5	3.0	1.0	2.0	17.0	15.0	16.0	20.0	14.0	15.0
2	4.5	4.0	4.0	3.5	2.0	2.5	17.5	15.0	16.0	14.5	12.0	13.0
3	4.5	4.0	4.0	4.0	3.0	3.5	17.0	14.0	15.5	13.5	11.0	12.0
4	5.5	4.0	4.5	4.5	4.0	4.0	18.5	15.0	17.0	14.0	10.0	12.0
5	6.0	5.0	5.5	5.0	3.5	4.5	17.5	16.5	17.0	20.5	11.0	14.0
6	6.0	5.0	6.0	5.0	4.0	4.0	17.5	16.0	17.0	21.5	14.0	17.0
7	5.5	4.0	5.0	3.5	2.5	3.0	18.5	16.0	17.0	23.0	14.0	19.5
8	4.5	3.5	3.5	2.5	1.0	2.0	18.0	16.0	17.0	24.0	20.0	22.0
9	3.5	3.0	3.0	5.0	2.0	3.5	16.0	13.0	14.0	23.5	20.0	22.0
10	2.5	1.5	2.0	8.0	5.0	6.5	13.0	11.0	12.0	24.0	20.5	22.0
11	1.5	1.5	1.5	8.0	7.0	8.0	14.0	10.5	12.0	24.0	21.0	22.5
12	1.5	.5	1.0	7.5	7.0	7.0	15.0	11.0	13.0	23.0	21.0	22.0
13	.5	.0	.5	7.0	6.0	6.5	16.5	13.0	14.5	22.5	20.0	21.5
14	.5	.0	.0	7.5	7.0	7.0	16.5	14.0	15.5	22.5	20.0	21.5
15	2.0	.5	1.5	8.0	7.0	7.5	16.0	13.5	15.0	22.5	20.5	21.5
16	2.5	1.5	2.0	8.0	7.0	7.5	13.5	12.0	12.5	24.5	21.0	22.5
17	5.0	2.5	3.5	7.5	6.0	7.0	12.5	12.0	12.0	24.5	20.0	22.0
18	5.0	4.0	4.5	8.0	6.5	7.0	14.0	10.0	11.5	24.5	20.0	22.5
19	5.5	5.0	5.0	9.5	8.0	8.5	14.5	10.0	12.0	24.0	22.0	23.0
20	5.5	5.0	5.5	9.0	7.0	8.5	11.0	10.0	10.5	22.0	14.0	19.5
21	5.5	4.0	5.0	7.0	5.5	6.0	14.5	10.0	13.0	14.0	13.0	13.0
22	4.0	2.0	3.5	6.5	4.5	5.5	13.5	11.0	12.0	13.5	12.0	13.0
23	3.0	2.0	2.5	7.0	5.0	6.5	12.5	10.0	11.0	14.5	12.0	13.0
24	3.5	3.0	3.0	8.5	7.0	7.5	14.0	11.0	12.0	21.5	13.0	17.0
25	3.5	2.0	3.0	10.5	7.0	9.0	14.5	10.0	12.0	21.5	14.0	20.0
26	3.0	2.0	2.5	12.0	10.0	11.0	13.5	10.0	11.5	22.0	20.0	20.5
27	3.5	2.0	2.5	12.5	11.0	11.5	20.5	12.0	16.0	22.0	20.0	21.0
28	3.0	1.5	2.5	12.5	10.0	11.5	21.5	14.0	17.5	23.0	20.5	21.5
29	---	---	---	13.5	11.0	12.0	20.5	13.0	16.0	23.5	21.0	22.5
30	---	---	---	15.0	12.0	13.5	20.0	13.0	16.5	24.5	20.0	22.5
31	---	---	---	16.5	14.0	15.0	---	---	---	24.5	20.0	22.5
MONTH	6.0	.0	3.0	16.5	1.0	7.0	21.5	10.0	14.0	24.5	10.0	19.0

03231500 SCIOTO RIVER AT CHILLICOTHE OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.5	20.0	22.0	25.0	23.0	24.5	28.0	25.5	26.5	24.0	22.0	23.0
2	24.5	20.0	23.0	---	---	---	27.5	25.5	26.5	24.0	22.5	23.0
3	22.5	21.0	22.0	---	---	---	28.0	26.0	27.0	24.0	22.0	23.0
4	---	---	---	---	---	---	28.0	25.0	26.5	24.5	23.0	23.5
5	---	---	---	---	---	---	28.0	25.0	26.5	24.5	23.0	23.5
6	25.5	23.5	24.5	---	---	---	27.0	25.0	26.0	24.0	23.5	24.0
7	26.0	24.0	25.0	---	---	---	27.5	25.5	26.0	---	---	---
8	25.5	24.0	25.0	---	---	---	27.0	25.5	26.5	---	---	---
9	25.5	24.0	24.5	---	---	---	27.5	25.5	26.5	---	---	---
10	25.0	24.0	24.5	---	---	---	26.5	25.0	26.0	---	---	---
11	25.5	24.0	25.0	---	---	---	26.5	24.5	25.5	---	---	---
12	25.0	24.0	24.5	---	---	---	26.5	23.5	25.0	---	---	---
13	24.5	23.5	24.0	---	---	---	25.5	23.5	24.5	---	---	---
14	25.0	22.5	23.5	---	---	---	27.0	24.0	25.5	---	---	---
15	26.0	23.5	25.0	---	---	---	28.5	25.5	26.5	---	---	---
16	27.0	24.5	25.5	---	---	---	27.5	26.5	27.0	22.5	21.0	22.0
17	27.0	24.5	25.5	---	---	---	27.5	25.5	26.5	21.5	19.5	20.5
18	26.0	23.5	24.5	---	---	---	28.0	25.5	26.5	21.0	20.5	20.5
19	26.0	23.0	24.5	---	---	---	28.0	25.5	27.0	22.0	20.5	21.0
20	27.0	24.0	25.5	---	---	---	27.0	25.5	26.5	23.5	21.5	22.5
21	27.0	23.5	25.5	---	---	---	27.5	25.5	26.5	24.5	22.5	23.5
22	28.0	24.5	26.0	---	---	---	28.5	26.0	27.0	25.5	23.0	24.0
23	29.5	26.5	27.5	---	---	---	28.0	26.0	27.0	25.5	24.0	24.5
24	28.5	26.5	27.5	30.0	28.0	29.0	27.5	24.5	25.5	25.0	24.0	24.5
25	27.5	25.0	26.5	30.0	27.5	28.5	27.0	24.0	25.5	25.5	23.5	24.5
26	27.0	24.0	25.5	29.5	28.0	29.0	27.0	24.0	25.5	26.0	24.5	25.0
27	27.0	24.5	25.5	30.0	27.5	29.0	25.5	23.5	25.0	25.5	23.5	24.0
28	27.0	25.0	26.0	29.5	27.5	28.5	23.5	22.0	23.0	24.0	23.0	23.5
29	27.5	24.5	26.0	29.0	27.0	28.0	23.0	20.0	21.5	24.5	23.0	23.5
30	27.0	25.0	25.5	29.0	26.5	27.5	23.0	20.0	21.5	25.0	23.5	24.0
31	---	---	---	27.5	26.0	27.0	23.5	20.5	22.0	---	---	---
MONTH	29.5	20.0	25.0	30.0	23.0	28.0	28.5	20.0	25.5	26.0	19.5	23.0
YEAR	30.0	.0	13.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1				---	---	---	12.1	11.8	11.9	11.2	10.8	11.0
2				---	---	---	11.8	11.7	11.8	11.0	10.8	10.8
3				---	---	---	11.8	11.6	11.7	10.6	10.4	10.6
4				6.3	5.5	5.8	11.9	11.8	11.8	10.8	10.6	10.8
5				7.7	6.4	7.1	11.8	11.0	11.5	11.0	10.6	10.8
6				7.9	7.6	7.7	11.1	10.3	10.7	11.2	10.8	11.0
7				8.1	7.8	8.0	11.3	10.2	10.9	11.4	11.2	11.3
8				8.6	7.9	8.3	12.1	11.3	11.7	11.8	11.4	11.6
9				8.7	8.5	8.6	12.9	12.1	12.5	11.8	11.4	11.6
10				9.0	8.6	8.8	13.0	12.8	12.9	11.4	10.8	11.2
11				8.7	7.9	8.3	13.0	12.7	12.8	11.2	10.8	11.0
12				8.8	8.5	8.7	12.8	12.6	12.7	10.8	10.4	10.7
13				8.6	8.4	8.5	12.9	12.7	12.9	10.8	10.4	10.5
14				8.7	8.4	8.5	12.7	12.6	12.6	10.8	10.6	10.7
15				8.7	8.3	8.4	12.6	12.5	12.5	11.0	10.4	10.8
16				9.3	8.8	9.0	12.7	12.5	12.6	11.2	10.8	10.9
17				9.3	9.0	9.1	12.7	12.4	12.5	10.8	10.4	10.5
18				9.2	8.9	9.1	12.3	11.9	12.2	10.2	10.0	10.0
19				9.0	8.7	8.8	12.0	11.8	11.9	9.8	9.4	9.6
20				9.2	8.8	9.1	12.3	12.1	12.2	10.6	9.6	10.0
21				10.0	9.3	9.7	---	---	---	12.0	[illegible].6	11.6
22				10.2	9.9	10.1	---	---	---	12.0	11.6	11.8
23				10.3	10.1	10.2	---	---	---	12.2	11.6	12.0
24				10.3	10.2	10.3	---	---	---	12.4	12.0	12.1
25				10.5	10.3	10.4	---	---	---	12.2	12.0	12.1
26				10.7	10.0	10.4	12.2	12.0	12.1	12.0	11.6	11.7
27				11.8	10.6	11.1	12.0	11.6	11.8	11.8	11.4	11.5
28				12.4	11.8	12.1	11.8	11.6	11.7	12.8	10.4	11.7
29				12.3	12.1	12.1	11.6	11.2	11.4	12.8	10.4	11.5
30				12.1	11.9	12.0	11.4	11.2	11.3	11.8	11.6	11.7
31				---	---	---	11.2	11.0	11.1	11.8	11.6	11.6
MONTH				12.4	5.5	9.3	13.0	10.2	12.0	12.8	9.4	11.1

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03231500 SCIOTO RIVER AT CHILLICOTHE OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.6	11.2	11.4	12.0	11.6	11.8	7.6	7.2	7.3	7.6	6.0	6.8
2	11.2	10.8	10.9	12.0	11.6	11.8	7.6	7.0	7.3	7.6	6.0	6.7
3	11.0	10.8	11.0	11.6	11.2	11.3	7.6	6.8	7.1	7.8	6.0	6.7
4	11.2	10.8	11.0	11.2	10.8	11.1	7.0	6.4	6.6	8.2	6.0	6.7
5	10.8	10.0	10.3	11.4	10.8	11.2	7.0	6.0	6.5	11.6	6.4	8.9
6	10.6	10.4	10.5	11.4	11.2	11.2	7.4	5.8	6.4	11.6	6.0	7.7
7	10.8	10.6	10.7	12.0	11.2	11.6	8.2	5.6	6.8	14.4	6.0	8.5
8	10.8	10.6	10.7	13.0	12.0	12.5	8.2	5.6	6.9	11.6	6.0	8.6
9	11.6	11.0	11.2	13.0	12.4	12.7	8.4	6.4	7.5	11.6	6.0	8.2
10	12.0	11.4	11.8	12.8	11.6	12.3	10.6	7.6	8.9	11.6	6.0	8.5
11	12.2	11.8	12.0	11.6	10.8	11.1	11.4	7.8	9.5	11.6	6.0	8.3
12	12.4	12.0	12.2	11.8	10.6	11.2	14.2	7.6	10.4	11.8	6.0	8.5
13	12.6	12.0	12.3	12.4	11.2	11.8	16.0	7.4	11.2	10.8	6.0	7.6
14	12.4	11.2	11.8	11.0	10.8	10.8	16.6	7.6	12.3	11.2	6.2	8.0
15	11.6	11.0	11.3	11.0	10.6	10.8	13.8	8.4	10.9	11.2	6.0	7.7
16	11.2	10.8	11.0	11.2	10.8	10.9	12.2	8.0	9.8	11.2	6.0	8.1
17	11.0	10.0	10.6	11.8	11.2	11.4	9.6	7.6	8.6	12.0	6.0	8.4
18	11.0	10.4	10.8	11.6	10.8	11.3	13.6	6.8	10.0	14.0	6.0	8.7
19	11.2	10.4	10.7	11.0	10.2	10.6	17.8	8.0	12.7	7.8	6.0	6.7
20	11.4	10.8	11.0	11.0	9.8	10.2	13.0	8.0	9.7	7.4	6.0	6.7
21	11.8	11.2	11.5	12.0	11.2	11.7	11.6	6.8	9.1	7.6	6.4	6.9
22	12.4	11.8	12.1	12.0	11.6	11.7	7.8	6.0	6.8	10.2	6.8	7.8
23	13.0	12.4	12.6	19.2	11.6	14.6	7.6	6.4	7.0	10.8	6.8	8.4
24	12.6	12.0	12.4	20.0	14.6	18.1	10.8	7.2	9.0	10.6	7.0	8.7
25	12.4	12.0	12.2	20.4	17.2	18.9	11.8	7.6	9.9	10.6	7.0	8.6
26	12.2	11.6	11.9	18.8	16.6	18.2	12.0	7.0	9.8	11.2	7.2	9.4
27	12.2	11.6	11.7	19.0	11.8	16.5	11.8	6.8	9.7	10.2	7.6	9.2
28	12.0	11.6	11.[illegible]	18.0	8.2	10.7	11.6	6.0	8.4	7.6	6.8	7.2
29	---	---	--	8.6	8.0	8.4	11.8	6.0	8.2	7.2	6.4	6.8
30	---	---	---	8.4	7.6	8.0	11.0	6.0	8.0	7.4	6.2	6.8
31	---	---	---	7.8	7.2	7.6	---	---	---	7.0	6.0	6.6
MONTH	13.0	10.0	11.4	20.4	7.2	12.0	17.8	5.6	8.7	14.4	6.0	7.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.8	6.0	6.8	6.9	6.2	6.4	13.2	9.0	11.1	11.2	8.6	9.8
2	10.6	6.0	7.9	---	---	---	13.2	8.5	10.7	11.1	8.2	9.4
3	10.0	7.2	8.4	---	---	---	14.0	9.0	11.1	11.0	8.5	9.5
4	---	---	---	---	---	---	14.5	8.9	11.3	9.7	7.9	8.6
5	---	---	---	---	---	---	15.4	9.4	12.0	7.8	6.9	7.3
6	14.1	10.0	12.2	---	---	---	14.8	10.3	12.6	6.8	6.1	6.4
7	11.4	5.4	8.7	---	---	---	12.6	9.3	10.7	---	---	---
8	6.5	5.0	5.8	---	---	---	11.0	8.0	9.3	---	---	---
9	6.9	6.4	6.6	---	---	---	10.4	7.7	8.9	---	---	---
10	6.9	6.8	6.8	---	---	---	8.9	7.6	8.2	---	---	---
11	7.1	5.7	6.8	---	---	---	10.3	6.6	8.3	---	---	---
12	6.6	5.7	6.3	---	---	---	10.1	6.9	8.4	---	---	---
13	6.5	6.2	6.4	---	---	---	11.5	7.4	9.3	---	---	---
14	6.8	6.6	6.7	---	---	---	12.9	8.6	10.6	---	---	---
15	6.9	6.7	6.8	---	---	---	11.9	8.8	10.3	---	---	---
16	7.0	6.6	6.8	---	---	---	11.5	8.9	10.1	10.2	8.6	9.4
17	7.5	6.7	7.0	---	---	---	11.2	6.6	9.0	10.2	8.1	9.0
18	8.8	7.1	7.7	---	---	---	10.2	7.5	8.7	9.0	7.6	8.2
19	10.1	7.5	8.6	---	---	---	12.4	7.5	9.5	8.1	7.3	7.6
20	10.9	7.7	9.0	---	---	---	10.0	8.2	9.1	8.1	7.2	7.6
21	12.0	7.9	9.5	---	---	---	10.0	7.5	8.6	7.7	6.9	7.3
22	14.8	8.1	10.8	---	---	---	11.6	7.6	9.3	8.0	6.9	7.4
23	16.2	8.8	12.0	---	---	---	11.6	8.0	9.4	7.8	6.7	7.2
24	16.0	9.1	12.3	14.1	10.6	12.5	13.8	8.2	10.3	7.3	6.8	7.0
25	13.4	9.1	11.4	15.3	8.9	11.8	14.0	9.1	11.1	7.8	6.7	7.1
26	12.2	7.6	9.7	14.9	9.3	12.0	12.8	8.9	10.6	7.4	5.9	7.0
27	14.0	8.4	10.8	16.7	9.3	12.6	9.4	7.8	8.5	6.8	5.4	6.4
28	11.8	8.1	10.1	15.6	9.6	12.3	9.2	7.0	7.9	6.9	6.6	6.8
29	10.0	7.5	8.2	16.3	9.4	12.6	9.3	7.0	8.0	7.0	6.9	7.0
30	8.0	6.3	6.5	15.9	9.4	12.4	11.4	7.5	9.0	7.0	6.9	7.0
31	---	---	---	13.9	9.3	11.3	12.5	8.8	10.2	---	---	---
MONTH	16.2	5.0	8.5	16.7	6.2	11.5	15.4	6.6	9.8	11.2	5.4	7.8
YEAR	20.4	5.0	9.9									

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^2.

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 746.00 ft above National Geodetic Vertical Datum of 1929. (Levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1984, datum 46.00 ft lower. Prior to May 3, 1968, water-stage recorder and crest-stage gage at partial-record site 1,000 ft downstream at datum 3.04 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.--19 years, 574 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 45,000 ft^3/s Mar. 10, 1964, gage height, 27.3 ft, site and datum then in use; minimum daily, 4.7 ft^3/s Sept. 1, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,710 ft^3/s Dec. 4, gage height, 8.50 ft; minimum daily, 5.7 ft^3/s Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	93	30	242	483	433	56	36	125	31	22	25
2	35	104	1560	168	431	367	22	100	125	71	22	25
3	35	252	5260	215	416	399	18	100	125	96	22	25
4	70	331	6450	183	986	481	17	100	125	277	23	25
5	96	253	6390	116	1730	508	16	89	125	371	23	25
6	116	178	6380	203	2890	802	16	67	86	202	23	25
7	130	224	4630	280	1880	1020	16	80	65	118	23	25
8	130	200	1400	173	2810	740	17	90	106	86	23	49
9	130	144	819	85	4670	590	17	91	127	51	23	70
10	130	170	551	89	4690	557	20	208	195	51	23	49
11	130	270	758	120	4530	1100	24	273	278	51	23	35
12	128	996	2040	145	2870	1800	24	271	798	255	24	35
13	128	1220	2230	173	701	1960	24	197	1010	456	23	34
14	130	1750	2170	203	455	597	13	94	384	460	23	34
15	130	2340	1780	164	506	2760	5.7	93	122	418	23	35
16	104	1020	1220	109	572	3200	8.4	93	191	227	23	43
17	66	32	653	64	556	3180	8.7	93	223	61	24	46
18	36	101	507	26	1600	1820	8.7	93	139	29	24	40
19	36	2180	427	151	2230	879	9.1	94	96	29	24	36
20	448	4470	329	333	1620	1030	9.1	120	73	30	24	36
21	361	5020	361	694	1100	1190	9.1	133	61	30	24	36
22	123	5160	392	917	983	941	9.1	133	61	30	24	44
23	83	5080	444	988	957	648	9.1	132	61	30	24	36
24	83	5150	442	964	920	472	9.1	107	61	30	25	33
25	84	4510	335	630	718	412	9.4	94	62	30	25	30
26	84	1790	270	594	635	481	9.8	75	62	30	25	31
27	84	777	208	584	658	446	9.8	65	42	30	26	31
28	46	304	149	335	619	429	9.6	65	31	30	26	31
29	25	28	129	195	---	429	8.2	65	31	30	26	32
30	26	29	234	314	---	299	8.4	63	31	18	25	32
31	55	---	269	467	---	244	---	104	---	11	25	---
TOTAL	3317	44176	48817	9924	43216	30214	441.3	3418	5021	3669	737	1053
MEAN	107	1473	1575	320	1543	975	14.7	110	167	118	23.8	35.1
MAX	448	5160	6450	988	4690	3200	56	273	1010	460	26	70
MIN	25	28	30	26	416	244	5.7	36	31	11	22	25

CAL YR 1985 TOTAL 239491 MEAN 656 MAX 6640 MIN 11
WTR YR 1986 TOTAL 194003.3 MEAN 532 MAX 6450 MIN 5.7

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^2.

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.--Estimated daily discharges: Jan. 8, 9. Records good except for periods of estimated record which are fair. 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.--47 years, 153 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,400 ft^3/s Mar. 10, 1964 from rating curve extended above 8,800 ft^3/s on basis of velocity-area studies; maximum gage height, 15.56 ft Mar. 6, 1945; minimum daily discharge, 0.90 ft^3/s Sept. 10, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,830 ft^3/s Nov. 28, gage height, 8.33 ft; minimum daily, 3.4 ft^3/s Aug. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	7.4	438	73	70	130	83	60	33	14	4.7	5.4
2	5.2	12	344	72	124	129	80	52	32	41	4.2	5.9
3	4.9	45	240	71	131	108	73	44	24	40	3.5	5.9
4	4.8	53	194	20	732	43	72	38	22	34	3.6	5.7
5	5.3	69	172	19	1250	42	69	37	22	28	4.0	5.9
6	5.3	63	161	37	842	125	71	36	25	24	3.4	4.9
7	5.3	55	143	76	1230	176	67	39	47	21	3.4	4.7
8	5.2	52	133	110	756	116	66	45	52	18	3.8	4.7
9	5.3	39	125	52	390	117	59	39	43	14	4.0	4.7
10	6.0	33	119	21	218	127	51	36	43	16	7.9	4.8
11	6.2	46	198	21	223	221	47	33	78	19	10	6.1
12	6.6	173	330	20	250	334	43	32	547	27	5.0	14
13	9.3	234	290	21	253	865	43	32	366	40	4.5	5.9
14	6.4	218	246	20	193	735	42	50	228	40	4.5	5.1
15	5.6	205	198	34	131	500	59	65	161	33	4.2	5.3
16	5.6	1960	197	84	129	302	56	60	121	29	4.2	5.0
17	5.6	1490	214	110	306	239	55	50	87	26	4.4	4.7
18	5.6	698	190	107	491	171	52	43	63	22	5.3	5.1
19	6.6	421	138	86	431	199	51	44	50	19	4.2	5.7
20	30	283	23	85	270	167	62	39	56	16	3.9	6.1
21	15	203	19	90	143	97	104	34	51	17	3.9	6.0
22	7.0	163	20	142	125	103	113	30	43	14	4.0	4.8
23	5.4	134	59	129	84	108	94	27	38	9.9	4.4	4.7
24	11	113	122	111	114	105	83	27	32	7.5	4.6	7.3
25	17	107	111	98	146	103	76	25	21	6.4	3.9	7.5
26	15	286	120	103	175	104	72	24	18	5.3	4.3	7.2
27	13	3130	29	100	200	103	68	48	17	5.0	12	46
28	12	3050	26	114	164	99	67	53	17	5.8	7.6	69
29	8.6	1340	25	91	---	95	71	47	11	7.0	5.6	57
30	7.8	670	59	63	---	89	60	43	10	6.8	5.3	45
31	7.8	---	80	32	---	85	---	39	---	5.3	5.0	---
TOTAL	262.7	15357.4	4763	2212	9571	5937	2009	1271	2358	611.0	153.3	370.1
MEAN	8.47	512	154	71.4	342	192	67.0	41.0	78.6	19.7	4.95	12.3
MAX	30	3130	438	142	1250	865	113	65	547	41	12	69
MIN	4.8	7.4	19	19	70	42	42	24	10	5.0	3.4	4.7

CAL YR 1985 TOTAL 54929.8 MEAN 150 MAX 3130 MIN 3.5
WTR YR 1986 TOTAL 44875.5 MEAN 123 MAX 3130 MIN 3.4

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7378

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^2.

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.--No estimated daily discharges. Records good. 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.--63 years (1921-36, 1939-86), 805 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,900 ft^3/s Mar. 10, 1964, gage height, 20.50 ft, from rating curve extended above 30,000 ft^3/s on basis of contracted-opening measurement at gage height 20.08 ft; minimum daily, 5 ft^3/s Oct. 29, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,550 ft^3/s Nov. 16, gage height, 9.14 ft; minimum daily, 44 ft^3/s Sept. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	74	960	424	639	818	354	118	180	83	45	46
2	61	112	1340	358	679	617	213	164	184	98	53	47
3	57	169	5650	340	612	643	192	183	176	154	52	47
4	56	469	7250	345	2870	612	181	176	170	202	51	48
5	86	351	7230	258	4140	674	173	172	169	370	50	48
6	92	337	7210	230	4950	951	168	153	168	316	51	45
7	120	248	6650	377	5430	1630	163	143	135	162	50	44
8	121	329	2390	411	3810	1270	157	298	151	153	50	44
9	120	194	1660	312	6180	919	151	190	195	108	50	67
10	121	222	879	205	5950	869	142	190	199	102	52	73
11	123	461	1080	198	5840	1580	139	297	305	109	65	62
12	123	1170	3230	224	4850	2760	134	300	1570	142	57	70
13	123	1910	3520	245	1760	4510	129	302	1970	456	51	64
14	125	2120	3310	261	951	2010	129	208	1220	491	49	56
15	123	3110	2930	266	818	3990	127	209	392	462	49	53
16	120	5990	2200	255	875	4510	124	198	329	366	48	53
17	92	3200	1430	258	1380	4460	123	183	346	169	54	60
18	66	1480	970	237	2440	3390	118	172	293	99	50	62
19	53	2190	909	225	3710	1620	114	168	195	87	49	57
20	164	5520	528	466	3000	1620	117	170	184	83	48	54
21	647	5950	483	689	1910	1740	175	192	159	84	47	53
22	203	6170	504	1430	1590	1600	228	189	146	79	46	53
23	103	6050	564	1470	1450	1050	194	185	139	76	47	59
24	99	6050	724	1460	1400	849	167	179	131	72	48	55
25	101	5820	607	1120	1280	642	152	148	122	68	47	55
26	101	3420	503	638	1060	681	143	144	114	67	46	50
27	98	5420	398	872	1150	697	135	142	111	66	65	87
28	95	6000	305	745	1050	635	128	170	95	65	62	103
29	60	2820	258	404	---	619	132	152	88	65	51	96
30	52	1490	309	412	---	548	125	144	81	64	48	86
31	50	---	391	493	---	411	---	143	---	56	46	---
TOTAL	3616	78846	66361	15828	71804	48925	4727	5782	9717	4974	1577	1799
MEAN	117	2628	2141	511	2564	1578	158	187	324	160	50.9	60.0
MAX	647	6170	7250	1470	6180	4510	354	302	1970	491	65	103
MIN	50	74	258	198	612	411	124	118	81	56	45	44

CAL YR 1985	TOTAL	365577	MEAN	1002	MAX	7250	MIN	27
WTR YR 1986	TOTAL	313956	MEAN	660	MAX	7250	MIN	44

7378

03234300 PAINT CREEK AT CHILLICOTHE, OH

LOCATION.--Lat 39°19'14", long 82°58'42", Ross County, Hydrologic Unit 05060003, on left bank at downstream side of bridge on State Highway 772, 4.3 mi downstream from North Fork Paint Creek and 3.8 mi upstream from mouth.

DRAINAGE AREA.--1,136 mi^2.

PERIOD OF RECORD.--October 1985 to September 1986.

GAGE.--Water-stage recorder. Elevation of gage is 600 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-9, Nov. 11-19, Mar. 18-27, Apr. 21-28, July 4-7, Sept. 13-15. Records fair except for estimated daily discharges, which are poor. Flow regulated by Paint Creek Lake, 35 mi upstream, capacity 145,000 acre-ft and Rocky Fork Lake 41 mi upstream, capacity 34,100 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,300 ft^3/s Nov. 28, gage height, 17.66 ft; minimum daily, 52 ft^3/s Aug. 6, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	75	1460	495	631	955	579	292	349	123	62	61
2	86	121	1320	459	709	780	460	298	341	174	57	61
3	86	214	5000	431	714	817	425	340	326	229	59	61
4	80	492	7250	460	6770	855	404	334	372	350	58	62
5	88	469	7300	396	6940	970	391	331	375	500	58	63
6	100	456	7330	338	5710	1060	381	321	337	360	52	60
7	130	332	7020	414	9700	1540	375	311	302	250	53	58
8	130	364	2360	542	4290	1320	366	444	308	199	53	56
9	130	287	1570	400	6820	1040	355	377	310	172	53	55
10	130	267	948	345	6300	1010	345	338	319	131	55	85
11	131	1700	1470	309	5980	2050	334	404	400	134	60	83
12	133	2400	4760	328	5300	2820	326	429	1450	140	68	85
13	134	2800	3960	342	1900	7280	316	432	1580	364	60	74
14	139	3000	3330	344	1090	3740	310	388	1100	450	56	70
15	141	4200	2790	362	973	3760	321	365	469	425	54	66
16	138	6000	2030	342	954	4620	317	352	380	385	53	63
17	127	2700	1420	354	1900	4400	310	335	377	250	121	62
18	106	1700	977	354	2780	3400	302	320	350	163	63	69
19	77	2700	903	353	3960	2200	291	309	269	121	58	70
20	105	5310	687	543	3220	2000	296	309	242	118	54	66
21	565	5760	586	629	2060	1900	340	318	224	110	53	63
22	294	6040	626	1410	1700	1600	430	326	201	112	52	62
23	180	5840	626	1400	1480	1200	640	322	189	97	53	64
24	147	5800	709	1290	1370	1000	540	318	179	90	55	68
25	138	5720	666	1120	1310	900	420	296	169	84	59	67
26	137	3730	580	862	1120	840	390	281	155	81	54	65
27	132	9990	544	668	1160	800	360	330	147	78	78	154
28	123	15100	450	765	1070	755	350	345	145	74	91	181
29	106	5260	408	595	---	733	314	327	132	74	75	142
30	78	2210	394	517	---	707	305	471	123	73	67	122
31	71	---	453	536	---	602	---	388	---	73	63	---
TOTAL	4248	101037	69927	17907	87911	57654	11273	10751	11460	5984	1907	2318
MEAN	137	3368	2256	578	3140	1860	376	347	382	193	61.5	77.3
MAX	565	15100	7330	1410	9700	7280	640	471	1580	500	121	181
MIN	71	75	394	309	631	602	291	281	123	73	52	55

WTR YR 1986 TOTAL 382377 MEAN 1048 MAX 15100 MIN

000137

03234300 PAINT CREEK AT CHILLICOTHE, OH

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years October 1985 to September 1986.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1985 to September 1986.
pH: October 1985 to September 1986.
WATER TEMPERATURES: October 1985 to September 1986.
DISSOLVED OXYGEN: October 1985 to September 1986.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 704 microsiemens Jan. 17, 1986; maximum, 256 microsiemens Nov. 16, 1985.
pH: Maximum, 9.0 units May 24, 1986; minimum, 7.6 units June 12, Aug. 17, 1986.
WATER TEMPERATURES: Maximum, 31.0°C July 18, 19, 1986; minimum 0.5°C on several days during winter periods.
DISSOLVED OXYGEN: Maximum, 17.7 mg/L March 7, 1986; minimum, 3.8 mg/L Aug. 16, 1986.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 704 micromhos Jan. 17; minimum, 256 micromhos Nov. 16.
pH: Maximum, 9.0 units May 24; minimum 7.6 units June 12, Aug. 17.
WATER TEMPERATURES: Maximum, 31.0°C July 18, 19; minimum, 0.5°C several times during winter months.
DISSOLVED OXYGEN: Maximum, 17.7 mg/L Mar. 7; minimum recorded, 3.8 mg/L Aug. 16.

03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	514	484	497	---	---	---	646	618	634
2	---	---	---	504	486	497	---	---	---	630	622	626
3	---	---	---	538	488	501	---	---	---	638	626	633
4	---	---	---	534	486	502	374	322	353	632	618	624
5	---	---	---	500	488	494	364	346	358	634	618	628
6	---	---	---	498	490	494	378	348	363	658	632	642
7	---	---	---	510	498	502	422	338	379	664	656	660
8	---	---	---	526	460	497	462	420	437	678	658	668
9	---	---	---	490	468	478	486	434	463	678	646	662
10	---	---	---	468	450	458	508	476	497	662	638	653
11	468	450	460	516	318	388	482	350	434	650	612	625
12	482	440	464	404	346	368	448	332	390	636	622	627
13	458	442	451	412	400	405	440	340	395	648	620	634
14	474	456	465	422	406	412	422	364	385	646	624	636
15	480	466	472	448	424	442	452	400	424	640	622	631
16	514	458	490	426	256	310	468	390	448	690	642	662
17	520	454	490	380	280	334	480	402	462	704	690	695
18	488	444	469	410	326	366	496	444	480	702	656	683
19	482	460	475	394	330	367	496	394	449	670	628	647
20	492	466	480	400	332	365	504	446	486	632	578	606
21	534	466	482	438	404	421	530	498	511	640	566	608
22	482	466	475	408	400	405	528	464	510	646	600	630
23	500	468	481	430	378	407	532	494	513	614	598	605
24	484	474	478	408	390	402	582	494	556	612	392	504
25	514	480	496	462	402	437	570	524	537	406	384	391
26	542	478	512	442	430	436	606	540	580	392	380	387
27	522	466	495	---	---	---	614	596	604	396	378	389
28	504	474	491	---	---	---	620	604	612	390	372	382
29	530	500	512	---	---	---	650	622	636	388	374	381
30	524	508	516	---	---	---	650	634	644	384	356	376
31	528	496	515	---	---	---	652	638	644	414	340	368
MONTH	542	440	484	538	256	430	652	322	484	704	340	577

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	418	318	379	556	540	547	562	518	542	532	506	520
2	408	364	389	576	560	568	574	544	560	560	514	539
3	422	370	398	564	546	557	---	---	---	570	500	537
4	390	284	336	558	546	553	---	---	---	560	492	526
5	402	276	333	570	554	563	---	---	---	564	492	527
6	430	406	424	574	558	566	---	---	---	530	498	515
7	424	354	378	574	550	565	---	---	---	542	490	520
8	402	356	381	592	572	580	---	---	---	534	368	475
9	414	396	407	602	570	587	---	---	---	460	374	429
10	420	400	412	588	546	574	594	572	581	504	466	486
11	412	402	406	546	430	463	622	570	598	522	478	502
12	466	396	421	542	490	520	616	558	587	522	494	511
13	480	316	388	506	356	411	602	556	580	542	508	526
14	466	376	421	406	366	396	610	546	577	538	518	528
15	480	392	431	426	376	409	616	560	587	568	526	537
16	466	404	435	422	380	401	636	608	621	---	---	---
17	488	388	427	426	412	419	624	606	616	---	---	---
18	478	386	440	454	422	431	620	552	591	---	---	---
19	506	404	466	498	458	469	604	554	579	---	---	---
20	512	466	499	558	502	537	588	572	583	558	542	549
21	502	488	493	590	542	570	606	558	583	568	558	563
22	532	502	517	604	562	587	---	---	---	566	542	555
23	530	514	525	610	532	571	---	---	---	564	534	550
24	550	526	537	588	542	565	---	---	---	568	530	551
25	560	544	550	602	534	567	---	---	---	572	544	557
26	562	544	551	552	524	539	---	---	---	582	546	566
27	544	532	540	568	538	553	---	---	---	572	548	561
28	540	530	534	600	536	569	---	---	---	562	526	545
29	---	---	---	582	524	552	522	486	499	556	512	535
30	---	---	---	570	512	541	544	482	519	590	360	478
31	---	---	---	574	518	546	---	---	---	488	464	473
MONTH	562	276	444	610	356	525	636	482	575	590	360	524

03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	522	494	509	524	500	514	536	510	523	533	502	519
2	540	508	527	544	502	524	538	506	523	533	502	519
3	574	514	539	544	480	515	532	506	522	541	502	521
4	546	522	534	510	460	492	550	514	534	533	502	514
5	540	518	530	488	420	460	552	510	533	518	494	510
6	540	526	533	452	420	436	544	520	533	541	510	527
7	---	---	---	464	420	447	540	518	531	541	518	528
8	---	---	---	474	440	461	540	524	533	565	518	541
9	---	---	---	474	460	466	542	518	532	564	520	544
10	502	486	491	494	460	485	536	520	529	548	502	526
11	498	434	480	510	447	490	542	522	532	522	464	510
12	462	294	381	486	471	477	542	516	531	486	478	483
13	452	350	428	502	414	465	550	508	530	512	474	495
14	474	442	458	432	400	416	526	484	509	518	482	501
15	484	442	472	439	408	424	512	492	503	514	482	497
16	470	420	449	439	416	433	516	434	503	518	490	507
17	458	440	447	447	424	435	456	346	401	549	502	525
18	464	440	464	463	439	455	490	424	473	525	510	517
19	492	464	480	478	463	471	494	454	478	518	486	506
20	492	466	482	486	460	483	494	470	487	502	471	490
21	514	476	496	502	463	489	516	496	507	502	471	486
22	510	476	493	502	463	482	524	476	502	502	471	488
23	495	476	489	494	471	485	492	452	483	494	471	486
24	498	472	487	525	480	500	502	478	491	494	478	486
25	514	480	501	518	478	501	512	482	498	502	471	485
26	530	480	508	510	480	496	502	474	491	486	431	473
27	514	480	498	510	482	499	502	462	480	433	408	445
28	502	478	490	518	494	508	542	504	528	431	364	409
29	502	460	494	518	486	505	557	510	537	439	392	418
30	510	494	502	525	494	509	557	510	535	463	439	446
31	---	---	---	533	510	520	557	510	533	---	---	---
MONTH	574	294	487	544	400	479	557	346	510	565	324	497
YEAR	704	256	500									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	8.40	8.20	8.30	---	---	---	8.30	8.30	8.30
2	---	---	---	8.20	8.20	8.20	---	---	---	8.30	8.20	8.30
3	---	---	---	8.20	8.10	8.20	---	---	---	8.20	8.20	8.20
4	---	---	---	8.20	8.10	8.20	7.90	7.90	7.90	8.30	8.20	8.30
5	---	---	---	8.20	8.20	8.20	7.90	7.90	7.90	8.30	8.20	8.30
6	---	---	---	8.30	8.20	8.20	8.00	7.90	7.90	8.30	8.20	8.30
7	---	---	---	8.30	8.20	8.20	8.00	8.00	8.00	8.40	8.30	8.30
8	---	---	---	8.40	8.20	8.30	8.10	8.00	8.10	8.40	8.30	8.40
9	---	---	---	8.40	8.30	8.30	8.10	8.10	8.10	8.30	8.30	8.30
10	---	---	---	8.30	8.20	8.30	8.10	8.10	8.10	8.30	8.20	8.30
11	8.30	8.10	8.20	8.20	7.90	8.10	8.10	8.00	8.10	8.30	8.20	8.30
12	8.50	8.10	8.30	8.10	8.00	8.00	8.20	8.00	8.10	8.30	8.20	8.20
13	8.50	8.00	8.30	8.10	8.10	8.10	8.20	8.20	8.20	8.30	8.30	8.30
14	8.40	8.00	8.20	8.10	8.10	8.10	8.20	8.20	8.20	8.30	8.30	8.30
15	8.30	8.00	8.20	8.10	8.00	8.10	8.20	8.20	8.20	8.30	8.30	8.30
16	8.40	8.10	8.20	8.10	7.90	7.90	8.20	8.20	8.20	8.30	8.30	8.30
17	8.50	8.10	8.30	8.00	7.90	8.00	8.20	8.20	8.20	8.30	8.30	8.30
18	8.50	8.10	8.30	8.20	8.00	8.10	8.20	8.20	8.20	8.30	8.30	8.30
19	8.20	8.00	8.10	8.10	8.00	8.10	8.20	8.20	8.20	8.30	8.20	8.20
20	8.10	8.00	8.00	7.90	7.90	7.90	8.20	8.20	8.20	8.40	8.30	8.30
21	8.10	8.00	8.10	7.90	7.90	7.90	8.30	8.20	8.20	8.40	8.20	8.40
22	8.20	8.10	8.20	7.90	7.90	7.90	8.30	8.20	8.20	8.40	8.30	8.30
23	8.20	8.10	8.20	7.90	7.90	7.90	8.30	8.20	8.20	8.40	8.30	8.40
24	8.20	8.10	8.10	7.90	7.90	7.90	8.30	8.20	8.30	8.40	8.30	8.30
25	8.30	8.10	8.20	8.00	7.90	7.90	8.30	8.30	8.30	8.40	8.30	8.30
26	8.30	8.10	8.20	8.00	8.00	8.00	8.30	8.20	8.30	8.40	8.30	8.30
27	8.30	8.20	8.20	---	---	---	8.30	8.20	8.20	8.50	8.40	8.40
28	8.40	8.20	8.30	---	---	---	8.20	8.20	8.20	8.50	8.40	8.40
29	8.40	8.20	8.30	---	---	---	8.20	8.20	8.20	8.40	8.30	8.40
30	8.40	8.20	8.30	---	---	---	8.30	8.20	8.20	8.40	8.30	8.30
31	8.40	8.20	8.30	---	---	---	8.30	8.30	8.30	8.40	8.30	8.40
MONTH	8.50	8.00	8.21	8.40	7.90	8.09	8.30	7.90	8.16	8.50	8.20	8.31

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03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.40	8.30	8.40	8.20	8.10	8.20	8.30	8.00	8.20	8.30	7.90	8.00
2	8.40	8.30	8.40	8.20	8.10	8.10	8.10	8.00	8.00	8.50	8.00	8.10
3	8.40	8.30	8.40	8.10	8.10	8.10	---	---	---	8.40	8.00	8.20
4	8.30	8.00	8.10	8.20	8.10	8.20	---	---	---	8.40	8.00	8.20
5	8.10	8.00	8.10	8.20	8.20	8.20	---	---	---	8.40	8.00	8.20
6	8.20	8.10	8.10	8.20	8.20	8.20	---	---	---	8.30	8.00	8.10
7	8.10	8.00	8.00	8.30	8.20	8.30	---	---	---	8.30	7.90	8.10
8	8.10	8.00	8.00	8.30	8.30	8.30	---	---	---	8.10	7.80	7.90
9	8.10	8.10	8.10	8.30	8.20	8.30	---	---	---	8.30	7.80	8.00
10	8.10	8.10	8.10	8.30	8.20	8.20	8.30	8.20	8.20	8.30	7.90	8.10
11	8.10	8.10	8.10	8.20	8.00	8.10	8.30	8.00	8.20	8.30	8.00	8.10
12	8.20	8.00	8.10	8.20	8.10	8.20	8.30	8.00	8.10	8.30	8.00	8.20
13	8.30	8.00	8.10	8.20	7.90	8.00	8.20	7.90	8.10	8.30	8.00	8.10
14	8.20	8.10	8.20	8.00	7.80	8.00	8.20	7.90	8.10	8.20	8.00	8.10
15	8.20	8.10	8.20	8.10	7.90	8.00	8.20	7.90	8.00	8.10	7.90	8.00
16	8.20	8.20	8.20	8.00	7.80	7.90	8.20	8.00	8.10	---	---	---
17	8.20	7.90	8.10	8.00	8.00	8.00	8.20	8.00	8.10	---	---	---
18	8.20	8.10	8.10	8.00	7.90	8.00	8.30	8.00	8.20	---	---	---
19	8.30	8.00	8.10	8.00	8.00	8.00	8.20	8.00	8.10	---	---	---
20	8.10	7.90	8.10	8.10	8.00	8.00	8.20	7.90	8.10	8.10	8.00	8.10
21	8.10	8.00	8.00	8.10	8.00	8.10	8.30	8.10	8.20	8.20	8.00	8.10
22	8.10	8.00	8.10	8.80	8.00	8.10	---	---	---	8.30	8.00	8.10
23	8.10	8.00	8.00	8.10	8.00	8.00	---	---	---	8.60	8.10	8.30
24	8.20	8.00	8.10	8.30	8.00	8.10	---	---	---	9.00	8.30	8.70
25	8.20	8.10	8.20	8.10	8.00	8.00	---	---	---	8.80	8.50	8.70
26	8.20	8.10	8.20	8.10	8.00	8.00	---	---	---	9.60	8.40	8.50
27	8.20	8.20	8.20	8.20	8.00	8.10	---	---	---	8.60	8.30	8.40
28	8.20	8.20	8.20	8.20	8.10	8.20	---	---	---	8.80	8.40	8.60
29	---	---	---	8.30	8.10	8.20	8.30	8.10	8.20	8.70	8.00	8.30
30	---	---	---	8.30	8.10	8.20	8.30	7.90	8.10	8.00	7.70	7.90
31	---	---	---	8.30	8.10	8.20	---	---	---	8.00	7.80	7.90
MONTH	8.40	7.90	8.14	8.60	7.80	8.11	8.30	7.90	8.13	9.00	7.70	8.19

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.10	7.90	8.00	8.20	7.80	8.00	8.10	7.90	8.00	8.00	7.80	7.90
2	8.20	8.00	8.10	8.30	7.80	8.00	8.10	7.80	7.90	8.00	7.80	7.90
3	8.20	8.00	8.10	8.30	7.90	8.10	8.10	7.80	8.00	8.00	7.80	7.90
4	8.20	8.00	8.10	8.30	7.90	8.10	8.10	7.80	8.00	8.00	7.80	7.90
5	8.20	7.90	8.10	8.30	7.90	8.10	8.10	7.90	8.00	8.00	7.80	7.90
6	8.10	7.90	8.00	8.40	7.90	8.10	8.00	7.80	7.90	8.00	7.80	7.90
7	---	---	---	8.40	7.90	8.10	8.10	7.80	7.90	8.00	7.80	7.90
8	---	---	---	8.30	7.90	8.10	8.00	7.80	7.90	8.00	7.80	7.90
9	---	---	---	8.20	7.80	8.00	8.00	7.80	7.90	8.10	7.90	8.00
10	8.30	8.10	8.20	8.10	7.80	8.00	7.90	7.80	7.80	8.10	8.00	8.00
11	8.20	8.00	8.10	8.10	7.80	8.00	8.00	7.80	7.90	8.10	8.00	8.00
12	8.00	7.60	7.80	8.10	7.80	7.90	8.00	7.90	8.00	8.10	7.90	8.00
13	8.00	7.80	7.90	8.10	7.80	8.00	8.10	7.90	8.00	8.10	7.90	8.00
14	8.00	7.90	7.90	8.20	7.90	8.00	8.10	7.80	8.00	8.10	7.90	8.00
15	8.20	7.90	8.00	8.20	7.90	8.10	8.00	7.80	7.90	8.10	7.90	8.00
16	8.20	7.90	8.00	8.20	7.90	8.00	8.00	7.80	7.90	8.10	7.90	8.00
17	8.20	7.90	8.10	8.20	7.80	8.00	7.90	7.60	7.70	8.10	7.90	8.00
18	8.20	8.00	8.10	8.20	7.80	8.00	7.80	7.70	7.70	8.00	7.80	7.90
19	8.20	8.00	8.10	8.10	7.80	8.00	7.90	7.70	7.80	8.00	7.80	7.90
20	8.10	7.90	8.00	8.00	7.90	7.90	8.00	7.80	7.90	8.00	7.80	7.90
21	8.10	7.90	8.00	8.00	7.80	7.90	8.00	7.80	7.90	8.00	7.80	7.90
22	8.10	7.90	8.00	8.10	7.80	7.90	8.00	7.80	7.90	8.00	7.80	7.90
23	8.10	7.90	8.00	8.10	7.80	7.90	8.00	7.80	7.90	8.00	7.80	7.90
24	8.20	7.90	8.10	8.00	7.80	7.90	8.00	7.80	7.90	8.00	7.80	7.90
25	8.20	7.90	8.10	8.10	7.80	7.90	8.00	7.80	7.90	8.00	7.80	7.90
26	8.20	7.90	8.00	8.00	7.80	7.90	8.00	7.60	7.90	7.90	7.60	7.80
27	8.20	7.90	8.00	8.10	7.80	7.90	8.00	7.80	7.90	7.90	7.80	7.80
28	8.20	7.80	8.00	8.10	7.80	7.90	8.10	7.90	8.00	7.80	7.70	7.70
29	8.20	7.80	8.00	8.10	7.80	8.00	8.10	8.00	8.00	7.80	7.70	7.80
30	8.30	7.80	8.00	8.10	7.80	8.00	8.00	7.90	8.00	7.90	7.80	7.80
31	---	---	---	8.10	7.80	8.00	8.00	7.80	7.90	---	---	---
MONTH	8.30	7.60	8.03	8.40	7.80	7.99	8.10	7.60	7.91	8.10	7.70	7.91
YEAR	9.00	7.60	8.09									

03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	16.0	14.5	15.0	---	---	---	3.0	2.0	2.5
2	---	---	---	16.0	15.5	15.5	---	---	---	4.0	2.0	3.0
3	---	---	---	15.5	14.0	1[illegible].0	---	---	---	4.5	4.0	4.5
4	---	---	---	13.5	12.0	13.0	7.5	7.0	7.5	4.5	4.0	4.0
5	---	---	---	11.5	11.0	11.5	7.5	7.0	7.0	4.5	2.5	3.5
6	---	---	---	11.5	11.0	11.5	7.0	6.5	7.0	3.0	1.5	2.5
7	---	---	---	11.0	10.0	10.5	7.0	6.0	6.5	2.5	1.0	1.5
8	---	---	---	10.5	9.0	9.5	6.5	5.5	6.0	1.0	.5	1.0
9	---	---	---	10.5	9.5	10.0	6.5	5.5	6.0	1.5	.5	1.0
10	---	---	---	12.5	10.5	11.5	8.5	6.0	7.5	1.5	.5	1.0
11	17.5	17.5	17.5	13.0	12.5	12.5	10.5	8.5	9.5	2.5	.5	1.5
12	19.5	17.0	18.5	13.0	12.0	12.5	9.5	7.0	8.0	4.0	1.5	2.5
13	21.0	18.5	19.5	14.5	13.0	13.5	7.5	7.0	7.5	3.0	1.5	2.5
14	21.0	19.5	20.0	14.5	14.0	14.5	7.0	5.0	6.0	2.0	1.0	1.5
15	20.5	19.0	20.0	14.0	12.5	13.0	5.0	4.0	4.5	2.5	.5	1.5
16	19.0	16.5	18.0	12.5	11.0	11.5	5.0	4.5	5.0	2.5	.5	1.5
17	17.0	14.5	16.0	12.5	11.5	12.0	4.5	3.5	3.5	5.0	2.0	3.5
18	18.0	15.5	17.0	13.0	12.0	12.5	3.0	1.0	2.0	6.5	5.0	5.5
19	18.5	17.5	18.0	14.0	13.0	13.5	2.0	.5	1.5	6.5	4.5	6.0
20	18.0	17.0	17.5	13.5	11.5	12.5	2.5	1.5	2.0	4.0	2.5	3.0
21	17.0	16.0	16.5	11.5	10.5	11.0	2.5	1.0	2.0	3.0	2.0	2.5
22	16.5	16.0	16.0	11.0	10.5	11.0	3.5	1.0	2.5	4.0	2.5	3.5
23	17.5	15.0	16.5	11.0	10.0	10.5	4.5	3.5	4.0	3.5	2.5	3.0
24	19.0	17.5	18.0	11.0	10.5	10.5	5.0	2.5	4.0	5.0	2.5	4.0
25	18.5	16.5	17.5	11.0	10.0	10.0	2.5	1.0	1.5	5.0	4.5	5.0
26	16.0	13.5	15.0	10.0	10.0	10.0	1.5	1.0	1.5	5.0	3.5	4.5
27	15.5	13.0	14.5	---	---	---	2.5	1.5	2.0	3.5	1.5	2.0
28	15.5	14.0	14.5	---	---	---	3.0	1.5	2.0	2.5	1.5	2.0
29	14.0	12.0	13.0	---	---	---	3.5	2.5	3.0	3.0	2.0	2.5
30	13.5	12.5	13.0	---	---	---	3.0	1.5	2.0	4.0	2.0	3.0
31	15.0	12.5	14.0	---	---	---	3.5	2.0	3.0	5.0	3.0	4.0
MONTH	21.0	12.0	16.5	16.0	9.0	12.0	10.5	.5	4.5	6.5	.5	3.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.5	3.0	5.5	4.5	4.0	4.5	18.0	15.5	16.5	19.5	18.0	19.0
2	7.0	6.5	6.5	4.5	4.0	4.5	16.5	15.5	16.0	19.0	16.0	17.5
3	7.0	6.0	6.5	5.0	3.5	4.5	---	---	---	18.0	14.0	16.0
4	7.5	5.0	6.0	5.0	4.0	4.5	---	---	---	19.0	13.5	16.0
5	8.0	7.0	7.5	3.5	3.0	3.5	---	---	---	20.5	15.0	18.0
6	7.5	6.0	6.5	4.0	2.0	3.0	---	---	---	21.5	18.0	20.0
7	7.5	6.0	7.0	4.5	3.0	3.5	---	---	---	23.5	19.0	21.5
8	6.5	5.0	6.0	6.0	3.0	4.5	---	---	---	23.5	20.5	22.0
9	6.0	5.5	6.0	5.5	3.5	5.0	---	---	---	23.0	19.0	21.0
10	6.0	4.5	5.0	5.0	2.5	3.5	11.5	10.5	11.0	23.5	19.0	21.0
11	4.5	3.5	4.0	5.0	3.0	4.0	14.0	9.0	11.5	23.5	19.0	21.5
12	5.5	3.0	3.5	5.0	2.5	3.5	16.0	11.0	13.5	21.5	20.0	21.0
13	10.0	5.5	7.5	6.5	3.0	4.0	---	---	---	21.5	18.5	20.0
14	10.0	5.5	8.0	7.5	4.0	5.0	---	---	---	22.0	19.0	20.5
15	9.5	5.5	8.5	7.0	4.0	5.5	---	---	---	21.0	19.5	20.0
16	10.0	5.0	7.0	9.0	5.0	7.5	---	---	---	---	---	---
17	11.5	5.0	8.5	10.0	8.5	9.0	---	---	---	---	---	---
18	9.0	5.0	7.0	9.5	9.0	9.5	---	---	---	---	---	---
19	8.0	4.0	6.0	14.0	9.5	11.5	---	---	---	---	---	---
20	6.5	4.5	6.0	10.5	8.0	9.0	---	---	---	19.0	17.5	18.5
21	9.5	6.0	7.5	10.0	6.5	8.5	14.0	12.5	13.5	17.5	16.0	16.5
22	9.5	5.5	7.5	11.5	8.5	10.0	---	---	---	17.0	15.0	16.0
23	7.0	4.5	5.5	12.5	9.5	10.5	---	---	---	19.0	15.5	17.0
24	5.5	4.5	5.0	14.0	9.5	11.5	---	---	---	21.0	16.0	18.5
25	5.5	4.5	5.0	13.5	11.0	12.5	---	---	---	21.0	18.0	19.5
26	5.5	3.0	4.5	14.5	12.5	13.5	---	---	---	21.5	18.5	20.0
27	5.0	4.0	5.0	13.5	11.5	12.5	---	---	---	21.5	19.5	20.5
28	5.0	4.5	5.0	12.5	9.5	11.0	---	---	---	23.5	20.0	21.5
29	---	---	---	14.0	10.5	12.5	21.5	19.0	20.5	24.5	21.5	23.0
30	---	---	---	16.5	13.0	14.5	20.0	17.0	19.0	24.5	22.0	23.0
31	---	---	---	18.0	14.5	16.0	---	---	---	25.0	21.5	23.5
MONTH	11.5	3.0	6.0	18.0	2.0	8.0	21.5	9.0	15.0	25.0	13.5	19.5

03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.0	22.0	24.0	24.0	22.5	23.0	27.0	23.0	25.0	23.5	21.0	22.5
2	24.5	21.5	23.0	23.5	22.0	22.5	27.0	23.5	25.5	24.0	21.5	22.5
3	23.5	19.0	21.0	24.0	20.5	22.5	27.5	23.5	25.5	24.5	21.5	23.0
4	23.5	20.5	22.0	25.5	20.5	23.5	27.5	23.0	25.0	25.0	22.5	23.5
5	24.0	21.5	22.5	26.5	22.5	24.5	27.0	22.5	25.0	26.0	23.0	24.5
6	23.5	22.0	22.5	28.5	24.5	26.0	26.5	23.5	25.0	25.0	21.0	23.0
7	---	---	---	29.0	25.0	27.0	27.0	23.5	25.0	23.5	21.0	22.0
8	---	---	---	29.5	25.5	28.0	27.0	24.0	25.5	22.5	19.0	21.0
9	---	---	---	29.0	26.0	27.5	27.5	24.0	26.0	22.0	17.5	20.0
10	25.0	24.0	25.0	28.0	25.5	26.5	26.0	24.5	25.0	22.0	18.0	20.0
11	26.0	23.5	24.5	27.0	25.5	26.0	26.0	22.5	24.5	22.5	20.5	21.5
12	25.0	23.0	24.0	27.5	24.5	26.0	26.0	22.0	24.0	22.0	20.5	21.5
13	23.0	21.0	21.5	26.5	24.5	25.5	25.0	21.5	23.5	22.5	18.5	20.5
14	23.5	20.0	22.0	26.0	24.0	25.0	26.5	22.5	24.5	22.5	19.0	20.5
15	24.0	22.0	23.0	28.0	25.5	26.5	28.0	24.0	26.0	23.0	19.5	21.0
16	27.0	22.5	24.5	28.0	26.0	26.5	27.0	25.0	25.0	22.5	19.5	21.0
17	26.5	24.0	25.0	30.5	26.0	28.0	26.0	24.0	25.0	21.5	18.0	20.0
18	25.0	22.0	23.5	31.0	27.0	29.0	27.0	24.0	25.5	20.5	19.5	20.0
19	25.5	21.0	23.5	31.0	28.0	29.5	27.0	24.0	25.5	22.5	20.0	21.0
20	26.5	22.5	24.5	29.5	20.0	28.5	26.5	24.0	25.0	24.5	21.5	22.5
21	26.5	22.0	24.5	30.5	27.0	28.5	27.0	24.0	25.5	25.5	22.0	23.5
22	27.5	22.5	25.0	29.5	26.5	28.0	28.5	24.5	26.5	25.5	22.0	23.5
23	27.0	1.5	26.0	29.5	26.0	27.5	27.5	25.0	26.0	25.0	23.0	24.0
24	28.0	25.0	26.5	29.5	25.5	27.5	27.0	23.0	25.0	24.5	23.5	24.0
25	26.5	23.0	24.5	30.0	26.5	28.0	26.0	22.0	24.0	26.0	22.5	24.5
26	25.5	21.5	24.0	29.0	27.0	28.0	26.5	22.5	24.5	25.5	23.5	24.5
27	25.5	22.5	24.0	30.5	26.5	28.5	25.5	22.5	24.0	24.5	23.0	23.5
28	26.5	24.0	25.5	29.0	26.5	27.5	22.5	20.5	21.5	25.5	22.5	23.5
29	28.0	24.5	26.5	29.0	26.5	27.5	22.5	18.0	20.0	25.5	23.0	24.5
30	26.5	24.5	25.0	28.5	25.0	27.0	22.5	18.0	20.5	26.0	24.0	25.0
31	---	---	---	26.0	24.0	25.0	23.0	18.5	21.0	---	---	---
MONTH	28.0	19.0	24.0	31.0	20.0	26.5	28.5	18.0	24.5	26.0	17.5	22.5
YEAR	31.0	.5	15.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	13.2	9.4	10.6	---	---	---	16.5	14.0	15.9
2	---	---	---	9.6	8.3	9.0	---	---	---	16.5	15.3	16.0
3	---	---	---	9.5	8.4	9.0	---	---	---	16.9	14.8	15.2
4	---	---	---	9.9	9.2	9.6	13.5	11.5	12.6	---	---	---
5	---	---	---	10.8	9.9	10.5	12.6	10.9	12.0	---	---	---
6	---	---	---	10.7	10.2	10.4	12.2	11.0	11.8	---	---	---
7	---	---	---	10.6	10.3	10.5	12.3	11.4	12.1	--	---	---
8	---	---	---	13.8	11.0	11.7	11.9	11.4	11.5	---	---	---
9	---	---	---	13.0	10.7	11.4	11.6	11.3	11.5	---	---	---
10	---	---	---	12.7	10.2	10.8	11.3	10.2	10.8	---	---	---
11	11.8	9.1	10.6	10.1	8.8	9.7	12.0	10.0	10.7	---	---	---
12	14.0	9.0	11.0	10.1	9.8	9.9	11.7	10.5	11.2	---	---	---
13	13.5	8.6	10.4	9.9	9.6	9.8	11.4	10.6	11.0	---	---	---
14	13.1	8.2	10.1	9.7	9.6	9.6	11.5	10.8	11.2	---	---	---
15	11.6	7.9	9.5	10.3	9.0	9.5	12.2	11.4	11.9	---	---	---
16	13.6	8.7	10.6	10.9	9.1	10.0	12.4	11.9	12.2	---	---	---
17	14.4	9.7	11.4	15.5	9.5	12.1	13.7	11.9	12.6	---	---	---
18	14.7	9.6	11.4	13.2	8.6	10.4	16.3	12.3	14.0	---	---	---
19	10.8	8.6	9.7	---	---	---	16.7	16.1	16.4	---	---	---
20	9.7	8.3	9.0	---	---	---	16.5	14.2	15.7	---	---	---
21	10.2	9.4	9.9	---	---	---	16.2	15.5	15.8	---	---	---
22	10.7	9.9	10.2	---	---	---	15.9	14.6	15.3	---	---	---
23	11.3	10.0	10.5	---	---	---	14.6	13.7	14.2	---	---	---
24	10.6	9.4	9.9	---	---	---	15.4	13.5	14.6	---	---	---
25	11.5	9.3	10.2	---	---	---	16.2	15.5	15.8	---	---	---
26	12.6	10.1	11.1	---	---	---	16.2	15.2	15.8	---	---	--
27	13.4	10.5	11.5	---	---	---	15.8	14.9	15.4	---	---	---
28	13.5	10.4	11.7	---	---	---	15.8	15.0	15.4	---	---	---
29	14.1	10.9	12.2	---	---	---	15.4	15.0	15.1	---	---	---
30	14.0	10.9	12.1	---	---	---	15.8	15.0	15.5	---	---	---
31	14.6	10.5	11.9	---	---	---	15.8	15.2	15.5	---	---	---
MONTH	14.7	7.9	10.7	15.5	8.3	10.3	16.7	10.0	13.5	16.9	14.0	15.7

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03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	12.8	11.0	11.8	---	---	---	1[illegible].8	7.3	8.6
2	---	---	---	16.3	11.8	13.0	---	---	---	1[illegible].1	6.8	8.7
3	---	---	---	16.9	16.0	16.6	---	---	---	11.6	7.7	9.4
4	---	---	---	17.0	16.0	16.7	---	---	---	11.8	7.9	9.5
5	---	---	---	17.4	16.6	17.0	---	---	---	12.8	7.5	9.6
6	---	---	---	17.6	16.5	17.3	---	---	---	11.3	7.0	8.6
7	---	---	---	17.7	14.2	16.4	---	---	---	10.8	6.3	8.0
8	---	---	---	16.0	14.1	14.4	---	---	---	9.0	6.1	7.2
9	---	---	---	15.9	14.0	14.7	---	---	---	10.8	6.7	8.5
10	---	---	---	16.0	12.5	14.2	12.6	10.2	11.4	11.3	7.2	8.9
11	---	---	---	13.8	12.0	13.0	13.8	11.2	12.3	10.7	7.2	8.7
12	---	---	---	16.4	9.8	12.5	14.0	12.1	13.1	10.2	7.2	8.5
13	---	---	---	---	---	---	14.0	12.1	12.9	10.6	7.7	8.9
14	---	---	---	---	---	---	13.8	11.0	12.5	10.[illegible]	7.6	8.6
15	---	---	---	---	---	---	12.2	10.8	11.4	7.8	7.3	7.4
16	---	---	---	---	---	---	13.1	11.3	12.1	---	---	---
17	---	---	---	---	---	---	13.0	11.7	12.3	---	---	---
18	---	---	---	---	---	---	13.2	11.4	12.5	---	---	---
19	---	---	---	---	---	---	11.9	10.3	11.3	---	---	---
20	11.8	10.[illegible]	11.0	---	---	---	---	---	---	9.6	8.3	9.1
21	11.5	10.5	10.9	---	---	---	---	---	---	10.8	8.8	9.7
22	11.8	10.4	10.9	---	---	---	---	---	---	11.5	9.3	10.1
23	11.9	10.1	10.9	---	---	---	---	---	---	---	---	---
24	12.5	8.0	10.5	---	---	---	---	---	---	---	---	---
25	12.6	11.5	12.0	---	---	---	---	---	---	---	---	---
26	12.3	11.9	12.2	---	---	---	---	---	---	---	---	---
27	12.4	11.5	12.2	---	---	---	---	---	---	---	---	---
28	12.5	10.8	11.8	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	10.7	8.2	9.9	10.5	7.3	9.1
30	---	---	---	---	---	---	12.2	7.5	9.5	6.9	6.3	6.6
31	---	---	---	---	---	---	---	---	---	6.8	6.5	6.6
MONTH	12.6	8.0	11.4	17.7	9.8	14.8	14.0	7.5	11.8	12.8	6.1	8.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	6.3	6.9	8.7	5.8	7.0	8.6	5.7	6.8	9.3	6.9	8.0
2	8.5	6.2	7.2	8.9	6.0	7.4	6.6	5.3	6.7	9.3	6.6	7.7
3	9.6	6.5	8.0	9.5	6.6	7.8	8.4	5.2	6.5	9.3	6.7	7.7
4	9.0	6.9	7.8	9.6	6.5	7.8	8.1	5.0	6.3	8.8	6.5	7.4
5	8.8	6.6	7.5	9.0	6.4	7.5	8.0	5.0	6.3	8.9	6.1	7.3
6	7.6	6.3	6.7	9.1	6.2	7.5	7.6	4.9	6.0	9.3	6.4	7.6
7	---	---	---	9.5	6.1	7.5	7.5	4.6	5.8	9.3	6.4	7.6
8	---	---	---	9.2	5.7	7.3	7.5	4.3	5.7	9.8	6.8	8.0
9	---	---	---	8.9	5.6	6.9	7.1	4.4	5.6	10.0	7.3	8.4
10	8.0	5.9	7.1	8.1	5.5	6.8	6.0	4.4	5.1	9.6	7.4	8.3
11	7.3	5.1	6.1	8.0	6.0	6.9	6.8	4.9	5.8	9.0	7.3	8.0
12	5.8	4.7	5.3	8.5	6.2	7.0	7.0	5.0	5.8	8.6	6.7	7.5
13	7.2	5.3	6.5	7.8	6.1	6.9	7.3	5.1	6.0	9.6	7.1	8.1
14	7.4	6.6	7.2	8.3	6.7	7.4	7.0	4.6	5.7	9.6	7.1	8.1
15	8.1	6.2	7.0	8.4	6.5	7.4	6.3	4.0	5.0	10.6	7.1	8.6
16	8.1	6.4	7.1	8.4	6.5	7.3	5.9	3.8	4.7	10.5	7.6	8.8
17	8.3	6.1	7.0	8.7	6.6	7.4	4.8	4.1	4.4	10.5	7.8	9.0
18	8.5	5.9	7.2	8.6	6.2	7.2	5.8	4.0	4.8	8.6	7.5	8.1
19	7.6	5.6	6.7	8.8	5.9	7.1	6.9	4.6	5.6	9.6	7.4	8.3
20	7.6	5.5	6.3	7.6	5.6	6.7	7.3	5.0	6.0	9.1	6.9	7.9
21	7.0	5.0	5.8	8.3	6.0	6.9	7.5	5.3	6.2	9.3	6.7	7.7
22	6.8	4.9	5.8	8.3	5.9	7.0	7.8	5.1	6.3	9.2	6.6	7.7
23	7.2	4.9	5.9	8.4	6.2	7.0	7.2	5.1	6.0	8.7	6.2	7.2
24	9.1	5.5	7.1	8.9	5.6	6.9	7.9	5.5	6.4	7.9	6.2	6.9
25	9.2	5.8	7.2	9.2	5.7	7.1	7.9	5.6	6.5	8.6	6.3	7.2
26	9.4	6.1	7.5	8.3	5.4	6.7	8.1	5.6	6.6	7.7	6.0	6.8
27	9.2	6.0	7.4	8.9	5.4	6.8	6.7	5.5	6.0	7.2	6.4	6.7
28	8.9	5.7	7.0	8.8	5.3	6.7	7.9	6.0	6.9	6.7	6.2	6.5
29	9.3	5.5	7.2	8.9	5.3	6.8	9.9	6.7	8.2	7.2	6.2	6.6
30	9.5	5.5	7.2	8.5	5.3	6.6	9.9	7.6	8.5	7.5	6.0	6.6
31	---	---	---	8.5	5.4	6.7	10.0	7.5	8.5	---	---	---
MONTH	9.6	4.7	6.9	9.6	5.3	7.1	10.0	3.8	6.2	10.6	6.0	7.7
YEAR	17.7	3.8	9.3									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

BEST COPY AVAILABLE

7378

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^2.

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, Aug. 19-27, Aug. 31 to Sept. 4 and Sept. 8-12, 17-21, 25. Records fair. Flow slightly regulated by 8 reservoirs 45 mi to 105 mi upstream from station.

AVERAGE DISCHARGE.--56 years, 4,594 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177,000 ft^3/s Jan. 23, 1937, from rating curve extended above 112,000 ft^3/s; maximum gage height, 26.4 ft Jan. 23, 1937, from floodmarks, and Jan. 23, 1959; minimum daily discharge, 244 ft^3/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, 38,300 ft^3/s Nov. 17, gage height, 17.29 ft; minimum daily, 600 ft^3/s Oct. 1, Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600	853	17700	2470	3010	5260	3080	1800	1900	2780	893	640
2	720	917	10900	2380	3160	4290	2700	1690	1720	2590	848	630
3	866	1200	14600	2300	4260	3990	2400	1850	1640	5560	837	640
4	708	3180	18000	2330	14000	4040	2180	1580	1440	6850	878	700
5	628	3110	17600	2280	23000	4850	2060	1470	1300	5060	820	1100
6	629	2540	16400	2200	25300	5470	1980	1420	1260	3380	785	1830
7	659	2310	13300	2200	29100	7520	2120	1410	1930	2500	753	1060
8	702	2220	8590	2110	26800	7970	2180	1620	5210	2080	8	800
9	714	2220	7020	1950	28600	6630	1950	1550	5060	1840	750	740
10	705	2720	6150	1940	24900	5690	1850	1430	3840	2910	750	700
11	702	11400	5990	1900	21500	7640	1790	1390	3350	2650	778	660
12	705	18900	16300	1890	17100	11700	1730	1490	8700	3390	994	760
13	714	17600	22400	1880	10900	18800	1690	1370	6160	8080	922	1620
14	714	16300	23500	1870	6340	22100	1640	1380	3970	9160	806	1200
15	734	17900	20500	1850	4890	25400	1640	1370	2500	7640	774	929
16	840	28500	16800	1820	4450	26300	1750	1340	1970	5490	744	831
17	930	34400	13000	1850	5690	21500	1690	1380	1780	3910	981	760
18	859	26300	8660	1690	9290	16900	1620	1400	1620	2720	760	720
19	778	19400	5700	2170	10800	11600	1590	1700	1460	2150	700	680
20	886	16900	4440	4430	11400	12200	1560	2090	1380	1880	690	660
21	1370	16800	4210	9320	11100	14700	1760	1910	1410	1720	690	740
22	1440	14300	4290	9220	12300	11500	2330	1910	1380	1580	680	847
23	1070	11900	4420	11800	12000	8510	3820	1830	1280	1440	630	888
24	965	10600	4140	10700	10200	6880	4580	1710	1250	1300	620	876
25	969	10100	3670	8680	8670	5330	4430	1580	1580	1150	630	760
26	1210	8960	3260	6420	7420	4820	3320	1540	1560	1070	600	1060
27	1040	20100	2820	5820	6760	4560	2710	1700	1270	1020	700	6660
28	929	32600	2650	4790	6010	4410	2370	2530	1150	1010	1100	8660
29	876	33600	2520	3660	---	4030	1950	2010	1660	991	1060	8750
30	836	29100	2360	3060	---	3640	1900	2080	1940	962	811	5990
31	842	---	2400	3070	---	3270	---	1930	---	925	690	---
TOTAL	26340	416930	304310	120250	358950	301500	68370	51460	72670	95788	24412	52891
MEAN	850	13900	9816	3879	12820	9726	2279	1660	2422	3090	787	1763
MAX	1440	34400	23500	11800	29100	26300	4580	2530	8700	9160	1100	8750
MIN	600	853	2360	1820	3010	3270	1560	1340	1150	925	600	630

CAL YR 1985	TOTAL	1933654	MEAN	5298	MAX	34400	MIN	460
WTR YR 1986	TOTAL	1893871	MEAN	5189	MAX	34400	MIN	600

000145

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, ≥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, 910 microsiemens Oct. 2; minimum, 400 microsiemens June 12.
pH: Maximum, 9.1 units Aug. 7; minimum 7.2 units Sept. 6.
WATER TEMPERATURES: Maximum, 29.5°C July 19; minimum, 1.5°C Jan. 11.
DISSOLVED OXYGEN: Maximum, ≥20.0 mg/L July 29, 30, Aug. 6, 7; minimum, 3.6 mg/L Oct. 1.

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)	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)
NOV												
13...	1200	17800	390	8.00	19.0	14.5	55	10.3	103	36000	13000	45
MAR												
06...	1000	5400	650	8.10	1.0	4.0	21	12.4	98	960	450	73
MAY												
21...	0900	1830	725	8.10	16.0	18.0	20	6.5	71	800	190	77
JUL												
28...	1040	947	730	8.90	30.0	27.0	8.0	9.8	128	60	960	78

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	ALKA-LINITY LAB (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)	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)
NOV												
13...	16	13	116	51	25	0.3	6.5	254	3.10	0.05	1.6	0.42
MAR												
06...	26	23	184	86	46	0.3	6.8	381	5.00	0.26	0.9	0.31
MAY												
21...	26	35	188	120	49	0.4	3.8	455	3.70	0.09	1.3	0.46
JUL												
28...	27	45	220	110	52	0.4	2.1	478	1.40	0.02	1.8	0.45

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	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)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV											
13...	0.14	0.11	60	1	53	1	<1	1	9	80	7
MAR											
06...	0.18	0.13	30	<1	69	<0.5	<1	2	4	22	1
MAY											
21...	0.29	0.26	20	2	70	<0.5	<1	<1	5	21	3
JUL											
28...	0.21	0.16	--	--	--	--	--	--	--	--	--

DATE	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)	ZINC, DIS-SOLVED (UG/L AS ZN)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)
NOV											
13...	5	5	<0.1	<10	4	<1	<1	770	17	0	153
MAR											
06...	8	12	--	<10	<1	<1	<1	1200	15	43	109
MAY											
21...	16	11	<0.1	<10	2	<1	<1	1600	16	93	53
JUL											
28...	--	--	--	--	--	--	--	--	--	0	172

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	906	892	897							---	---	---
2	910	896	902							---	---	---
3	892	856	869							---	---	---
4	888	870	881							---	---	---
5	884	878	881							---	---	---
6	890	824	865							---	---	---
7	820	794	804							---	---	---
8	798	784	789							---	---	---
9	806	784	793							---	---	---
10	826	806	818							786	780	785
11	830	824	828							798	786	793
12	---	---	---							798	792	795
13	---	---	---							804	794	798
14	---	---	---							810	796	805
15	---	---	---							806	790	799
16	818	808	813							804	794	798
17	808	802	804							808	800	804
18	824	806	817							810	806	808
19	824	782	802							808	788	801
20	784	744	764							784	782	783
21	744	712	727							---	---	---
22	---	---	---							---	---	---
23	---	---	---							---	---	---
24	---	---	---							---	---	---
25	---	---	---							---	---	---
26	---	---	---							---	---	---
27	---	---	---							---	---	---
28	---	---	---							---	---	---
29	---	---	---							---	---	---
30	---	---	---							---	---	---
31	---	---	---							---	---	---
MONTH	910	712	827							810	780	797

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1				---	---	---	642	638	640	718	694	704
2				---	---	---	662	642	653	738	718	727
3				---	---	---	678	660	668	740	712	720
4				---	---	---	690	678	684	716	710	713
5				---	---	---	698	690	694	712	688	700
6				---	---	---	702	694	700	694	684	688
7				---	---	---	710	702	707	704	694	700
8				---	---	---	718	710	716	700	654	678
9				---	---	---	714	700	705	702	690	694
10				---	---	---	702	696	700	734	704	721
11				---	---	---	726	704	717	736	718	729
12				---	---	---	734	724	731	788	720	733
13				---	---	---	736	730	733	754	736	745
14				---	---	---	742	734	739	770	754	760
15				---	---	---	740	734	738	778	712	747
16				---	---	---	744	692	717	710	700	704
17				---	---	---	732	708	717	---	---	---
18				---	---	---	712	694	701	---	---	---
19				---	---	---	712	710	711	---	---	---
20				---	---	---	---	---	---	---	---	---
21				---	---	---	---	---	---	---	---	---
22				---	---	---	---	---	---	---	---	---
23				---	---	---	---	---	---	---	---	---
24				---	---	---	---	---	---	---	---	---
25				---	---	---	---	---	---	---	---	---
26				---	---	---	---	---	---	---	---	---
27				590	584	586	---	---	---	---	---	---
28				600	592	596	---	---	---	---	---	---
29				606	598	601	700	690	694	706	696	700
30				618	608	614	700	690	695	712	672	697
31				638	618	629	---	---	---	716	672	705
MONTH				638	584	606	744	638	703	788	654	714

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	728	716	723	692	644	660	758	744	750	816	760	785
2	730	726	728	640	610	615	774	754	766	778	762	771
3	732	722	728	610	524	584	798	772	787	842	766	804
4	762	732	745	582	518	553	802	784	795	862	844	852
5	780	748	758	586	528	563	800	786	795	866	730	799
6	784	732	752	616	588	604	808	784	799	816	728	781
7	788	740	757	654	616	630	788	766	779	---	---	---
8	796	576	691	672	656	667	790	772	782	---	---	---
9	586	564	574	672	668	670	802	792	797	---	---	---
10	636	582	606	672	646	663	---	---	---	---	---	---
11	662	640	654	658	542	584	---	---	---	---	---	---
12	662	400	499	574	542	556	828	808	810	---	---	---
13	510	402	462	556	456	493	816	798	809	---	---	---
14	556	512	529	472	446	459	830	814	824	---	---	---
15	630	558	596	516	468	488	834	814	826	---	---	---
16	668	632	654	550	518	538	812	786	796	---	---	---
17	700	670	686	572	552	559	798	668	737	---	---	---
18	716	698	706	608	574	590	788	680	737	---	---	---
19	730	716	721	650	610	626	834	794	817	---	---	---
20	748	734	740	672	652	664	846	824	837	---	---	---
21	774	744	760	696	672	686	846	310	821	---	---	---
22	790	772	783	712	694	706	866	848	858	---	---	---
23	796	772	736	710	700	706	868	842	857	---	---	---
24	798	760	782	708	700	704	860	834	849	---	---	---
25	770	760	764	734	704	717	844	826	836	864	856	858
26	790	768	779	734	720	729	868	844	858	862	810	852
27	778	740	762	746	732	741	908	856	876	788	574	681
28	746	716	733	744	728	736	866	836	852	580	486	540
29	738	716	725	758	740	749	844	828	838	484	428	452
30	774	704	752	760	736	749	852	828	843	458	430	450
31	---	---	---	746	732	741	858	816	842	---	---	---
MONTH	798	400	698	760	446	636	908	668	813	866	428	719
YEAR	910	400	726									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.10	8.00	8.00							---	---	---
2	8.20	7.90	8.10							---	---	---
3	8.20	8.00	8.10							---	---	---
4	8.10	7.90	7.90							---	---	---
5	7.90	7.80	7.90							---	---	---
6	7.90	7.80	7.90							---	---	---
7	8.00	7.90	7.90							---	---	---
8	8.00	7.90	7.90							---	---	---
9	7.90	7.80	7.80							---	---	---
10	7.80	7.60	7.70							7.90	7.60	7.70
11	7.60	7.50	7.60							7.90	7.50	7.70
12	7.70	7.70	7.70							7.70	7.50	7.60
13	---	---	---							7.90	7.30	7.60
14	---	---	---							7.60	7.50	7.50
15	---	---	---							7.80	7.50	7.60
16	7.90	7.90	7.90							7.70	7.60	7.70
17	7.90	7.90	7.90							7.80	7.60	7.70
18	7.90	7.70	7.80							7.80	7.70	7.70
19	7.70	7.60	7.70							7.80	7.60	7.70
20	7.70	7.60	7.60							7.70	7.60	7.70
21	7.60	7.60	7.60							---	---	---
22	---	---	---							---	---	---
23	---	---	---							---	---	---
24	---	---	---							---	---	---
25	---	---	---							---	---	---
26	---	---	---							---	---	---
27	---	---	---							---	---	---
28	---	---	---							---	---	---
29	---	---	---							---	---	---
30	---	---	---							---	---	---
31	---	---	---							---	---	---
MONTH	8.20	7.50	7.83							7.90	7.30	7.65

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03234500 SCIOTO RIVER AT HIGBY, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1				---	---	---	8.00	7.90	7.90	8.20	8.00	8.10
2				---	---	---	8.00	7.90	7.90	8.20	8.00	8.10
3				---	---	---	..90	7.90	7.90	8.40	8.20	8.30
4				---	---	---	8.00	7.90	7.90	8.40	8.10	8.20
5				---	---	---	8.00	7.90	7.90	8.40	8.10	8.20
6				---	---	---	8.00	7.90	7.90	8.50	8.30	8.40
7				---	---	---	8.10	7.90	8.00	8.50	8.20	8.30
8				---	---	---	8.10	7.90	8.00	8.40	8.10	8.30
9				---	---	---	8.00	8.00	8.00	8.40	8.10	8.30
10				---	---	---	8.20	8.00	8.10	8.50	8.10	8.30
11				---	---	---	8.40	8.10	8.20	8.50	8.20	8.30
12				---	---	---	8.40	8.10	8.30	8.30	8.20	8.20
13				---	---	---	8.50	8.10	8.30	8.20	8.00	8.10
14				---	---	---	8.60	8.20	8.40	8.00	7.90	8.00
15				---	---	---	8.40	8.20	8.40	8.00	7.80	7.90
16				---	---	---	8.30	8.10	8.20	7.90	7.70	7.80
17				---	---	---	8.10	8.00	8.10	---	---	---
18				---	---	---	8.30	8.10	8.20	---	---	---
19				---	---	---	8.20	8.20	8.20	---	---	---
20				---	---	---	---	---	---	---	---	---
21				---	---	---	---	---	---	---	---	---
22				---	---	---	---	---	---	---	---	---
23				---	---	---	---	---	---	---	---	---
24				---	---	---	---	---	---	---	---	---
25				---	---	---	---	---	---	---	---	---
26				---	---	---	---	---	---	---	---	---
27				7.90	7.80	7.90	---	---	---	---	---	---
28				7.90	7.90	7.90	---	---	---	---	---	---
29				7.90	7.80	7.90	8.40	8.00	8.30	7.80	7.70	7.80
30				8.00	7.90	7.90	8.30	3.10	8.20	7.90	7.80	7.80
31				8.00	7.90	7.90	---	---	---	7.90	7.80	7.90
MONTH				8.00	7.80	7.90	8.60	7.90	8.11	8.50	7.70	8.12

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.00	7.80	7.90	7.90	7.90	7.90	8.80	8.70	8.80	8.00	7.80	7.90
2	8.20	8.00	8.10	7.90	7.80	7.80	8.80	8.70	8.70	7.80	7.50	7.70
3	8.40	8.10	8.30	7.90	7.60	7.70	8.80	8.70	8.70	7.80	7.30	7.60
4	8.30	8.10	8.20	7.90	7.70	7.80	8.90	8.70	8.80	7.60	7.40	7.50
5	8.30	8.10	8.20	7.90	7.80	7.80	8.90	8.90	8.90	7.50	7.20	7.40
6	8.70	8.30	8.50	7.90	7.80	7.90	9.00	8.90	8.90	7.70	7.20	7.50
7	8.70	8.10	8.50	7.90	7.90	7.90	9.10	8.90	9.00	---	---	---
8	8.00	7.60	7.70	8.00	8.00	8.00	9.00	8.80	8.90	---	---	---
9	7.70	7.70	7.70	8.10	8.00	8.00	8.80	8.70	8.70	---	---	---
10	7.80	7.70	7.80	8.00	7.70	7.90	---	---	---	---	---	---
11	7.90	7.80	7.80	7.70	7.40	7.50	---	---	---	---	---	---
12	7.80	7.60	7.70	7.50	7.40	7.50	8.60	8.50	8.60	---	---	---
13	7.70	7.60	7.70	7.50	7.50	7.50	8.70	8.30	8.60	---	---	---
14	7.90	7.80	7.80	7.50	7.50	7.50	8.50	8.20	8.40	---	---	---
15	7.90	7.80	7.80	7.60	7.50	7.60	8.50	8.20	8.40	---	---	---
16	7.90	7.80	7.80	7.80	7.60	7.70	8.40	8.20	8.30	---	---	---
17	8.00	7.80	7.90	7.80	7.80	7.80	8.40	8.10	8.30	---	---	---
18	8.10	8.00	8.10	7.90	7.80	7.90	8.50	8.20	8.30	---	---	---
19	8.30	8.10	8.20	8.00	7.90	7.90	8.50	8.30	8.40	---	---	---
20	8.40	8.20	8.20	8.20	8.00	8.10	8.60	8.30	8.40	---	---	---
21	8.60	8.30	8.40	8.20	8.10	8.10	8.50	8.20	8.40	---	---	---
22	8.70	8.40	8.50	8.30	8.10	8.20	8.30	8.10	8.20	---	---	---
23	8.90	8.50	8.70	8.60	8.30	8.40	8.30	8.10	8.20	---	---	---
24	9.00	8.60	8.80	8.70	8.50	8.60	8.50	8.20	8.30	---	---	---
25	9.00	8.80	8.90	8.60	8.50	8.60	8.50	8.40	8.50	7.90	7.80	7.90
26	8.90	8.60	8.70	8.70	8.60	8.70	8.60	8.30	8.50	7.90	7.80	7.80
27	8.70	8.40	8.50	8.80	8.70	8.70	8.50	8.30	8.40	7.90	7.50	7.70
28	8.60	8.50	8.60	8.90	8.80	8.80	8.50	8.40	8.50	7.70	7.60	7.70
29	8.60	8.30	8.40	9.00	8.70	8.80	8.50	8.10	8.30	7.70	7.60	7.70
30	8.30	7.90	8.10	9.00	8.80	8.90	8.20	7.80	8.10	7.70	7.60	7.70
31	---	---	---	8.90	8.80	8.90	8.10	7.80	7.90	---	---	---
MONTH	9.00	7.60	8.18	9.00	7.40	8.08	9.10	7.80	8.50	8.00	7.20	7.68
YEAR	9.10	7.20	8.09									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

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03234500 SCIOTO RIVER AT HIGBY, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	16.5	17.5							---	---	---
2	17.5	15.5	16.5							---	---	---
3	16.5	15.5	16.0							---	---	---
4	18.0	15.5	16.5							---	---	---
5	16.5	15.0	16.0							---	---	---
6	15.5	14.0	15.0							---	---	---
7	16.0	13.0	14.5							---	---	---
8	16.5	14.0	15.0							---	---	---
9	17.5	15.0	16.0							---	---	---
10	18.5	16.0	17.5							2.5	2.0	2.5
11	18.5	18.0	18.0							3.0	1.5	2.5
12	18.0	18.0	18.0							4.0	3.0	3.5
13	---	---	---							4.0	3.0	3.5
14	---	---	---							2.5	2.5	2.5
15	---	---	---							3.0	2.0	2.5
16	19.5	18.0	19.0							3.0	2.0	2.5
17	18.0	16.5	17.5							5.5	3.0	4.0
18	18.5	17.0	17.5							6.5	5.5	6.0
19	18.5	18.0	18.5							7.0	5.5	6.5
20	18.5	18.0	18.5							5.5	4.5	4.5
21	18.0	17.0	17.5							---	---	---
22	---	---	---							---	---	---
23	---	---	---							---	---	---
24	---	---	---							---	---	---
25	---	---	---							---	---	---
26	---	---	---							---	---	---
27	---	---	---							---	---	---
28	---	---	---							---	---	---
29	---	---	---							---	---	---
30	---	---	---							---	---	---
31	---	---	---							---	---	---
MONTH	19.5	13.0	17.0							7.0	1.5	3.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	17.0	14.5	15.5	19.5	18.5	18.5
2				---	---	---	17.0	15.0	16.0	18.5	16.5	17.5
3				---	---	---	16.5	14.5	15.5	18.0	15.5	17.0
4				---	---	---	17.5	15.5	16.5	18.0	15.0	16.5
5				---	---	---	17.5	16.5	17.0	19.0	16.0	17.5
6				---	---	---	17.5	16.0	17.0	20.0	18.5	19.0
7				---	---	---	18.5	16.0	17.0	21.5	19.0	20.0
8				---	---	---	17.5	16.0	17.0	23.0	20.5	21.5
9				---	---	---	16.0	12.5	14.0	23.0	20.0	21.5
10				---	---	---	12.0	11.5	12.0	23.0	20.5	21.5
11				---	---	---	13.5	10.5	12.0	23.0	20.5	22.0
12				---	---	---	15.0	12.0	13.5	22.5	21.0	21.5
13				---	---	---	16.5	13.5	15.0	21.5	20.5	21.0
14				---	---	---	16.5	14.0	15.5	21.5	20.5	21.0
15				---	---	---	16.0	14.0	15.0	22.5	18.0	20.5
16				---	---	---	13.5	10.5	12.0	22.5	21.5	22.0
17				---	---	---	12.5	9.5	11.0	---	---	---
18				---	---	---	14.0	10.5	12.5	---	---	---
19				---	---	---	13.0	13.0	13.0	---	---	---
20				---	---	---	---	---	---	---	---	---
21				---	---	---	---	---	---	---	---	---
22				---	---	---	---	---	---	---	---	---
23				---	---	---	---	---	---	---	---	---
24				---	---	---	---	---	---	---	---	---
25				---	---	---	---	---	---	---	---	---
26				---	---	---	---	---	---	---	---	---
27				12.5	11.5	12.0	---	---	---	---	---	---
28				12.5	10.5	11.5	---	---	---	---	---	---
29				13.5	11.0	12.0	20.0	18.0	19.5	24.0	22.0	23.0
30				15.0	12.0	13.5	19.5	18.0	19.0	24.5	22.0	23.5
31				16.5	13.5	15.0	---	---	---	25.5	23.0	24.0
MONTH				16.5	10.5	13.0	20.0	9.5	15.0	25.5	15.0	20.5

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	23.5	24.5	25.0	23.5	24.0	26.5	24.5	25.5	23.5	21.5	22.5
2	25.0	23.0	23.5	23.5	23.0	23.5	26.5	25.0	26.0	23.5	22.0	22.5
3	23.5	20.5	22.0	24.0	22.0	23.0	26.5	25.0	26.0	23.5	22.0	23.0
4	23.5	22.0	23.0	23.5	21.5	22.5	26.5	24.5	25.5	24.0	22.5	23.5
5	24.0	22.5	23.0	25.0	22.0	23.0	26.5	24.0	25.5	25.5	22.5	24.0
6	24.0	23.0	23.5	26.5	23.5	25.0	26.0	24.5	25.5	24.0	22.0	22.5
7	25.5	23.5	24.5	27.5	25.0	26.0	26.0	24.5	25.0	---	---	---
8	25.0	24.0	24.5	28.5	26.0	27.0	26.0	24.5	25.0	---	---	---
9	25.5	23.0	24.0	28.0	26.5	27.5	26.5	24.5	25.5	---	---	---
10	24.5	23.5	24.0	27.5	26.0	27.0	---	---	---	---	---	---
11	25.5	23.5	24.5	27.0	25.5	26.0	---	---	---	---	---	---
12	24.5	23.5	24.0	26.5	25.0	25.5	25.5	23.5	24.5	---	---	---
13	23.5	22.5	23.0	26.0	24.0	24.5	25.0	23.0	24.0	---	---	---
14	24.5	21.5	23.0	24.5	23.0	23.5	26.0	23.5	24.5	---	---	---
15	25.5	23.0	24.0	25.5	23.5	24.5	27.0	24.5	25.5	---	---	---
16	26.0	23.5	25.0	26.0	24.5	25.0	26.5	25.5	26.0	---	---	---
17	26.0	24.0	25.0	27.5	25.0	26.0	26.0	25.0	25.5	---	---	---
18	25.0	22.5	24.0	29.0	26.5	27.5	27.0	24.5	25.5	---	---	---
19	25.0	22.5	24.0	29.5	27.0	28.5	27.0	25.0	26.0	---	---	---
20	26.0	23.5	24.5	29.0	28.0	28.5	26.0	25.0	25.5	---	---	---
21	26.0	23.5	24.5	29.0	27.0	28.0	26.5	24.5	25.5	---	---	---
22	27.0	24.0	25.5	29.0	27.0	28.0	27.5	25.0	26.0	---	---	---
23	28.0	26.0	27.0	29.0	26.5	28.0	27.0	25.5	26.0	---	---	---
24	27.5	26.0	27.0	28.5	26.0	27.5	26.5	23.5	25.0	---	---	---
25	26.5	24.5	25.5	29.0	26.5	27.5	26.0	23.0	24.5	25.5	24.5	25.0
26	26.0	23.5	25.0	28.5	27.0	28.0	26.0	23.5	25.0	25.5	24.0	24.5
27	26.0	24.0	25.0	29.0	27.0	28.0	25.0	23.5	24.5	24.5	23.0	24.0
28	26.5	24.5	25.5	28.5	27.0	27.5	23.0	21.5	22.5	24.0	22.5	23.0
29	27.0	24.5	26.0	28.0	26.5	27.5	22.5	20.0	21.0	24.0	23.0	23.5
30	26.5	25.0	25.5	28.0	25.5	26.5	22.5	19.5	21.0	24.5	23.5	24.0
31	---	---	---	27.0	25.0	26.0	23.0	20.0	21.5	---	---	---
MONTH	28.0	20.5	24.5	29.5	21.5	26.0	27.5	19.5	25.0	25.5	21.5	23.5
YEAR	29.5	1.5	21.0									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.2	9.2	10.1							---	---	---
2	14.4	8.6	11.1							---	---	---
3	13.5	10.2	11.8							---	---	---
4	13.1	9.2	10.9							---	---	---
5	11.2	9.1	10.1							---	---	---
6	11.5	8.9	10.2							---	---	---
7	12.8	9.8	11.2							---	---	---
8	13.0	10.1	11.5							---	---	---
9	12.5	10.0	11.2							---	---	---
10	11.4	9.3	10.3							14.7	14.4	14.6
11	9.5	3.2	8.6							14.4	14.1	14.3
12	---	---	---							14.2	14.0	14.1
13	---	---	---							13.9	13.7	13.8
14	---	---	---							14.0	13.7	13.8
15	9.4	8.1	9.0							14.3	13.9	14.1
16	9.9	8.7	9.4							14.5	14.0	14.2
17	10.3	8.7	9.4							14.2	13.8	14.0
18	9.5	8.5	9.0							13.8	13.0	13.4
19	8.6	7.5	8.1							13.1	12.6	12.8
20	8.0	7.1	7.6							13.2	12.7	12.9
21	7.7	7.3	7.5							---	---	---
22	---	---	---							---	---	---
23	---	---	---							---	---	---
24	---	---	---							---	---	---
25	---	---	---							---	---	---
26	---	---	---							---	---	---
27	---	---	---							---	---	---
28	---	---	---							---	---	---
29	---	---	---							---	---	---
30	---	---	---							---	---	---
31	---	---	---							---	---	---
MONTH	14.4	7.1	9.8							14.7	12.6	13.8

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	9.5	8.9	9.2	11.2	8.8	10.1
2				---	---	---	9.5	8.8	9.1	12.0	8.9	10.4
3				---	---	---	9.5	8.8	9.2	13.7	9.4	11.4
4				---	---	---	9.7	8.6	9.1	12.9	9.8	11.4
5				---	---	---	9.4	8.2	8.9	13.3	9.8	11.4
6				---	---	---	9.9	8.4	9.1	14.1	9.6	11.6
7				---	---	---	10.8	8.5	9.6	15.3	9.2	11.7
8				---	---	---	10.7	8.6	9.7	13.2	7.6	10.4
9				---	---	---	9.8	8.9	9.4	12.7	8.0	10.2
10				---	---	---	12.0	9.4	10.8	14.2	8.4	10.9
11				---	---	---	14.0	10.4	12.0	14.5	8.7	11.3
12				---	---	---	14.9	10.5	12.6	11.2	8.6	9.9
13				---	---	---	15.4	10.6	12.9	10.4	7.4	8.9
14				---	---	---	16.0	10.9	13.3	9.0	7.2	8.2
15				---	---	---	13.5	10.6	12.2	8.0	6.3	7.2
16				---	---	---	11.8	10.2	10.8	7.5	5.9	6.3
17				---	---	---	11.0	9.4	10.2	---	---	---
18				---	---	---	11.6	9.7	10.5	---	---	---
19				---	---	---	10.3	10.2	10.2	---	---	---
20				---	---	---	---	---	---	---	---	---
21				---	---	---	---	---	---	---	---	---
22				---	---	---	---	---	---	---	---	---
23				---	---	---	---	---	---	---	---	---
24				---	---	---	---	---	---	---	---	---
25				---	---	---	---	---	---	---	---	---
26				---	---	---	---	---	---	---	---	---
27				10.2	10.0	10.1	---	---	---	---	---	---
28				10.1	9.8	9.9	---	---	---	---	---	---
29				9.8	9.5	9.7	15.2	9.8	13.2	7.1	6.1	6.7
30				9.7	9.4	9.6	13.4	9.6	11.6	7.5	6.2	6.7
31				9.6	9.2	9.4	---	---	---	7.3	6.1	6.7
MONTH				10.2	9.2	9.7	16.0	8.2	10.7	15.3	5.9	9.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	5.9	6.9	6.7	5.7	6.1	16.8	9.2	12.8	12.7	8.9	10.9
2	9.2	6.5	7.6	6.7	6.2	6.4	17.4	8.7	12.5	10.5	7.3	8.7
3	12.5	7.4	9.4	6.5	5.1	6.0	16.8	8.7	12.5	8.2	6.3	7.0
4	10.3	8.0	9.1	7.2	6.2	6.6	19.8	9.2	14.1	7.6	6.0	6.6
5	11.6	8.1	9.6	7.1	6.9	7.0	19.8	10.1	14.9	8.0	6.1	6.8
6	14.1	9.6	11.5	7.4	6.8	7.0	20.0	10.4	15.3	7.8	5.8	6.3
7	15.2	8.6	11.3	7.9	6.6	7.1	20.0	10.2	15.3	---	---	---
8	7.4	3.6	4.8	8.2	6.5	7.3	18.7	9.8	14.4	---	---	---
9	6.0	5.4	5.7	9.0	6.6	7.6	17.3	8.9	13.0	---	---	---
10	6.3	6.0	6.2	7.9	6.2	6.9	---	---	---	---	---	---
11	6.7	6.0	6.3	6.0	5.1	5.6	---	---	---	---	---	---
12	5.9	4.5	5.4	6.1	5.6	5.9	18.4	9.3	15.3	---	---	---
13	6.3	5.7	6.0	6.1	5.3	5.6	17.1	9.7	13.4	---	---	---
14	6.7	6.3	6.6	6.6	5.9	6.3	17.5	9.6	13.2	---	---	---
15	6.6	6.3	6.4	6.6	6.2	6.4	14.5	9.4	11.8	---	---	---
16	6.8	6.2	6.4	6.2	6.0	6.1	10.4	7.1	8.4	---	---	---
17	7.7	6.2	6.8	6.2	5.8	6.0	8.4	5.9	7.1	---	---	---
18	9.1	6.7	7.7	6.5	5.5	5.9	13.3	6.2	9.2	---	---	---
19	10.9	7.4	8.7	6.9	5.4	6.0	15.2	7.7	11.2	---	---	---
20	11.8	7.8	9.5	7.7	5.6	6.4	14.4	8.5	11.4	---	---	---
21	14.7	8.1	10.6	8.5	6.2	7.1	15.5	8.3	11.7	---	---	---
22	15.9	8.9	11.7	9.7	6.3	7.7	14.9	7.5	10.9	---	---	---
23	19.7	9.5	13.8	12.9	7.1	9.3	12.5	7.5	9.7	---	---	---
24	19.5	9.5	14.1	14.0	8.1	10.6	17.0	7.0	11.2	---	---	---
25	18.2	9.8	13.6	15.5	8.5	11.7	18.0	8.2	12.6	7.7	6.8	7.2
26	17.2	9.2	12.7	14.2	8.6	11.5	14.9	10.3	13.0	7.2	6.1	6.6
27	15.5	8.9	11.9	17.8	8.5	12.4	11.1	6.7	8.1	7.1	3.8	5.4
28	13.7	8.5	11.3	18.6	9.4	13.5	12.4	6.0	8.4	6.3	5.2	5.6
29	13.0	7.9	10.1	20.0	9.2	14.3	12.6	7.9	9.9	6.4	6.1	6.3
30	9.2	6.4	7.4	20.0	9.4	14.4	11.7	7.9	9.7	6.4	6.2	6.3
31	---	---	---	17.6	10.0	13.5	15.1	8.2	11.0	---	---	---
MONTH	19.7	3.6	9.0	20.0	5.1	8.2	20.0	5.9	11.8	12.7	3.8	7.0
YEAR	20.0	3.6	9.8									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

BEST COPY AVAILABLE

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 mi². 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.

REMARKS.--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, 20,020 acre-ft Mar. 13, elevation, 850.84 ft; minimum, 12,570 acre-ft Sept. 1, elevation, 842.36 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 mi². 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 690.36 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.

REMARKS.--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, 5,570 acre-ft Mar. 13, elevation, 758.73 ft; minimum, 3,470 acre-ft Oct. 7, elevation, 752.74 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 mi². 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.

REMARKS.--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, 74,230 acre-ft Mar. 14, elevation, 894.69 ft; minimum, 26,500 acre-ft Nov. 10, elevation, 874.46 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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.....	847.47	16,580	--	753.48	3,720	--	879.69	35,580	--
Oct. 31.....	846.10	15,370	-1,210	754.39	4,030	+310	875.19	27,650	-7,930
Nov. 30.....	849.41	18,480	+3,110	757.11	4,970	+940	890.80	62,310	+34,660
Dec. 31.....	848.16	17,220	-1,260	756.03	4,590	-380	889.77	59,510	-2,800
CAL YR 1985	-	-	-990	-	-	-320	-	-	+16,410
Jan. 31.....	848.62	17,680	+460	755.94	4,560	-30	889.88	59,810	+300
Feb. 28.....	848.49	17,550	-130	756.06	4,600	+40	892.48	67,100	+7,290
Mar. 31.....	848.28	17,340	-210	755.73	4,490	-110	893.00	68,660	+1,560
Apr. 30.....	848.19	17,250	-90	755.69	4,480	-10	891.33	63,790	-4,870
May. 31.....	848.30	17,360	+110	755.[illegible]3	4,520	+40	889.02	57,490	-6,300
June 30.....	848.12	17,180	-180	755.75	4,500	-20	887.37	53,150	-4,340
July 31.....	846.64	15,840	-1,340	755.49	4,410	-90	887.37	53,150	0
Aug. 31.....	842.66	12,780	-3,060	755.37	4,370	-40	882.78	41,880	-11,270
Sept. 30.....	848.79	17,850	+5,070	756.45	4,740	+370	882.12	40,440	-1,440
WTR YR 1986..	--	--	+1,270			+1,020			+4,860

7378

03237280 UPPER TWIN CREEK AT MCGAW, OH

(HYDROLOGIC BENCH-MARK STATION)

LOCATION.--Lat 38°38'37", long 82°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^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 538.41 ft at 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. 23 to Jan. 19, Jan. 28 to Feb. 3, Feb. 13-16, 26-27, and July 1-3. Records poor.

AVERAGE DISCHARGE.--23 years, 13.6 ft^3/s, 15.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft^3/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^3/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^3/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^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 28	0815	450	7.07	June 10	1815	802	8.00
May 8	0115	480	7.24	July 2	0215	*2,300	*10.73
May 14	1000	1,090	8.62				

Minimum daily discharge, 0.02 ft^3/s Oct. 4, 7-12, Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.80	21	1.7	4.5	12	6.4	5.7	6.0	200	.07	.06
2	.06	1.0	16	1.7	5.0	13	6.2	5.3	5.4	700	.06	.06
3	.05	28	11	1.7	6.0	13	5.6	4.3	4.7	30	.06	.06
4	.02	19	9.6	1.7	120	13	5.4	3.9	4.3	5.4	.06	.03
5	.03	31	9.1	1.7	156	13	5.1	3.9	4.0	3.0	.06	.03
6	.03	23	9.0	1.4	80	16	5.1	4.9	6.1	2.0	.06	.03
7	.02	12	8.1	1.1	97	17	5.5	16	6.1	1.4	.05	.03
8	.02	7.8	7.7	1.0	53	16	5.5	153	9.2	1.1	.06	.03
9	.02	5.9	7.6	.98	32	16	5.1	31	6.5	.96	.07	.03
10	.02	4.9	7.2	.96	24	15	4.4	15	117	.83	.06	.03
11	.02	5.6	16	1.0	20	14	3.9	11	84	1.1	.07	.02
12	.02	43	53	1.2	17	18	3.8	8.6	89	2.1	.06	.08
13	.04	25	55	2.4	12	113	3.6	8.3	18	1.4	.06	.04
14	.08	14	49	2.1	11	64	3.2	288	10	1.3	.06	.03
15	.09	10	27	1.8	10	38	3.2	66	7.1	1.3	.08	.03
16	.04	40	19	1.4	9.0	26	3.2	21	5.5	1.2	.10	.08
17	.18	41	15	1.1	116	20	3.2	13	4.5	.90	5.3	.11
18	.27	19	11	1.5	103	18	3.1	10	3.8	.42	1.9	.20
19	.27	13	8.8	2.5	52	61	2.8	8.0	3.3	.12	.95	.27
20	47	9.8	8.7	21	31	36	2.8	6.9	3.2	.09	.64	.27
21	15	7.5	7.9	20	23	24	8.1	6.1	3.1	.06	.39	.25
22	6.0	6.7	7.3	28	19	19	8.7	5.5	2.8	.04	.25	.19
23	3.6	5.7	3.1	30	17	16	8.6	5.1	2.4	.03	.19	.19
24	2.6	5.0	2.7	29	16	14	7.9	5.1	2.2	.07	.13	13
25	2.0	4.4	2.4	27	14	12	7.7	4.7	1.8	.13	.12	3.7
26	1.4	20	2.2	27	11	12	7.6	6.0	1.7	.13	.10	1.5
27	1.2	168	2.0	25	10	11	6.9	73	1.6	.13	.14	9.1
28	1.2	194	1.8	6.2	13	9.2	6.3	33	1.6	.11	.07	5.3
29	1.2	72	1.7	5.6	---	8.7	6.2	15	1.4	.09	.06	2.0
30	.97	32	1.7	5.0	---	8.1	5.6	9.7	1.4	.09	.06	1.2
31	.83	---	1.7	4.5	---	7.1	---	7.3	---	.09	.06	---
TOTAL	84.32	869.10	403.3	257.24	1081.5	693.1	160.7	854.3	417.7	955.59	11.40	37.95
MEAN	2.72	29.0	13.0	8.30	38.6	22.4	5.36	27.6	13.9	30.8	.37	1.26
MAX	47	194	55	30	156	113	8.7	288	117	700	5.3	13
MIN	.02	.80	1.7	.96	4.5	7.1	2.8	3.9	1.4	.03	.05	.02
CFSM	.22	2.38	1.07	.68	3.16	1.84	.44	2.26	1.14	2.52	.03	.10
IN.	.26	2.65	1.23	.78	3.30	2.11	.49	2.60	1.27	2.91	.03	.12

CAL YR 1985	TOTAL	4407.87	MEAN	12.1	MAX	245	MIN	.02	CFSM	.99	IN.	13.44
WTR YR 1986	TOTAL	5826.20	MEAN	16.0	MAX	700	MIN	.02	CFSM	1.31	IN.	17.77

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: March 1985 to current year.
pH: March 1985 to September 1985.
WATER TEMPERATURES: Water years 1963-66, 1967-70, 1972-1982, 1984 to current year.
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, 40 microsiemens July 1, 1986.
pH: Maximum, 7.6 units April 13, 1985; minimum, 5.8 units June 27-31, July 1, 3-5, 1985.
WATER TEMPERATURES: Maximum, 38.5°C July 22, 1986; minimum, 0.6°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 166 microsiemens Oct. 16; minimum, 40 microsiemens July 1.
WATER TEMPERATURE: Maximum, 38.5°C July 22, 1986; minimum, 0.0°C on several days during winter periods.

03237280 UPPER CREEK AT MCGAW, OH--Continued

WATER QUALITY DATA

WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

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)	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)
JUL 09...	1130	0.15	125	7.00	28.5	23.5	7.0	7.2	87	K7	210	7.5

DATE	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)	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)
JUL 09...	6.2	3.7	3.0	19	30	2.7	<0.1	11	80	0.30	<0.01	0.1

DATE	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	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)
JUL 09...	0.02	0.02	0.03	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)	SEDI-MENT, SUS-PENDED (MG/L)
JUL 09...	3	<4	5	<0.1	<10	3	<1	<1	55	<6	7	1

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03237280 UPPER TWIN CREEK AT MCGAW OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)	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)
OCT												
16...	1200	0.07	165	7.10	24.0	16.0	0.4	7.5	79	43	92	9.8
NOV												
18...	1150	19	100	6.70	18.5	14.0	37	10.6	105	74	57	5.1
DEC												
16...	1130	0.0	75	6.80	4.0	5.5	1.4	12.1	98	12	12	5.0
JAN												
15...	1100	1.9	85	6.60	2.0	2.0	1.1	14.3	106	21	14	5.9
FEB												
12...	1115	17	95	7.30	-2.0	1.5	1.8	13.3	98	52	<1	5.0
MAR												
06...	1100	26	77	6.60	7.0	5.0	23	12.4	99	8	25	4.5
APR												
26...	1120	7.5	100	7.60	17.5	12.5	1.1	10.4	100	30	14	5.9
MAY												
20...	1130	6.7	95	7.40	18.0	15.0	2.0	10.0	102	80	160	5.6
JUN												
11...	1110	70	79	7.40	23.5	18.0	4.0	8.0	87	210	700	4.1
JUL												
29...	1100	0.14	130	6.70	30.0	25.0	1.5	5.4	68	<1	90	8.3
AUG												
21...	1030	0.5	120	6.80	26.5	22.5	0.6	6.6	77	68	270	7.2
SEP												
17...	1030	0.11	145	6.70	17.5	16.5	0.5	8.2	86	3	29	8.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	ALKA-LINITY LAB (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)	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)
OCT												
16...	8.4	4.6	21	42	5.7	<0.1	9.8	97	0.50	<0.01	<0.1	0.05
NOV												
18...	4.2	2.3	25	22	1.9	<0.1	9.9	59	0.52	<0.01	<0.2	<0.01
DEC												
16...	4.1	2.3	7.0	23	2.9	<0.1	10	69	0.38	0.03	0.3	<0.01
JAN												
15...	5.1	3.3	7.0	20	2.8	<0.1	9.0	55	0.30	0.02	0.3	<0.01
FEB												
12...	4.5	2.6	5.0	19	2.1	<0.1	9.5	62	0.47	0.03	0.2	0.02
MAR												
06...	4.3	2.6	5.0	19	2.1	<0.1	9.8	50	0.31	0.03	<0.1	0.04
APR												
26...	5.1	3.4	11	35	1.7	<0.1	9.8	74	0.20	0.03	0.2	<0.01
MAY												
20...	4.8	3.0	12	27	1.4	<0.1	11	64	0.28	<0.01	0.2	0.02
JUN												
11...	3.7	1.9	12	22	1.4	<0.1	10	55	0.26	0.03	0.3	0.01
JUL												
29...	6.9	4.3	20	34	2.7	<0.1	12	84	0.42	0.01	<0.2	<0.01
AUG												
21...	6.2	3.7	18	31	2.3	<0.1	11	75	0.46	0.01	<0.2	<0.01
SEP												
17...	7.1	4.4	18	36	3.5	<0.1	11	92	0.50	0.02	<0.2	0.01

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	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)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT											
16...	<0.01	<0.01	30	<1	40	<0.5	<1	<1	2	30	<1
NOV											
18...	<0.01	0.01	--	--	--	--	--	--	--	--	--
DEC											
16...	0.02	0.02	--	--	--	--	--	--	--	--	--
JAN											
15...	0.02	0.01	10	<1	26	<0.5	<1	1	1	12	<1
FEB											
12...	0.02	<0.01	--	--	--	--	--	--	--	--	--
MAR											
06...	0.01	0.01	--	--	--	--	--	--	--	--	--
APR											
26...	<0.01	<0.01	--	--	--	--	--	--	--	--	--
MAY											
20...	<0.01	<0.01	10	<1	23	<0.5	<1	<1	3	62	3
JUN											
11...	<0.01	<0.01	--	--	--	--	--	--	--	--	--
JUL											
29...	0.04	<0.01	--	--	--	--	--	--	--	--	--
AUG											
21...	<0.01	<0.01	--	--	--	--	--	--	--	--	--
SEP											
17...	0.01	0.01	--	--	--	--	--	--	--	--	--

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0327280 UPPER TWIN CREEK AT MCGAW, OH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	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)	ZINC, DIS-SOLVED (UG/L AS ZN)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)
OCT											
16...	<4	6	<0.1	<10	2	<1	<1	74	10	100	6
NOV											
18...	--	--	--	--	--	--	--	--	--	100	1
DEC											
16...	--	--	--	--	--	--	--	--	--	100	4
JAN											
15...	<4	<1	<0.1	<10	2	<1	<1	45	14	100	8
FEB											
12...	--	--	--	--	--	--	--	--	--	100	2
MAR											
06...	--	--	--	--	--	--	--	--	--	100	26
APR											
26...	--	--	--	--	--	--	--	--	--	100	4
MAY											
20...	<4	3	<0.1	<10	1	<1	<1	42	39	100	2
JUN											
11...	--	--	--	--	--	--	--	--	--	100	6
JUL											
29...	--	--	--	--	--	--	--	--	--	92	31
AUG											
21...	--	--	--	--	--	--	--	--	--	100	18
SEP											
17...	--	--	--	--	--	--	--	--	--	99	25

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	143	137	140	116	115	116	74	71	73	85	83	84
2	145	142	143	117	114	116	76	72	74	84	83	84
3	146	141	144	116	86	97	75	71	73	84	82	83
4	147	143	144	95	89	93	85	71	77	83	82	83
5	147	142	145	95	80	87	88	79	81	84	82	83
6	149	143	147	89	83	86	86	79	83	85	82	84
7	150	145	147	93	89	91	85	76	80	88	83	85
8	149	143	147	95	93	94	85	78	81	92	88	90
9	149	144	147	96	94	95	102	79	86	94	89	91
10	151	148	149	97	95	96	108	83	90	91	86	89
11	152	149	150	98	91	95	94	78	85	90	86	88
12	153	150	151	95	76	85	77	73	74	88	85	86
13	155	149	152	87	82	84	75	72	74	87	85	86
14	155	123	151	90	87	88	75	72	73	88	85	87
15	157	125	149	90	89	90	75	73	74	88	86	87
16	166	157	160	90	72	83	76	71	73	90	87	88
17	162	154	158	81	74	78	73	72	72	88	86	87
18	153	141	146	83	79	82	74	72	73	87	84	85
19	141	136	138	83	81	82	77	72	75	85	81	83
20	136	72	107	84	82	83	73	71	72	85	82	84
21	106	88	98	85	82	84	76	72	73	87	84	86
22	110	106	108	86	83	84	80	73	76	88	81	84
23	113	110	111	87	84	85	74	73	73	81	79	80
24	114	111	111	88	86	87	75	73	74	79	77	78
25	113	111	112	88	86	87	81	74	77	78	77	78
26	113	111	112	88	64	84	82	78	80	78	77	78
27	113	111	112	69	63	65	79	77	78	83	77	80
28	115	112	113	69	55	63	87	77	83	87	81	84
29	115	112	114	71	65	68	89	87	88	82	77	79
30	116	113	114	72	70	71	91	86	88	80	78	79
31	117	113	115	---	---	---	87	84	86	80	78	79
MONTH	166	72	133	118	55	87	108	71	78	94	77	84

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	86	78	81	73	65	68	88	85	87	115	109	113
2	84	81	82	69	64	67	101	87	93	114	108	112
3	82	80	82	69	67	68	95	81	87	109	101	106
4	83	68	73	70	67	68	89	72	77	111	102	107
5	69	64	67	70	65	67	75	63	69	102	89	97
6	71	67	65	78	68	73	68	58	63	100	96	99
7	69	67	68	78	76	77	62	57	59	97	81	91
8	71	69	70	79	74	77	59	54	57	84	74	80
9	72	70	71	78	75	76	58	54	56	79	71	75
10	73	71	72	78	76	77	55	51	53	71	69	70
11	72	70	71	80	78	79	73	52	57	75	69	72
12	86	73	78	81	78	79	86	54	65	76	74	75
13	86	80	82	79	66	70	128	58	84	79	75	77
14	81	78	79	73	70	71	99	86	93	97	78	81
15	78	77	77	76	73	74	93	75	84	83	75	79
16	79	77	78	77	75	76	76	70	72	79	73	77
17	78	59	68	79	77	77	73	66	69	80	72	76
18	65	61	63	79	77	78	90	63	74	82	66	75
19	67	65	66	79	71	74	93	66	79	91	61	76
20	70	67	68	76	74	75	---	---	---	92	90	91
21	70	69	70	76	75	76	---	---	---	94	92	93
22	71	69	70	77	75	76	---	---	---	96	94	94
23	70	68	69	78	76	77	---	---	---	97	95	96
24	69	66	68	79	77	78	125	109	121	98	95	96
25	69	66	67	80	77	79	117	102	109	99	98	98
26	72	68	69	81	79	80	102	96	99	101	87	98
27	73	68	70	82	80	81	113	92	102	86	72	77
28	73	65	69	83	81	82	112	102	106	80	75	77
29	---	---	---	84	82	83	105	93	99	84	80	82
30	---	---	---	86	83	84	112	97	104	88	84	86
31	---	---	---	87	84	85	---	---	---	91	88	89
MONTH	86	59	72	87	64	76	128	51	81	116	61	88

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03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	94	90	92	---	---	---	136	109	130	120	118	120
2	96	93	94	69	40	59	136	130	132	120	118	120
3	98	95	96	78	68	73	135	122	131	120	120	120
4	100	96	98	93	78	85	135	131	132	122	120	121
5	101	96	99	106	93	98	136	132	133	124	122	123
6	99	88	95	101	97	99	135	120	133	124	120	123
7	103	97	101	103	100	101	138	133	135	124	124	124
8	96	93	94	105	103	104	139	136	137	126	124	124
9	100	96	98	107	104	105	147	133	137	126	124	125
10	100	50	84	107	103	106	138	130	135	128	106	124
11	75	64	70	107	101	104	142	137	139	130	126	127
12	75	57	65	102	98	99	---	---	---	158	114	125
13	75	70	73	106	100	104	---	---	---	130	126	128
14	80	75	77	108	104	107	---	---	---	132	130	130
15	84	80	82	114	101	110	---	---	---	134	130	132
16	89	8[illegible]	87	118	100	113	---	---	---	134	132	134
17	93	89	91	122	115	119	---	---	---	136	132	134
18	97	94	95	123	100	117	---	---	---	136	134	135
19	99	96	97	121	113	118	---	---	---	136	134	135
20	99	96	98	122	115	119	112	108	110	136	132	134
21	101	97	99	122	108	119	113	110	111	134	134	134
22	105	101	102	122	100	116	112	110	111	134	132	134
23	107	104	105	122	108	116	113	110	112	134	132	134
24	105	106	108	120	99	111	114	112	113	126	68	91
25	111	108	110	113	92	106	114	100	112	106	92	100
26	111	109	110	[illegible]	82	88	116	113	114	110	90	106
27	---	---	---	8[illegible]	74	79	116	112	114	88	82	85
28	---	---	---	74	65	70	117	113	115	96	86	91
29	---	---	---	68	66	67	117	115	116	102	96	99
30	---	---	---	---	---	---	119	116	117	104	102	103
31	---	---	---	---	---	---	120	118	118	---	---	---
MONTH	111	50	93	123	40	100	147	100	123	158	68	121
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	143	137	140	118	115	116	74	71	73	85	83	84
2	145	142	143	117	114	116	76	72	74	84	83	84
3	146	141	144	116	86	97	75	71	73	84	82	83
4	147	143	144	95	89	93	85	71	77	83	82	83
5	147	142	145	95	80	87	88	79	81	84	82	83
6	149	143	147	89	83	86	86	79	83	85	82	84
7	150	145	147	93	89	91	85	76	80	88	83	85
8	149	143	147	95	93	94	85	78	81	92	88	90
9	149	144	147	96	94	95	102	79	86	94	89	91
10	151	148	149	97	95	96	108	83	90	91	86	89
11	152	149	150	98	91	95	94	78	85	90	86	88
12	153	150	151	95	76	85	77	73	74	88	85	86
13	155	149	152	87	82	84	75	72	74	87	85	86
14	155	123	151	90	87	88	75	72	73	88	85	87
15	157	125	149	90	89	90	75	73	74	88	86	87
16	166	157	160	90	72	83	76	71	73	90	87	88
17	162	154	158	81	74	78	73	72	72	88	86	87
18	153	141	146	83	79	82	74	72	73	87	84	85
19	141	136	138	83	81	82	77	72	75	85	81	83
20	136	72	107	84	82	83	73	71	72	85	82	84
21	106	88	98	85	82	84	76	72	73	87	84	86
22	110	106	108	86	83	84	80	73	76	88	81	84
23	113	110	111	87	84	85	74	73	73	81	79	80
24	114	111	111	88	86	87	75	73	74	79	77	78
25	113	111	112	88	86	87	81	74	77	78	77	78
26	113	111	112	88	64	84	82	78	80	78	77	78
27	113	111	112	69	63	65	79	77	78	83	77	80
28	115	112	113	69	55	63	87	77	83	87	81	84
29	115	112	114	71	65	68	89	87	88	82	77	79
30	116	113	114	72	70	71	91	86	88	80	78	79
31	117	113	115	---	---	---	87	84	86	80	78	79
MONTH	166	72	133	118	55	87	108	71	78	94	77	84

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	86	78	81	73	65	68	88	85	87	116	109	113
2	84	81	82	69	64	67	101	87	93	114	108	112
3	82	80	82	69	67	68	95	81	87	109	101	106
4	83	68	73	70	67	68	89	72	77	111	102	107
5	69	64	67	70	65	67	75	63	69	102	89	97
6	71	67	69	78	68	73	68	58	63	100	96	99
7	69	67	68	78	76	77	62	57	59	97	81	91
8	71	69	70	79	74	77	59	54	57	84	74	80
9	72	70	71	78	75	76	58	54	56	79	71	75
10	73	71	72	78	76	77	55	51	53	71	69	70
11	72	70	71	80	78	79	73	52	57	75	69	72
12	66	73	78	81	78	79	86	54	65	76	74	75
13	86	80	82	79	66	70	128	58	84	79	75	77
14	81	78	79	73	70	71	99	86	93	97	78	81
15	78	77	77	76	73	74	93	75	84	83	75	79
16	79	77	78	77	75	76	76	70	72	79	73	77
17	78	59	68	79	77	77	73	66	69	80	72	76
18	65	61	63	79	77	78	90	63	74	82	66	75
19	67	65	66	79	71	74	93	66	79	91	61	76
20	70	67	68	76	74	75	---	---	---	92	90	91
21	70	69	70	76	75	76	---	---	---	94	92	93
22	71	69	70	77	75	76	---	---	---	96	94	94
23	70	68	69	78	76	77	---	---	---	97	95	96
24	69	66	68	79	77	78	125	109	121	98	95	96
25	69	66	67	80	77	79	117	102	109	99	98	98
26	72	68	69	81	79	80	102	96	99	101	87	98
27	73	68	70	82	80	81	113	92	102	86	72	77
28	73	65	69	83	81	82	112	102	106	80	75	77
29	---	---	---	84	82	83	105	93	99	84	80	82
30	---	---	---	86	83	84	112	97	104	88	84	86
31	---	---	---	87	84	85	---	---	---	91	88	89
MONTH	86	59	72	87	64	76	128	51	81	116	61	89

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	94	90	92	---	---	---	136	109	130	120	118	120
2	96	93	94	69	40	59	136	130	132	120	118	120
3	98	95	96	78	68	73	135	122	131	120	120	120
4	100	96	98	93	78	85	135	131	132	122	120	121
5	101	96	99	106	93	98	136	132	133	124	122	123
6	99	88	95	101	97	99	135	120	133	124	120	123
7	103	97	101	103	100	101	138	133	135	124	124	124
8	96	93	94	105	103	104	139	136	137	126	124	124
9	100	96	98	107	104	105	147	133	137	126	124	125
10	100	50	81	107	103	106	138	130	135	128	106	124
11	75	64	70	107	101	104	142	137	139	130	126	127
12	75	57	65	102	98	99	---	---	---	158	114	125
13	75	70	73	106	100	104	---	---	---	130	126	128
14	80	75	77	108	104	107	---	---	---	132	130	130
15	84	80	82	114	101	110	---	---	---	134	130	132
16	89	85	87	118	100	113	---	---	---	134	132	134
17	93	89	91	122	115	119	---	---	---	136	132	134
18	97	94	95	123	100	117	---	---	---	136	134	135
19	99	96	97	121	113	118	---	---	---	136	134	135
20	99	96	98	122	115	119	112	108	110	136	132	134
21	101	97	99	122	108	119	113	110	111	134	134	134
22	105	101	102	122	100	116	112	110	111	134	132	134
23	107	104	105	122	108	116	113	110	112	134	132	134
24	109	106	108	120	99	111	114	112	113	136	68	91
25	111	108	110	113	92	106	114	100	112	106	92	100
26	111	109	110	93	82	88	116	113	114	110	90	106
27	---	---	---	83	74	79	116	112	114	88	82	85
28	---	---	---	74	65	70	117	113	115	96	86	91
29	---	---	---	68	66	67	117	115	116	102	96	99
30	---	---	---	---	---	---	119	116	117	104	102	103
31	---	---	---	---	---	---	120	118	118	---	---	---
MONTH	111	50	93	123	40	100	147	100	123	158	68	121
YEAR	166	40	94									

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03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	13.5	15.5	16.0	14.0	15.0	11.5	10.5	11.0	2.5	.0	1.0
2	17.0	10.5	14.0	15.5	15.0	15.0	10.0	5.0	7.0	4.0	.5	2.0
3	16.5	12.5	14.5	15.0	13.5	14.0	5.5	4.0	4.5	3.5	3.0	3.0
4	18.0	13.0	15.5	13.5	11.5	12.5	5.0	4.0	4.5	4.0	1.5	3.0
5	16.0	12.5	14.0	12.0	11.5	11.5	5.5	5.0	5.5	3.0	.5	2.0
6	14.0	9.5	11.5	12.5	11.5	12.0	5.5	4.5	5.0	2.5	.5	1.0
7	13.5	7.5	10.5	11.5	10.0	11.0	6.0	4.5	5.0	2.0	.5	1.0
8	15.0	9.5	12.0	12.0	9.0	10.0	5.5	4.0	5.0	1.0	.0	.5
9	17.5	11.5	14.0	11.0	9.0	10.0	7.5	5.0	6.0	1.5	.0	.5
10	19.5	14.0	16.5	13.5	10.0	11.5	8.0	5.0	6.5	1.5	.0	.5
11	20.5	16.0	18.0	14.0	12.5	13.5	9.0	7.0	8.0	1.0	.0	.5
12	21.0	15.5	18.0	14.5	13.0	13.5	9.0	7.5	8.0	2.0	.0	1.0
13	21.0	16.5	18.5	15.0	13.5	14.0	7.5	6.0	7.0	1.0	.0	.5
14	21.5	17.0	19.0	15.5	14.0	14.5	5.5	3.0	4.5	1.5	.0	.5
15	19.5	16.5	18.5	14.5	13.0	13.5	4.5	2.5	3.5	2.0	.0	1.0
16	19.0	15.0	16.5	13.5	12.0	12.5	6.0	4.5	5.0	2.5	.0	1.0
17	18.5	13.0	15.5	12.5	11.0	12.0	4.5	3.5	4.0	4.0	1.0	2.5
18	19.5	15.0	17.0	14.0	11.5	12.5	3.5	.5	2.0	5.0	3.0	4.0
19	18.5	16.0	17.5	14.5	12.5	13.5	1.5	.0	.5	4.5	1.0	3.5
20	17.5	15.5	16.5	13.5	10.0	12.5	2.0	.5	1.0	1.5	.5	1.0
21	15.5	15.0	15.0	10.0	8.5	9.0	1.5	.0	.5	3.0	.0	1.5
22	16.0	15.0	15.5	9.5	8.0	9.0	2.0	.0	1.0	2.5	1.5	2.0
23	18.0	14.5	16.0	9.5	7.0	8.0	3.0	2.0	2.5	3.5	1.0	2.0
24	18.0	16.5	17.0	10.0	8.0	9.0	3.5	1.5	2.5	3.0	.0	1.5
25	18.0	14.0	16.0	9.0	8.5	9.0	1.0	.0	.5	2.5	1.5	2.0
26	16.5	12.0	14.0	12.0	9.0	10.5	.5	.0	.5	2.5	.5	2.0
27	16.5	12.5	14.5	12.0	11.0	11.5	2.0	.5	1.0	.5	.0	.0
28	15.5	13.0	14.0	11.5	11.0	11.5	2.0	.5	1.0	.0	.0	.0
29	13.5	11.5	12.5	11.0	10.0	10.5	3.0	.5	1.5	.5	.0	.0
30	13.5	12.5	13.0	10.5	10.0	10.5	1.0	.0	.5	2.0	.0	.5
31	16.0	12.5	14.0	---	---	---	3.0	.5	2.0	3.0	.5	1.5
MONTH	21.5	7.5	15.5	16.0	7.0	12.0	11.5	.0	4.0	5.0	.0	1.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.5	1.0	2.5	4.0	.0	1.5	16.0	10.0	12.5	17.5	13.0	15.0
2	4.0	3.5	4.0	4.0	.0	2.0	16.5	11.0	13.0	18.0	11.5	14.0
3	5.0	4.0	4.5	3.0	2.5	3.0	16.0	9.5	12.5	17.0	10.0	13.0
4	6.5	4.5	5.5	4.0	2.5	3.5	18.0	11.5	14.0	17.5	9.5	13.5
5	8.0	6.5	7.0	4.0	1.0	2.5	15.0	12.0	13.5	19.0	11.0	15.0
6	7.5	6.5	6.5	3.0	2.5	2.5	16.5	12.0	14.0	18.0	14.0	15.5
7	6.5	5.5	6.0	3.5	.5	2.0	18.0	11.0	14.0	21.0	14.5	17.0
8	5.5	4.5	5.0	3.5	.0	1.5	17.0	11.5	13.5	16.5	13.0	14.5
9	5.0	4.0	4.5	8.5	2.0	5.0	11.0	8.0	9.5	17.5	12.0	14.5
10	4.0	.5	3.0	9.0	5.5	7.5	11.5	6.5	8.5	18.5	12.5	15.0
11	2.5	.5	1.0	10.0	6.0	7.5	14.5	6.5	10.0	18.5	13.0	15.5
12	1.5	.0	.5	8.0	5.5	7.0	15.5	7.5	11.5	17.0	14.5	15.5
13	1.5	.0	.5	8.5	7.5	8.0	16.5	10.0	12.5	19.0	14.5	16.5
14	.5	.0	.0	8.0	7.0	7.5	15.5	10.0	12.5	15.5	14.0	14.5
15	2.5	.0	1.0	10.5	7.0	8.5	13.5	10.0	12.0	16.5	13.5	14.5
16	2.5	.0	1.5	7.5	6.5	7.0	11.0	9.0	9.5	18.5	14.5	16.0
17	4.5	1.0	3.0	10.0	6.0	7.5	10.5	8.5	9.5	20.0	15.0	17.0
18	6.5	4.0	5.0	9.0	5.5	7.5	16.5	8.5	12.5	19.5	16.0	17.5
19	7.5	5.0	6.0	11.0	8.0	9.5	16.5	10.0	13.0	17.5	16.0	16.5
20	9.0	6.5	7.5	7.5	4.0	6.0	13.0	12.0	12.5	16.0	13.5	14.5
21	7.0	5.0	6.0	7.0	2.5	4.5	14.0	10.0	11.5	15.0	13.0	14.0
22	4.5	4.0	4.5	7.5	2.0	4.5	9.5	6.5	8.5	16.5	13.0	14.5
23	6.5	3.5	4.5	8.5	3.0	5.5	13.0	5.5	9.0	17.5	13.0	15.0
24	4.5	2.5	3.5	10.0	4.0	7.0	15.0	6.5	10.5	19.5	14.0	16.5
25	5.5	2.0	3.0	12.0	4.5	8.0	17.0	9.0	13.0	17.0	15.5	16.0
26	2.5	1.0	2.0	12.5	7.0	10.0	19.5	12.0	15.5	19.0	14.5	16.5
27	3.0	1.5	2.5	13.0	7.5	10.0	21.0	13.0	16.5	16.0	14.5	15.5
28	4.0	.0	1.5	12.5	5.5	9.0	19.0	14.0	16.0	17.0	14.5	15.5
29	---	---	---	14.0	6.5	10.0	19.5	12.5	15.5	19.0	15.0	16.5
30	---	---	---	15.0	8.0	11.0	19.0	12.5	15.5	20.0	16.0	17.5
31	---	---	---	15.5	9.0	12.0	---	---	---	20.5	16.0	18.0
MONTH	9.0	.0	3.5	15.5	.0	6.5	21.0	5.5	12.5	21.0	9.5	15.5

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	16.5	19.0	22.5	18.5	20.5	29.5	10.0	23.0	23.0	19.5	21.0
2	19.0	16.0	17.5	19.0	18.0	18.5	28.0	22.0	24.5	23.0	20.0	21.0
3	21.0	14.0	17.5	20.5	17.0	18.5	29.5	20.5	24.5	25.0	20.0	21.5
4	19.0	16.5	18.0	22.5	16.5	19.0	29.0	20.5	24.5	23.5	20.5	21.5
5	20.0	17.0	18.5	23.5	18.0	20.5	29.5	20.0	24.5	25.5	20.5	22.5
6	21.5	17.5	19.0	24.5	19.5	22.0	27.5	21.5	24.5	25.0	17.5	20.5
7	21.5	17.5	19.5	25.5	20.5	23.0	28.5	21.0	24.5	21.0	18.5	19.5
8	22.5	18.5	20.0	26.0	21.5	23.5	29.0	23.0	25.5	23.0	15.5	18.5
9	22.0	18.0	20.0	25.0	22.0	23.5	28.5	22.5	25.0	22.5	14.5	18.0
10	19.0	17.0	18.0	24.0	22.0	22.5	26.5	22.5	24.0	23.0	16.5	19.5
11	19.5	16.5	18.0	27.5	21.5	23.5	28.0	22.0	24.0	23.0	19.0	21.0
12	19.0	17.0	18.0	26.0	22.0	23.5	---	---	---	22.0	19.5	20.5
13	18.0	16.5	17.0	23.5	22.0	22.5	---	---	---	23.5	17.5	20.0
14	21.0	16.0	18.5	26.0	21.0	23.0	---	---	---	23.5	16.5	19.5
15	21.5	17.0	19.0	24.0	21.5	22.5	---	---	---	22.5	17.5	20.0
16	23.0	17.5	20.0	25.5	21.0	22.5	---	---	---	23.0	18.5	20.0
17	24.0	19.0	21.0	28.5	21.5	24.0	---	---	---	22.0	15.5	18.5
18	22.5	17.0	19.5	37.0	22.0	27.5	---	---	---	20.0	18.5	19.5
19	23.5	17.0	20.0	37.5	21.5	27.5	---	---	---	23.0	19.5	20.5
20	24.0	19.0	21.0	38.0	21.5	26.5	23.5	22.0	23.0	24.0	19.5	21.0
21	25.5	18.5	21.5	35.5	21.0	26.5	25.0	21.5	23.0	24.0	19.5	21.5
22	26.0	18.5	22.0	38.5	20.0	26.5	27.0	22.0	24.0	24.5	19.0	21.5
23	26.5	20.5	23.0	37.5	18.0	25.5	26.5	23.0	24.5	24.0	20.0	22.0
24	27.0	20.5	23.0	38.0	15.0	25.0	26.5	21.5	23.5	21.0	19.5	20.0
25	26.0	18.5	21.5	38.0	19.5	26.5	26.0	20.0	22.5	23.0	19.0	21.0
26	26.0	18.0	21.5	37.0	21.5	27.5	26.5	20.5	23.0	22.5	19.5	21.0
27	26.0	19.0	22.0	38.0	21.5	26.5	24.0	21.5	23.0	21.5	19.5	20.5
28	26.5	21.0	23.5	37.0	20.5	26.0	23.0	18.5	21.0	23.0	19.5	21.0
29	28.0	21.5	24.0	35.0	20.0	26.0	22.5	16.5	19.0	23.0	19.5	21.0
30	26.5	22.0	23.5	38.0	17.0	24.0	23.0	16.5	19.0	23.5	20.0	21.5
31	---	---	---	36.0	15.0	21.5	23.0	17.0	19.5	---	---	---
MONTH	28.0	14.0	20.0	38.5	15.0	23.5	29.5	10.0	23.0	25.5	14.5	20.5
YEAR	38.5	.0	13.0									

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^2.

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: Oct. 1-7, Dec. 23 to Jan. 10, Jan. 28 to Feb. 2, and Feb. 12-16. 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.--55 years, 452 ft^3/s, 15.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,200 ft^3/s Mar. 10, 1964; gage height, 27.91 ft, from rating curve extended above 22,000 ft^3/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^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	2200	*12,900	*14.81

No other peak discharge greater than base discharge.

Minimum daily discharge, 1.1 ft^3/s Oct. 11-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	21	573	72	110	294	131	116	77	192	4.6	4.8
2	2.0	25	637	72	130	266	122	101	64	3610	4.1	6.4
3	2.5	841	385	74	217	330	114	87	72	440	3.7	5.9
4	1.7	921	291	86	4270	394	108	76	49	179	3.5	5.3
5	1.5	558	263	34	4400	393	103	68	40	105	3.3	4.8
6	1.4	734	308	74	1480	487	101	64	45	72	3.3	4.0
7	1.4	357	283	60	4240	539	101	62	398	50	3.2	3.5
8	1.3	337	239	48	1440	323	97	414	326	37	4.2	3.4
9	1.4	231	216	45	765	292	89	267	174	29	6.3	3.0
10	1.2	162	190	43	536	284	85	134	190	24	5.3	2.7
11	1.1	141	878	42	429	741	81	97	670	126	6.4	2.6
12	1.1	5010	2390	47	310	1360	78	147	2010	407	6.0	5.5
13	1.1	1730	890	52	280	4710	73	772	689	222	6.3	7.2
14	1.1	829	715	46	270	1650	67	3690	274	235	5.1	7.6
15	1.5	859	377	40	260	945	78	1090	169	115	8.9	7.3
16	1.4	8070	357	37	250	596	121	420	130	93	10	7.5
17	1.3	2990	353	37	2970	439	108	269	99	73	17	8.3
18	1.3	921	274	60	2050	360	96	184	70	98	14	7.2
19	1.2	557	175	205	937	886	85	142	51	47	10	6.5
20	2120	392	195	537	679	649	85	125	46	30	6.9	5.4
21	1400	298	160	280	517	390	671	111	49	25	5.0	4.8
22	213	243	145	541	487	309	775	99	69	112	4.1	5.5
23	108	220	130	433	381	275	347	90	45	56	3.6	5.0
24	76	189	120	254	334	244	224	80	31	26	3.6	454
25	65	168	110	232	339	209	175	69	24	18	3.5	819
26	55	553	98	288	361	191	151	61	19	14	3.2	141
27	42	7100	90	228	364	195	132	217	16	11	4.3	1510
28	34	6190	88	120	351	196	117	505	14	8.6	4.2	753
29	27	1900	82	110	---	169	158	312	12	7.1	4.0	191
30	23	868	76	110	---	154	153	141	10	6.0	5.4	99
31	21	---	74	110	---	141	---	99	---	5.2	5.1	---
TOTAL	4210.7	43415	11162	4467	29157	18431	4826	10109	5932	6472.9	178.1	4093.6
MEAN	136	1447	360	144	1041	595	161	326	198	209	5.75	136
MAX	2120	8070	2390	541	4400	4710	775	3690	2010	3610	17	1510
MIN	1.1	21	74	37	110	141	67	61	10	5.2	3.2	2.6
CFSM	.35	3.74	.93	.37	2.69	1.54	.42	.84	.51	.54	.01	.35
IN.	.40	4.17	1.07	.43	2.80	1.77	.46	.97	.57	.62	.02	.39

CAL YR 1985	TOTAL	161213.9	MEAN	442	MAX	10100	MIN	1.1	CFSM	1.14	IN.	15.50
WTR YR 1986	TOTAL	142454.3	MEAN	390	MAX	8070	MIN	1.1	CFSM	1.01	IN.	13.69

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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^2.

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: Dec. 19 to Jan. 18, Jan. 28 to Feb. 2 and Feb. 11-16. Records fair except those below 30 ft^3/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 0.80 ft^3/s for the period January through September, 1986.

AVERAGE DISCHARGE.--59 years, 258 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft^3/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, 1983-1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	1500	*10,400	*7.61	Feb. 7	1100	6,170	6.24
Nov. 27	1730	8,100	6.97	Mar. 13	1500	6,140	6.23
Feb. 4	1400	6,000	6.28				

Minimum daily discharge, no flow Oct. 1-19, Aug. 2-9, 21, Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	19	237	24	37	117	42	29	45	620	.02	7.2
2	.00	23	288	24	45	100	37	27	239	1400	.00	2.4
3	.00	45	179	24	215	117	34	24	95	251	.00	4.3
4	.00	194	119	25	4170	179	32	23	41	91	.00	6.7
5	.00	122	108	22	4200	231	32	22	30	44	.00	5.9
6	.00	143	101	20	890	265	32	20	29	29	.00	.87
7	.00	102	104	18	4220	318	32	24	51	21	.00	.01
8	.00	98	95	17	774	131	31	264	111	16	.00	.02
9	.00	76	87	16	32[illegible]	100	29	125	96	13	.00	.05
10	.00	49	78	14	217	99	28	64	41	9.1	.02	1.6
11	.00	40	422	14	140	601	26	35	28	244	4.1	3.4
12	.00	3100	2240	16	110	803	26	194	2290	185	22	32
13	.00	1360	405	15	90	4610	23	712	428	334	17	104
14	.00	529	261	15	84	1040	23	2700	135	226	10	35
15	.00	535	129	14	78	394	26	736	77	90	4.9	29
16	.00	7360	116	13	74	246	26	218	44	40	2.4	[illegible]
17	.00	4580	105	13	2140	165	28	119	31	175	7.3	[illegible]
18	.00	431	60	20	1600	173	29	78	23	85	3.4	[illegible]
19	.00	264	58	47	457	322	27	58	17	31	2.3	[illegible]
20	2180	180	52	163	310	319	29	48	151	24	.05	[illegible]
21	1390	126	49	127	223	148	94	40	416	63	.00	3.5
22	156	103	45	442	264	104	159	32	93	178	.71	.64
23	65	98	41	336	160	93	112	42	42	68	.00	.00
24	54	89	38	147	131	87	69	26	28	27	4.8	590
25	79	88	35	122	136	70	50	25	21	16	4.6	912
26	46	458	33	203	143	63	41	32	16	13	2.1	128
27	30	5660	31	131	153	61	34	163	13	8.7	11	1300
28	24	5830	29	48	168	65	31	263	12	6.8	71	831
29	15	1030	27	45	---	62	30	629	8.0	7.4	28	155
30	15	353	26	41	---	55	29	195	7.4	4.4	13	64
31	15	---	25	39	---	46	---	81	---	2.2	8.6	---
TOTAL	4069.00	33085	5623	2216	21538	11144	1241	7041	4658.4	4321.6	217.30	4236.59
MEAN	131	1103	181	71.5	769	359	41.4	227	155	139	7.01	141
MAX	2180	7360	2240	4[illegible]	4220	4610	159	2700	2290	1400	71	1300
MIN	.00	19	25	13	37	46	23	20	7.4	2.2	.00	.00

CAL YR 1985 TOTAL 97950.07 MEAN 268 MAX 8300 MIN .00
WTR YR 1986 TOTAL 99390.59 MEAN 272 MAX 7360 MIN .00

000166

7378

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^2.

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: Dec. 19 to Jan. 18 and Jan. 27 to Feb. 2. Records good except for periods of estimated daily discharges, which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1952 to 1958.

AVERAGE DISCHARGE.--34 years, 118 ft^3/s, 12.42 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft^3/s Jan. 21, 1959, gage height, 12.20 ft, from rating curve extended above 4,400 ft^3/s on basis of slope area measurements of peak flow; minimum, 5.1 ft^3/s Sept. 20-22, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 28	0845	1,770	6.40	Feb. 7	1415	1,010	4.78
Dec. 12	0700	976	4.71	Mar. 13	1915	*1,820	*6.49
Feb. 4	2045	1,240	5.31				

Minimum discharge, 8.0 ft^3/s Oct. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	17	359	68	80	129	114	76	43	140	38	21
2	16	20	300	66	170	126	113	72	42	227	36	21
3	9.6	24	226	64	225	128	108	68	40	172	38	17
4	9.3	34	191	62	888	132	106	67	39	106	35	26
5	12	27	173	61	926	153	102	67	39	81	34	20
6	10	27	159	60	517	226	106	66	100	67	32	18
7	10	24	141	58	922	208	104	76	174	59	35	16
8	10	23	133	57	532	157	97	70	124	56	33	16
9	10	23	128	55	337	150	94	60	86	59	31	16
10	11	94	144	54	257	169	91	58	94	55	37	15
11	9.4	456	502	53	211	283	89	55	152	102	35	17
12	16	323	818	52	177	237	84	55	210	337	34	33
13	21	307	456	50	157	1370	81	54	137	320	28	22
14	21	267	302	49	147	930	79	54	97	183	32	20
15	23	273	226	48	135	464	89	54	80	125	30	19
16	25	524	191	47	125	330	87	57	70	111	22	18
17	22	599	168	47	197	261	84	52	62	139	28	17
18	24	326	145	70	397	227	78	52	55	107	32	20
19	23	237	130	174	407	525	75	53	51	89	27	23
20	37	188	120	277	312	392	89	51	64	79	21	16
21	36	151	110	186	279	258	129	49	58	70	21	17
22	27	132	100	213	261	213	113	49	50	63	27	19
23	22	115	96	211	209	189	98	48	52	56	20	19
24	23	104	92	165	192	169	92	45	46	53	20	18
25	24	101	88	148	182	156	89	43	42	50	18	21
26	22	444	84	150	177	151	85	45	40	52	19	28
27	21	1560	80	120	167	159	82	66	40	48	39	93
28	20	1630	78	110	140	144	80	55	113	45	34	50
29	20	967	76	100	---	135	83	52	122	50	23	37
30	20	485	74	90	---	125	76	51	84	43	20	29
31	18	---	70	80	---	119	---	46	---	40	19	---
TOTAL	585.3	9452	5960	3045	8726	8415	2797	1767	2406	3184	898	722
MEAN	18.9	315	192	98.2	312	271	93.2	57.0	80.2	103	29.0	24.1
MAX	37	1630	818	277	926	1370	129	76	210	337	39	93
MIN	9.3	17	70	47	80	119	75	43	39	40	18	15
CFSM	.15	2.44	1.49	.76	2.42	2.10	.72	.44	.62	.80	.22	.19
IN.	.17	2.73	1.72	.88	2.52	2.43	.81	.51	.69	.92	.26	.21

CAL YR 1985	TOTAL	47165.7	MEAN	129	MAX	1780	MIN	5.1	CFSM	1.00	IN.	13.60
WTR YR 1986	TOTAL	47957.3	MEAN	131	MAX	1630	MIN	9.3	CFSM	1.02	IN.	13.83

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^2.

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. 18 to Jan. 19 and Jan. 27 to Feb. 2. Records good except for estimated daily discharges, which are fair. Water-quality data collected at this site 1965 to 1977. Sediment data collected 1952 to 1958.

AVERAGE DISCHARGE.--34 years, 63.4 ft^3/s, 13.62 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,300 ft^3/s Jan. 21, 1959, Mar. 4, 1963, gage height, 11.25 ft, from rating curve extended above 3,100 ft^3/s; minimum, 0.3 ft /s Sept. 3-7, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft /s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 17	0030	706	5.12	Feb. 5	0400	862	5.50
Nov. 28	0730	*1,310	6.44	Feb. 7	0230	738	5.20
Dec. 11	1730	613	4.89	Mar. 13	2230	1,170	6.16

Minimum, 2.8 ft^3/s Sept. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.9	227	24	42	55	48	31	23	82	10	4.6
2	3.7	5.3	185	23	110	53	47	29	20	213	9.5	4.6
3	3.6	8.3	133	22	162	52	44	27	19	123	9.1	4.6
4	3.5	11	108	22	691	55	43	26	19	72	8.7	4.6
5	4.2	11	96	21	709	79	40	27	19	49	8.6	4.5
6	4.4	10	84	21	375	115	45	27	34	37	7.5	3.7
7	4.4	9.5	71	20	685	96	43	71	46	30	7.5	3.3
8	4.2	9.1	69	20	353	71	40	163	44	25	7.0	3.4
9	4.6	26	65	20	202	69	37	85	31	23	7.0	2.9
10	4.4	112	78	19	147	75	36	56	28	22	8.8	3.1
11	4.3	438	315	19	112	116	35	44	35	51	9.7	5.7
12	5.5	419	510	19	84	117	33	38	32	146	8.0	11
13	6.2	344	281	18	75	1020	32	24	26	102	6.4	6.7
14	6.9	254	179	18	65	762	32	32	23	72	6.2	5.3
15	8.9	209	132	18	57	320	35	29	22	50	6.2	4.8
16	5.0	534	106	18	51	210	32	31	19	43	6.0	4.3
17	4.0	615	90	18	88	160	32	27	16	47	5.9	4.2
18	3.8	288	70	18	197	135	28	26	15	37	5.3	4.3
19	4.3	199	60	90	205	362	26	27	17	30	4.8	4.8
20	13	155	50	162	155	246	34	24	25	26	4.0	5.0
21	11	122	46	108	160	151	58	23	20	23	3.9	4.9
22	7.9	106	41	137	154	116	53	23	18	20	3.7	4.9
23	6.9	89	37	133	111	100	42	22	19	17	4.0	4.7
24	8.4	74	34	106	97	86	37	21	17	15	4.0	5.1
25	7.1	67	32	95	90	75	37	19	14	14	4.0	5.2
26	6.3	232	30	93	86	70	37	26	13	14	4.3	12
27	5.9	848	28	68	76	70	34	45	12	14	10	30
28	5.4	1150	27	60	59	62	34	37	37	14	6.1	14
29	4.9	760	26	50	---	58	34	29	81	13	4.9	9.3
30	4.7	320	25	45	---	54	32	26	57	11	4.9	8.0
31	4.6	---	24	40	---	49	---	24	---	10	4.8	---
TOTAL	176.6	7430.1	3259	1545	5398	5059	1140	1149	801	1445	200.8	193.5
MEAN	5.70	248	105	49.8	193	163	38.0	37.1	26.7	46.6	6.48	6.45
MAX	13	1150	510	162	709	1020	58	163	81	213	10	30
MIN	3.5	4.9	24	18	42	49	26	19	12	10	3.7	2.9
CFSM	.09	3.92	1.66	.79	3.05	2.58	.60	.59	.42	.74	.10	.10
IN.	.10	4.37	1.92	.9	3.18	2.98	.67	.68	.47	.85	.12	.11

CAL YR 1985	TOTAL	26401.0	MEAN	72.3	MAX	1150	MIN	1.9	CFSM	1.14	IN.	15.54
WTR YR 1986	TOTAL	27797.0	MEAN	76.2	MAX	1150	MIN	2.9	CFSM	1.21	IN.	16.36

7378

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^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 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: Dec. 18-25, Dec. 28 to Jan. 18, and Jan. 29 to Feb. 1. Records 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.--61 years, (1915-17, 1925-36, 1938-86), 1,252 ft^3/s, 14.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,100 ft^3/s Jan. 22, 1959, gage height, 27.30 ft present datum, from rating curve extended above 60,000 ft^3/s on basis of slope-area measurement of peak flow; minimum observed, 27 ft^3/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^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	0700	21,200	14.86	Feb. 4	1400	16,400	13.41
Nov. 26	2400	24,800	15.86	Mar. 13	1100	*25,700	*16.08

Minimum daily discharge, 119 ft^3/s Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	284	2460	420	600	836	656	400	301	1230	234	163
2	156	396	1980	410	1040	785	613	395	272	2950	234	161
3	163	542	1710	410	1700	804	585	369	284	1680	234	173
4	150	721	3050	400	13000	862	547	346	260	1070	234	162
5	148	613	2950	380	7770	952	528	336	239	589	234	156
6	146	502	2930	370	5990	984	512	328	777	395	196	152
7	148	409	2800	350	11000	1090	523	362	1460	345	187	151
8	129	412	1740	330	7170	895	543	1310	1760	314	197	142
9	121	423	1440	320	5420	827	490	615	724	291	187	131
10	123	629	1060	320	4290	950	464	475	472	573	257	124
11	122	6200	4710	330	3390	2660	447	395	432	524	430	136
12	121	5410	7860	330	3120	1920	439	383	1050	1190	312	522
13	120	5590	4750	330	2760	16800	423	407	862	3020	228	431
14	119	4550	3920	320	1950	6760	405	738	615	2060	196	271
15	126	4460	2660	300	1900	4520	459	516	479	1350	190	206
16	142	17700	1840	300	1610	3810	477	447	354	1110	160	[illegible]
17	210	8070	1210	320	2500	3250	442	408	325	806	299	[illegible]
18	218	5330	1000	400	2820	2960	424	411	325	[illegible]	257	146
19	232	4310	780	2020	3140	6090	404	367	255	496	219	142
20	692	3340	700	2590	2670	4090	403	332	287	435	182	140
21	1160	2990	640	1800	2330	2770	804	317	701	395	166	152
22	644	2210	600	2760	2310	1910	753	301	430	366	155	160
23	567	1530	560	2180	1670	1500	602	293	439	346	150	178
24	459	1260	540	1500	1480	1200	527	277	351	330	152	696
25	370	1260	540	1170	1520	1060	483	268	316	318	139	412
26	348	4350	523	1230	1220	986	460	289	251	306	134	295
27	266	15600	574	1040	1290	1000	438	488	211	293	279	1150
28	233	13500	520	785	1030	1020	417	578	203	284	364	1080
29	218	7250	470	700	---	934	405	407	437	274	253	489
30	226	5840	450	640	---	796	420	414	460	258	203	529
31	254	---	430	600	---	725	---	393	---	234	174	---
TOTAL	8461	125681	57397	25355	97700	75677	15153	13415	15352	24474	6848	9165
MEAN	273	4189	1852	818	3489	2441	505	433	512	789	221	306
MAX	1160	17700	7860	2760	13000	16800	804	1340	1760	3020	430	1150
MIN	119	284	430	300	600	725	404	268	203	234	134	124
CFSM	.23	3.48	1.54	.68	2.90	2.03	.42	.36	.43	.66	.18	.25
IN.	.26	3.89	1.77	.78	3.02	2.34	.47	.41	.47	.76	.21	.28

CAL YR 1985 TOTAL 570281 MEAN 1562 MAX 20400 MIN 103 CFSM 1.30 IN. 17.63
WTR YR 1986 TOTAL 474678 MEAN 1300 MAX 17700 MIN 119 CFSM 1.08 IN. 14.68

000169

WATER-QUALITY RECORDS

7378

PERIOD OF RECORD.--Water year 1965 to September 1986.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1975 to September 1986.
pH: May 1975 to September 1986.
WATER TEMPERATURES: May 1975 to September 1986.
DISSOLVED OXYGEN: May 1975 to September 1986.
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, 32.0°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 mg/L several days in 1979, 1980, 1982, 1983, 1984.
SEDIMENT LOADS: Maximum daily, 185,000 tons Sept. 14, 1979; minimum daily, 0.85 ton Dec. 15, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 950 microsiemens Oct. 16; minimum, 206 microsiemens Mar. 12.
pH: Maximum, 9.2 units Aug. 9; minimum, 7.6 units Oct. 20, 21, 24, June 6, July 13, Sept. 28.
WATER TEMPERATURES: Maximum, 31.0°C July [illegible]-21; minimum, 0.0°C on several days during the winter period.
DISSOLVED OXYGEN: Maximum, 18.7 mg/L Aug. 25; minimum, 5.5 mg/L Sept. 25.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,770 mg/L Nov. 11; minimum daily mean, 3 mg/L Jan. 3.
SEDIMENT LOADS: Maximum daily, 78,400 tons Mar. 13; minimum daily, 2.5 tons Oct. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)	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)
OCT												
02...	1230	132	850	8.40	20.0	17.0	8.0	10.0	105	2400	120	72
DEC												
18...	1330	1180	658	8.19	-3.0	1.5	10	13.4	100	6000	1300	75
MAR												
05...	1300	981	675	8.40	2.5	4.5	4.8	11.7	101	890	220	81
MAY												
07...	1330	372	770	8.50	26.5	22.5	2.0	10.4	122	62	55	84
JUN												
11...	1430	397	605	8.10	29.0	25.5	75	7.2	90	3400	2100	71
AUG												
13...	1300	223	700	8.30	27.5	25.0	54	7.9	97	80	400	69

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	ALKA-LINITY LAB (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)	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)
OCT												
02...	27	57	239	54	65	0.4	4.1	493	2.90	0.15	0.8	0.66
DEC												
18...	27	20	233	54	47	<1.0	8.7	384	4.10	0.27	1.9	0.23
MAR												
05...	27	25	233	59	48	0.2	5.2	401	2.60	0.19	0.4	0.23
MAY												
07...	21	25	267	57	57	0.3	0.6	446	2.00	0.14	0.9	0.28
JUN												
11...	22	25	198	47	43	0.3	8.7	366	4.40	0.12	1.2	0.59
AUG												
13...	25	44	220	56	71	0.3	5.4	432	2.50	0.25	1.1	0.76

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WATER-QUALITY RECORDS

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	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)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT											
02...	0.80	0.61	10	1	73	2	<1	<1	18	6	5
DEC											
18...	0.23	0.18	120	<1	74	<0.5	<1	<1	2	160	2
MAR											
05...	0.22	0.18	--	--	--	--	--	--	--	--	--
MAY											
07...	0.32	0.30	--	--	--	--	--	--	--	--	--
JUN											
11...	0.36	0.31	<10	2	67	<0.5	<1	<1	6	13	<1
AUG											
13...	0.57	0.39	--	--	--	--	--	--	--	--	--

DATE	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)	ZINC, DIS-SOLVED (UG/L AS ZN)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)
OCT											
02...	7	10	<0.1	<10	10	<1	<1	340	40	--	24
DEC											
18...	9	24	0.1	<10	1	<1	<1	330	5	--	11
MAR											
05...	--	--	--	--	--	--	--	--	--	87	31
MAY											
07...	--	--	--	--	--	--	--	--	--	91	37
JUN											
11...	10	15	<0.1	<10	3	<1	<1	290	10	98	135
AUG											
13...	--	--	--	--	--	--	--	--	--	100	172

03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	922	890	909	780	732	748	546	444	495	772	728	747
2	940	838	878	774	736	756	574	546	563	752	716	728
3	870	842	856	726	646	697	606	566	580	752	718	735
4	858	816	840	624	612	623	584	462	495	770	740	754
5	870	850	859	638	618	625	476	466	471	788	750	767
6	876	846	864	696	636	666	500	472	490	786	760	772
7	874	824	845	660	616	638	500	492	497	784	760	771
8	874	836	858	624	588	605	550	492	516	774	754	764
9	892	856	873	672	604	634	572	544	553	776	744	758
10	902	870	886	700	662	680	598	570	584	776	748	759
11	898	874	887	628	292	391	636	314	530	786	750	764
12	906	878	891	406	316	373	388	296	335	826	766	795
13	912	874	889	450	372	416	454	392	427	828	782	803
14	930	878	905	478	444	460	486	458	472	806	774	785
15	948	918	937	484	356	470	536	498	513	802	776	789
16	950	912	931	339	244	288	570	532	546	794	772	782
17	928	900	915	404	282	351	632	570	586	794	768	778
18	944	918	929	444	404	425	666	626	644	794	770	787
19	942	878	902	480	446	465	630	611	621	810	558	696
20	878	402	611	502	480	491	698	616	656	624	570	604
21	616	562	592	500	492	496	724	700	713	626	568	603
22	648	582	613	524	494	507	718	700	712	622	510	546
23	644	496	565	558	520	540	708	694	699	570	510	544
24	554	486	522	572	562	565	736	702	718	586	556	567
25	558	530	542	598	566	584	732	702	715	602	586	593
26	604	544	575	582	214	521	734	710	719	634	594	615
27	676	588	629	288	214	252	728	712	717	630	612	619
28	742	678	693	294	266	276	726	708	714	680	634	636
29	794	726	756	378	298	344	770	724	747	680	658	670
30	802	762	782	440	378	405	758	746	753	722	652	684
31	770	718	740	---	---	---	782	742	756	728	696	711
MONTH	950	402	789	780	214	509	782	296	598	828	510	708
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	704	652	691	806	680	756	680	656	664	768	746	756
2	696	644	670	790	748	763	676	652	662	776	748	761
3	642	596	614	752	730	740	682	662	672	774	736	755
4	611	295	361	730	688	711	702	678	689	774	746	762
5	398	306	357	690	664	672	730	698	717	762	746	764
6	446	392	418	662	648	656	748	728	738	770	746	760
7	422	318	353	652	628	641	756	740	750	784	722	764
8	418	364	398	658	636	644	774	750	758	618	430	528
9	462	420	444	660	644	650	776	740	762	642	532	573
10	472	464	468	666	620	653	762	720	734	754	646	702
11	484	472	480	594	406	486	766	748	757	758	712	744
12	494	480	486	544	438	500	766	726	739	708	632	684
13	522	488	500	464	206	263	746	728	736	720	668	705
14	536	508	525	370	294	332	746	724	733	692	512	617
15	544	534	538	456	370	408	736	716	725	662	456	577
16	566	538	553	482	456	469	748	720	732	718	666	693
17	678	494	597	504	486	495	736	716	725	748	704	730
18	542	450	499	512	502	504	748	724	737	762	736	751
19	538	528	534	520	380	421	738	710	722	774	740	757
20	550	532	538	486	419	453	744	702	731	760	734	745
21	562	546	554	514	482	495	716	684	700	784	726	756
22	570	534	550	570	516	540	700	686	691	802	768	783
23	576	546	562	602	570	588	690	610	644	800	766	783
24	598	570	581	624	604	615	680	616	648	816	782	798
25	630	602	617	670	622	653	726	680	700	834	804	816
26	726	608	626	660	648	655	738	714	726	834	752	814
27	740	696	723	658	646	652	746	724	736	776	688	739
28	692	658	675	654	634	645	774	740	759	764	724	748
29	---	---	---	650	624	636	784	758	772	734	692	707
30	---	---	---	650	630	637	788	746	761	726	708	722
31	---	---	---	668	640	656	---	---	---	708	664	686
MONTH	740	296	533	806	206	581	788	610	721	834	430	725

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03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	728	682	709	692	414	518	691	660	673	816	708	753
2	730	700	711	414	288	341	709	671	692	720	652	695
3	752	728	740	408	340	366	728	687	708	642	606	626
4	756	738	746	504	388	448	707	685	696	740	620	678
5	786	746	765	542	504	522	726	659	700	792	742	766
6	774	740	751	606	528	553	688	651	669	820	778	798
7	762	472	565	680	588	629	657	605	638	816	776	795
8	500	360	427	724	682	703	660	622	641	830	806	820
9	502	412	453	732	708	720	685	639	666	860	814	844
10	616	506	551	738	408	659	698	669	685	878	860	870
11	638	598	619	554	438	501	669	599	634	880	684	838
12	628	568	604	592	512	556	661	634	647	786	578	686
13	642	498	585	550	268	418	692	660	683	716	606	644
14	568	490	523	416	290	349	690	658	673	760	674	704
15	598	568	586	498	418	466	696	672	681	716	682	696
16	602	584	595	556	504	529	734	698	715	742	710	726
17	686	600	639	580	548	561	748	512	635	742	696	716
18	754	682	716	642	564	608	790	538	685	724	632	674
19	766	758	763	656	630	641	842	788	821	664	630	643
20	766	712	745	730	648	686	834	758	804	716	654	679
21	714	608	673	740	728	733	750	694	717	774	722	753
22	650	590	619	764	728	743	734	702	722	820	778	797
23	616	572	600	762	716	741	740	694	712	844	810	825
24	602	568	582	770	724	746	732	702	719	850	378	566
25	654	590	621	776	678	734	750	698	718	520	406	457
26	688	652	668	762	672	725	766	688	723	656	536	603
27	710	680	700	746	650	698	754	578	680	642	402	498
28	716	690	703	722	638	680	800	652	743	482	330	391
29	750	688	719	716	652	699	842	796	816	472	436	454
30	780	714	761	736	652	708	816	782	798	532	466	505
31	---	---	---	697	644	670	806	788	796	---	---	---
MONTH	786	360	648	776	268	602	842	512	706	880	330	683
YEAR	950	206	651									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.10	8.20	8.30	8.20	8.10	8.20	8.10	7.90	8.00	8.20	8.30	8.30
2	8.40	8.20	8.30	8.10	8.10	8.10	8.20	8.10	8.20	8.30	8.30	8.30
3	8.40	8.30	8.30	8.10	8.00	8.10	8.20	8.20	8.20	8.30	8.30	8.30
4	8.40	8.30	8.30	8.10	8.00	8.00	8.20	8.10	8.10	8.30	8.30	8.30
5	8.40	8.30	8.30	8.10	8.00	8.00	8.10	8.10	8.10	8.30	8.30	8.30
6	8.40	8.30	8.40	8.20	8.00	8.10	8.20	8.10	8.10	8.30	8.30	8.30
7	8.50	8.40	8.40	8.10	8.10	8.10	8.10	8.10	8.10	8.30	8.30	8.30
8	8.50	8.40	8.40	8.20	8.00	8.10	8.20	8.10	8.20	8.30	8.30	8.30
9	8.40	8.30	8.40	8.20	8.10	8.20	8.20	8.10	8.20	8.30	8.30	8.30
10	8.40	8.20	8.30	8.20	8.10	8.20	8.20	8.10	8.10	8.30	8.30	8.30
11	8.30	8.20	8.20	8.20	7.80	7.90	8.20	7.90	8.10	8.30	8.30	8.30
12	8.30	8.10	8.20	7.90	7.80	7.90	7.90	7.90	7.90	8.30	8.30	8.30
13	8.30	8.10	8.20	7.90	7.80	7.90	8.00	7.90	8.00	8.30	8.30	8.30
14	8.20	8.10	8.20	7.90	7.90	7.90	8.10	8.00	8.10	8.40	8.30	8.30
15	8.20	8.10	8.10	8.00	7.90	7.90	8.10	8.10	8.10	8.40	8.30	8.30
16	8.10	8.00	8.10	7.90	7.80	7.80	8.10	8.10	8.10	8.40	8.30	8.30
17	8.20	8.00	8.10	7.90	7.80	7.90	8.20	8.10	8.20	8.30	8.30	8.30
18	8.20	8.10	8.20	7.90	7.90	7.90	8.20	8.20	8.20	8.30	8.30	8.30
19	8.20	8.00	8.10	8.00	7.90	8.00	8.30	8.20	8.20	8.30	8.10	8.20
20	8.10	7.60	7.80	8.10	8.00	8.00	8.20	8.20	8.20	8.20	8.10	8.10
21	7.80	7.60	7.80	8.10	8.10	8.10	8.20	8.20	8.20	8.20	8.10	8.20
22	7.80	7.80	7.80	8.10	8.10	8.10	8.20	8.20	8.30	8.20	8.10	8.20
23	7.80	7.70	7.70	8.20	8.10	8.20	8.30	8.20	8.20	8.20	8.10	8.20
24	7.90	7.60	7.80	8.20	8.20	8.20	8.30	8.20	8.20	8.20	8.20	8.20
25	7.90	7.80	7.80	8.20	8.20	8.20	8.30	8.30	8.30	8.30	8.20	8.20
26	8.00	7.80	7.90	8.20	7.80	8.10	8.30	8.20	8.30	8.30	8.20	8.30
27	8.10	7.90	8.00	7.90	7.80	7.80	8.30	8.20	8.30	8.40	8.30	8.40
28	8.10	7.90	8.00	7.80	7.80	7.80	8.30	8.20	8.20	8.40	8.30	8.40
29	8.20	8.00	8.10	7.90	7.80	7.90	8.30	8.30	8.30	8.40	8.30	8.40
30	8.20	8.10	8.10	7.90	7.90	7.90	8.30	8.30	8.30	8.40	8.30	8.30
31	8.20	8.10	8.10	---	---	---	8.30	8.30	8.30	8.40	8.30	8.40
MONTH	8.50	7.60	8.12	8.20	7.80	8.02	8.30	7.90	8.16	8.40	8.10	8.29

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03245500 LITTLE MIAMI RIVER AT MILFORD, OH--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.40	8.30	8.40	8.30	8.30	8.30	8.70	8.40	8.50	8.40	8.10	8.20
2	8.40	8.30	8.30	9.30	8.30	8.30	8.70	8.40	8.60	8.40	8.10	8.20
3	8.30	8.20	8.20	8.30	8.30	8.30	8.70	8.50	8.60	8.40	8.10	8.30
4	8.20	7.90	8.00	8.30	8.20	8.30	8.70	8.40	8.50	8.40	8.10	8.30
5	7.90	7.50	7.90	8.40	8.30	8.40	8.60	8.40	8.50	8.60	8.10	8.40
6	8.00	7.90	8.00	8.40	8.30	8.40	8.50	8.30	8.40	8.50	8.20	8.40
7	8.00	7.90	8.00	8.50	8.30	8.40	8.50	8.30	8.40	8.50	8.10	8.30
8	8.10	8.00	8.00	8.50	8.40	8.40	8.50	8.30	8.40	8.10	7.70	7.80
9	8.10	8.10	8.10	8.50	8.40	8.40	8.40	8.30	8.40	7.80	7.70	7.80
10	8.10	8.10	8.10	8.50	8.30	8.40	8.60	8.30	8.50	8.10	7.80	8.00
11	8.20	8.10	8.10	8.30	8.00	8.10	8.60	8.50	8.50	8.10	7.90	8.00
12	8.20	8.20	8.20	8.10	8.00	8.00	8.70	8.50	8.60	7.90	7.80	7.80
13	8.20	8.20	8.20	8.00	7.80	7.90	8.70	8.50	8.60	7.90	7.80	7.80
14	8.20	8.20	8.20	7.90	7.80	7.90	8.60	8.50	8.60	7.90	7.80	7.80
15	8.20	8.20	8.20	8.00	7.90	7.90	8.50	8.50	8.50	7.90	7.80	7.80
16	8.20	8.20	8.20	8.10	8.00	8.00	8.60	8.50	8.50	7.90	7.80	7.90
17	8.20	8.10	8.20	8.10	8.10	8.10	8.60	8.50	8.50	8.00	7.80	7.90
18	8.10	8.00	8.10	8.10	8.10	8.10	8.60	8.50	8.50	8.00	7.90	7.90
19	8.10	8.00	8.10	8.10	7.90	8.00	8.60	8.50	8.50	8.00	7.90	7.90
20	8.10	8.10	8.10	8.10	8.00	8.00	8.50	8.30	8.50	8.00	7.90	7.90
21	8.20	8.10	8.10	8.10	8.10	8.10	8.40	8.30	8.30	[illegible]	8.00	8.00
22	8.20	8.10	8.20	8.20	8.10	8.20	8.50	8.20	8.40	[illegible]	8.10	8.10
23	8.20	8.20	8.20	8.20	8.20	8.20	8.60	8.40	8.50	8.20	8.10	8.10
24	8.20	8.20	8.20	8.20	8.20	8.20	8.70	8.50	8.60	8.30	8.10	8.20
25	8.30	8.20	8.20	8.20	8.20	8.20	8.80	8.60	8.70	8.20	8.10	8.10
26	8.30	8.20	8.20	8.30	8.20	8.20	8.70	8.60	8.60	8.20	8.10	8.10
27	8.30	8.20	8.30	8.30	8.20	8.30	8.60	8.50	8.60	8.10	8.00	8.10
28	8.30	8.30	8.30	8.40	8.20	8.30	8.50	8.30	8.40	8.10	8.00	8.10
29	---	---	---	8.50	8.20	8.40	8.50	8.30	8.40	8.10	7.90	8.00
30	---	---	---	8.50	8.30	8.40	8.40	8.20	8.30	8.00	7.90	7.90
31	---	---	---	8.60	8.30	8.50	---	---	---	8.10	7.90	8.00
MONTH	8.40	7.90	8.15	8.60	7.80	8.21	8.80	8.20	8.50	8.60	7.70	8.04

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.20	7.90	8.00	8.10	7.80	7.90	8.40	8.20	8.30	---	---	---
2	8.20	7.90	8.00	7.90	7.70	7.70	8.40	8.30	8.30	8.50	8.30	8.40
3	8.30	8.00	8.20	7.90	7.80	7.80	8.40	8.30	8.30	8.30	8.10	8.20
4	8.30	8.00	8.20	8.00	7.90	7.90	8.30	8.20	8.20	8.30	8.00	8.10
5	8.40	8.10	8.20	8.10	8.00	8.00	8.30	8.20	8.20	8.40	8.10	8.30
6	8.40	8.10	8.20	8.10	8.00	8.00	8.30	8.20	8.30	8.60	8.30	8.50
7	8.20	7.70	7.90	8.20	8.00	8.10	8.30	8.30	8.30	8.90	8.60	8.80
8	7.80	7.60	7.70	8.30	8.10	8.10	8.30	8.20	8.20	8.80	8.50	8.70
9	7.80	7.70	7.70	8.40	8.10	8.20	9.20	8.20	8.30	8.70	8.50	8.60
10	7.90	7.80	7.80	8.30	7.90	8.10	---	---	---	8.70	8.40	8.60
11	7.90	7.90	7.90	8.00	7.90	7.90	---	---	---	8.60	8.40	8.50
12	7.90	7.90	7.90	8.00	7.90	8.00	---	---	---	8.50	8.10	8.30
13	8.00	7.90	7.90	8.00	7.60	7.80	---	---	---	8.20	8.00	8.10
14	8.00	7.90	7.90	7.90	7.70	7.80	---	---	---	8.20	8.10	8.20
15	8.00	7.90	8.00	8.00	7.90	7.90	---	---	---	8.20	8.10	8.10
16	8.00	8.00	8.00	8.10	8.00	8.00	---	---	---	8.40	8.10	8.20
17	8.20	8.00	8.10	8.10	8.00	8.00	---	---	---	8.60	8.30	8.40
18	8.30	8.10	[illegible]	8.20	8.00	8.10	---	---	---	8.30	8.00	[illegible]
19	8.40	8.10	8.20	8.30	8.10	8.20	---	---	---	8.20	7.90	8.00
20	8.30	8.10	8.20	8.40	8.10	8.30	---	---	---	8.20	8.00	8.10
21	8.20	8.00	8.10	8.50	8.20	8.30	---	---	---	8.30	8.10	8.20
22	8.10	8.00	8.00	8.60	8.30	8.40	---	---	---	8.30	8.10	8.20
23	8.00	7.90	7.90	8.70	8.30	8.50	---	---	---	8.30	8.20	8.30
24	8.10	7.80	8.00	8.70	8.40	8.50	---	---	---	8.20	7.80	8.00
25	8.20	8.00	8.10	8.60	8.40	8.50	---	---	---	7.80	7.80	7.80
26	8.50	8.10	8.30	8.50	8.30	8.40	---	---	---	8.00	7.80	8.00
27	8.60	8.20	8.40	8.30	8.20	8.30	---	---	---	8.00	7.80	7.90
28	8.70	8.30	8.50	8.30	8.20	8.20	---	---	---	7.80	7.60	7.70
29	8.60	8.30	8.40	8.40	8.20	8.30	---	---	---	7.80	7.70	7.80
30	8.40	8.20	8.30	8.40	8.20	8.30	---	---	---	7.90	7.70	7.80
31	---	---	---	8.80	8.30	8.30	---	---	---	---	---	---
MONTH	8.70	7.60	8.07	8.80	7.60	8.12	9.20	8.20	8.27	8.90	7.60	8.21
YEAR	9.20	7.60	8.17									

7378

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	18.0	16.0	17.5	15.5	14.0	15.0	9.5	9.0	9.0	1.0	.0	.5
2	17.0	14.5	16.0	15.5	15.0	15.5	9.0	5.5	7.0	1.5	.5	1.0
3	17.5	15.0	16.0	15.0	14.0	14.5	5.5	4.0	4.5	2.0	1.5	1.5
4	18.0	15.5	16.5	14.0	12.0	13.0	6.5	4.0	5.5	3.0	2.0	2.5
5	16.0	14.0	15.0	12.0	11.5	11.5	7.0	6.5	6.5	3.0	1.5	2.5
6	15.0	13.0	14.0	12.0	11.5	11.5	6.5	5.5	6.5	2.0	1.0	1.5
7	15.5	12.5	14.0	12.5	10.5	11.5	6.5	6.5	6.5	1.5	.0	1.0
8	16.5	13.5	15.0	11.0	9.5	10.5	6.5	5.5	6.0	1.0	.0	.5
9	17.5	14.5	16.0	10.5	10.0	10.5	6.0	5.5	5.5	.5	.0	.5
10	19.0	16.0	17.5	11.5	10.0	11.0	6.5	5.5	6.0	1.0	.0	.5
11	19.0	18.0	18.5	12.5	11.5	12.0	8.5	6.5	7.5	1.5	.5	1.0
12	20.5	18.0	19.0	12.5	12.0	12.5	8.5	7.5	8.0	2.0	.5	1.5
13	21.5	19.5	20.5	13.5	12.5	13.0	7.5	5.5	6.5	1.5	1.0	1.5
14	21.5	20.0	20.5	14.5	13.5	13.5	5.5	3.5	4.5	1.5	.5	1.0
15	21.0	19.0	20.5	14.0	11.5	13.0	3.5	3.0	3.0	2.0	.5	1.0
16	19.5	17.0	18.5	12.0	11.0	11.5	4.0	3.5	3.5	2.5	.5	1.5
17	18.5	16.5	17.5	11.5	11.0	11.0	3.5	2.0	3.0	3.5	2.0	3.0
18	19.0	17.5	18.5	12.5	11.0	11.5	2.0	.5	1.0	4.5	3.5	4.0
19	19.0	18.5	19.0	14.0	12.5	13.0	1.0	.0	.5	4.5	2.5	3.5
20	19.0	17.5	18.5	14.0	11.5	13.0	.5	.0	.5	2.5	2.0	2.5
21	17.5	16.5	17.0	11.5	10.0	10.5	.5	.0	.5	3.0	1.5	2.5
22	16.0	16.0	16.0	10.0	9.0	10.0	1.0	.0	.5	3.0	2.5	3.0
23	17.0	16.0	16.5	9.5	8.5	8.5	1.0	.5	1.0	3.5	2.5	3.0
24	18.5	17.0	18.0	9.0	8.5	9.0	2.0	1.0	1.5	3.5	2.5	3.0
25	18.5	17.0	18.0	9.0	8.5	8.5	1.5	.0	.5	3.5	3.0	3.5
26	17.0	15.5	16.5	13.0	8.5	10.0	.5	.0	.5	3.5	2.0	3.0
27	17.0	15.0	16.0	13.0	10.5	12.0	.5	.5	.5	2.0	.0	1.0
28	16.0	15.0	15.5	10.5	8.5	9.5	.5	.0	.5	.5	.0	.5
29	14.5	13.5	14.0	8.5	8.0	8.5	1.0	.5	.5	.5	.0	.5
30	14.0	13.0	13.5	9.0	8.0	8.5	.5	.0	.5	1.0	.0	.5
31	14.5	13.0	14.0	---	---	---	1.0	.5	.5	1.5	.5	1.0
MONTH	21.5	12.5	17.0	15.5	8.0	11.5	9.5	.0	3.5	4.5	.0	1.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	.5	1.5	3.5	1.5	2.5	17.5	15.0	16.5	20.5	18.5	19.5
2	4.5	2.5	4.0	3.5	2.0	3.0	17.5	15.0	16.5	19.5	17.5	18.5
3	4.5	4.0	4.5	3.5	3.0	3.5	16.5	15.0	16.0	18.5	16.0	17.0
4	7.0	4.5	5.5	4.5	3.5	4.0	18.0	15.0	16.5	19.0	15.0	17.0
5	8.5	7.0	8.0	5.0	3.5	4.5	17.5	16.5	17.0	20.5	16.0	18.5
6	8.0	6.5	7.5	4.5	4.5	4.5	17.0	16.0	16.5	22.5	18.5	20.5
7	6.0	4.0	5.0	4.0	3.0	3.5	18.0	15.0	16.5	23.5	20.5	22.0
8	4.0	3.5	3.5	3.5	2.0	3.0	18.0	16.0	17.0	22.5	19.5	21.0
9	3.5	3.0	3.0	6.5	3.0	5.0	16.0	12.5	14.5	23.0	20.0	21.5
10	3.0	2.0	2.5	9.5	6.5	8.0	13.5	11.5	12.5	23.5	20.5	22.0
11	2.5	2.0	2.0	9.0	8.5	9.0	14.0	11.0	12.5	24.0	21.5	22.5
12	2.0	1.0	1.5	8.5	8.0	8.5	15.0	12.0	13.5	22.5	21.0	22.0
13	1.5	.5	1.0	9.5	8.5	9.0	16.5	13.5	15.0	23.0	20.0	21.5
14	1.0	1.0	1.0	9.0	9.0	9.0	16.5	14.5	15.5	21.5	19.5	21.0
15	2.5	1.0	1.5	10.0	9.0	9.5	15.5	13.0	14.5	22.5	20.0	21.0
16	3.0	2.0	2.5	9.0	7.0	7.5	12.5	11.5	12.0	24.0	21.5	22.5
17	3.5	3.0	3.5	7.5	6.5	7.0	12.0	11.0	11.5	25.5	22.5	24.0
18	5.5	3.0	4.0	7.5	7.0	7.5	15.0	11.0	13.0	24.5	23.5	24.0
19	7.0	5.5	6.5	10.0	7.5	9.0	15.0	13.5	14.5	23.0	20.5	22.0
20	7.5	7.0	7.0	9.0	7.0	8.0	14.5	13.5	14.5	20.5	18.0	19.0
21	7.0	6.0	6.5	6.5	5.0	6.0	13.5	12.5	13.0	17.5	16.5	17.0
22	6.0	4.5	5.0	6.5	4.5	5.5	12.0	10.0	11.0	18.0	15.5	16.5
23	5.0	4.0	4.5	7.5	5.5	6.5	12.0	8.5	10.5	19.0	16.0	17.5
24	4.5	4.0	4.5	9.0	6.5	8.0	14.0	10.0	12.0	21.0	17.0	19.0
25	5.0	3.5	4.0	11.5	8.0	9.5	16.5	13.0	14.5	20.0	19.0	19.5
26	4.0	3.5	3.5	12.5	10.5	11.5	19.5	16.0	17.5	20.0	18.5	19.5
27	3.5	3.0	3.5	13.0	11.0	12.0	22.0	18.0	20.0	22.0	19.0	20.5
28	3.0	2.0	2.5	13.0	10.5	11.5	21.0	19.5	20.5	22.5	21.0	21.5
29	---	---	---	14.0	11.0	12.5	21.5	18.0	19.5	24.0	21.5	22.5
30	---	---	---	15.0	12.0	13.5	20.0	18.5	19.5	25.0	22.0	23.5
31	---	---	---	17.0	13.5	15.5	---	---	---	26.5	23.0	24.5
MONTH	8.5	.5	4.0	17.0	1.5	7.5	22.0	8.5	15.0	26.5	15.0	20.5

BEST COPY AVAILABLE

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^2, 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: Dec. 17 to Jan. 19 and Jan. 30 to Feb. 3. 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^3/s, 10 years (water years 1977-86) 425 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,700 ft^3/s Apr. 2, 1970, gage height, 20.31 ft; minimum daily, 0.14 ft^3/s Sept. 23, 27, 1967. Maximum discharge since start of construction of East Fork Dam 31,[illegible] ft^3/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^3/s, from flood study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,290 ft^3/s June 13, gage height, 11.51 ft; minimum daily, 21 ft^3/s Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	106	133	30	84	257	135	32	179	133	21	35
2	34	49	133	32	86	207	133	32	123	268	[illegible]	32
3	33	41	1220	35	150	166	132	31	151	839		32
4	33	110	2660	40	898	151	128	31	110	1150	34	32
5	32	268	2640	40	2030	177	72	31	49	776	34	34
6	32	107	2610	40	2600	346	53	31	54	317	34	34
7	31	104	2570	40	2630	498	38	237	57	63	34	34
8	31	104	2420	40	2570	332	37	136	98	30	34	34
9	32	106	1780	40	2540	192	36	54	202	34	31	34
10	32	105	1070	35	2270	196	37	40	256	39	36	34
11	33	68	624	27	1300	325	37	165	416	47	35	45
12	34	215	1160	27	530	557	40	158	1720	136	32	108
13	37	589	1780	27	529	805	35	43	3120	285	32	114
14	38	1100	1540	27	400	1530	35	155	2250	456	33	79
15	39	1090	843	27	196	2220	35	139	692	598	34	79
16	40	1280	305	27	173	2620	35	394	254	497	34	85
17	40	1570	170	27	392	2580	35	393	196	197	34	91
18	93	1960	140	27	832	2250	35	179	126	113	34	54
19	23	2740	95	40	1440	1510	35	143	105	46	34	67
20	73	2490	86	99	1480	988	35	93	78	35	34	132
21	251	3070	84	136	984	853	35	91	160	34	34	109
22	459	2760	90	203	599	414	35	74	258	34	32	79
23	1090	1510	96	395	259	219	34	47	258	34	33	79
24	1100	820	90	510	259	219	34	41	254	34	34	220
25	1100	496	64	509	259	167	34	34	211	34	34	369
26	539	246	35	506	259	70	34	36	104	34	32	325
27	427	670	27	502	261	94	33	77	55	34	52	78
28	120	1240	30	341	258	132	32	168	34	34	41	77
29	106	1670	40	134	---	133	32	395	34	34	39	507
30	107	2010	40	84	---	133	32	429	34	34	38	798
31	106	---	35	80	---	134	---	243	---	29	34	---
TOTAL	6185	28444	24610	4127	26268	20475	1493	4152	11647	6433	1063	3830
MEAN	200	948	794	133	938	660	49.8	134	388	208	34.3	128
MAX	1100	3070	2660	510	2630	2620	135	429	3120	1150	52	798
MIN	23	41	27	27	84	70	32	31	34	29	21	32

CAL YR 1985 TOTAL 146772 MEAN 402 MAX 3170 MIN 16
WTR YR 1986 TOTAL 138727 MEAN 380 MAX 3120 MIN 21

7378

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^2.

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: Nov. 8-15, Dec. 17 to Jan. 19, Jan. 30 to Feb. 3 and Mar. 1-10. 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.--63 years (1915-17, 1925-86). 552 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,400 ft^3/s Mar. 10, 1964, gage height, 23.84 ft; minimum daily, 0.4 ft^3/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^3/s Aug. 30, 1974, gage height, 19.52 ft, result of failure of cofferdam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,400 ft^3/s Mar. 13, gage height, 13.61 ft; minimum daily, 29 ft^3/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	121	269	50	110	320	105	52	209	966	33	34
2	36	72	255	58	110	270	89	50	137	850	35	38
3	36	85	903	68	190	220	79	51	133	791	38	33
4	35	163	2920	68	1490	200	78	50	123	142[illegible]	37	36
5	35	233	2910	68	2860	220	73	49	64	87[illegible]	39	35
6	35	129	2900	68	3060	450	74	49	84	420	39	34
7	34	120	2870	68	3280	580	73	360	233	75	39	32
8	35	110	2780	62	3080	380	69	1160	181	50	38	33
9	31	110	2240	56	2940	260	64	150	172	44	39	34
10	33	110	1520	52	2750	350	67	94	218	58	47	35
11	32	100	1820	49	1910	1010	66	114	292	90	54	45
12	34	230	2000	48	666	1570	66	255	2420	244	46	215
13	36	700	2340	48	649	5280	64	155	3150	402	39	108
14	36	1300	2070	48	576	2290	62	697	2690	423	38	63
15	38	2100	1300	48	249	2660	72	257	987	600	35	57
16	36	4260	457	48	217	2940	67	384	221	544	32	53
17	36	2280	190	48	1210	2910	68	518	213	229	34	59
18	81	2660	150	48	1460	2650	65	188	115	113	55	63
19	35	3020	130	150	1950	2240	62	161	109	62	42	29
20	1320	2780	120	323	2070	1440	79	99	117	47	36	82
21	364	3160	120	281	1350	1200	118	96	179	43	35	82
22	786	2850	130	640	974	576	115	94	225	41	34	57
23	1380	1730	140	553	333	283	85	70	217	42	35	56
24	1410	957	130	651	309	264	74	61	200	41	35	513
25	1190	569	90	664	311	234	69	51	189	41	33	469
26	413	788	64	659	323	123	66	64	105	40	33	347
27	337	4930	60	588	338	133	64	154	67	40	90	192
28	115	3640	52	447	324	172	59	150	50	38	42	164
29	110	2120	70	190	---	170	57	322	44	38	38	348
30	114	1940	70	110	---	164	55	497	43	38	36	895
31	119	---	60	100	---	155	---	212	---	37	35	---
TOTAL	8375	43367	31130	6367	35089	31714	2204	6664	13187	8744	1231	4241
MEAN	270	1446	1004	205	1253	1023	73.5	215	440	282	39.7	141
MAX	1410	4930	2920	664	3280	5280	118	1160	3150	1420	80	895
MIN	31	72	52	48	110	123	55	49	43	37	32	29

CAL YR 1985 TOTAL 222627 MEAN 610 MAX 5460 MIN 22
WTR YR 1986 TOTAL 192313 MEAN 527 MAX 5280 MIN 29

7378

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^2.

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: Nov. 27, Dec. 12, Dec. 16 to Jan. 17, Jan. 27 to Feb. 2, Mar. 26 to Apr. 17, July 15 to Aug. 15, Sept. 24-30. Records fair except for periods of estimated record, which are poor. 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^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	0300	1,940	10.24	Mar 13	0230	2,070	10.58
Nov. 16	0130	3,200	13.39	Mar 19	0230	1,870	10.06
Nov. 26	2200	*4,820	*17.25	May 8	0030	2,680	12.09
Nov. 28	0700	1,730	9.74	Sept. 24	0930	2,100	--
Dec. 11	1400	1,710	9.69				

Minimum daily 2.2 ft^3/s Sept. 14, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	19	118	11	23	54	47	25	19	204	21	9.7
2	7.6	35	142	12	50	51	60	20	19	314	20	17
3	6.3	145	111	14	111	55	43	17	15	42	17	16
4	7.2	66	59	14	1010	56	37	15	15	21	15	14
5	9.0	29	68	13	302	52	31	18	16	16	17	14
6	6.7	23	68	12	277	57	28	18	288	13	16	12
7	6.8	40	45	11	532	45	25	264	158	14	18	11
8	7.0	30	41	11	160	32	30	924	77	13	18	11
9	7.4	28	39	10	101	36	25	100	31	16	17	12
10	10	113	52	9.5	77	175	26	54	27	257	250	13
11	7.1	1440	868	8.8	69	137	23	38	91	145	220	167
12	6.2	867	480	8.4	61	236	18	35	101	262	40	222
13	6.2	270	161	8.4	47	1020	15	38	26	75	20	6.2
14	9.2	262	94	8.4	46	237	30	215	19	54	13	2.2
15	25	356	69	8.4	47	138	66	87	16	45	14	3.2
16	8.7	2370	60	8.5	47	91	30	89	21	36	14	2.7
17	9.2	898	50	25	223	76	24	77	48	38	187	2.2
18	10	156	40	70	180	104	21	117	18	36	15	7.6
19	41	104	35	378	108	886	27	53	16	30	12	5.0
20	764	75	27	196	76	161	150	35	63	21	13	4.1
21	57	60	24	145	107	92	115	30	21	19	12	2.5
22	19	50	23	223	66	70	45	28	14	18	9.1	2.6
23	17	39	22	103	53	58	33	27	62	18	36	2.8
24	63	34	19	78	81	51	28	21	16	17	15	530
25	27	55	18	74	68	51	25	26	12	19	9.2	35
26	12	1000	17	62	76	60	25	81	11	21	11	100
27	9.0	2000	16	35	101	94	20	148	10	15	420	350
28	9.0	1600	14	30	67	75	22	39	11	17	66	60
29	11	329	12	25	---	58	22	50	13	19	14	40
30	22	171	11	23	---	48	19	32	71	19	12	15
31	17	---	11	23	---	40	---	22	---	21	9.8	---
TOTAL	1238.6	12664	2814	1658.4	4166	4396	1110	2743	1325	1849	1571.1	1709.8
MEAN	40.0	422	90.8	53.5	149	142	37.0	88.5	44.2	59.6	50.7	57.0
MAX	764	2370	868	378	1010	1020	150	924	288	314	420	530
MIN	6.2	19	11	8.4	23	32	15	15	10	13	9.1	2.2

CAL YR 1985 TOTAL 39794.0 MEAN 109 MAX 2370 MIN 5.7
WTR YR 1986 TOTAL 37244.9 MEAN 102 MAX 2370 MIN 2.2

7378

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^2.

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: Dec. 16 to Jan. 17, Jan. 28 to Feb. 4 and Sept. 24-30. Records good except those for period of estimated record, which are fair. Some inter-basin transfers of water between Mill Creek and Great Miami River basins by industrial and municipal operations. Flow regulated by West Fork Mill 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^3/s Sept. 14, 1979, gage height, 21.82 ft present datum, from rating curve extended above 4,000 ft^3/s on basis of slope-area measurement of peak flow; no flow many days in 1947-48.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,850 ft^3/s Nov. 26, gage height 19.67 ft; minimum daily, 4.4 ft^3/s Oct. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	24	215	13	26	51	53	26	24	206	17	5.8
2	6.6	56	182	14	60	47	74	19	24	318	17	17
3	4.8	166	519	17	134	52	46	14	20	129	13	15
4	5.3	153	439	17	1120	51	44	11	18	28	12	12
5	10	62	92	16	393	50	39	14	18	18	14	11
6	5.8	32	71	15	440	52	35	15	266	13	13	8.5
7	5.7	49	40	14	761	45	29	191	223	14	15	7.3
8	6.7	45	45	13	348	293	35	896	186	14	15	7.7
9	7.8	53	37	12	163	32	30	181	66	16	13	9.6
10	12	120	48	11	103	184	31	70	34	238	235	10
11	8.9	795	1030	10	92	173	29	46	105	118	179	127
12	7.0	767	737	10	70	270	19	45	141	363	24	400
13	6.5	592	339	10	69	1190	16	46	71	283	17	116
14	10	441	121	10	59	426	36	301	32	69	11	14
15	28	482	99	10	57	492	85	138	20	30	11	14
16	12	2070	78	18	59	156	58	134	22	25	12	14
17	11	592	72	20	207	103	29	81	80	31	337	8.4
18	13	526	56	74	195	133	19	161	64	30	69	21
19	53	470	40	398	143	985	25	112	24	23	25	17
20	724	99	32	245	117	314	161	72	74	15	20	12
21	258	82	28	258	185	139	175	38	39	15	19	7.8
22	211	73	27	320	170	122	104	34	41	15	15	7.6
23	33	46	26	183	64	96	84	33	103	15	53	8.9
24	65	39	24	152	112	74	75	27	50	14	40	460
25	30	53	22	101	137	67	27	34	16	16	35	48
26	35	1140	20	80	81	80	24	89	12	17	16	110
27	5.6	2130	19	59	109	116	30	192	11	12	244	300
28	4.4	1220	16	35	71	95	32	95	11	14	70	120
29	5.5	729	14	29	---	73	22	99	16	16	15	30
30	24	867	13	26	---	49	17	69	84	16	8.9	20
31	14	---	13	25	---	47	---	29	---	17	6.8	---
TOTAL	1657.6	13973	4514	2215	5545	6057	1483	3312	1895	2148	1591.7	1959.6
MEAN	53.5	466	146	71.5	198	195	49.4	107	63.2	69.3	51.3	65.3
MAX	724	2130	1030	398	1120	1190	175	896	266	363	337	460
MIN	4.4	24	13	10	26	32	16	11	11	12	6.8	5.8

CAL YR 1985 TOTAL 55010.1 MEAN 151 MAX 2130 MIN 3.8
WTR YR 1986 TOTAL 46350.9 MEAN 127 MAX 2130 MIN 4.4

7378

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^2.

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1962, published as Buckongahelac 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: Dec. 17 through Jan. 18, Jan. 26-29, Feb. 12, 13, Apr. 9 through May 23. 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.--29 years, 33.3 ft^3/s, 12.46 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft^3/s Jan. 21, 1959, gage height, 6.83 ft; minimum daily, 2.2 ft^3/s Sept. 29, 30, Oct. 7, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft /s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 26	2330	516	4.83	Mar. 19	0830	420	4.16
Dec. 11	2030	*517	*4.84	Apr. 21	0245	410	4.09
Feb. 4	1815	411	4.10	Sept. 25	0645	305	3.36
Mar. 11	0030	409	4.08	Sept. 30	2245	318	3.45
Mar. 13	0800	457	4.42				

Minimum daily discharge, 5.4 ft^3/s Oct. 6, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	6.9	83	16	27	37	39	76	31	23	12	8.2
2	6.4	6.6	71	16	63	36	42	98	26	54	11	8.9
3	6.3	13	55	15	51	39	38	90	25	32	10	8.3
4	6.4	16	45	15	274	40	37	74	23	21	10	13
5	6.3	14	40	15	250	48	37	64	24	19	10	12
6	5.4	13	36	15	139	63	42	60	74	19	10	8.4
7	6.2	13	31	14	150	50	40	66	130	19	11	7.7
8	6.3	11	30	14	94	42	42	80	62	19	9.9	7.9
9	6.3	14	28	14	74	42	41	76	44	22	9.3	7.7
10	6.0	39	40	14	61	110	36	66	38	19	11	7.6
11	7.5	37	350	14	53	234	34	60	37	20	11	8.5
12	6.1	33	303	14	42	109	32	54	36	28	9.3	36
13	5.4	45	157	14	36	324	30	50	30	19	8.9	13
14	7.9	48	102	14	34	177	35	52	25	19	8.8	9.6
15	5.6	34	75	14	31	114	62	100	23	18	8.6	9.1
16	6.2	58	64	14	30	85	58	160	22	47	8.4	8.5
17	6.0	44	50	25	63	71	52	140	22	26	32	8.4
18	6.0	28	40	45	94	67	50	110	20	19	13	37
19	5.8	25	35	171	83	271	47	100	19	19	10	41
20	6.5	22	32	109	66	134	110	90	23	18	9.4	17
21	8.0	20	29	66	102	86	230	80	19	17	10	16
22	7.1	19	27	62	77	74	142	70	19	16	9.0	14
23	6.7	19	26	49	60	67	120	62	27	15	10	15
24	9.8	18	24	40	59	60	100	48	19	14	12	16
25	7.7	18	22	37	55	57	92	39	19	13	8.5	180
26	6.1	168	21	35	52	56	86	37	19	20	12	67
27	5.5	327	20	33	47	54	80	64	19	14	38	115
28	5.9	268	19	29	41	49	76	48	28	13	14	51
29	6.6	151	19	25	---	46	72	40	19	15	11	39
30	6.8	102	18	23	---	42	70	43	27	13	9.2	91
31	7.1	---	17	22	---	40	---	36	---	12	8.7	---
TOTAL	205.3	1630.5	1909	1003	2208	2724	1972	2233	949	642	366.0	881.8
MEAN	6.62	54.4	61.6	32.4	78.9	87.9	65.7	72.0	31.6	20.7	11.8	29.4
MAX	9.8	327	350	171	274	324	230	160	130	54	38	180
MIN	5.4	6.6	17	14	27	36	30	36	19	12	8.4	7.6
CFSM	.18	1.50	1.70	.89	2.17	2.42	1.81	1.98	.87	.57	.33	.81
IN.	.21	1.67	1.96	1.03	2.26	2.79	2.02	2.29	.97	.66	.38	.90

CAL YR 1985	TOTAL	11262.7	MEAN	30.9	MAX	458	MIN	2.4	CFSM	.85	IN.	11.54
WTR YR 1986	TOTAL	16723.6	MEAN	45.8	MAX	350	MIN	5.4	CFSM	1.26	IN.	17.14

000180

7378

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^2.

PERIOD OF RECORD.--February 1914 to current year. Prior to October 1962, published as Miami River 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. September 18, 1919 to August, 1925, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Dec. 20 to Jan. 20, Jan. 29, 30, Feb. 14-16. Records good except for periods of estimated record which are 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 4.65 ft^3/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; amoount of diversion not published. Sediment data collected at this site 1967 to 1975.

COOPERATION.--Gage-height tapes, and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--61 years, (1925-86) 480 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,700 ft^3/s Mar. 22, 1927, gage height 14.4 ft, from rating curve extended above 8,700 ft^3/s on basis of velocity-area studies; maximum gage height, 15.91 ft Jan. 21, 1959; minimum discharge, 1.5 ft^3/s Aug. 13, 1963, result of temporary storage behind dam upstream; minimum daily discharge, 8.0 ft^3/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^3/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 26	2200	5,810	8.85	Mar. 13	1200	4,630	7.88
Dec. 11	2030	*6,440	*9.38	Sept 25	0430	4,690	7.93
Feb. 5	0430	4,690	7.93				

Minimum daily discharge 28 ft^3/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	56	1550	160	262	419	302	344	289	663	169	73
2	31	55	1230	150	735	390	333	475	273	2520	140	68
3	32	60	825	150	963	377	295	392	259	1890	124	65
4	31	79	557	140	3000	413	250	284	177	1120	111	65
5	33	96	449	130	4510	704	245	230	232	599	98	79
6	35	108	395	130	3820	1300	251	219	1420	405	88	97
7	32	91	342	130	3940	1170	308	257	2190	304	89	77
8	31	76	310	120	2980	699	291	344	1270	243	108	69
9	32	83	290	120	2160	493	326	291	710	208	97	62
10	29	179	475	120	1530	789	321	259	452	256	91	56
11	28	527	4520	120	979	2850	286	214	360	331	94	65
12	32	473	5650	120	612	2160	234	204	318	1240	108	117
13	41	922	4240	120	416	4090	190	201	282	1030	94	136
14	37	1100	3080	110	380	3590	191	181	242	662	79	96
15	44	941	2120	110	360	2520	219	216	220	422	73	76
16	47	1050	1470	110	350	1850	226	1970	215	1230	71	65
17	44	1260	946	250	485	1330	231	1670	202	1520	71	66
18	53	744	473	800	1340	901	243	1030	208	970	95	138
19	50	507	408	2000	1800	2980	185	868	154	507	78	618
20	48	534	350	2400	1580	2750	651	708	774	345	71	235
21	54	504	320	1740	1820	1920	3050	494	613	280	69	204
22	59	478	290	1370	1730	1270	2690	403	356	216	75	151
23	51	401	270	986	1260	795	1920	432	778	163	79	139
24	53	334	240	681	960	658	1290	432	426	136	72	260
25	63	316	220	553	871	530	797	351	285	128	75	3350
26	61	2030	210	519	752	452	588	327	201	184	73	1970
27	53	4760	200	424	651	467	485	893	162	200	141	1950
28	47	4240	190	319	511	423	416	880	250	166	207	1380
29	45	3130	180	290	---	352	363	539	239	636	146	875
30	44	2170	170	270	---	322	338	395	365	449	97	834
31	45	---	160	258	---	315	---	344	---	247	80	---
TOTAL	1315	27298	32130	14900	40757	39279	17515	15847	13922	19270	3063	13536
MEAN	42.4	910	1036	481	1456	1267	584	511	464	622	98.8	451
MAX	63	4760	5650	2400	4510	4090	3050	1970	2190	2520	207	3350
MIN	28	50	160	110	262	315	185	181	154	128	69	56

CAL YR 1985	TOTAL	164003	MEAN	449	MAX	6610	MIN	28
WTR YR 1986	TOTAL	238832	MEAN	654	MAX	5650	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^2.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WRD Ohio 1971: 1966(M). WRD Ohio 1985-1: 1984 (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: Dec. 23 through Jan. 16 and Feb. 10-27. 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 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--22 years, 133 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft^3/s June 14, 1981, maximum gage height, 14.08 ft Feb. 24, 1975; minimum daily, 0.10 ft^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	0930	2,200	11.36	Feb. 5	0730	1,710	10.70
Dec. 12	0330	*3,350	*12.47	Mar. 19	1800	1,580	10.47

Minimum daily discharge 1.3 ft^3/s Oct.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	10	272	13	41	86	36	86	87	238	14	2.1
2	2.3	11	176	12	253	76	39	85	59	833	8.6	2.1
3	1.7	17	150	12	287	75	32	55	27	437	5.5	2.0
4	1.5	21	105	11	964	97	26	40	10	204	4.2	3.3
5	1.5	16	80	11	1630	291	26	34	21	114	3.6	3.7
6	1.9	12	68	10	1100	499	67	31	743	64	3.1	2.9
7	1.6	12	50	10	889	298	97	56	856	38	3.2	2.6
8	1.5	11	44	9.8	605	167	75	53	699	24	3.2	2.5
9	1.3	11	42	9.6	285	123	54	38	315	17	3.2	2.5
10	1.5	32	68	9.4	230	155	39	27	161	14	5.5	2.4
11	1.8	69	1650	9.4	170	467	30	23	110	171	8.9	2.5
12	2.5	79	3080	9.2	140	374	27	21	102	934	4.7	12
13	3.9	179	1790	9.2	120	836	26	19	73	460	3.1	6.9
14	3.8	227	742	9.2	100	638	19	17	41	198	2.6	3.8
15	7.6	209	333	9.2	90	326	34	20	31	108	2.3	2.6
16	9.5	228	184	9.2	80	204	37	170	22	540	2.4	2.8
17	8.6	306	135	44	150	143	38	162	24	984	2.6	2.5
18	8.1	178	87	194	660	128	32	105	16	435	2.6	11
19	9.2	148	65	474	700	1240	26	94	12	200	2.3	169
20	14	223	54	576	430	1120	233	80	62	111	2.6	138
21	21	150	44	324	460	451	1040	55	153	63	4.2	75
22	16	93	38	318	310	228	643	43	94	35	3.0	32
23	13	60	32	228	220	158	289	45	134	20	2.9	19
24	13	43	28	154	210	119	171	41	86	13	3.2	28
25	13	37	25	122	200	87	121	33	42	9.7	2.5	660
26	11	530	22	112	180	78	92	30	22	23	2.5	494
27	11	2020	20	90	150	75	70	148	14	20	9.5	242
28	11	1680	18	72	106	57	56	178	44	12	4.8	152
29	10	1050	16	60	---	48	43	117	39	19	3.3	94
30	10	485	15	45	---	43	40	292	94	36	2.6	178
31	10	---	14	35	---	41	---	167	---	23	2.2	---
TOTAL	225.3	8147	9447	3011.2	10760	8728	3558	2365	4201	6397.7	129.0	2392.2
MEAN	7.27	272	305	97.1	384	282	119	76.3	140	206	4.16	79.7
MAX	21	2020	3080	576	1630	1240	1040	292	856	984	14	660
MIN	1.3	10	14	9.2	41	41	19	17	12	9.7	2.2	2.0

CAL YR 1985 TOTAL 46298.4 MEAN 127 MAX 3770 MIN 1.1
WTR YR 1986 TOTAL 59361.4 MEAN 163 MAX 3080 MIN 1.3

7378

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^2.

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: Dec. 15-19, 23, 24, Dec. 31 through Jan. 16, Feb. 12-15. 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 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--71 years, 210 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s May 7, 1916, gage height, 86.4 ft, present datum, from rating curve extended above 5,400 ft^3/s; minimum daily, 1.4 ft^3/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^3/s, at site upstream from Turtle Creek, drainage area, 211 mi^2, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,460 ft^3/s Dec. 12, gage height, 83.37 ft; minimum daily, 5.7 ft^3/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	8.4	451	38	64	169	82	107	131	421	41	10
2	7.2	8.7	325	36	409	165	82	133	89	1420	30	9.8
3	7.2	10	234	34	441	137	79	101	67	801	27	9.3
4	7.9	13	228	33	1760	160	69	81	47	326	21	8.9
5	7.3	14	152	31	2240	510	64	69	48	179	19	9.7
6	6.8	14	119	30	1650	933	76	62	669	118	17	10
7	6.8	13	97	30	1460	513	144	72	1170	80	18	9.6
8	6.8	12	85	29	1040	277	121	89	990	63	18	9.6
9	6.6	13	81	29	609	208	104	72	496	50	15	9.3
10	6.4	43	148	29	382	367	83	58	258	45	16	8.3
11	5.7	229	2860	29	272	1030	70	48	207	80	19	8.6
12	5.9	168	4110	29	240	682	61	44	134	1450	21	14
13	6.2	443	2980	29	210	1720	58	42	116	809	17	22
14	6.2	448	1300	29	180	1140	54	40	82	305	17	16
15	6.5	340	660	29	150	598	64	57	68	167	16	12
16	6.6	608	400	29	130	365	77	413	57	944	13	9.5
17	7.9	572	300	85	241	262	78	282	51	1250	13	8.4
18	8.4	313	210	294	1220	219	74	179	52	729	14	19
19	7.7	261	150	1120	1180	1970	62	155	45	303	12	102
20	8.3	373	121	1030	712	1670	494	129	77	174	12	181
21	10	260	93	554	787	828	1820	102	166	118	10	103
22	15	176	84	598	576	385	1160	84	132	84	13	63
23	11	123	76	409	364	266	520	75	214	60	12	44
24	11	95	68	271	340	206	294	74	147	45	10	37
25	9.8	79	64	206	332	163	210	65	92	35	10	829
26	8.9	1060	58	198	311	142	163	60	64	39	12	707
27	8.8	3340	54	137	260	135	132	182	49	48	21	542
28	8.4	2770	50	119	188	118	111	244	74	37	12	277
29	7.9	1720	45	112	---	104	97	166	91	36	31	143
30	8.3	860	42	81	---	94	82	304	123	54	21	134
31	8.4	---	40	65	---	88	---	250	---	55	13	---
TOTAL	246.9	14407.1	15685	5772	17748	15624	6585	3839	6066	10325	571	3333.0
MEAN	7.96	480	506	186	634	504	220	124	202	333	18.4	111
MAX	15	3340	4110	1120	2240	1970	1820	413	1170	1450	42	829
MIN	5.7	8.4	40	29	64	88	54	40	45	35	10	8.3

CAL YR 1985 TOTAL 78994.4 MEAN 216 MAX 4660 MIN 3.7
WTR YR 1986 TOTAL 100202.0 MEAN 275 MAX 4110 MIN 5.7

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 & 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^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961, 1962 (published as Miami River at Troy). October 1952 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: Dec. 20 to Jan. 17 and Jan. 29 to Feb. 1. 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 4.4 ft^3/s in 1986 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 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--24 years, 815 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft^3/s Mar. 6, 1963, gage height, 14.66 ft; minimum, 0.50 ft^3/s July 12, 13, 1963, result of temporary storage during repair of dam upstream; minimum daily discharge, 4.3 ft^3/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^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,800 ft^3/s Dec. 12, gage height, 12.03 ft; minimum daily, 44 ft^3/s Oct. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	69	2560	280	430	740	546	498	524	1770	278	130
2	47	74	2150	270	1010	682	525	555	425	4500	220	116
3	44	107	1510	260	1780	654	542	572	408	3650	198	113
4	44	115	1040	260	4260	669	458	469	332	2100	182	107
5	50	106	805	250	7580	1260	431	395	280	1110	175	104
6	59	114	696	240	6140	2470	441	350	2510	689	149	101
7	59	130	609	240	5980	2180	489	375	4200	511	148	111
8	62	118	563	240	4550	1420	497	432	3000	408	137	112
9	58	109	523	230	3310	907	475	455	1800	346	136	101
10	57	223	607	230	2500	1060	492	392	916	316	133	99
11	67	598	6830	230	1820	4150	442	349	740	447	133	104
12	59	613	11700	220	1100	3290	413	266	553	2800	130	138
13	60	1320	8490	220	702	6260	365	289	479	2490	142	159
14	73	1820	5070	220	697	5520	340	287	402	1290	147	185
15	70	1440	3100	210	658	3640	376	311	328	768	128	160
16	64	1530	2280	210	607	2670	391	2480	315	1980	130	146
17	68	2170	1620	250	718	2040	390	2640	316	3540	120	133
18	70	1350	925	729	2620	1510	401	1680	287	2370	114	168
19	79	797	654	2780	3440	5030	369	1300	265	1150	117	496
20	118	884	580	3830	2830	5160	698	1020	1040	660	120	761
21	83	820	500	2720	2820	3320	5160	790	1100	472	119	449
22	64	643	450	2310	2790	2190	4140	639	634	392	112	329
23	68	543	410	1890	2140	1490	2840	529	1060	300	125	268
24	80	449	370	1280	1710	1130	1960	606	786	251	124	280
25	77	412	340	970	1590	955	1290	525	452	223	113	3050
26	72	1830	320	867	1440	800	906	429	354	259	100	3290
27	73	9690	320	746	1230	755	720	473	267	270	122	2960
28	77	8170	310	527	924	743	603	1420	440	270	200	2080
29	75	5910	300	500	---	641	550	918	431	511	231	1350
30	72	3660	290	460	---	590	508	742	761	542	184	871
31	70	---	280	450	---	551	---	778	---	401	152	---
TOTAL	2072	45814	56202	24119	67376	64477	27732	23507	25407	36786	4619	18471
MEAN	66.8	1527	1813	778	2406	2080	924	758	847	1187	149	616
MAX	118	9690	11700	3830	7580	6260	5160	2640	4200	4500	278	3290
MIN	44	69	280	210	430	551	340	266	265	223	100	99

CAL YR 1985 TOTAL 280235 MEAN 768 MAX 13600 MIN 44
WTR YR 1986 TOTAL 396582 MEAN 1087 MAX 11700 MIN 44

7378

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^2.

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). 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 766.11 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 60.01 ft lower, October 1921 to September 1978 at site 650 ft downstream at datum 60.03 ft lower.

REMARKS.--Estimated daily discharges: Dec. 20 to Jan. 18 and Jan. 29, 30. Records good except for period 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.--68 years, 1,003 ft^3/s, 11.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft^3/s Jan. 22, 1959, gage height, 25.44 ft at site and datum then in use; minimum daily, 25 ft^3/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^3/s computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,800 ft^3/s Dec. 12, gage height, 11.41 ft; minimum daily, 72 ft^3/s Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	100	3050	340	556	961	734	750	706	2230	446	183
2	73	102	2490	330	1010	895	721	786	582	5850	336	162
3	73	119	1800	320	1860	675	723	865	523	4460	295	154
4	72	186	1320	350	4170	878	663	707	476	2550	275	152
5	73	112	1050	310	9040	1300	607	605	404	1580	255	146
6	81	148	922	300	7880	2480	627	549	2490	1060	245	149
7	87	157	805	300	7500	2430	668	610	4650	816	210	142
8	91	164	727	290	5900	1690	730	647	3290	670	216	149
9	87	144	655	280	3950	1192	685	705	2100	577	213	149
10	85	384	750	270	2770	1280	696	580	1360	513	221	143
11	88	820	4800	270	2300	4740	641	538	1100	689	226	152
12	97	1360	12800	260	1350	4170	593	466	860	2610	210	188
13	92	1520	11600	260	938	8890	519	437	727	2760	210	258
14	91	2010	7110	260	914	8530	478	452	618	1690	227	261
15	122	1860	3780	260	861	4830	547	427	534	1130	207	221
16	93	1940	2650	260	802	3280	551	2200	496	1470	201	193
17	98	2700	1920	260	974	2430	549	2860	505	2670	197	170
18	102	1875	1260	400	2510	1900	547	1930	436	2590	186	175
19	104	1220	855	2690	3950	5370	532	1500	423	1520	185	180
20	163	1150	740	4720	4290	6620	720	1250	972	977	187	854
21	165	1120	660	3160	3030	4260	5530	1030	1520	749	181	550
22	106	923	580	2560	3140	2650	5420	849	948	629	169	394
23	99	808	520	2130	2350	1900	3500	742	1050	514	159	412
24	119	662	480	1520	1910	1420	2360	764	1110	423	160	297
25	124	587	440	1220	1750	1280	1720	693	690	427	158	2140
26	110	1090	420	1100	1620	1110	1280	618	547	443	155	3110
27	109	8830	400	971	1450	1030	1070	985	426	418	246	2800
28	109	10200	380	755	1160	995	946	1510	934	406	222	2160
29	112	8410	370	700	---	888	856	1160	785	500	314	1460
30	102	4790	360	625	---	808	769	877	885	758	255	985
31	102	---	350	596	---	753	---	962	---	612	205	---
TOTAL	3151	55297	66094	28032	78655	81873	35981	29013	32077	45241	6994	18700
MEAN	102	1843	2132	904	2809	2641	1199	936	1069	1459	225	623
MAX	165	10200	12800	4720	9040	8890	5530	2860	4650	5850	446	3110
MIN	72	100	350	260	556	753	478	427	404	377	155	133
CFSM	.09	1.60	1.86	.79	2.44	2.30	1.04	.81	.93	1.27	.20	.54
IN	.10	1.79	2.14	.91	2.55	2.65	1.16	.94	1.04	1.46	.23	.61

CAL YR 1985 TOTAL 364932 MEAN 1000 MAX 15700 MIN 72 CFSM .87 IN. 11.82
WTR YR 1986 TOTAL 481108 MEAN 1318 MAX 12800 MIN 72 CFSM 1.15 IN. 15.58

000185

BEST COPY AVAILABLE

7378

03264000 GREENVILLE CREEK NEAR BRADFORD, OH

LOCATION --Lat 40°06'08", long 84°25'46", in SW 1/4 sec. 34, T.9 N., R.4 E., Miami County, Hydrologic Unit 05090001, on left bank at downstream side of bridge on State Highway 721, 0.5 mi downstream from small left bank tributary, 1.8 mi south of Bradford, and 6 mi upstream from mouth.

DRAINAGE AREA.--193 mi^2.

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: Dec. 20 to Jan. 18, Jan. 29 to Feb. 1, Feb. 14, 15, Feb. 26 to Mar. 4. Records fair except for estimated daily discharges which are poor. Some diurnal fluctuation caused by mill 6 mi upstream from station; daily flows are not affected appreciably. Sediment data collected at this site 1970 to 1974.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--56 years, 173 ft^3/s, 12.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,320 ft^3/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^3/s Sept. 17, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 12.1 ft, discharge, 18,200 ft^3/s, at site with drainage area of 233 mi^2, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 28	0200	2,060	5.87	Feb. 5	0630	1,540	5.05
Dec. 12	1700	*2,590	*6.91	Mar. 20	0230	1,650	5.76

Minimum daily discharge 15 ft^3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	27	447	66	98	160	139	185	142	975	58	30
2	22	29	376	64	202	150	138	158	121	1170	52	29
3	21	31	259	62	265	150	131	156	106	682	50	31
4	20	37	202	60	893	150	128	147	101	362	49	32
5	20	32	179	58	1460	254	126	140	101	242	48	32
6	17	27	157	56	879	395	137	140	492	182	45	30
7	18	27	133	54	950	322	144	211	859	148	44	28
8	19	28	114	54	716	221	130	710	427	125	46	28
9	21	29	117	52	497	289	120	451	268	112	43	27
10	21	57	153	52	368	292	115	275	198	103	40	27
11	22	214	1460	50	287	613	112	213	334	148	46	28
12	21	195	2730	49	233	427	108	178	229	672	46	56
13	21	424	1730	48	200	955	107	156	169	492	40	50
14	22	464	734	46	190	725	102	145	135	279	5	38
15	27	248	515	47	170	437	126	157	119	231	38	33
16	33	242	393	47	154	314	121	847	109	219	39	30
17	30	462	330	70	208	257	112	608	154	175	5	28
18	28	249	278	130	806	241	104	358	152	133	41	50
19	28	274	234	441	781	1200	105	274	110	115	39	196
20	42	335	180	432	491	1200	293	219	198	100	36	162
21	52	149	160	256	403	537	1140	189	303	9	35	182
22	43	140	140	299	333	375	762	171	157	61	40	100
23	34	139	120	294	267	303	407	154	133	72	38	70
24	40	117	110	219	239	247	297	138	109	68	31	59
25	27	97	92	192	218	218	248	125	89	65	36	59
26	27	508	90	183	200	206	214	122	79	164	34	53
27	26	1746	86	151	180	190	186	281	74	148	57	50
28	24	1810	80	129	170	174	168	264	403	97	54	60
29	24	1130	76	120	---	167	152	208	514	80	41	59
30	24	626	72	110	---	156	143	221	589	69	32	52
31	25	---	68	100	---	145	---	171	---	63	33	---
TOTAL	805	10939	11746	3993	11868	11382	6258	7844	6975	7662	1300	1714
MEAN	26.0	335	379	129	424	367	209	253	233	247	41.9	57.1
MAX	52	1810	2730	441	1460	1200	1140	847	859	1170	58	196
MIN	16	27	66	47	98	145	102	122	74	63	30	27
CFSM	.13	1.74	1.96	.67	2.20	1.90	1.08	1.31	1.21	1.28	.22	.30
IN.	.16	1.93	2.26	.77	2.29	2.19	1.21	1.51	1.34	1.48	.25	.33

CAL YR 1985	TOTAL	69902	MEAN	192	MAX	3490	MIN	14	CFSM	.99	IN.	13.47
WTR YR 1986	TOTAL	81586	MEAN	224	MAX	2730	MIN	16	CFSM	1.16	IN.	15.73

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 Lauer 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^2.

PERIOD OF RECORD.--October 1916 to September 1926, 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 816.73 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 23, 1934, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 20 to Jan. 17 and Jan. 29 to Feb. 1. 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 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--64 years, 446 ft^3/s, 12.04 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft^3/s Jan. 14, 1937, from rating curve extended above 14,500 ft^3/s on basis of velocity-area study; maximum gage height, 18.46 ft June 29, 1980; minimum discharge observed, 4 ft^3/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^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	1530	7,560	10.77	Feb. 5	0330	5,210	8.73
Dec. 12	0600	*10,400	*12.75	Mar. 19	1600	5,400	8.91

Minimum daily discharge 25 ft^3/s Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	43	1190	120	200	354	259	318	278	3200	100	44
2	25	48	1080	110	551	338	256	357	224	4210	91	4
3	31	64	698	110	755	329	241	284	189	2250	85	4[illegible]
4	31	69	506	110	3110	345	232	248	173	919	82	4[illegible]
5	29	64	426	100	4640	824	226	237	172	564	75	43
6	28	55	371	100	2570	1570	238	232	1850	368	70	40
7	26	52	309	100	2760	932	277	323	3410	295	72	3[illegible]
8	26	54	285	100	1880	548	250	973	1480	242	73	36
9	26	56	268	98	1210	463	224	702	754	214	69	35
10	28	125	370	98	868	741	207	423	478	195	66	35
11	29	627	5490	96	652	2240	196	323	631	255	72	40
12	33	637	9470	96	493	1200	187	271	466	2830	73	76
13	31	1560	4730	96	401	3510	178	239	331	2320	65	8[illegible]
14	32	1680	1720	96	393	2150	171	224	258	806	55	69
15	37	826	998	96	339	1130	202	230	223	527	[illegible]1	54
16	40	1180	719	96	293	768	207	1470	204	865	53	45
17	46	1520	552	120	422	596	190	1170	222	944	50	40
18	46	712	380	476	2410	529	176	638	247	395	55	75
19	46	539	300	1470	2630	4260	172	500	183	275	50	229
20	77	1690	270	1360	1420	3210	667	387	453	223	46	270
21	79	696	240	665	1230	1270	4090	318	774	190	45	402
22	83	450	210	820	960	841	2010	279	344	162	57	192
23	61	341	190	755	685	675	989	250	323	140	59	119
24	54	270	170	525	609	530	679	222	1267	125	43	99
25	49	229	160	445	572	450	530	200	185	120	45	110
26	44	1710	140	438	583	420	439	195	152	238	51	103
27	46	7270	140	346	533	380	368	473	138	251	81	132
28	42	6150	140	271	405	335	329	553	479	171	92	117
29	37	3470	130	240	---	316	299	348	827	138	74	119
30	39	1750	130	220	---	296	269	698	1320	120	52	106
31	40	---	120	200	---	273	---	398	---	108	47	---
TOTAL	1266	33337	31902	9973	33594	31823	14758	13483	17035	23690	1998	2879
MEAN	40.8	1111	1029	322	1200	1027	492	435	568	764	64.5	96.0
MAX	83	7270	9470	1470	4640	4260	4090	1470	3410	4210	100	402
MIN	25	43	120	96	200	273	171	195	138	108	43	35
CFSM	.08	2.21	2.05	.64	2.39	2.04	.98	.86	1.13	1.52	.13	.19
IN.	.09	2.47	2.36	.74	2.48	2.35	1.09	1.00	1.26	1.75	.15	.21

CAL YR 1985 TOTAL 181076 MEAN 496 MAX 10700 MIN 20 CFSM .99 IN. 13.39
WTR YR 1986 TOTAL 215738 MEAN 591 MAX 9470 MIN 25 CFSM 1.17 IN. 15.96

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^2.

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: Dec. 20 to Jan. 17, Jan. 29 to Feb. 1. Records good except for periods of estimated record, which are fair. Flood flow regulated by Englewood retarding basin.

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--61 years, 582 ft^3/s, 12.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,980 ft^3/s June 15, 1958, gage height, 80.88 ft; minimum, 3.7 ft^3/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^3/s at site 1 mi downstream, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,590 ft^3/s Dec. 13, gage height, 78.68 ft; minimum, 29 ft^3/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	51	2730	180	260	462	336	370	377	3190	142	69
2	35	60	1570	170	507	442	331	410	295	4230	135	69
3	33	71	1140	170	1070	434	313	368	246	4280	125	64
4	35	89	779	160	2150	429	299	307	222	1820	118	67
5	38	83	622	160	4380	627	291	288	214	879	112	67
6	36	75	528	150	4650	1610	308	280	1640	561	105	62
7	36	71	426	150	3980	1430	323	331	3850	404	98	59
8	34	66	376	140	3240	826	330	925	2900	355	98	58
9	32	65	352	140	1890	630	293	1120	1220	293	99	55
10	32	186	395	140	1340	682	271	596	734	265	102	55
11	32	849	2040	140	1010	2150	256	409	768	547	107	72
12	32	1180	5330	130	726	1940	245	334	871	2630	100	216
13	33	1790	6540	130	487	2140	233	295	513	3590	97	131
14	37	2410	5910	130	484	3950	227	277	364	1580	91	109
15	40	1350	4380	130	471	2160	250	271	299	822	81	89
16	37	1380	1430	130	390	1250	263	1510	271	696	81	74
17	27	2130	874	150	490	917	250	1790	272	1450	79	65
18	40	1220	610	291	1780	789	232	990	282	639	82	77
19	42	756	406	1190	2990	2200	223	683	253	385	78	159
20	65	1080	350	2030	2270	4170	407	516	267	302	76	274
21	93	1050	320	1080	1600	3080	3450	405	881	257	75	346
22	94	636	300	1100	1440	1310	3680	347	516	225	69	304
23	91	452	260	1190	1050	1020	1660	311	338	198	74	182
24	86	349	250	820	857	812	1040	278	326	181	71	145
25	77	298	240	647	803	650	788	249	246	164	65	131
26	62	645	230	620	771	585	630	241	199	226	74	135
27	57	3910	220	522	781	532	502	502	178	298	135	156
28	57	5690	210	318	578	454	431	831	533	242	118	175
29	53	5950	200	300	---	414	393	512	1180	192	108	148
30	51	5000	190	280	---	388	354	737	887	166	91	146
31	50	---	180	270	---	357	---	644	---	152	74	---
TOTAL	1515	38942	39418	13158	42445	40070	18609	17117	21142	31219	2961	3761
MEAN	48.9	1298	1272	424	1516	1293	620	552	705	1007	95.5	125
MAX	94	5950	6540	2030	4650	4170	3680	1790	3850	4280	142	348
MIN	32	51	180	130	260	357	223	241	178	152	65	55
CFSM	.08	2.00	1.96	.65	2.33	1.99	.95	.85	1.08	1.55	.15	.19
IN.	.09	2.23	2.26	.75	2.43	2.29	1.07	.98	1.21	1.79	.17	.22

CAL YR 1985	TOTAL	230057	MEAN	630	MAX	7340	MIN	30	CFSM	.97	IN.	13.17
WTR YR 1986	TOTAL	270357	MEAN	741	MAX	6540	MIN	32	CFSM	1.14	IN.	15.47

7378

03257000 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^2.

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 905.22 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: Dec. 19 to Jan. 16, Apr. 1. Records good except for periods of estimated record which are fair. Sediment data collected a this site 1970 to 1974.

COOPERATION.--Gage-height tapes, and 7 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--53 years, 146 ft^3/s, 12.24 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft^3/s Jan. 22, 1959, gage height 12.05 ft, from rating curve extended above 4,000 ft^3/s on basis of estimate of peak flow based on contracted-opening measurement at site 3 mi downstream with drainage area of 235 mi^2 adjusted to gage site by 0.8 power of the drainage-area ratio; minimum discharge, 2.1 ft^3/s Jan. 21, 1963, gage height, 2.33 ft, result of freezeup; minimum daily, 24 ft^3/s Feb. 2, 3, 1945, Jan. 13, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 19.6 ft, present datum, discharge, 44,000 ft^3/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 26	2330	1,940	6.24	July 2	0600	1,440	5.50
Dec. 11	1930	1,660	5.34	Sept 25	0800	1,540	5.66
Mar. 13	0300	*2,400	*6.87				

Minimum daily discharge 59 ft^3/s Oct. 4, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	61	285	120	121	171	218	200	153	183	129	102
2	61	61	256	120	207	171	212	191	143	767	127	102
3	60	66	214	120	182	171	210	186	139	325	125	102
4	59	73	204	120	669	171	203	186	139	243	120	106
5	61	73	195	110	709	177	195	184	139	218	120	114
6	61	73	187	110	384	238	207	179	429	198	111	110
7	61	71	177	110	547	205	209	184	388	187	110	110
8	61	71	172	110	357	181	202	182	256	177	110	110
9	59	69	167	110	298	189	198	179	209	165	114	110
10	61	96	171	110	259	293	193	174	186	164	119	110
11	61	173	920	110	236	600	187	171	182	171	122	119
12	62	149	754	110	217	324	175	171	180	343	119	200
13	64	368	417	100	199	1440	175	171	169	227	112	151
14	61	283	323	100	203	657	175	171	165	193	116	139
15	61	198	276	100	193	485	176	173	158	178	118	135
16	61	265	256	100	186	404	175	273	152	193	117	134
17	61	257	235	118	219	355	174	222	139	197	114	129
18	62	180	212	160	318	335	171	207	124	172	106	174
19	61	158	190	348	316	739	160	174	138	161	100	242
20	70	137	180	303	264	475	183	163	178	147	94	180
21	68	131	170	203	275	348	529	147	163	141	94	159
22	65	126	170	196	253	340	328	144	146	136	94	150
23	65	121	160	175	224	328	264	141	195	137	94	150
24	66	113	160	161	218	309	226	137	153	135	97	166
25	70	112	150	157	207	295	220	127	141	135	102	767
26	67	423	150	152	202	282	205	121	133	144	102	315
27	65	914	140	133	200	276	198	189	134	134	122	749
28	63	739	140	136	176	261	200	180	154	132	112	322
29	61	433	130	130	---	247	206	162	146	134	107	258
30	61	327	130	123	---	238	204	187	148	132	107	242
31	61	---	130	118	---	227	---	163	---	132	107	---
TOTAL	1941	6321	7421	4373	7839	10932	6378	5439	5279	6101	3441	5957
MEAN	62.6	211	239	141	280	353	213	175	176	197	111	199
MAX	70	914	920	348	709	1440	529	273	429	767	129	767
MIN	59	61	130	100	121	171	160	121	124	132	94	102
CFSM	.39	1.30	1.48	.87	1.73	2.18	1.31	1.08	1.09	1.22	.69	1.23
IN.	.45	1.45	1.70	1.00	1.80	2.51	1.46	1.25	1.21	1.40	.79	1.37

CAL YR 1985	TOTAL	56150	MEAN	154	MAX	1300	MIN	58	CFSM	.95	IN.	12.89
WTR YR 1986	TOTAL	71422	MEAN	196	MAX	1440	MIN	59	CFSM	1.21	IN.	16.40

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^2.

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: Dec. 20 to Jan. 18, Jan. 26 to Feb. 1, Feb. 23-28. Records good except those for periods of estimated record, and those above 2,000 ft^3/s, 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 21.3 ft^3/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.--21 years, 311 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,700 ft^3/s June 26, 1971, gage height, 16.00 ft, from rating curve extended above 3,060 ft^3/s; minimum daily, 60 ft^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 27	0030	3,520	10.65	June 6	1000	2,720	9.67
Dec. 11	1900	3,800	10.96	July 2	0530	3,330	10.42
Mar. 13	0830	*5,940	*13.13				

Minimum daily discharge, 93 ft^3/s Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	108	541	240	250	332	405	297	231	485	205	142
2	107	107	490	240	454	330	398	280	224	2020	200	143
3	94	130	409	230	388	336	383	271	211	724	192	143
4	95	143	377	230	1650	335	366	266	208	497	189	153
5	95	131	360	220	1590	375	352	264	208	407	185	157
6	93	125	344	220	848	531	372	260	1370	352	182	145
7	95	129	323	220	1390	426	350	281	919	318	182	141
8	96	124	315	210	734	363	340	257	505	297	177	140
9	95	123	305	210	579	371	336	245	384	297	172	139
10	97	281	365	210	497	611	325	237	410	277	179	138
11	101	380	2060	200	445	1180	317	231	387	323	180	152
12	101	407	1560	200	401	637	306	230	339	918	169	370
13	102	1040	808	200	370	3950	298	229	300	439	165	196
14	103	700	591	200	367	1340	297	222	279	352	162	167
15	105	435	492	200	350	914	327	219	270	314	159	159
16	108	783	420	200	338	718	308	377	260	379	157	153
17	107	678	416	210	512	617	300	285	245	355	158	149
18	109	404	375	290	676	566	288	292	233	302	157	174
19	111	332	351	898	630	1620	282	280	225	280	151	287
20	133	293	330	688	518	883	388	265	364	259	148	213
21	124	260	310	429	569	649	561	255	290	248	149	184
22	116	245	290	445	503	564	583	248	242	231	147	173
23	114	226	280	365	410	541	448	243	307	220	145	169
24	128	213	280	323	390	501	394	232	249	213	144	185
25	122	208	270	314	380	489	364	223	222	213	141	709
26	114	970	270	290	360	492	340	226	210	262	141	382
27	112	1990	260	270	340	489	320	352	203	221	221	886
28	110	1620	250	250	330	458	318	301	322	217	162	407
29	109	914	250	240	---	443	318	264	240	248	153	311
30	109	649	250	240	---	427	299	276	393	216	149	278
31	109	---	250	230	---	413	---	251	---	208	145	---
TOTAL	3316	14148	14222	8912	16269	21901	11083	8159	10250	12093	5166	7145
MEAN	107	472	459	287	581	706	369	263	342	390	167	238
MAX	133	1990	2060	898	1650	3950	961	377	1370	2020	221	886
MIN	93	107	250	200	250	330	282	219	203	208	141	138

CAL YR 1985 TOTAL 110677 MEAN 303 MAX 3250 MIN 93
WTR YR 1986 TOTAL 132664 MEAN 363 MAX 3950 MIN 93

7378

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^2.

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 881.47 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: Dec. 22 to Jan. 16, Feb. 16, 17, 27, 28. Records good. 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 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--73 years, (1904-05, 1914-86), 491 ft^3/s, 13.61 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,500 ft^3/s Jan. 21, 1959, gage height, 15.76 . . from rating curve extended above 14,000 ft^3/s on basis of slope-area and contracted opening measurements of peak flow; minimum daily discharge, 30 ft^3/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 /s computed by Miami Conservacy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,710 ft^3/s Mar. 13, gage height, 9.28 ft; minimum daily, 200 ft^3/s Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	240	1090	350	414	544	514	473	350	730	288	214
2	244	223	785	350	732	475	504	444	298	2360	279	216
3	239	310	641	340	666	506	485	381	285	1220	270	214
4	240	291	609	320	2440	563	475	371	282	931	266	230
5	237	268	590	330	2210	603	467	367	283	800	261	224
6	236	263	564	320	1380	820	521	387	1740	620	273	209
7	238	286	493	320	2190	675	479	415	1260	443	263	203
8	233	265	438	310	1430	581	465	363	819	414	255	204
9	205	303	43[illegible]	310	1190	572	458	347	806	408	246	202
10	217	1000	5[illegible]	310	1070	873	445	336	638	386	281	200
11	236	1090	2420	300	923	1610	436	328	656	541	258	277
12	233	963	2250	300	662	1070	422	328	583	1300	243	451
13	232	1490	1260	290	613	4180	412	326	467	1010	237	273
14	240	1130	1050	290	591	1770	425	321	423	831	234	242
15	251	1000	1040	290	522	1340	460	317	401	749	229	235
16	245	1800	823	290	509	1110	435	461	399	878	229	231
17	245	1450	661	344	900	975	422	410	371	812	231	272
18	245	1110	600	419	1140	913	406	415	349	640	233	298
19	251	978	531	1210	1070	2100	398	448	338	405	227	390
20	334	708	462	1130	878	1300	569	400	651	370	233	333
21	278	494	454	735	936	1010	1160	373	563	352	226	306
22	266	482	440	774	825	900	749	385	364	332	223	297
23	261	480	430	648	709	840	609	353	416	319	221	294
24	294	457	420	572	697	780	549	338	355	310	211	311
25	259	476	410	553	658	741	516	328	328	307	211	763
26	252	1440	400	529	658	746	497	358	314	386	222	568
27	249	2710	390	447	640	736	500	506	313	312	442	1040
28	249	2550	390	424	580	668	510	446	652	304	242	546
29	247	1520	380	410	---	578	503	392	390	373	228	477
30	246	1330	370	386	---	554	479	414	658	302	221	460
31	248	---	360	375	---	536	---	391	---	292	216	---
TOTAL	7701	27107	21763	13996	27233	30669	15270	11922	15753	19437	7699	10180
MEAN	248	904	702	451	973	989	509	385	525	627	248	339
MAX	334	2710	2420	1210	2440	4180	1160	506	1740	2360	442	1040
MIN	205	223	360	290	414	475	398	317	282	292	211	200
CFSM	.51	1.84	1.43	.92	1.99	2.02	1.04	.79	1.07	1.28	.51	.69
IN.	.58	2.06	1.65	1.06	2.07	2.33	1.16	.91	1.20	1.48	.58	.77

CAL YR 1985	TOTAL	184793	MEAN	506	MAX	4160	MIN	197	CFSM	1.03	IN.	14.03
WTR YR 1986	TOTAL	208730	MEAN	572	MAX	4180	MIN	200	CFSM	1.17	IN.	15.85

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^2.

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: Dec. 22 to Jan. 17 and Sept. 26-30. 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.--72 years, 631 ft^3/s, 13.50 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft^3/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^3/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^3/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,340 ft^3/s Mar. 13, gage height, 13.04 ft; minimum daily, 211 ft^3/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	252	1510	520	563	771	687	612	474	1090	383	285
2	261	230	1150	500	940	689	683	582	412	3060	372	284
3	255	293	959	500	983	691	645	514	390	1740	360	281
4	250	367	852	490	2820	767	626	487	384	1240	346	293
5	249	319	825	480	3530	821	611	481	391	1030	340	308
6	243	302	798	470	1970	1050	678	481	1860	892	333	284
7	244	314	734	460	3150	967	652	578	1790	600	348	274
8	249	308	648	450	2050	814	607	488	1160	623	329	268
9	226	333	635	450	1580	786	597	460	1090	546	320	268
10	211	904	722	440	1380	938	576	446	800	519	340	265
11	231	1710	2250	430	1250	2190	561	438	907	706	355	318
12	242	1300	3760	430	958	1460	542	431	859	1700	313	641
13	239	1630	1850	420	853	5090	527	428	685	1400	300	424
14	246	1610	1390	420	841	3310	529	426	591	1100	294	348
15	263	1200	1310	420	752	1920	606	428	551	955	289	327
16	260	1980	1160	410	711	1550	567	557	531	1050	287	314
17	250	2060	935	450	1180	1350	551	569	524	1060	285	333
18	243	1410	838	547	1500	1230	528	551	469	904	285	372
19	258	1210	796	1300	1460	2800	519	565	442	574	285	470
20	416	1040	680	1690	1240	1950	656	531	655	508	284	462
21	359	728	639	1070	1250	1420	1420	479	818	473	294	417
22	312	676	620	1080	1190	1250	1090	497	517	442	283	400
23	296	667	620	954	1010	1150	861	462	521	419	279	390
24	300	638	600	817	969	1070	753	441	491	406	273	407
25	307	655	580	773	933	1010	696	426	437	399	266	705
26	270	1320	580	762	917	976	661	443	417	539	270	1000
27	259	3950	580	650	898	1020	651	698	404	427	612	800
28	256	3740	560	647	806	920	645	619	973	402	353	1300
29	256	2300	540	600	---	811	678	560	651	495	310	800
30	256	1780	540	565	---	758	617	518	693	419	298	680
31	256	---	520	550	---	727	---	514	---	391	289	---
TOTAL	8243	35236	30181	19745	37684	42256	20020	15710	20893	26109	9975	13718
MEAN	266	1175	974	637	1346	1363	667	507	696	842	322	457
MAX	416	3950	3760	1690	3530	5090	1420	698	1860	3060	712	1300
MIN	211	230	520	410	563	689	519	426	384	391	266	265
CFSM	.42	1.85	1.53	1.00	2.12	2.15	1.05	.80	1.10	1.33	.51	.72
IN.	.48	2.06	1.77	1.16	2.21	2.48	1.17	.92	1.22	1.53	.58	.80

CAL YR 1985 TOTAL 239951 MEAN 657 MAX 5470 MIN 201 CFSM 1.03 IN. 14.06
WTR YR 1986 TOTAL 279770 MEAN 766 MAX 5090 MIN 211 CFSM 1.21 IN. 16.35

7378

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^2.

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 fr 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: Dec. 20 to Jan. 15, Jan. 29-31, Feb. 14-16. 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 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--57 years (1929-86). 2,172 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,900 ft^3/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^3/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^3/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,800 ft^3/s Dec. 12, gage height 30.51 ft; minimum daily, 236 ft^3/s Oct. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	366	329	8550	1100	1590	2450	1870	1780	1710	6310	1040	474
2	309	335	5730	1100	2360	2250	1830	1770	1370	12600	892	451
3	273	473	4370	1100	4120	2180	1760	1810	1180	11100	802	434
4	278	616	3350	1100	9300	2240	1680	1580	1110	6250	744	435
5	278	509	2840	1000	17100	2910	1570	1420	1040	3720	698	442
6	265	474	2580	1000	15400	5160	1690	1330	5190	2710	683	399
7	265	510	2270	1000	15300	5360	1730	1570	10300	1990	647	374
8	273	482	2010	1000	12500	3740	1760	1800	8370	1790	608	354
9	262	570	1900	1000	8490	2930	1660	2260	4750	1530	599	354
10	236	1780	2040	980	6210	3120	1630	1620	3030	1400	639	334
11	236	3280	8600	980	476[illegible]	9410	1560	1370	2920	2050	667	507
12	246	3610	21000	980	3490	8710	1450	1240	2600	6580	585	1240
13	260	4530	20300	960	2620	17200	1330	1130	1990	8100	573	799
14	260	6650	15600	960	2400	17100	1290	1150	1610	4830	573	610
15	290	4590	10800	940	2200	10200	1470	1120	1360	3050	554	520
16	301	5450	6230	936	2100	6860	1400	3540	1340	2820	512	463
17	273	7230	4230	1020	3030	5310	1400	5570	1340	6260	499	508
18	297	4870	3140	1360	5850	4320	1330	3730	1150	4470	486	589
19	348	3450	2340	4980	9030	10500	1320	2880	1080	2770	468	792
20	707	3260	2000	9330	7740	13900	1700	2450	1610	1980	466	1510
21	593	3140	1800	6140	6260	10100	9480	2000	3110	1600	484	1320
22	438	2470	1700	5130	6430	5920	10900	1750	2090	1380	453	1140
23	405	2150	1500	4770	4940	4520	6700	1600	1730	1210	439	840
24	420	1830	1400	3610	4060	3680	4480	1460	1990	1090	423	762
25	426	1710	1300	2990	3760	3230	3460	1420	1490	1020	413	2050
26	368	3290	1240	2730	3570	2960	2810	1370	1200	1240	441	4210
27	344	16100	1200	2460	3410	2910	2420	2010	1010	1230	1170	3990
28	332	20000	1200	1820	2880	2650	2200	2950	2410	1180	676	3090
29	317	17400	1200	1800	---	2340	2050	2580	2630	1140	701	2290
30	313	12700	1200	1700	---	2120	1820	2140	2160	1410	599	1750
31	321	---	1100	1600	---	1970	---	2230	---	1250	516	---
TOTAL	10300	133788	144720	67576	170900	178250	77750	62630	74870	106060	19052	33031
MEAN	332	4460	4660	2180	6104	5750	2592	2020	2496	3421	615	1101
MAX	707	20000	21000	9330	17100	17200	10900	5570	10300	12600	1170	4210
MIN	236	329	1100	936	1590	1970	1290	1120	1010	1020	413	334

CAL YR 1985 TOTAL 868991 MEAN 2381 MAX 24500 MIN 236
WTR YR 1986 TOTAL 1078927 MEAN 2956 MAX 21000 MIN 236

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^2.

PERIOD OF RECORD.--October 1962 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 826.28 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 18 through Jan. 17, Jan. 25 through Feb. 1, Feb. 12-16. Records good except for periods of estimated record, which are fair.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--24 years, 23.2 ft^3/s, 13.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,010 ft^3/s July 1, 1985, gage height, 6.19 ft, from rating curve extended above 1,000 ft^3/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^3/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^2, 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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 10	2130	707	3.08	Feb. 4	0415	875	3.39
Nov. 26	1815	1810	4.80	Mar. 13	0030	*2520	*5.65
Dec. 11	1230	759	3.18	July 1	2345	717	3.10

Minimum discharge, 0.43 ft^3/s Oct. 4

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.5	47	7.8	15	24	12	12	12	50	2.0	1.4
2	.82	4.9	37	7.4	70	20	14	8.4	9.4	166	1.9	1.4
3	.67	7.2	24	7.0	100	22	12	7.4	7.9	35	1.8	1.4
4	.80	17	21	6.6	571	28	11	7.0	7.8	15	1.7	1.4
5	1.3	9.2	20	6.4	195	34	11	7.1	8.2	9.2	1.7	1.4
6	1.6	5.9	18	6.0	128	35	13	6.8	174	6.7	1.7	1.4
7	1.2	5.4	16	5.8	186	25	11	7.7	60	5.5	1.6	1.4
8	.89	3.9	17	5.8	67	24	10	6.3	28	5.1	1.6	1.4
9	1.0	6.5	16	5.6	46	20	9.3	5.8	16	4.6	1.6	1.4
10	1.2	256	50	5.6	33	120	8.7	5.7	13	5.0	2.2	1.5
11	1.5	241	418	5.4	26	118	8.4	5.6	14	34	2.8	2.8
12	2.0	206	166	5.2	23	206	7.9	5.7	13	133	1.7	12
13	2.0	197	70	5.2	18	532	7.3	5.9	9.8	52	1.4	2.4
14	2.3	89	39	5.2	16	96	7.9	8.7	8.4	25	1.4	1.7
15	5.0	62	30	5.0	14	52	13	7.1	7.9	14	1.4	1.6
16	4.2	298	24	5.0	13	36	9.0	48	11	14	1.6	1.[illegible]
17	4.5	84	20	6.0	113	28	8.2	17	19	8.9	1.7	1.[illegible]
18	4.5	50	18	12	120	27	7.7	12	7.6	6.6	1.7	[illegible]
19	6.2	39	15	150	82	251	7.4	9.6	6.2	5.3	1.4	1.6
20	16	31	14	62	51	63	111	8.0	8.1	4.6	1.3	3.[illegible]
21	5.6	25	13	51	87	37	118	7.3	5.9	3.8	1.4	2.8
22	1.5	22	12	97	50	29	46	6.9	5.1	3.4	1.4	2.1
23	.89	18	11	51	35	25	28	6.8	9.7	3.0	1.4	2.0
24	3.0	15	10	35	34	21	21	5.5	5.3	2.7	1.4	2.8
25	3.9	28	9.8	28	30	19	18	5.1	4.1	2.5	1.3	3.1
26	1.4	606	9.4	24	32	19	15	8.3	3.6	2.9	2.0	2.8
27	.98	360	9.2	20	27	20	12	97	3.7	2.5	10	2.4
28	.83	390	9.0	17	23	16	12	27	28	2.2	2.3	3.3
29	.79	107	8.6	14	---	15	10	20	9.1	3.9	1.7	2.0
30	.96	60	8.4	12	---	14	11	49	8.9	2.3	1.5	2.6
31	1.1	---	8.0	11	---	12	---	18	---	2.1	1.4	---
TOTAL	79.83	3345.5	1188.4	685.0	2205	1988	590.8	452.7	524.7	630.8	60.0	74.4
MEAN	2.58	112	38.3	22.1	78.8	64.1	19.7	14.6	17.5	20.3	1.94	2.48
MAX	16	606	418	150	571	532	118	97	174	166	10	12
MIN	.67	1.5	8.0	5.0	13	12	7.3	5.1	3.6	2.1	1.3	1.4
CFSM	.11	4.93	1.69	.97	3.47	2.82	.87	.64	.77	.89	.09	.11
IN.	.13	5.48	1.95	1.12	3.61	3.26	.97	.74	.86	1.03	.10	.12

CAL YR 1985	TOTAL	12026.73	MEAN	32.9	MAX	616	MIN	.17	CFSM	1.45	IN.	19.71
WTR YR 1986	TOTAL	11825.13	MEAN	32.4	MAX	606	MIN	.67	CFSM	1.43	IN.	19.38

BEST COPY AVAILABLE

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^2.

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: Dec. 20 to Jan. 18, Jan. 28 to Feb. 1, 14-16 and June 17-19. 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 9 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--49 years, 2,446 ft^3/s, 12.25 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,800 ft^3/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 /s Sept. 7, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 26, 1913 reached a discharge of 257,000 ft /s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,900 ft^3/s Nov. 28, gage height, 12.46 ft; minimum daily, 421 ft^3/s Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	508	555	8480	1400	1800	2910	2310	2070	2140	5810	1210	596
2	475	576	5880	1400	2620	2670	2280	2010	1720	12900	1030	586
3	430	777	4690	1300	4450	2580	2170	2090	1480	11500	944	582
4	434	909	3740	1300	11200	2670	2110	1860	1410	6960	903	578
5	448	711	3240	1300	17700	3170	1980	1670	1270	4300	867	568
6	421	630	3000	1200	16300	4950	2130	1570	4600	3200	864	537
7	441	669	2690	1200	16700	5620	2170	1810	9940	2560	844	504
8	451	661	2430	1200	13100	4220	2120	1970	8360	2090	796	502
9	449	790	2310	1200	8700	3380	1980	2560	5180	1800	762	519
10	431	2210	2490	1200	6480	3480	1950	1960	3840	1760	839	504
11	437	5110	8130	1100	5200	8730	1880	1680	3400	2510	846	616
12	446	4390	20100	1100	4090	9010	1760	1520	3180	6910	761	1680
13	449	4940	20200	1100	3130	19200	1630	1420	2500	8790	722	997
14	462	6600	15800	1100	2800	18800	1570	1470	2070	5660	729	742
15	499	5010	10800	1100	2500	10800	1820	1460	1770	3660	701	645
16	500	6900	6620	1000	2400	7220	1690	3140	1580	3110	665	594
17	478	7570	4620	1000	3700	5750	1690	5730	1600	5920	649	595
18	493	5550	3630	1300	5760	4840	1610	4300	1400	4940	647	713
19	555	4080	2710	4770	8760	10200	1590	3310	1300	3310	632	852
20	1220	3670	2500	8960	7870	14100	1990	2840	1750	2320	617	1500
21	670	3630	2300	6340	6420	10500	7880	2380	3450	1870	622	1460
22	572	3040	2100	5440	6590	6460	10400	2100	2730	1590	611	1310
23	605	2720	2000	5050	5310	5040	6980	1940	2040	1420	577	981
24	627	2420	1900	4030	4510	4230	4670	1760	2370	1250	554	931
25	542	2400	1800	3390	4190	3790	3940	1710	1870	1130	553	1250
26	501	5370	1700	3070	4020	3510	3250	1670	1490	1330	605	4680
27	495	16000	1600	2790	3920	3500	2780	2510	1280	1340	1700	4410
28	503	21600	1600	2400	3380	3160	2[illegible]0	3330	2760	1340	855	3660
29	532	17600	1500	2200	---	2860	2390	3090	3110	1280	809	2640
30	540	12400	1500	2000	---	2570	2110	2750	2690	1530	726	2060
31	548	---	1400	1900	---	2410	---	2670	---	1400	635	---
TOTAL	16162	149488	153460	73840	183700	192[illegible]	85560	72350	84280	115290	24275	37792
MEAN	521	4983	4950	2382	6561	6204	2852	2334	2809	3719	783	1260
MAX	1220	21600	20200	8960	17700	19200	10400	5730	9940	12900	1700	4680
MIN	421	555	1400	1000	1800	2410	1570	1420	1270	1130	553	502
CFSM	.19	1.84	1.83	.88	2.42	2.29	1.05	.86	1.04	1.37	.29	.46
IN.	.22	2.05	2.11	1.01	2.52	2.64	1.17	.99	1.16	1.58	.33	.52

CAL YR 1985	TOTAL	965054	MEAN	2644	MAX	24700	MIN	417	CFSM	.98	IN.	13.24
WTR YR 1986	TOTAL	1188527	MEAN	3256	MAX	21600	MIN	421	CFSM	1.20	IN.	16.31

7378

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^2.

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, 21, 1978; minimum, 0.0°C on several days during winter periods 1979, 1980, 1982, 1984, 1986.
DISSOLVED OXYGEN: Maximum, ≥20.0 mg/L July 12, 1976, Aug. 15, 16, 1982; minimum, 0.4 mg/L Aug. 27, 1981, Aug. 2, 1982.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum 1,000 microsiemens Oct. 10, 11; minimum 302 microsiemens Dec. 11, 12.
pH: Maximum, 9.0 units Aug. 5, minimum, 7.4 units Sept. 6, 7.
WATER TEMPERATURES: Maximum, 26.5°C July 8, 9, Aug. 5, 15; minimum, 0.0°C on several days during winter period.
DISSOLVED OXYGEN: Maximum 16.1 mg/L April 18; minimum, 1.6 mg/L Oct. 14, 15.

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03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--CONTINUED

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	962	896	936	920	884	904	550	476	512	---	---	---
2	934	892	906	928	889	915	580	550	566	---	---	---
3	974	874	927	910	752	830	608	580	592	806	780	792
4	964	926	946	746	662	697	654	608	629	810	792	802
5	948	916	935	816	724	787	656	646	651	816	780	795
6	942	888	915	816	750	804	---	---	---	818	788	797
7	938	880	909	846	800	823	---	---	---	820	794	808
8	970	890	924	832	806	820	---	---	---	826	808	816
9	966	892	932	870	654	786	---	---	---	832	810	820
10	1000	910	942	734	400	598	---	---	---	832	814	820
11	1000	940	978	512	386	430	---	---	---	830	802	817
12	988	922	943	566	512	541	308	302	304	828	800	815
13	982	918	956	588	558	577	342	302	317	838	804	819
14	996	926	960	578	526	551	378	342	357	854	814	836
15	990	930	966	588	546	566	476	380	425	854	826	841
16	966	918	946	568	512	532	558	478	520	854	818	841
17	962	908	936	558	546	554	622	558	579	914	842	864
18	964	920	944	616	558	582	646	612	626	908	856	891
19	962	886	936	654	608	635	686	652	674	860	670	748
20	868	598	709	662	640	653	736	688	701	668	506	551
21	682	576	609	678	658	666	746	724	736	556	508	529
22	836	698	790	698	660	67[illegible]	750	728	738	590	556	579
23	834	764	815	720	690	699	760	744	750	590	576	584
24	868	780	832	736	692	709	756	736	745	632	574	610
25	830	786	806	732	686	705	752	726	736	660	626	645
26	872	794	846	716	376	597	---	---	---	676	640	659
27	910	858	884	478	330	382	---	---	---	696	662	674
28	920	852	890	366	328	346	---	---	---	738	698	719
29	952	882	926	410	366	385	---	---	---	748	694	724
30	938	886	918	472	412	439	---	---	---	750	720	722
31	934	886	916	---	---	---	---	---	---	764	728	742
MONTH	1000	576	896	928	328	640	760	302	587	914	506	747

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	778	732	751	722	700	709	720	698	709	706	676	695
2	790	760	774	712	702	707	724	694	711	706	680	692
3	756	576	667	734	702	713	730	700	715	704	672	690
4	568	474	504	736	710	725	738	704	718	708	664	682
5	470	388	415	728	700	716	734	706	719	726	694	704
6	430	388	408	700	616	669	734	678	706	730	688	712
7	442	420	430	610	542	561	710	684	694	726	658	691
8	478	434	458	594	556	569	714	670	694	704	652	680
9	524	480	503	646	598	623	732	684	710	684	634	659
10	566	526	545	704	642	663	736	708	720	668	648	659
11	618	564	592	692	476	577	736	704	721	716	664	679
12	638	606	621	502	456	475	740	680	718	762	710	721
13	684	642	658	470	338	379	740	684	718	758	730	745
14	764	672	699	426	338	381	748	700	721	752	728	741
15	820	742	770	512	430	472	734	670	705	762	724	745
16	774	752	761	554	512	535	730	690	716	726	644	696
17	806	740	774	592	558	575	744	700	716	622	512	542
18	738	624	672	622	592	607	748	708	726	578	572	547
19	612	488	525	592	426	519	748	722	734	622	576	600
20	520	486	498	416	382	391	752	660	713	646	600	630
21	566	520	545	482	394	427	650	448	557	680	648	659
22	560	538	550	560	484	524	472	448	462	702	674	686
23	576	550	560	604	560	579	532	476	502	712	688	698
24	668	582	621	640	604	621	570	536	551	734	702	714
25	682	642	659	672	638	653	616	574	593	738	722	728
26	784	644	690	692	664	677	650	616	627	738	618	713
27	774	702	718	688	650	668	664	636	647	710	652	676
28	718	698	709	698	674	684	678	660	669	684	658	665
29	---	---	---	714	688	698	690	654	668	662	640	651
30	---	---	---	716	700	708	700	664	685	670	564	620
31	---	---	---	718	696	706	---	---	---	682	666	674
MONTH	820	388	610	736	338	597	752	448	675	76[illegible]	512	677

000197

TOP

7378

Film Identification

Century

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St. Paul, MN 55119

PRECISION℠ RESOLUTION TARGETS

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150 MM

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NBS 1010a ANSI/ISO #2 EQUIVALENT

7378

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--CONTINUED

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	684	622	663	---	---	---	---	---	---	846	798	829
2	714	660	689	---	---	---	---	---	---	866	828	849
3	744	712	722	---	---	---	---	---	---	888	834	870
4	768	736	746	---	---	---	780	752	758	918	856	898
5	772	752	765	---	---	---	814	762	790	906	836	874
6	774	518	624	---	---	---	834	772	805	938	834	889
7	480	380	436	---	---	---	838	776	807	928	862	883
8	500	446	464	708	682	694	844	790	819	888	838	865
9	582	504	542	742	678	709	846	800	823	898	854	880
10	594	542	582	746	642	711	846	768	808	884	840	865
11	644	594	629	708	552	614	802	756	775	922	766	868
12	666	606	626	620	456	516	842	796	819	796	556	620
13	682	656	669	---	---	---	864	818	842	---	---	---
14	714	680	689	---	---	---	858	816	841	---	---	---
15	728	700	711	---	---	---	866	800	836	---	---	---
16	742	522	711	---	---	---	872	808	841	---	---	---
17	702	650	675	---	---	---	866	810	843	---	---	---
18	---	---	---	---	---	---	862	830	844	---	---	---
19	---	---	---	---	---	---	886	836	860	---	---	---
20	---	---	---	---	---	---	898	826	866	---	---	---
21	---	---	---	---	---	---	890	836	864	---	---	---
22	---	---	---	---	---	---	900	842	872	746	726	733
23	---	---	---	---	---	---	906	846	880	770	726	750
24	---	---	---	---	---	---	880	834	854	770	694	747
25	---	---	---	---	---	---	872	824	850	774	740	761
26	---	---	---	---	---	---	904	626	853	694	352	467
27	---	---	---	---	---	---	790	574	630	502	380	438
28	---	---	---	---	---	---	752	670	714	498	450	475
29	---	---	---	---	---	---	738	712	720	610	504	559
30	---	---	---	---	---	---	790	742	774	652	610	623
31	---	---	---	---	---	---	816	778	803	---	---	---
MONTH	774	380	644	746	456	647	906	574	814	938	352	750
YEAR	1000	302	698									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.90	7.70	7.80	7.70	7.60	7.60	8.00	7.90	7.90	---	---	---
2	7.80	7.70	7.70	7.70	7.60	7.60	8.10	8.00	8.10	---	---	---
3	7.90	7.70	7.80	7.70	7.60	7.60	8.10	8.00	8.00	8.00	8.00	8.00
4	7.80	7.70	7.70	7.70	7.60	7.60	8.10	8.00	8.00	8.10	8.00	8.00
5	7.90	7.70	7.80	7.70	7.60	7.70	8.00	8.00	8.00	8.20	8.00	8.10
6	8.00	7.80	7.80	7.70	7.60	7.60	---	---	---	8.20	8.00	8.20
7	8.00	7.80	7.90	7.70	7.60	7.60	---	---	---	8.10	8.00	8.10
8	8.00	7.70	7.80	7.70	7.60	7.70	---	---	---	8.10	8.10	8.10
9	8.00	7.70	7.80	7.70	7.60	7.70	---	---	---	8.10	8.00	8.10
10	8.00	7.60	7.80	7.70	7.60	7.70	---	---	---	8.10	8.10	8.10
11	7.80	7.70	7.70	7.70	7.60	7.70	---	---	---	8.10	8.00	8.10
12	7.90	7.60	7.70	7.80	7.70	7.80	7.80	7.80	7.80	8.20	8.10	8.10
13	7.80	7.60	7.70	7.80	7.70	7.80	7.80	7.80	7.80	8.20	8.10	8.10
14	7.70	7.60	7.60	7.80	7.70	7.70	7.90	7.80	7.80	8.10	8.00	8.10
15	7.70	7.60	7.60	7.80	7.80	7.80	8.00	7.90	7.90	8.20	8.10	8.10
16	7.80	7.60	7.70	7.90	7.80	7.90	8.00	8.00	8.00	8.20	8.10	8.10
17	7.90	7.60	7.70	7.90	7.90	7.90	8.00	7.90	8.00	8.10	8.00	8.00
18	7.80	7.60	7.70	7.90	7.80	7.90	8.10	7.90	8.00	8.00	7.70	7.90
19	7.70	7.60	7.60	7.90	7.80	7.90	8.10	7.90	8.00	8.10	8.00	8.10
20	7.70	7.50	7.60	8.00	7.90	7.90	8.10	7.90	8.00	8.10	8.00	8.00
21	7.60	7.50	7.50	8.10	8.00	8.00	8.10	8.00	8.10	8.00	8.00	8.00
22	7.60	7.50	7.50	8.00	8.00	8.00	8.10	8.00	8.10	8.10	8.00	8.00
23	7.50	7.50	7.50	8.00	7.90	8.00	8.10	8.00	8.10	8.10	8.00	8.10
24	7.60	7.50	7.50	8.00	8.00	8.00	8.10	8.10	8.10	8.10	8.00	8.10
25	7.60	7.50	7.50	8.10	7.90	8.00	8.20	8.00	8.10	8.10	7.80	8.00
26	7.60	7.50	7.50	8.00	7.80	7.90	---	---	---	8.20	8.10	8.10
27	7.60	7.50	7.60	7.90	7.70	7.70	---	---	---	8.20	8.10	8.20
28	7.70	7.60	7.60	7.80	7.70	7.70	---	---	---	8.20	8.10	8.20
29	7.80	7.70	7.70	7.80	7.80	7.80	---	---	---	8.20	8.00	8.10
30	7.70	7.60	7.70	7.90	7.80	7.80	---	---	---	8.20	8.00	8.10
31	7.70	7.60	7.70	---	---	---	---	---	---	8.20	8.10	8.10
MONTH	8.00	7.50	7.67	8.10	7.60	7.79	8.20	7.80	7.99	8.20	7.70	8.08

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--CONTINUED

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.20	8.00	8.10	8.10	8.00	8.10	8.20	8.00	8.10	8.30	8.10	8.30
2	8.10	8.10	8.10	8.20	8.00	8.10	8.20	8.00	8.10	8.60	8.30	8.40
3	8.10	8.00	8.10	8.20	8.10	8.10	8.20	7.80	7.90	8.60	8.40	8.50
4	8.00	7.90	8.00	8.20	8.10	8.10	8.20	7.70	7.90	8.70	8.40	8.60
5	7.90	7.80	7.80	8.30	8.20	8.20	8.50	8.10	8.20	8.70	8.40	8.50
6	7.80	7.80	7.80	8.30	8.20	8.20	8.50	8.00	8.20	8.70	8.30	8.40
7	7.90	7.90	7.90	8.20	8.10	8.10	8.50	8.00	8.30	8.70	8.20	8.40
8	8.00	7.90	7.90	8.20	8.00	8.10	8.60	8.20	8.30	8.60	8.20	8.40
9	8.00	8.00	8.00	8.20	8.10	8.20	8.40	8.20	8.30	8.40	8.00	8.20
10	8.10	8.00	8.10	8.20	8.00	8.10	8.60	8.20	8.40	8.20	7.80	8.00
11	8.10	8.00	8.10	8.10	7.90	8.00	8.60	8.30	8.40	8.10	7.80	7.90
12	8.10	8.00	8.10	7.90	7.90	7.90	8.70	8.30	8.50	8.00	7.70	7.90
13	8.20	8.00	8.10	7.90	7.80	7.90	8.80	8.30	8.50	7.90	7.70	7.80
14	8.20	8.10	8.20	7.80	7.80	7.80	8.70	8.30	8.50	8.00	7.70	7.80
15	8.20	8.10	8.10	8.00	7.80	7.90	8.30	8.00	8.20	8.10	7.80	7.90
16	8.10	8.10	8.10	8.00	8.00	8.00	8.40	8.00	8.20	8.10	7.80	7.90
17	8.10	8.00	8.10	8.00	8.00	8.00	8.40	8.10	8.20	7.90	7.70	7.80
18	8.10	8.00	8.00	8.00	8.00	8.00	8.70	8.00	8.30	7.80	7.70	7.70
19	8.10	7.90	8.00	8.00	7.90	8.00	8.60	8.30	8.40	7.80	7.70	7.70
20	8.00	7.90	8.00	7.90	7.80	7.90	8.20	8.00	8.10	7.90	7.80	7.80
21	8.00	8.00	8.00	8.00	7.90	7.90	8.00	7.70	7.90	8.00	7.90	7.90
22	8.00	8.00	8.00	8.00	8.00	8.00	7.80	7.70	7.70	8.00	7.90	7.90
23	8.10	8.00	8.10	8.10	8.00	8.00	8.10	7.80	7.90	8.00	7.90	7.90
24	8.10	8.00	8.10	8.10	8.00	8.00	8.10	8.00	8.00	8.10	7.90	8.00
25	8.10	8.10	8.10	8.10	8.00	8.00	8.20	8.00	8.10	8.10	8.00	8.00
26	8.10	8.10	8.10	8.10	8.00	8.10	8.30	8.00	8.20	8.20	8.00	8.10
27	8.10	8.00	8.10	8.10	8.00	8.00	8.50	8.10	8.30	8.00	7.90	8.00
28	8.20	8.10	8.10	8.10	8.00	8.00	8.40	8.20	8.30	8.00	7.90	8.00
29	---	---	---	8.10	8.00	8.10	8.60	8.20	8.40	8.00	7.90	7.90
30	---	---	---	8.10	8.00	8.10	8.50	8.20	8.40	7.90	7.80	7.80
31	---	---	---	8.20	8.00	8.10	---	---	---	8.00	7.90	7.90
MONTH	8.20	7.80	8.04	8.30	7.80	8.03	8.80	7.70	8.21	8.80	7.70	8.04

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.10	7.90	8.00				---	---	---	8.70	8.40	8.60
2	8.10	7.90	8.00				---	---	---	8.70	8.20	8.50
3	8.20	7.90	8.00				---	---	---	8.60	8.20	8.40
4	8.20	7.90	8.00				---	---	---	8.50	8.10	8.20
5	8.20	7.90	8.00				9.00	8.20	8.60	8.40	8.00	8.20
6	8.10	7.80	8.00				8.90	8.20	8.50	8.40	7.40	8.20
7	7.80	7.70	7.70				8.90	8.10	8.50	8.20	7.40	8.10
8	7.80	7.70	7.70				8.90	8.10	8.50	8.20	8.10	8.10
9	7.90	7.80	7.90				8.80	8.20	8.60	8.10	8.00	8.00
10	7.90	7.80	7.90				8.60	8.20	8.30	8.20	8.10	8.10
11	8.00	7.80	7.90				8.50	8.00	8.20	8.60	8.10	8.30
12	7.90	7.80	7.90				8.80	7.90	8.30	8.40	7.90	8.10
13	8.00	7.90	7.90				8.90	8.20	8.50	---	---	---
14	8.00	7.90	7.90				8.80	8.20	8.50	---	---	---
15	8.10	7.90	8.00				8.90	8.10	8.50	---	---	---
16	8.20	7.90	8.00				8.60	8.10	8.30	---	---	---
17	8.00	8.00	8.00				8.60	7.90	8.30	---	---	---
18	---	---	---				8.80	8.10	8.50	---	---	---
19	---	---	---				8.70	8.10	8.50	---	---	---
20	---	---	---				8.60	8.10	8.30	---	---	---
21	---	---	---				8.30	8.00	8.10	---	---	---
22	---	---	---				8.20	7.90	8.00	8.20	8.00	8.10
23	---	---	---				8.10	7.90	8.00	8.20	7.90	8.00
24	---	---	---				8.30	7.80	8.10	8.10	7.80	7.80
25	---	---	---				8.30	8.00	8.20	8.10	7.90	7.70
26	---	---	---				8.30	7.90	8.00	8.10	7.70	7.80
27	---	---	---				7.90	7.60	7.70	7.80	7.70	7.70
28	---	---	---				8.50	7.60	7.90	7.80	7.70	7.80
29	---	---	---				8.60	7.90	8.30	8.00	7.80	7.90
30	---	---	---				8.70	8.00	8.30	8.00	7.90	8.00
31	---	---	---				8.80	8.30	8.60	---	---	---
MONTH	8.20	7.70	7.93				9.00	7.60	8.30	8.70	7.40	8.08
YEAR	9.00	7.40	8.01									

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--CONTINUED

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	17.0	17.5	16.0	14.5	15.0	9.0	8.0	8.5	---	---	---
2	17.5	15.0	16.5	16.0	15.5	16.0	8.0	4.5	6.0	---	---	---
3	18.0	15.0	16.5	15.5	13.5	14.5	4.5	3.5	3.5	3.0	3.0	3.0
4	18.0	16.0	16.5	13.5	11.5	12.5	4.0	3.0	3.5	3.5	3.0	3.0
5	16.0	14.0	15.0	11.5	11.0	11.5	4.0	4.0	4.0	3.5	2.0	3.0
6	15.5	13.0	14.0	13.0	11.5	12.0	---	---	---	2.0	1.0	1.5
7	16.0	13.0	14.5	12.5	11.0	12.0	---	---	---	1.5	1.0	1.5
8	17.0	14.5	15.5	11.5	10.0	11.0	---	---	---	1.5	.5	1.0
9	18.5	15.0	16.5	11.0	10.0	10.5	---	---	---	1.5	.5	1.0
10	20.0	17.0	18.5	12.0	10.0	11.0	---	---	---	2.5	1.0	2.0
11	19.0	18.5	19.0	12.0	11.5	11.5	---	---	---	3.0	2.0	2.5
12	20.5	18.0	19.0	12.0	11.0	11.5	6.5	5.5	6.0	3.5	2.5	3.0
13	21.5	19.5	20.0	13.5	12.0	13.0	6.0	4.0	5.0	3.5	2.5	3.0
14	21.0	20.0	20.5	14.5	13.5	14.0	4.0	2.0	3.0	2.5	2.0	2.5
15	21.0	19.0	20.0	14.0	12.0	13.0	2.0	1.0	1.5	2.5	1.5	2.0
16	19.5	17.5	18.5	12.0	11.5	12.0	2.5	1.0	2.0	3.5	2.0	3.0
17	19.0	16.5	17.5	11.5	10.5	11.0	2.0	1.5	1.5	5.0	3.5	4.5
18	19.5	17.5	18.5	12.5	10.5	11.5	1.5	.0	.5	7.0	5.5	6.0
19	19.5	19.0	19.5	14.0	12.5	13.0	.5	.0	.0	7.0	3.0	5.0
20	19.5	17.0	18.0	14.0	11.5	13.0	1.0	.5	.5	2.5	1.5	2.0
21	17.0	15.5	16.0	11.5	9.5	10.0	.5	.0	.5	3.0	2.0	2.5
22	16.0	15.5	16.0	9.5	8.0	8.5	1.5	.0	1.0	3.5	3.5	3.5
23	18.0	16.0	17.0	8.5	7.5	8.0	2.5	1.5	2.0	3.5	3.0	3.5
24	19.5	18.0	18.5	8.5	8.0	8.5	2.5	1.5	2.0	3.5	2.5	3.5
25	18.5	17.0	18.0	8.5	7.5	7.5	1.5	.0	.5	3.5	3.5	3.5
26	17.5	15.5	16.5	12.0	7.5	10.0	---	---	---	3.5	2.5	3.0
27	17.5	15.5	16.5	12.0	10.0	11.0	---	---	---	2.0	.0	1.0
28	16.5	14.5	15.5	9.5	8.5	9.0	---	---	---	.0	.0	.0
29	14.5	13.0	13.5	8.0	7.5	8.0	---	---	---	.5	.0	.5
30	14.0	13.0	13.5	8.0	7.5	7.5	---	---	---	1.5	.0	1.0
31	14.5	13.0	13.5	---	---	---	---	---	---	2.5	1.5	2.0
MONTH	21.5	13.0	17.0	16.0	7.5	11.5	9.0	.0	2.5	7.0	.0	2.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.5	2.0	3.0	3.5	2.0	3.0	17.0	15.5	16.5	18.0	17.0	17.5
2	5.5	4.5	5.0	3.5	2.5	3.0	16.5	15.0	15.5	17.5	16.0	16.5
3	5.5	4.0	4.5	4.0	3.5	3.5	15.5	14.0	15.0	17.0	15.0	16.0
4	6.0	4.5	5.0	4.5	4.0	4.0	16.5	14.5	15.5	17.0	14.5	16.0
5	6.5	6.0	6.5	5.0	4.0	4.5	16.5	16.0	16.0	18.5	15.5	17.0
6	6.5	5.5	6.0	5.0	4.0	4.5	17.0	15.5	16.0	20.0	17.0	18.5
7	5.5	3.0	4.0	4.0	3.0	3.5	17.5	15.5	16.5	21.5	19.0	20.0
8	3.0	2.5	3.0	2.5	1.5	2.0	17.5	15.5	16.5	22.0	20.0	21.0
9	3.0	2.5	2.5	6.0	2.5	4.0	15.5	11.5	13.5	21.0	19.5	20.5
10	2.5	2.0	2.5	9.0	6.5	7.5	12.0	10.0	11.0	21.5	19.0	20.0
11	2.0	1.5	2.0	9.0	7.0	8.0	12.5	10.0	11.5	21.5	19.5	20.5
12	1.5	1.0	1.0	7.0	6.0	6.5	14.0	11.5	13.0	21.0	19.5	20.5
13	1.0	.0	.5	7.5	6.5	7.0	15.5	13.0	14.0	21.0	19.0	20.0
14	1.0	.5	.5	8.0	7.5	8.0	15.5	13.5	14.5	21.0	19.5	20.5
15	2.0	1.0	1.5	8.5	8.0	8.0	14.5	12.0	13.5	21.0	20.0	20.5
16	3.0	2.0	2.5	8.0	7.0	7.5	12.0	11.0	11.5	21.0	20.0	20.5
17	4.5	3.0	4.0	8.0	6.5	7.5	11.0	10.5	11.0	21.0	19.0	20.0
18	5.5	4.5	5.0	8.5	7.5	8.0	14.0	10.0	12.0	20.5	20.0	20.5
19	6.5	5.0	6.0	9.5	8.5	9.5	15.0	13.5	14.0	20.5	18.5	19.5
20	7.0	6.0	6.5	8.5	6.0	7.5	14.5	13.5	14.0	18.5	16.0	17.0
21	7.0	5.5	6.0	6.0	4.5	5.0	13.5	10.0	12.0	16.0	15.0	15.5
22	5.5	3.5	4.5	6.0	4.0	5.0	10.0	8.5	9.5	15.0	14.0	14.5
23	4.5	3.0	4.0	7.5	5.0	6.0	10.0	7.5	9.0	17.5	14.5	16.0
24	4.0	3.5	4.0	9.0	6.5	8.0	12.0	9.0	10.5	19.5	17.0	18.0
25	4.5	3.0	4.0	11.0	8.5	9.5	15.0	11.5	13.0	19.0	18.5	19.0
26	4.5	3.5	3.5	12.0	10.5	11.5	18.0	15.0	16.5	19.5	18.0	19.0
27	3.5	3.0	3.5	12.0	11.0	11.5	20.0	17.5	19.0	20.5	18.5	19.5
28	3.5	2.5	3.0	12.0	10.5	11.5	19.5	18.5	19.0	21.0	20.0	20.5
29	---	---	---	13.0	11.0	12.0	19.0	17.0	18.0	21.5	20.5	21.0
30	---	---	---	15.0	13.0	14.0	18.5	17.0	18.0	22.5	21.0	21.5
31	---	---	---	16.5	14.5	15.5	---	---	---	23.0	20.0	22.0
MONTH	7.0	.0	3.5	16.5	1.5	7.5	20.0	7.5	14.0	23.0	14.0	19.0

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--CONTINUED

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	22.0	22.0	---	---	---	---	---	---	21.5	20.5	21.5
2	23.5	21.0	22.0	---	---	---	---	---	---	23.0	21.0	22.0
3	22.0	19.0	20.5	---	---	---	---	---	---	24.0	22.0	23.0
4	21.5	20.5	21.0	---	---	---	26.0	24.5	25.5	24.5	23.0	23.5
5	22.5	21.0	21.5	---	---	---	26.5	23.0	25.0	25.5	23.0	24.0
6	22.5	21.5	22.0	---	---	---	25.5	24.0	24.5	24.5	22.0	23.0
7	21.5	20.5	21.0	---	---	---	25.5	23.0	24.5	23.0	21.0	22.0
8	22.5	20.5	21.5	26.5	25.0	26.0	26.0	23.5	24.5	22.0	19.5	21.0
9	23.0	21.5	22.0	26.5	25.0	25.5	26.0	23.5	25.0	21.5	19.5	20.5
10	22.5	21.5	22.0	25.5	24.0	25.0	25.5	23.5	24.5	22.5	20.0	21.5
11	23.0	22.0	22.5	25.5	23.5	24.5	24.0	22.5	23.0	22.0	21.0	21.5
12	23.0	22.0	22.5	25.0	22.5	23.5	24.5	21.5	23.0	21.5	20.5	21.0
13	22.5	21.0	21.5	---	---	---	24.0	21.5	23.0	---	---	---
14	23.5	21.0	22.0	---	---	---	25.5	22.5	24.5	---	---	---
15	24.0	22.5	23.0	---	---	---	26.5	24.0	25.5	---	---	---
16	25.0	22.5	23.5	---	---	---	26.0	24.5	25.0	---	---	---
17	23.5	22.5	23.0	---	---	---	25.5	23.5	25.0	---	---	---
18	---	---	---	---	---	---	26.0	24.0	25.0	---	---	---
19	---	---	---	---	---	---	26.0	23.5	25.0	---	---	---
20	---	---	---	---	---	---	25.0	23.0	24.5	---	---	---
21	---	---	---	---	---	---	26.0	23.5	25.0	---	---	---
22	---	---	---	---	---	---	26.0	24.0	25.0	23.0	22.0	22.0
23	---	---	---	---	---	---	26.0	24.5	25.5	23.5	22.0	22.5
24	---	---	---	---	---	---	25.5	23.0	24.5	23.0	22.0	22.5
25	---	---	---	---	---	---	24.5	22.5	23.5	24.5	22.0	23.0
26	---	---	---	---	---	---	24.5	23.0	24.0	24.0	21.5	22.5
27	---	---	---	---	---	---	23.0	22.0	22.5	23.0	22.0	22.5
28	---	---	---	---	---	---	21.5	20.0	21.0	23.0	21.5	22.0
29	---	--	---	---	---	---	21.5	18.5	20.0	23.5	22.0	22.5
30	---	--	---	---	---	---	22.0	18.5	20.5	23.5	22.5	23.0
31	---	---	---	---	---	---	22.0	19.5	21.0	---	---	---
MONTH	25.0	19.0	22.0	26.5	22.5	25.0	26.5	18.5	24.0	25.5	19.5	22.5
YEAR	26.5	.0	13.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4.6	2.1	3.2	4.7	3.5	4.0	9.4	8.8	9.1	---	---	---
2	5.5	2.6	3.7	3.6	3.1	3.4	10.7	9.0	9.9	---	---	---
3	6.1	3.1	4.4	5.0	3.2	4.0	11.1	10.8	11.0	11.8	11.1	11.4
4	5.9	3.2	4.0	6.2	4.8	5.4	11.1	10.7	10.9	11.1	10.9	11.0
5	5.7	3.3	4.2	5.7	5.5	5.6	10.7	10.5	10.6	11.6	10.9	11.1
6	6.8	3.8	5.0	5.6	5.0	5.2	---	---	---	11.7	11.4	11.5
7	7.3	4.4	5.4	5.3	4.7	4.9	---	---	---	11.9	11.2	11.5
8	7.2	4.0	5.2	6.0	5.3	5.6	---	---	---	12.0	11.5	11.7
9	7.3	3.4	4.8	6.6	5.2	5.9	---	---	---	11.9	11.6	11.8
10	7.5	2.9	4.6	8.0	6.2	6.8	---	---	---	11.7	10.8	11.5
11	4.5	2.2	3.1	8.4	7.6	8.0	---	---	---	11.3	11.0	11.1
12	6.7	1.9	3.5	8.5	7.8	8.2	10.7	10.3	10.6	11.1	10.8	11.0
13	7.3	1.9	3.8	8.2	7.5	7.9	11.2	10.5	10.9	11.4	10.8	11.1
14	3.7	1.6	2.4	7.8	7.3	7.5	11.8	11.2	11.5	11.3	10.8	11.0
15	4.6	1.6	2.6	7.6	7.4	7.6	12.0	11.8	11.9	11.6	10.9	11.2
16	5.5	1.9	3.3	8.0	7.7	7.9	11.9	11.5	11.7	11.4	10.9	11.2
17	6.2	2.5	4.0	8.1	7.9	8.0	11.7	11.4	11.6	10.8	9.7	10.3
18	6.1	2.4	3.7	8.0	6.8	7.4	12.0	11.5	11.8	9.7	9.3	9.5
19	3.0	1.9	2.4	7.5	6.6	7.0	12.0	11.7	11.9	11.7	9.2	10.7
20	3.9	2.1	3.0	8.2	7.1	7.6	11.8	11.5	11.6	12.3	11.8	12.2
21	4.3	3.6	3.9	9.1	8.2	8.8	11.8	11.6	11.7	12.3	11.8	12.1
22	4.1	3.5	3.7	9.3	8.8	9.0	11.7	11.3	11.5	11.8	11.7	11.8
23	3.5	2.9	3.2	9.5	8.8	9.1	11.2	10.8	11.1	12.0	11.9	11.9
24	3.3	2.5	3.0	9.3	8.5	8.9	11.0	10.7	10.9	12.2	11.8	11.9
25	3.5	2.7	3.0	9.3	8.4	8.8	11.6	11.0	11.3	11.9	11.1	11.5
26	3.9	2.9	3.3	8.7	8.1	8.4	---	---	---	11.9	11.1	11.4
27	4.2	2.9	3.4	8.9	8.0	8.4	---	---	---	12.6	11.9	12.3
28	5.0	3.1	3.9	9.5	8.8	9.2	---	---	---	12.6	12.1	12.4
29	5.3	4.2	4.6	9.8	9.6	9.7	---	---	---	12.9	11.9	12.4
30	5.3	4.3	4.7	9.7	9.4	9.6	---	---	---	12.9	12.4	12.6
31	5.2	4.1	4.5	---	---	---	---	---	---	12.5	11.9	12.2
MONTH	7.5	1.6	3.8	9.8	3.1	7.3	12.0	8.8	11.1	12.9	9.2	11.5

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.1	11.3	11.8	11.7	11.1	11.4	11.6	7.9	9.4	11.5	6.7	8.9
2	11.3	10.8	11.1	11.6	10.9	11.3	12.3	7.6	9.6	12.7	7.4	10.0
3	11.8	11.1	11.5	11.0	10.3	10.7	12.1	8.0	9.7	13.5	8.0	10.5
4	11.7	11.3	11.5	11.6	10.2	10.8	13.1	7.7	9.9	14.4	8.6	11.2
5	11.3	11.1	11.3	12.0	11.0	11.5	11.1	7.5	8.8	12.7	8.2	10.3
6	11.6	11.2	11.4	11.4	11.0	11.3	11.2	7.4	8.7	12.1	6.7	9.1
7	12.4	11.6	12.0	12.1	11.4	11.8	12.7	7.3	9.6	12.5	6.3	9.2
8	12.6	12.4	12.5	12.5	12.1	12.2	12.4	6.9	9.5	11.8	6.0	8.8
9	12.6	12.3	12.5	12.2	11.0	11.7	12.4	7.7	9.9	9.1	6.8	8.0
10	12.6	12.4	12.5	10.9	9.6	10.2	15.1	9.6	12.0	9.0	6.2	7.4
11	12.8	12.5	12.6	10.3	9.5	9.9	14.9	9.7	12.0	8.0	5.9	6.6
12	12.7	12.5	12.6	10.9	10.4	10.7	15.1	9.0	11.7	7.3	5.6	6.2
13	12.8	12.4	12.6	10.7	10.5	10.6	15.7	8.7	11.8	7.3	5.7	6.3
14	12.5	12.1	12.3	10.7	10.4	10.6	14.7	8.7	11.3	7.4	5.7	6.4
15	12.3	11.8	12.1	10.6	10.3	10.4	10.5	7.8	9.0	8.5	5.5	6.7
16	11.8	11.2	11.6	10.9	10.4	10.6	13.4	8.7	10.9	8.2	5.5	6.9
17	11.2	10.6	11.0	11.0	10.5	10.8	14.1	9.7	11.6	7.6	7.1	7.3
18	11.4	10.5	10.9	10.6	9.9	10.4	16.1	9.7	12.5	7.4	6.9	7.1
19	11.4	11.0	11.2	10.5	9.6	10.1	13.4	9.2	11.2	7.6	7.0	7.3
20	11.1	10.5	10.8	11.2	10.5	10.9	9.7	7.7	8.7	8.3	7.7	8.0
21	11.0	10.5	10.7	12.0	11.2	11.7	10.5	8.6	9.7	9.0	8.1	8.5
22	11.4	11.0	11.3	12.1	11.6	11.8	11.8	10.6	11.3	9.2	8.6	8.8
23	12.0	11.4	11.6	11.8	11.1	11.5	12.4	11.2	11.8	9.0	8.4	8.6
24	11.5	11.2	11.4	11.2	10.6	10.9	11.5	10.5	11.0	9.3	7.7	8.4
25	11.7	11.3	11.4	10.6	10.0	10.4	10.5	9.5	10.0	9.1	7.5	8.2
26	11.3	11.1	11.2	10.0	9.4	9.7	10.2	8.7	9.3	9.0	7.4	8.2
27	11.7	11.2	11.4	10.2	9.1	9.7	11.3	7.8	9.3	8.3	7.1	7.6
28	11.7	11.2	11.5	10.5	9.2	9.8	10.3	7.3	8.8	8.2	7.2	7.[illegible]
29	---	---	---	10.2	8.8	9.5	12.5	7.3	9.8	7.8	7.2	7.5
30	---	---	---	10.1	8.6	9.2	10.7	7.2	9.0	7.4	6.7	7.1
31	---	---	---	11.3	8.1	9.4	---	---	---	8.0	7.2	7.5
MONTH	12.8	10.5	11.7	12.5	8.1	10.7	16.1	6.9	10.3	14.4	5.5	8.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.3	6.8	7.5	---	---	---	---	---	---	7.8	4.2	6.5
2	8.3	6.4	7.3	---	---	---	---	---	---	13.8	7.1	10.1
3	8.7	6.5	7.5	---	---	---	---	---	---	12.6	5.9	9.6
4	8.9	6.5	7.6	---	---	---	14.1	8.0	11.5	11.2	5.5	8.4
5	9.1	5.8	7.3	---	---	---	14.1	6.1	9.4	15.4	4.9	9.9
6	7.4	5.7	6.7	---	---	---	10.1	5.9	7.8	14.6	6.1	10.9
7	7.6	7.1	7.4	---	---	---	14.1	8.0	10.6	14.5	6.7	10.8
8	7.7	7.2	7.5	8.1	7.1	7.7	13.2	7.5	9.9	13.7	7.2	10.5
9	7.6	7.1	7.4	8.4	6.0	7.2	14.1	7.9	10.5	12.2	6.1	9.2
10	7.6	6.7	7.2	8.2	6.2	7.1	9.5	5.8	6.8	11.4	6.0	8.9
11	7.5	6.6	6.9	8.1	6.7	7.3	6.8	5.1	6.2	8.7	5.1	7.0
12	7.4	6.7	7.0	7.8	7.4	7.6	6.8	5.7	6.4	8.3	5.1	6.5
13	7.5	6.8	7.1	---	---	---	6.9	5.3	6.5	---	---	---
14	7.4	6.6	6.9	---	---	---	6.9	4.9	6.6	---	---	---
15	7.6	6.1	6.8	---	---	---	6.8	4.3	6.4	---	---	---
16	7.9	6.2	6.8	---	---	---	6.7	5.8	6.1	---	---	---
17	6.4	5.9	6.1	---	---	---	6.8	5.2	6.3	---	---	---
18	---	---	---	---	---	---	13.1	7.0	10.0	---	---	---
19	---	---	---	---	---	---	13.2	4.4	8.9	---	---	---
20	---	---	---	---	---	---	11.5	4.9	8.5	---	---	---
21	---	---	---	---	---	---	11.3	4.6	8.0	---	---	---
22	---	---	---	---	---	---	9.8	3.6	6.9	10.0	7.6	8.9
23	---	---	---	---	---	---	9.1	3.7	6.6	7.7	5.2	6.4
24	---	---	---	---	---	---	11.2	3.5	7.3	6.6	4.8	5.6
25	---	---	---	---	---	---	10.4	4.5	7.6	7.2	4.5	5.6
26	---	---	---	---	---	---	7.3	3.6	5.5	6.5	6.0	6.2
27	---	---	---	---	---	---	4.5	2.9	3.6	6.8	6.0	6.5
28	---	---	---	---	---	---	8.0	3.4	5.2	6.8	6.5	6.7
29	---	---	---	---	---	---	8.0	4.3	5.8	6.9	6.4	6.6
30	---	---	---	---	---	---	8.7	4.0	6.0	6.8	6.2	6.4
31	---	---	---	---	---	---	9.9	4.5	7.1	---	---	---
MONTH	9.1	5.7	7.1	8.4	6.0	7.4	14.1	2.9	7.4	15.4	4.2	8.0
YEAR	16.1	1.6	8.8									

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 05080001, 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^2.

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: Dec. 19 through Jan. 16, Jan. 25-30, Feb. 14-15. 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 9 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--24 years, 197 ft^3/s, 13.58 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,300 ft^3/s Mar. 4, 1963, gage height, 14.40 ft, from rating curve extended above 7,000 ft^3/s on basis of contracted-opening measurement at gage height 18.8 ft; minimum daily, 2.5 ft^3/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^3/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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 26	2045	*7,370	*9.13	Dec. 11	1845	4,750	7.21

Minimum discharge, 6.4 ft^3/s Oct. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	14	444	62	108	156	107	150	115	330	30	14
2	8.2	19	548	60	549	1[illegible]	109	133	103	1870	28	13
3	8.3	27	275	58	618	152	99	107	80	551	25	13
4	8.8	45	210	58	3950	168	94	96	72	297	23	13
5	9.1	37	187	56	2250	275	92	93	72	190	23	13
6	8.8	29	167	52	1200	333	101	91	2570	136	22	12
7	8.6	25	140	50	1760	242	103	93	924	101	22	11
8	8.4	23	135	49	820	171	94	119	639	282	21	9.9
9	8.0	30	130	48	497	168	87	104	313	159	20	9.9
10	7.6	421	278	47	331	470	81	83	217	133	21	9.7
11	7.1	1310	2790	46	247	1360	79	75	276	552	23	12
12	7.7	1240	2320	45	190	887	75	71	492	2030	23	152
13	8.3	1430	904	45	147	2610	72	68	221	888	20	67
14	8.7	838	449	44	140	906	70	77	151	424	18	33
15	8.9	429	288	44	130	478	84	74	125	271	18	22
16	9.8	1640	227	44	118	312	78	573	271	196	18	17
17	10	933	190	51	400	244	72	271	219	152	19	15
18	10	407	148	79	1100	219	66	176	115	114	18	16
19	13	296	130	746	882	2100	63	136	95	93	16	25
20	31	336	120	498	493	791	218	112	96	80	15	39
21	34	247	110	282	558	366	1110	97	98	71	15	39
22	23	197	100	651	370	262	441	89	73	62	14	36
23	19	158	94	427	265	226	253	82	71	55	15	27
24	20	132	86	279	246	189	194	73	66	49	13	25
25	21	139	80	240	227	171	168	65	57	45	12	24
26	18	2310	78	210	240	164	148	69	51	44	12	24
27	16	3190	76	160	222	153	128	355	48	42	36	26
28	14	3080	74	140	174	138	118	228	254	39	36	40
29	13	1310	70	130	---	122	110	144	244	37	23	35
30	13	666	68	110	---	123	102	269	142	35	18	29
31	13	---	66	95	---	113	---	169	---	32	15	---
TOTAL	402.6	20958	10981	4908	18232	14230	4616	4342	8270	9355	633	821.5
MEAN	13.0	699	354	158	651	459	154	140	276	302	20.4	27.4
MAX	34	3190	2790	746	3950	2610	1110	573	2570	2030	36	152
MIN	7.1	14	66	44	108	113	63	65	48	32	12	9.7
CFSM	.07	3.55	1.80	.80	3.30	2.33	.78	.71	1.40	1.53	.10	.14
IN.	.08	3.96	2.07	.93	3.44	2.69	.87	.82	1.56	1.77	.12	.16

CAL YR 1985 TOTAL 88105.1 MEAN 241 MAX 4570 MIN 6.2 CFSM 1.22 IN. 16.64
WTR YR 1986 TOTAL 97749.1 MEAN 268 MAX 3950 MIN 7.1 CFSM 1.36 IN. 18.46

7378

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^2.

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: Dec. 17 through Jan. 17, 25-31. Records good except for estimated periods which are fair. 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.--68 years (1914-23, 1927-86), 266 ft^3/s, 13.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,390 ft^3/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^3/s Sept. 25, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 13.3 ft, original site and datum, discharge, 66,000 ft^3/s, computed by Miami Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,640 ft^3/s Mar. 13, gage height 26.05 ft; minimum daily, 11 ft^3/s Oct. 2, 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	19	686	88	148	231	168	162	153	233	37	20
2	11	23	749	84	576	225	171	166	137	2170	35	20
3	11	30	440	82	753	223	156	135	104	686	33	20
4	11	57	329	78	4340	234	149	120	88	415	31	20
5	12	54	287	76	4030	352	142	115	85	199	29	20
6	13	41	265	71	1650	441	146	112	2040	145	28	19
7	13	35	225	70	2630	359	153	117	1360	112	28	18
8	12	32	212	68	1230	246	139	144	704	201	27	17
9	12	47	206	66	759	240	129	140	398	150	26	17
10	13	500	300	64	526	449	122	109	257	129	27	16
11	13	2050	2790	64	389	1930	116	97	283	396	28	18
12	13	1830	3760	64	292	1110	111	91	465	2440	28	72
13	13	1770	1380	62	244	5040	105	89	282	1890	27	87
14	14	1220	717	62	237	1710	101	94	184	601	24	43
15	16	678	457	60	211	812	121	99	147	334	23	30
16	16	2370	359	60	186	535	115	497	129	230	23	25
17	16	1460	300	70	496	410	105	371	414	177	24	22
18	18	671	240	101	1420	357	100	224	189	138	23	22
19	20	477	200	911	1300	2530	95	175	126	113	21	23
20	42	460	170	798	761	1250	165	146	111	97	20	32
21	46	370	150	436	759	604	1340	125	109	85	20	37
22	32	298	130	864	600	423	625	113	93	76	20	40
23	25	247	120	656	419	357	355	105	83	67	20	34
24	25	209	120	415	370	301	263	95	80	60	20	38
25	24	223	110	340	348	266	223	85	70	55	18	35
26	23	1490	110	280	351	251	197	83	62	51	20	30
27	22	5100	110	230	338	251	171	342	56	49	37	31
28	20	4490	100	200	264	220	157	326	136	47	37	34
29	18	2060	100	170	---	205	148	188	258	44	32	43
30	18	1020	96	150	---	191	131	269	160	41	26	37
31	18	---	90	130	---	178	---	236	---	39	23	---
TOTAL	572	29331	15308	6873	25627	21931	6219	5170	8763	11370	815	920
MEAN	18.5	978	494	222	915	707	207	167	292	367	26.3	30.7
MAX	46	5100	3760	911	4340	5040	1340	497	2040	2440	37	87
MIN	11	19	90	60	148	178	95	83	56	39	18	16
CFSM	.07	3.56	1.80	.81	3.33	2.57	.75	.61	1.06	1.33	.10	.11
IN.	.08	3.97	2.07	.93	3.47	2.97	.84	.70	1.19	1.54	.11	.12

CAL YR 1985	TOTAL	118658.3	MEAN	325	MAX	5190	MIN	9.4	CFSM	1.18	IN.	16.05
WTR YR 1986	TOTAL	132899	MEAN	364	MAX	5100	MIN	11	CFSM	1.32	IN.	17.98

03272700 SEVENMILE CREEK AT CAMDEN, OH

LOCATION.--Lat 39°37'45", long 84°38'40", Preble County, Hydrologic Unit 05080001, 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 mi².

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: Dec. 20 through Jan. 17, Jan. 25, 26, 29, Feb. 18 through Mar. 4. Records good except for periods of estimated record, which are fair. Water-quality data collected at this site 1972 to 1974.

COOPERATION.--Gage-height tapes, and 8 discharge measurements furnished by Miami Conservancy District.

AVERAGE DISCHARGE.--15 years (1972-86), 73.7 ft³/s, 14.50 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,210 ft³/s June 22, 1974, gage height 13.25 ft, present datum, from rating curve extended above 2,200 ft³/s; minimum daily, 1.6 ft³/s July 21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1500 ft³/s and maximum (*).

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov 26	2300	2,990	9.62	Feb. 6	2245	1,660	7.77
Nov. 28	0545	1,640	7.74	Mar. 12	2330	*3,800	*10.46
Dec. 11	1600	1,650	7.75	May 7	2015	1,990	8.29
Feb. 4	1245	1,830	8.05	July 12	2200	3,110	9.73

Minimum daily discharge, 3.0 ft³/s Oct. 3, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	5.2	198	26	47	72	46	57	24	57	8.3	3.8
2	7.6	10	197	25	138	70	47	48	21	270	7.4	4.1
3	3.0	11	124	24	221	70	41	39	17	101	6.8	4.1
4	3.1	20	99	23	1550	75	40	28	16	52	6.5	4.1
5	3.2	14	87	22	696	91	38	27	19	33	6.0	4.3
6	3.2	11	77	21	512	112	43	27	604	24	5.8	3.7
7	3.0	9.8	65	20	762	89	41	156	253	20	5.6	3.3
8	3.1	9.5	63	19	313	67	38	94	142	31	6.0	3.2
9	3.1	25	60	19	211	67	35	42	79	27	7.2	3.3
10	3.1	207	129	18	158	212	33	35	59	24	6.0	3.5
11	3.2	394	917	18	124	349	32	32	58	113	8.2	6.0
12	3.5	483	567	18	96	498	31	31	136	508	6.3	29
13	3.7	379	274	18	77	996	28	30	66	404	5.3	12
14	4.2	225	167	17	79	335	28	48	45	143	5.1	7.1
15	4.8	184	123	17	69	234	38	52	38	82	4.8	5.5
16	5.1	711	99	17	63	178	31	249	33	55	5.0	4.7
17	5.4	343	84	20	253	149	28	103	34	42	5.8	4.0
18	5.8	209	63	33	367	120	26	74	28	33	5.6	4.7
19	8.0	167	56	223	310	637	24	57	24	28	4.5	7.0
20	35	147	50	142	210	268	106	48	29	24	3.4	9.6
21	17	100	45	101	180	155	231	43	29	20	3.6	8.1
22	8.9	83	42	173	140	117	113	40	21	17	4.1	6.7
23	7.2	65	38	121	120	100	75	34	25	16	4.0	5.9
24	10	56	35	91	110	83	61	27	22	14	3.8	17
25	11	75	34	80	98	74	54	24	17	13	3.5	9.8
26	7.1	1070	31	70	92	71	48	24	16	12	5.1	6.3
27	5.9	1220	30	62	88	69	42	33		12	31	11
28	5.3	1100	29	50	80	60	40	25		12	9.4	13
29	5.0	405	28	45	---	57	36	25	[illegible]	12	5.9	7.4
30	4.8	252	27	41	---	52	40	34	32	11	4.9	7.5
31	4.8	---	27	38	---	48	---	34	---	8.8	4.2	---
TOTAL	207.0	7990.5	3866	1612	7164	5575	1514	1618	1982	2218.8	199.1	219.7
MEAN	6.68	266	125	52.0	256	180	50.5	52.2	66.1	71.6	6.42	7.32
MAX	35	1220	917	223	1550	996	231	249	604	508	31	29
MIN	3.0	5.2	27	17	47	48	24	24	15	8.8	3.4	3.2
CFSM	.10	3.86	1.81	.75	3.71	2.61	.73	.76	.96	1.04	.09	.11
IN.	.11	4.31	2.08	.87	3.86	3.01	.82	.87	1.07	1.20	.11	.12

CAL YR 1985	TOTAL	31162.0	MEAN	85.4	MAX	1330	MIN	2.8	CFSM	1.24	IN.	16.80
WTR YR 1986	TOTAL	34166.1	MEAN	93.6	MAX	1550	MIN	3.0	CFSM	1.36	IN.	18.42

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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^2.

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: Dec. 20-25, Dec. 27 through Jan. 7, 10-18. 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 1.14 ft^3/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.--55 years (1931-86), 3,305 ft^3/s, 12.37 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 352,000 3/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^3/s Jan. 21, 1959, gage height 79.47 ft; minimum daily discharge, 155 ft^3/s Sept 27, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,500 ft^3/s Nov. 28, gage height, 68.99 ft; minimum daily, 429 ft^3/s Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	486	565	11600	1600	2270	3770	2890	2470	2720	4940	1430	731
2	525	612	8220	1700	3070	3420	2880	2420	2220	13700	1270	730
3	522	660	6400	1700	5120	3310	2700	2380	1890	14000	1130	696
4	478	1150	5010	1600	21400	3330	2630	2230	1680	9100	1040	691
5	470	953	4290	1600	23600	3580	2500	2040	1610	5260	993	693
6	453	817	3950	1600	19400	5000	2450	1940	3840	3790	944	692
7	451	759	3560	1500	23100	6610	2660	2300	12200	2930	931	633
8	446	803	3230	1460	16500	5150	2530	3650	10800	2440	886	609
9	455	798	3030	1410	11600	4160	2450	2890	7070	2290	875	606
10	452	2010	3050	1400	8470	3920	2340	2650	4770	2000	927	618
11	439	13500	10000	1400	6700	9890	2280	2140	4140	2650	1050	723
12	430	9800	25200	1400	5360	11700	2160	1920	4040	7530	939	1680
13	429	8510	22700	1300	4130	27200	2040	1800	3530	16400	864	1490
14	433	9030	18200	1300	3710	22800	1910	1850	2730	8800	844	1020
15	460	7130	13000	1300	3600	14000	2120	1830	2280	5050	846	853
16	469	15100	8870	1200	3260	9240	2090	2650	1990	3870	790	753
17	495	11300	5950	1200	5620	7220	2030	6470	2670	5480	789	711
18	482	7800	4730	1500	8180	6070	1950	5470	2160	5870	770	743
19	497	5590	3550	5640	11100	13500	1900	4000	1790	4160	775	849
20	1650	4580	3200	10600	10300	16600	2220	3440	1830	2880	755	1180
21	1570	4490	2900	8220	8590	12900	7760	2920	3000	2300	755	1700
22	864	3790	2600	7370	8390	8490	12200	2570	3320	1950	791	1470
23	724	3220	2400	6750	6890	6380	8900	2350	2430	1740	722	1270
24	746	2840	2200	5290	5750	5290	5920	2120	2420	1550	701	1230
25	764	2660	2100	4390	5260	4630	4690	2020	2230	1420	663	1120
26	699	5950	1950	4060	4980	4250	3870	1940	1760	1360	655	3650
27	628	24400	1900	3660	4940	4410	3320	2640	1530	1530	1470	4800
28	589	31800	1900	2770	4340	3920	2970	3540	2010	1470	1310	4460
29	586	23300	1900	2570	---	3610	2810	3590	3490	1470	926	3060
30	560	16100	1800	2630	---	3270	2550	3320	3040	1500	900	2410
31	556	---	1800	2460	---	3060	---	3100	---	1600	802	---
TOTAL	18808	220017	191190	92780	245630	240680	101720	86650	101190	141030	28543	41861
MEAN	607	7334	6167	2993	8773	7764	3391	2795	3373	4549	921	1395M
MAX	1650	31800	25200	10600	23600	27200	12200	6470	12200	16400	1470	4800
MIN	429	565	1800	1200	2270	3060	1900	1800	1530	1360	655	606
CFSM	.17	2.02	1.70	.82	2.42	2.14	.93	.77	.93	1.25	.25	.38
IN.	.19	2.25	1.96	.95	2.52	2.47	1.04	.89	1.04	1.45	.29	.43

CAL YR 1985 TOTAL 1355166 MEAN 3713 MAX 31800 MIN 429 CFSM 1.02 IN. 13.89
WTR YR 1986 TOTAL 1510099 MEAN 4137 MAX 31800 MIN 429 CFSM 1.14 IN. 15.48

03274600 GREAT MIAMI RIVER AT NEW BALTIMORE, OH
(National Stream-Quality Accounting Network station)

LOCATION.--Lat 39°15'47", long 84°43'04", 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 mi².
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, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)	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)
OCT												
02...	0900	519	960	8.60	5.0	15.5	6.0	9.5	96	1200	280	78
DEC												
18...	1010	4830	550	7.80	-3.0	0.5	23	12.8	93	14000	4000	72
MAR												
05...	1000	3510	760	8.20	1.0	4.5	7.5	12.2	97	3000	670	85
MAY												
07...	1100	1940	725	8.80	25.0	21.0	9.0	11.2	128	280	73	76
JUN												
11...	1000	3850	625	8.20	24.0	24.0	90	7.5	92	3800	1200	74
AUG												
13...	1000	870	790	8.80	26.0	24.5	40	10.5	128	380	5 0	65

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	ALKA-LINITY LAB (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)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 110 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)
OCT												
02...	35	65	228	110	100	0.8	5.4	587	4.50	0.20	1.1	0.80
DEC												
18...	26	17	206	64	39	2.0	7.8	354	4.50	0.42	1.2	0.29
MAR												
05...	32	28	246	70	55	0.3	5.9	443	4.90	0.68	1.4	0.28
MAY												
07...	32	30	225	76	50	0.3	<0	416	3.10	0.01	1.9	0.35
JUN												
11...	26	17	192	54	34	0.3	8.5	376	9.10	0.08	1.8	0.54
AUG												
13...	32	49	209	91	80	0.5	0.1	474	1.60	<0.01	2.6	0.70

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	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)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT											
02...	0.69	0.69	20	2	94	0.6	1	5	1	17	8
DEC											
18...	0.22	0.19	40	1	71	<0.5	<1	1	3	38	<1
MAR											
05...	0.23	0.19	--	--	--	--	--	--	--	--	--
MAY											
07...	0.09	0.07	--	--	--	--	-	--	--	--	--
JUN											
11...	0.27	0.22	20	1	71	<0.5	<1	<1	6	15	<1
AUG											
13...	0.21	0.13	--	--	--	--	--	--	--	--	--

DATE	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)	ZINC, DIS-SOLVED (UG/L AS ZN)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)
OCT											
02...	16	4	<0.1	<10	14	2	1	720	32	100	23
DEC											
18...	9	11	<0.1	<10	4	2	<1	610	9	--	100
MAR											
05...	--	--	--	--	--	--	--	--	--	100	25
MAY											
07...	--	--	--	--	--	--	--	--	--	92	72
JUN											
11...	11	1	<0.1	<10	3	1	<1	560	10	98	194
AUG											
13...	--	--	--	--	--	--	--	--	--	99	228

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 1986

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/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	1978-86	9-25-86	99.43	2.7
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	1982-86	11-16-85	10.85	9.7
		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	1978-86	7-12-86	95.54	72
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	1978-86	11-05-85	87.34	328
03111470	Little Piney Fork at Parlett, OH	Lat 40°16'07", long 80°50'55", Jefferson County, Hydrologic Unit 05030101, at culvert on State Route 151, 0.9 mi east of Parlett.	1.57	1978-86	11-05-85	94.42	48
03111490	Piney Fork tributary near Piney Fork, OH	Lat 40°16'16", 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	1978-86	11-05-85	97.47	16
		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	1978-86	7-12-86	103.22	174
		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	1978-86	11-16-85	96.37	45
		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	1978-86	11-04-85	95.03	890

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CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft³/s)
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	1978-86	11-04-85	97.90	26
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	1978-86	9-26-86	91.24	405
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	1982-86	11-16-85	12.16	92
				Station discontinued 6-24-86			
		Duck Creek basin					
03115710	Buffalo Run tributary near Dexter City, OH	Lat 39°39'41", long 81°26'56", Noble County, Hydrologic Unit 05030201, at culvert on County Road 2, 1.3 mi east of Dexter City.	0.19	1978-86	6-28-86	96.74	46
		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	1982-86	7-02-86	11.45	28
03122060 (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.	0.24	1982-86	7-02-86	11.35	18
03122400 (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	1966-86	11-27-85	21.18	65
				Station discontinued 6-25-86			
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	1978-86	11-09-85	100.41	116
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	1978-86	11-05-85	96.99	230
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	1978-86	11-05-85	99.36	9..
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.	0.12	1982-86	6-10-86	14.94	104
				Station discontinued 6-24-86			

000210

7378

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
03148300	Moxahala Creek at Roseville, OH	Lat 39°46'38", 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	1964-86	11-16-85	15.64	4,550
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.	2.15	1982-86	11-16-85	14.87	156
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	1982-86	7-02-86	14.91	223
			Station discontinued 7-23-86				
		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 0.9 mi southeast of Haydenville.	0.88	1982-86	3-10-86	10.99	9.8
			Station discontinued 6-24-86				
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	1978-86	-------	<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	1978-86	-------	<94.16	<78
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	1982-86	3-19-86	10.99	21
		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	1978-86	2-04-86	96.81	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.	0.72	1978-86	7-02-86	13.66	69

000211

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Gage height (feet)	Discharge (ft³/s)
		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°19'15", Union County, Hydrologic Unit 05060001, at culvert on U.S. Highway 33, 1.37 mi upstream of Mill Creek, and 3.0 mi southeast of Marysville.	4.03	1982-86	7-02-86	14.93	201
			Station discontinued 7-15-86				
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, 0.8 mi upstream of Whetstone Creek, 0.5 mi south of West Point - Fellville Road, and 1.15 mi southeast of West Point.	6.18	1981-86	7-11-86	12.44	50
03225080 (d)	Bull Creek near Adelphi, OH	Lat 39°27'11", long 83°46'46", Ross County, Hydrologic Unit 05060002, at culvert on State Route 180, 1.9 mi southwest of Adelphi.	3.13	1978-86	11-16-85	69.[illegible]	243
03236090	South Branch Little Salt Creek near Jackson, OH	Lat 39°06'50", long 82°39'02", Jackson County, Hydrologic Unit 05030002, at culvert on State Highway 124, 210 ft east of State Highway 139, and 2.7 mi south of Jackson.	1.28	1978-86	11-17-85	42.96	75
03236095	Devers Run at Lucasville, OH	Lat 38°51'54", long 82°[illegible]'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	1978-86	--------	<93.64	<139
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 upstream from Plum Run, 2.72 mi northeast of State Route 41, and 1.30 mi east of Peebles.	1.85	1982-86	5-12-86	14.02	143
03237198 (d)	Duncan Hollow Creek near McDermott, OH	Lat 38°51'29", long 83°03'37", Scioto County, Hydrologic Unit 05060002, at culvert on State Route 348, 1.22 mi west of State Route 104, .78 mi upstream from Duck Run, and 2.75 mi south of McDermott.	6.51	1982-86	5-14-86	12.23	46
03237315 (d)	Elk Fork at Winchester, OH	Lat 38°56'19", long 83°37'21", Adams County, Hydrologic Unit 05090201, at culvert on State Route 32, 3.06 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	1982-86	5-14-86	19.28	880
			Station discontinued 7-9-86				
03238255 (d)	Sugar Run near New Market, OH	Lat 39°14'36", long 83°46'36", 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	1982-86	6-12-86	16.00	300
			Station discontinued 7-9-86				

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		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 Glady Run, and on the corporate line of Xenia.	0.65	1982-86	11-16-85	12.28	41
				Station discontinued 6-11-86			
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 upstream of an unnamed tributary to Boyd Creek, and 3.15 mi north of Greenville.	0.96	1982-86	6-30-86	13.24	83
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 upstream from Storms Creek, and .40 mi northwest of Terre Haute.	1.75	1982-86	7-01-86	12.59	145
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	1978-86	7-12-86	17.63	216

d Operated as a rural flood volume site where additional data may be available, data collection suspended from mid-November to mid-March.
e Estimate

405303082170700. Local number, AS-2.
LOCATION.--Lat 40°53'03", long 82°17'07", Hydrologic Unit 05040002, Jerome Fork well field 2 mi northeast of 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.--
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.--
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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.13	29.62	28.12	25.63	25.09	23.90	22.09	23.34	24.19	24.19	23.87	24.98
2	28.13	29.64	28.12	25.60	25.05	23.89	22.11	23.41	24.23	24.26	23.88	25.06
3	28.12	29.64	28.10	25.65	25.01	23.84	22.17	23.37	24.23	24.30	23.88	25.12
4	28.09	29.63	28.04	25.64	24.93	23.80	22.25	23.29	24.24	24.31	23.93	25.18
5	28.12	29.71	28.02	25.58	24.93	23.74	22.36	23.31	24.24	24.29	23.94	25.24
6	28.15	29.68	28.03	25.48	24.95	23.64	22.41	23.42	24.20	24.23	23.98	25.30
7	28.18	29.66	28.[illegible]	25.56	24.98	23.70	22.46	23.44	24.14	24.17	24.02	25.40
8	28.25	29.73	27.91	25.58	24.98	23.70	22.59	23.59	24.12	24.10	24.13	25.47
9	28.28	29.68	27.94	25.47	24.84	23.60	22.71	23.63	24.21	24.01	24.21	25.53
10	28.24	29.59	27.95	25.37	24.80	23.66	22.79	23.59	24.20	24.03	24.27	25.62
11	28.30	29.62	27.95	25.33	24.76	23.86	22.85	23.60	24.10	24.06	24.35	25.72
12	28.30	29.66	27.80	25.27	24.76	23.87	22.83	23.73	24.17	24.09	24.41	25.35
13	28.30	29.60	27.71	25.21	24.75	23.75	22.87	23.84	24.17	24.11	24.45	25.57
14	28.40	29.61	27.62	25.20	24.71	23.20	22.86	23.96	24.16	24.14	24.52	26.03
15	28.46	29.59	27.37	25.24	24.61	22.84	22.92	24.02	24.11	24.15	24.57	26.18
16	28.47	29.50	27.17	25.32	24.51	22.70	22.92	24.00	24.07	24.15	24.62	26.26
17	28.47	29.47	27.00	25.43	24.35	22.37	22.81	23.96	24.14	24.20	24.71	26.34
18	28.47	29.42	26.81	25.46	24.26	22.20	22.79	23.92	24.14	24.24	24.78	26.45
19	28.48	29.28	26.68	25.38	24.17	21.92	22.72	23.91	24.04	24.27	24.85	26.46
20	28.48	29.15	26.60	25.39	24.10	21.89	22.72	23.92	23.97	24.28	24.86	26.46
21	28.56	29.04	26.52	25.39	24.00	21.81	22.89	23.92	23.99	24.27	24.92	26.55
22	28.64	28.95	26.44	25.45	23.92	21.71	22.97	23.91	24.00	24.29	24.96	26.63
23	28.70	28.94	26.36	25.45	23.80	21.61	23.03	23.89	24.05	24.23	24.94	26.73
24	28.86	28.90	26.33	25.33	23.80	21.64	23.06	23.96	24.14	24.14	24.95	26.84
25	29.00	28.87	26.29	25.27	23.80	21.57	23.12	24.00	24.19	24.06	25.02	26.95
26	29.11	28.70	26.22	25.21	23.75	21.63	23.16	24.03	24.21	23.98	25.07	27.04
27	29.23	28.61	26.08	25.14	23.85	21.77	23.08	24.07	24.23	23.93	25.10	27.03
28	29.35	28.46	26.03	25.11	23.88	21.85	23.01	24.10	24.24	23.88	25.07	27.09
29	29.48	28.40	25.90	25.21	---	21.92	23.15	24.11	24.22	23.83	25.06	27.19
30	29.59	28.25	25.82	25.25	---	22.01	23.22	24.13	24.17	23.85	25.03	27.27
31	29.60	---	25.69	25.16	---	22.04	---	24.15	---	23.85	24.99	---
MAX	29.60	29.73	28.12	25.65	25.09	23.90	23.22	24.15	24.24	24.31	25.10	27.27

WTR YR 1986 MEAN 25.26 HIGH 21.57 MAR 25 LOW 29.73 NOV 8

405425082173000. 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.
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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.63	23.07	21.52	18.17	20.53	25.16	17.12	15.18	26.41	24.27	25.56	25.07
2	28.91	23.48	18.99	16.41	19.14	25.07	19.40	14.00	27.00	23.44	24.89	25.39
3	29.06	23.79	13.46	14.87	19.86	21.64	16.36	14.65	27.20	22.58	28.11	25.96
4	25.74	23.79	12.03	14.09	20.13	21.77	11.99	14.82	27.38	21.70	29.28	26.48
5	28.98	26.42	10.94	13.88	19.22	21.19	11.89	14.75	27.45	20.72	29.50	26.77
6	29.80	23.17	10.25	14.66	19.72	21.19	12.52	21.59	22.91	19.61	25.97	29.11
7	29.07	23.23	17.52	14.59	20.26	21.76	12.09	25.39	22.13	21.00	26.17	29.13
8	29.17	26.97	18.86	14.80	20.54	21.88	10.45	20.79	25.23	21.94	25.97	26.80
9	29.16	23.86	14.51	16.32	20.85	25.12	10.64	16.58	26.50	26.52	25.09	25.92
10	28.82	23.90	16.52	20.06	21.07	25.35	11.55	15.71	26.85	27.37	27.74	25.24
11	29.15	23.85	19.46	22.32	21.37	25.46	10.72	17.13	27.05	27.58	28.26	24.89
12	26.11	26.37	19.32	22.47	21.60	25.30	9.83	22.49	23.37	23.56	23.98	24.38
13	28.71	26.65	19.54	23.19	21.75	25.07	9.47	20.70	23.47	22.46	23.55	23.84
14	28.81	26.93	15.41	24.84	22.15	24.39	16.78	21.58	24.00	23.16	27.60	23.28
15	28.87	26.90	17.18	25.03	22.80	24.12	12.47	22.13	24.51	27.19	28.20	22.68
16	25.98	26.60	17.23	25.48	22.97	24.01	19.08	21.87	25.06	27.98	24.50	24.46
17	25.73	26.31	15.71	25.68	25.66	20.22	20.26	21.09	29.30	23.62	24.51	24.66
18	25.88	26.06	15.39	20.65	25.89	17.41	20.30	21.54	29.57	27.09	23.89	24.79
19	26.05	21.90	20.15	20.77	25.95	14.97	21.13	22.35	25.52	27.89	24.56	24.83
20	26.21	20.84	16.63	21.22	25.90	16.97	15.30	22.98	25.48	28.08	24.76	24.83
21	29.56	20.31	16.06	21.87	25.77	16.22	12.39	23.49	25.56	26.49	28.78	24.83
22	29.66	19.26	15.58	25.54	25.60	14.19	15.68	23.70	25.66	28.18	29.19	24.79
23	26.80	18.36	17.50	25.56	25.46	14.41	17.27	23.84	25.83	28.91	29.23	21.75
24	25.67	17.62	17.24	25.43	25.25	14.40	18.18	28.23	26.20	29.64	24.53	21.46
25	25.08	16.59	21.01	25.28	25.40	12.45	19.63	28.50	26.40	29.89	24.84	20.79
26	24.34	16.49	21.80	21.76	25.44	11.18	20.16	28.54	25.98	25.47	25.43	20.04
27	23.66	16.22	17.93	22.05	25.29	10.37	22.09	28.57	25.50	24.67	29.86	21.56
28	23.08	15.62	18.96	22.26	25.23	11.31	23.96	28.59	25.11	28.69	30.25	22.29
29	22.43	20.67	19.82	22.54	---	12.24	21.90	28.61	24.74	29.17	26.31	21.56
30	22.00	21.51	23.68	22.61	---	12.95	17.13	28.63	24.60	27.58	26.23	21.94
31	22.56	---	18.65	21.70	---	13.27	---	24.24	---	24.75	25.59	---
MAX	29.80	26.97	23.68	25.68	25.95	25.46	23.96	28.63	29.57	29.89	30.25	29.13

WTR YR 1986 MEAN 22.46 HIGH 9.47 APR 13 LOW 30.25 AUG 28

392004082071 6CC. 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, 20.63 ft below land-surface datum, Oct. 10, 1985; minimum daily low, 1.05 ft below land-surface datum, May 25, 28, 1968.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1985	20.63	APR. 23, 1986	18.94

BEST COPY AVAILABLE

392009082072200. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.63	23.07	21.52	18.17	20.53	25.16	17.12	15.18	26.41	24.27	25.06	25.07
2	28.91	23.48	18.99	16.41	19.14	25.07	19.40	14.00	27.00	23.44	24.89	25.39
3	29.06	23.79	13.46	14.87	19.86	21.64	16.36	14.65	27.20	22.58	28.11	25.96
4	25.74	23.79	12.03	14.09	20.13	21.77	11.99	14.82	27.38	21.70	29.28	26.48
5	28.98	26.42	10.94	13.88	19.22	21.19	11.89	14.75	27.45	20.72	29.50	26.77
6	29.80	23.17	10.25	14.66	19.72	21.19	12.52	21.59	22.91	19.61	25.97	29.11
7	29.07	23.23	17.52	14.59	20.26	21.76	12.09	25.39	22.13	21.00	26.17	29.13
8	29.17	26.97	18.86	14.80	20.54	21.88	10.45	20.79	25.23	21.94	25.97	26.80
9	29.16	23.80	14.51	18.32	20.85	25.12	10.64	16.58	26.50	26.52	25.09	25.92
10	28.82	23.90	16.52	20.06	21.07	25.35	11.55	15.71	26.85	27.37	27.74	25.24
11	29.15	23.85	19.46	22.32	21.37	25.46	10.72	17.13	27.05	27.58	28.26	24.89
12	26.11	26.37	19.32	22.47	21.60	25.30	9.83	22.49	23.37	23.56	23.98	24.38
13	28.71	26.65	19.54	21.19	21.75	25.07	9.47	20.70	23.47	22.46	23.55	23.84
14	28.81	26.93	15.41	24.84	22.15	24.39	16.78	21.58	24.[illegible]	23.16	27.60	23.28
15	28.87	26.90	17.18	25.03	22.80	24.12	12.47	22.13	24.51	27.15	28.20	22.68
16	25.98	26.60	17.23	25.48	22.97	24.01	19.08	21.87	25.06	27.98	24.50	24.46
17	25.73	26.31	15.71	25.68	25.66	20.22	20.26	21.09	29.30	23.62	24.51	24.68
18	25.88	26.06	15.39	20.65	25.89	17.41	20.90	21.54	29.57	27.09	23.8[illegible]	24.79
19	26.05	21.90	20.1[illegible]	20.77	25.95	14.97	21.13	22.35	25.52	27.89	24.56	24.83
20	26.21	20.84	16.63	21.22	25.90	16.97	15.30	22.98	25.48	28.08	24.76	24.83
21	29.56	20.31	16.06	21.87	25.77	16.22	12.39	23.49	25.56	26.49	28.78	24.83
22	29.66	19.26	15.58	25.54	25.60	14.19	15.68	23.70	25.66	28.18	29.19	24.79
23	26.80	18.38	17.50	25.56	25.46	14.41	17.27	23.84	25.83	28.91	29.23	21.75
24	25.87	17.62	17.24	25.43	25.25	14.40	18.18	28.23	26.20	29.64	24.53	21.46
25	25.08	16.59	21.01	25.28	25.40	12.45	19.63	28.50	26.40	29.89	24.84	20.79
26	24.[illegible]4	16.49	21.80	21.76	25.44	11.18	20.16	28.54	25.98	25.47	25.43	20.04
27	23.66	16.22	17.93	22.05	25.29	10.37	22.09	28.57	25.50	24.67	29.86	21.56
28	23.08	15.62	16.96	22.26	25.23	11.31	23.96	28.59	25.11	28.89	30.25	22.29
29	22.43	20.67	19.82	22.54	---	12.24	21.90	28.61	24.74	29.17	26.31	21.56
30	22.00	21.51	23.68	22.61	---	12.95	17.13	28.63	24.60	27.58	26.23	21.94
31	22.58	---	18.65	21.70	---	13.27	---	24.24	---	24.75	25.59	---
MAX	29.80	26.97	23.68	25.68	25.95	25.46	23.96	28.63	29.57	29.89	30.25	29.13

WTR YR 1986 MEAN 22.46 HIGH 9.47 APR 13 LOW 30.25 AUG 28

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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 30, 1983	8.22	Apr. 29, 1986	4.95

400116081082200. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61.43	61.38	---	59.15	58.97	---	58.93	59.86	60.71	---	58.43	59.94
2	61.44	61.28	---	59.17	58.93	---	59.00	59.95	60.81	---	58.47	59.97
3	61.44	61.29	---	59.25	58.92	---	---	60.03	60.91	60.51	58.53	60.03
4	61.44	61.29	---	59.26	58.50	---	---	60.04	---	60.48	58.68	60.03
5	61.39	61.23	---	59.28	---	---	---	60.04	---	60.35	58.74	60.05
6	61.45	61.18	---	59.49	---	---	---	60.04	---	60.25	58.76	60.12
7	61.52	61.18	---	59.68	---	---	---	60.06	---	60.11	58.82	60.22
8	61.57	61.11	---	59.70	---	---	59.19	60.10	---	59.98	58.92	60.31
9	61.61	61.07	---	59.69	---	---	59.25	60.17	---	59.84	59.03	60.33
10	61.59	60.89	---	59.61	---	---	59.26	60.23	---	59.74	59.08	60.34
11	61.54	60.75	---	59.61	---	---	59.31	60.23	---	59.71	59.23	60.34
12	61.54	60.63	---	59.58	---	58.77	59.43	60.23	---	59.63	59.33	60.38
13	61.51	60.36	58.11	59.62	58.17	58.74	59.51	60.28	---	59.60	59.37	60.50
14	61.50	60.07	58.26	59.70	58.17	58.67	59.52	60.34	---	59.59	59.40	60.55
15	61.51	59.83	58.26	59.80	58.17	58.51	59.52	60.41	---	59.60	59.42	60.55
16	61.66	---	58.26	59.88	---	58.52	59.56	60.45	---	59.59	59.48	60.63
17	61.73	---	58.25	59.89	---	58.52	59.69	60.46	---	59.56	59.55	60.64
18	61.73	---	58.38	59.87	---	58.48	59.77	60.46	---	59.47	59.65	60.64
19	61.69	---	58.41	59.76	58.16	58.36	59.78	60.49	---	59.36	59.72	60.67
20	61.66	---	58.41	59.74	58.14	58.46	59.76	60.54	---	59.23	59.76	60.70
21	61.63	---	58.42	59.76	58.10	58.48	59.66	60.56	---	59.07	59.79	60.74
22	61.61	---	58.42	59.69	---	58.46	59.78	60.59	---	59.01	59.79	60.74
23	61.60	---	58.36	59.67	---	58.48	59.87	60.61	---	58.92	59.79	60.74
24	61.59	---	58.47	59.62	---	58.49	59.89	60.65	---	58.75	59.73	60.73
25	61.58	---	58.61	59.42	---	58.48	59.86	60.67	---	58.66	59.75	60.74
26	61.58	---	58.64	59.16	---	58.50	59.80	60.67	---	58.59	59.75	60.75
27	61.55	---	58.71	58.93	---	58.55	59.80	60.68	---	58.51	59.75	60.74
28	61.54	---	58.79	58.91	---	58.59	59.78	60.71	---	58.49	59.84	60.74
29	61.54	---	58.88	58.90	---	58.66	59.83	60.71	---	58.43	59.89	60.68
30	61.50	---	58.94	58.96	---	58.75	59.86	60.71	---	58.43	59.93	60.63
31	61.44	---	59.02	58.97	---	58.83	---	60.71	---	58.43	59.93	---
MAX	61.73	---	---	59.89	---	---	---	60.71	---	---	59.93	60.75

WTR YR 1986 MEAN 59.83 HIGH 58.10 FEB 21 LOW 61.73 OCT 17 AND OTHERS

7378

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 65 ft.
INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.
DATUM.--Elevation of land-surface datum is 586.85 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 22, 1985	10.64	Nov. 1, 1985	10.82	May 1, 1986	10.24

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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 22, 1985	12.73	Oct. 22, 1985	12.87	Apr. 14, 1986	10.98

7378

391904084371800. Local number, BU-12.
LOCATION.--Lat 39°19'04", long 84°37'18", Hydrologic Unit 05080002. Cincinnat well field 1.5 mi east of Poss.
Owner: City of Cincinnati.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled tent 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 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.85 ft below land-surface datum, Oct. 17, 1985; minimum daily low, 2.00 ft above land surface, May 24, 25, 1968.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.25	24.35	12.80	18.85	18.50	17.30	19.25	19.80	20.30	20.70	22.55	20.80
2	23.80	24.40	12.30	18.90	18.80	17.80	19.50	20.15	20.35	19.95	22.75	20.85
3	24.40	24.50	13.05	18.90	18.75	17.95	19.85	18.95	19.75	[illegible].30	23.00	21.80
4	25.05	24.50	13.65	19.00	17.90	18.45	20.00	20.40	18.40	17.75	23.05	22.15
5	25.10	24.30	17.55	19.50	13.20	18.65	20.05	20.00	18.40	18.55	23.20	21.90
6	22.70	24.25	18.25	19.85	12.30	18.75	19.90	19.60	19.75	19.15	23.40	22.30
7	23.20	24.25	16.10	19.30	10.45	18.15	20.10	19.10	17.80	19.80	23.40	22.30
8	23.20	24.25	17.90	19.35	12.45	18.20	19.40	18.45	15.80	20.10	23.35	23.60
9	24.60	24.40	18.90	19.65	13.85	18.50	19.55	18.45	16.85	20.45	23.35	24.05
10	23.60	24.45	17.05	19.65	14.90	19.10	19.80	18.65	17.95	20.50	23.45	23.35
11	25.15	22.75	16.30	19.00	16.00	19.05	19.85	19.50	18.25	20.70	22.60	23.10
12	25.30	19.75	12.35	19.30	16.70	17.55	20.80	19.65	18.40	19.70	22.50	22.90
13	25.30	18.70	11.40	19.50	15.65	16.40	21.15	19.95	18.55	17.20	22.60	22.65
14	25.45	---	10.90	19.75	17.85	13.25	21.15	19.95	19.35	17.90	22.20	22.65
15	25.60	---	13.45	19.85	16.75	14.75	21.25	19.95	19.65	18.55	21.95	23.00
16	25.80	---	14.10	20.00	17.85	15.90	21.35	20.40	19.90	19.00	22.10	23.10
17	25.85	---	15.05	20.05	17.75	16.75	21.30	20.15	20.30	19.05	22.20	23.90
18	25.55	---	17.80	19.50	17.00	17.35	21.45	19.25	20.30	17.75	22.35	24.25
19	24.10	---	17.60	18.10	16.40	17.35	21.50	19.65	19.25	18.85	22.35	23.40
20	24.30	---	17.90	17.65	15.65	15.55	21.48	20.20	19.20	19.20	22.40	23.20
21	24.35	---	18.40	16.65	16.50	15.80	19.35	19.50	19.15	19.50	22.45	23.65
22	23.30	---	18.65	16.75	16.70	16.70	17.20	---	18.75	19.90	22.50	23.55
23	---	17.50	18.95	16.55	16.95	17.35	18.05	18.75	18.65	21.20	22.50	23.30
24	---	17.80	18.15	17.70	17.25	17.95	18.60	18.85	18.80	21.70	22.55	23.35
25	23.25	18.45	18.30	17.45	16.60	18.75	18.80	18.85	18.95	21.72	22.55	22.40
26	23.30	16.70	18.40	17.65	16.95	19.20	18.40	19.65	20.50	22.25	22.65	22.20
27	23.00	16.75	17.25	18.40	18.15	19.20	18.70	20.15	20.90	22.45	23.35	21.40
28	23.30	10.95	17.00	18.15	17.50	17.60	18.95	19.45	20.95	22.60	22.35	21.05
29	22.85	10.65	17.80	18.15	---	17.55	19.15	20.00	20.75	22.60	22.15	21.25
30	24.10	12.20	18.55	18.45	---	16.25	19.35	18.25	20.65	22.80	20.85	21.50
31	24.10	---	18.75	17.55	---	18.30	---	19.95	---	22.90	20.75	---
MAX	---	---	18.95	20.05	18.80	19.20	21.50	---	20.95	22.90	23.45	24.25

WTR YR 1986 MEAN 19.74 HIGH 10.45 FEB 7 LOW 25.85 OCT 17

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	29.29	28.95	24.81	24.71	25.49	24.28	24.27	25.50	27.03	28.25	29.16	29.73
2	29.05	28.94	24.61	24.72	25.51	24.29	24.00	25.66	27.22	28.11	29.17	29.79
3	29.13	28.91	24.49	24.74	25.52	24.35	24.03	25.76	27.33	27.73	29.28	29.75
4	29.22	28.89	24.43	24.84	25.47	24.36	24.16	26.03	27.37	27.43	29.38	29.79
5	29.20	28.87	24.43	24.88	25.26	24.36	24.16	26.23	27.35	27.37	29.48	29.78
6	29.27	28.83	24.46	24.96	---	24.38	24.19	26.33	27.36	27.51	29.51	29.79
7	29.25	28.81	24.48	25.02	---	24.50	24.16	26.47	27.37	27.72	29.35	29.93
8	29.36	28.77	24.53	25.06	---	24.49	24.19	26.35	27.18	27.87	29.43	29.97
9	29.41	28.74	24.58	25.06	---	24.47	24.19	26.34	27.16	27.98	29.57	29.93
10	29.27	28.73	24.62	25.08	---	24.38	24.17	26.31	27.24	28.00	29.59	30.03
11	29.28	28.70	24.63	25.17	---	24.39	24.25	26.41	27.25	27.78	29.58	30.09
12	29.28	28.58	24.50	25.23	---	24.33	24.65	26.31	27.18	27.69	29.47	29.94
13	29.30	28.36	24.15	25.32	---	24.21	24.94	26.31	26.98	27.44	29.30	29.91
14	29.27	28.08	23.97	25.37	---	23.92	24.91	26.33	27.08	27.32	29.43	29.75
15	29.23	27.89	23.83	25.41	---	23.62	24.78	26.33	27.18	27.46	29.47	29.94
16	29.14	27.71	23.81	25.42	---	23.58	24.60	26.40	27.30	27.58	29.49	29.94
17	29.11	27.51	23.86	25.43	---	23.63	24.70	26.40	27.38	27.68	29.41	29.91
18	29.24	27.25	23.92	25.46	---	23.69	24.96	26.37	27.28	27.78	29.47	29.93
19	29.46	27.00	23.95	25.49	---	23.67	24.97	26.37	27.51	27.91	29.63	30.13
20	29.40	26.88	24.02	25.47	---	23.66	24.93	26.27	27.58	28.03	29.77	30.13
21	29.12	26.75	24.06	25.40	---	23.50	25.09	26.24	27.63	28.16	29.83	30.07
22	28.98	26.65	24.07	25.28	---	23.37	25.06	26.19	27.70	28.31	29.82	30.13
23	28.93	26.55	24.13	25.30	---	23.43	24.76	26.20	27.80	28.40	29.96	30.11
24	28.92	26.50	24.24	25.26	---	23.50	24.76	26.46	27.84	28.51	29.92	30.08
25	28.80	26.50	24.31	25.20	---	23.57	24.89	26.54	27.88	28.66	29.93	30.16
26	28.78	26.50	24.32	25.22	---	23.84	25.15	26.56	27.98	28.64	30.04	30.16
27	28.76	26.46	24.42	25.25	24.25	23.92	25.26	26.71	28.11	28.68	29.83	29.83
28	28.90	26.27	24.47	25.30	24.26	23.96	25.40	26.80	28.23	28.80	29.78	29.80
29	28.99	25.84	24.53	25.36	---	24.07	25.48	26.83	28.26	28.85	29.56	29.81
30	28.87	25.24	24.60	25.44	---	24.20	25.58	26.86	28.26	28.91	29.59	---
31	28.94	---	24.67	25.45	---	24.25	---	26.90	---	29.06	29.68	---
MAX	29.46	28.95	24.81	25.49	---	24.50	25.58	26.90	28.26	29.06	30.04	---

WTR YR 1986 MEAN 26.90 HIGH 23.37 MAR 22 LOW 30.16 SEP 25 AND OTHERS

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.36	35.57	32.88	31.18	32.16	31.00	29.55	30.89	32.24	33.63	34.70	35.80
2	35.41	35.65	32.58	31.39	32.29	30.97	29.53	30.96	32.29	33.63	34.76	35.80
3	35.49	35.62	32.61	31.35	32.26	30.98	29.70	31.00	32.26	33.58	34.85	35.81
4	35.53	35.70	32.39	31.50	32.24	30.98	29.78	31.05	32.43	33.53	34.92	35.82
5	35.59	35.82	32.26	31.53	32.25	30.74	29.84	31.15	32.46	33.48	35.00	35.83
6	35.72	35.81	32.30	31.66	32.03	30.80	29.90	31.28	32.49	33.48	35.05	35.87
7	35.74	35.67	32.13	31.73	32.13	30.89	29.91	31.36	32.50	33.53	35.11	35.92
8	35.76	35.69	32.15	31.75	31.92	30.78	29.85	31.38	32.53	33.58	35.16	35.94
9	35.82	35.67	32.12	31.44	31.84	30.78	29.87	31.44	32.55	33.61	35.22	35.97
10	35.83	35.81	32.06	31.67	31.83	30.89	29.90	31.40	32.57	33.66	35.26	36.00
11	35.86	35.81	31.97	31.69	31.79	30.90	29.92	31.47	32.59	33.64	35.29	36.07
12	35.87	35.80	31.83	31.79	31.68	30.90	30.02	31.51	32.60	33.60	35.26	36.06
13	35.91	35.58	31.66	31.85	31.56	30.85	30.09	31.56	32.55	33.56	35.24	36.05
14	35.94	35.50	31.64	31.93	31.56	30.81	30.18	31.60	32.61	33.53	35.28	36.03
15	35.79	35.19	31.57	31.96	31.56	30.67	30.08	31.60	32.67	33.51	35.26	36.05
16	35.63	35.01	31.57	31.94	31.53	30.68	29.86	31.61	32.76	33.53	35.29	36.05
17	35.56	35.01	31.40	32.07	31.47	30.65	30.00	31.64	32.80	33.59	35.33	36.06
18	35.72	34.92	31.42	32.04	31.46	30.58	30.18	31.68	32.81	33.64	35.35	36.09
19	35.87	34.68	31.44	32.03	31.44	30.48	30.24	31.71	32.88	33.70	35.40	36.09
20	35.85	34.36	31.09	32.14	31.44	30.48	30.28	31.73	32.95	33.77	35.45	36.09
21	35.88	34.39	31.21	32.18	31.33	30.44	30.38	31.74	32.99	33.66	35.51	36.09
22	35.75	34.37	31.25	32.24	31.30	30.25	30.35	31.76	33.04	33.94	35.54	36.10
23	35.77	34.29	31.22	32.09	31.24	30.20	30.25	31.78	33.07	34.01	35.61	36.13
24	35.81	34.19	31.16	31.87	31.23	30.19	30.36	31.81	33.16	34.08	35.66	36.13
25	35.86	34.05	30.96	31.92	31.22	29.93	30.44	31.87	33.23	34.17	35.70	36.13
26	35.78	34.06	31.08	32.06	31.15	29.74	30.53	31.89	33.28	34.23	35.78	36.16
27	35.79	34.06	31.30	32.08	31.11	29.60	30.62	31.93	33.34	34.29	35.78	36.17
28	35.81	33.83	31.36	32.14	30.99	29.49	30.74	31.97	33.43	34.37	35.79	36.17
29	35.72	33.64	31.41	32.26	---	29.38	30.79	32.00	33.49	34.45	35.78	36.15
30	35.50	33.23	31.48	32.18	---	29.30	30.85	32.06	33.58	34.53	35.77	36.12
31	35.45	---	31.31	32.25	---	29.47	---	32.14	---	34.62	35.80	---
MAX	35.94	35.82	32.88	32.26	32.28	31.00	30.85	32.14	33.58	34.62	35.80	36.17

WTR YR 1986 MEAN 33.01 HIGH 29.30 MAR 30 LOW 36.17 SEP 27 AND OTHERS

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 Veritcal 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.71	53.27	47.15	46.10	47.07	46.21	45.47	---	47.79	49.56	50.79	52.70
2	51.80	53.33	46.99	46.13	47.08	46.23	45.59	47.93	47.89	49.56	50.86	52.73
3	51.84	53.39	47.02	46.17	47.09	46.23	45.67	48.06	47.99	49.56	50.94	52.75
4	51.88	53.44	47.03	46.22	47.07	46.30	45.77	48.08	48.06	49.55	51.03	52.78
5	51.93	53.47	46.99	46.25	46.88	46.34	45.86	48.06	48.12	49.49	51.08	52.84
6	52.01	53.49	46.83	46.33	46.77	46.37	45.89	48.08	48.17	49.47	51.13	52.93
7	52.12	53.54	46.85	46.65	46.41	46.63	45.95	48.12	48.19	49.46	51.18	53.01
8	52.26	53.60	46.77	46.78	46.38	46.73	46.02	48.13	48.23	49.46	51.23	53.08
9	52.34	53.61	46.73	46.78	46.22	46.73	46.17	48.01	48.31	49.46	51.30	53.15
10	52.38	53.62	46.75	46.67	46.0[illegible]	46.66	46.26	[illegible].75	48.36	49.51	51.34	53.18
11	52.43	53.63	46.75	46.65	45.83	46.72	46.33	47.40	48.38	49.54	51.44	53.20
12	52.47	53.53	46.51	46.64	45.90	46.75	46.44	47.21	48.43	49.59	51.56	53.27
13	52.50	53.13	46.25	46.72	45.94	46.75	46.58	47.14	48.56	49.64	51.62	53.34
14	52.53	52.82	46.07	46.79	45.85	46.54	46.63	47.11	48.63	49.71	51.66	53.40
15	52.68	52.73	46.00	46.96	45.81	46.16	46.71	47.14	48.65	49.78	51.71	53.44
16	52.83	52.10	45.87	47.03	45.81	46.07	46.81	47.20	48.70	49.83	51.76	53.51
17	52.92	51.82	45.76	47.07	45.74	46.00	46.96	47.21	48.82	49.89	51.82	53.54
18	52.97	51.33	45.88	47.09	45.75	45.95	47.09	47.20	48.89	49.95	51.89	53.58
19	52.99	50.98	45.90	47.00	45.78	45.93	47.16	47.20	48.94	49.98	51.98	53.63
20	53.00	50.72	45.85	46.98	45.80	45.58	47.17	47.24	49.00	50.00	52.05	53.68
21	53.01	50.71	45.80	47.00	45.89	---	47.10	47.26	49.06	50.10	52.13	53.73
22	53.03	50.22	45.79	47.08	45.91	---	---	47.30	49.10	50.19	52.21	53.75
23	53.04	50.16	45.52	47.13	45.91	45.41	---	47.37	49.13	50.30	52.25	53.77
24	53.07	50.06	45.62	47.13	45.90	45.38	---	47.46	49.20	50.36	52.31	53.80
25	53.13	49.99	45.78	46.96	45.90	45.38	---	47.53	49.31	50.39	52.35	53.87
26	53.15	49.66	45.82	46.82	45.85	45.37	---	47.59	49.38	50.43	52.41	53.92
27	53.18	49.49	45.82	46.75	45.87	45.41	---	47.64	49.40	50.47	52.46	53.96
28	53.22	48.76	45.92	46.77	46.14	45.43	---	47.68	49.43	50.52	52.55	53.99
29	53.24	48.25	45.97	46.85	---	45.42	---	47.71	49.47	50.59	52.63	54.01
30	53.26	47.66	46.00	46.99	---	45.36	---	47.73	49.51	50.68	52.67	54.03
31	53.26	---	45.99	47.05	---	45.40	---	47.75	---	50.73	52.69	---
MAX	53.26	53.63	47.15	47.13	47.09	---	---	---	49.51	50.73	52.69	54.03

WTR YR 1986 MEAN 49.05 HIGH 45.36 MAR 30 LOW 54.03 SEP 30

7378

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 165 ft cased.
PERIOD OF RECORD.--December 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 NONCARB WH WAT TOT FIL MG/L AS CACO3	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)
OCT										
01...	1440	875	7.60	15.0	15.5	<10	410	86	110	34
APR										
02...	1430	890	7.50	16.5	14.5	25	410	110	110	33
AUG										
26...	1330	890	7.30	25.0	15.5	<10	420	100	110	35

DATE	ALKALINITY WH WAT TOTAL 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)
OCT										
01...	327	95	46	0.2	554	--	--	<1	10	10
APR										
02...	300	100	51	0.2	546	<0.01	1.70	--	--	--
AUG										
26...	314	98	52	0.2	526	<0.01	1.80	<1	30	<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)
OCT									
01...	16	4	6	3	5	2	50	8	1.2
APR									
02...	--	--	<3	--	--	<1	--	--	0.3
AUG									
26...	5	4	7	<5	<5	4	<10	<3	1.0

BEST COPY AVAILABLE

7378

392515084322000. Local number, BU-5.
LOCATION.--Lat 39°25'15", long 84°32'20", 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.51	18.79	13.19	19.73	16.29	19.88	18.05	15.08	15.60	16.05	22.03	22.97
2	22.60	18.42	13.38	15.57	16.19	14.94	18.40	15.04	15.62	15.86	22.78	22.02
3	23.21	18.24	13.46	17.54	16.12	18.96	14.50	14.99	15.60	15.51	17.36	18.18
4	23.36	18.15	13.58	15.48	15.98	19.16	14.37	14.94	15.68	15.39	22.63	22.05
5	23.36	18.15	13.82	15.58	15.33	19.21	14.45	14.93	19.63	20.22	23.44	22.17
6	18.77	18.08	13.98	15.56	14.92	15.45	14.40	19.43	15.88	15.64	23.54	17.81
7	23.24	22.62	14.08	15.66	14.36	15.00	18.47	15.06	15.57	15.65	21.74	17.39
8	23.75	18.36	14.21	20.46	14.08	19.79	18.72	16.76	15.32	20.16	21.67	21.25
9	23.85	18.11	14.38	20.77	13.99	14.99	18.87	19.14	15.22	16.45	21.78	17.38
10	23.93	18.00	14.38	16.10	14.03	19.28	14.91	14.79	15.25	20.94	17.77	21.02
11	18.92	17.77	14.40	16.01	14.22	15.04	18.88	14.80	15.25	16.28	17.49	21.20
12	18.51	17.23	13.89	16.01	19.07	14.67	15.00	18.94	19.83	19.61	22.62	17.28
13	18.34	16.83	17.59	16.02	14.50	14.33	14.93	15.07	15.58	16.00	17.61	21.35
14	18.22	20.97	13.33	16.08	14.52	13.44	18.83	15.12	15.57	15.62	22.24	17.76
15	22.28	16.57	13.21	16.07	14.58	13.23	19.15	15.17	15.58	15.63	23.34	17.72
16	24.12	16.18	13.34	20.16	14.62	13.32	19.72	15.30	15.64	15.63	22.54	17.77
17	24.35	15.71	13.52	16.36	14.71	13.37	19.32	15.25	19.74	20.54	17.84	17.75
18	18.90	15.51	13.70	16.26	14.62	13.39	15.41	15.18	15.96	15.65	22.41	17.75
19	18.48	19.91	18.15	16.18	14.51	13.36	15.23	15.25	15.89	21.03	23.20	17.77
20	18.32	20.15	18.37	15.97	18.87	13.13	15.15	15.25	15.88	16.15	17.97	17.76
21	22.18	15.70	14.33	15.78	14.55	17.88	15.09	15.33	15.87	21.23	22.19	17.74
22	18.37	15.55	14.33	19.20	14.51	13.19	18.69	19.30	15.78	21.83	22.36	17.67
23	18.13	15.52	14.36	20.24	14.38	13.29	18.70	15.53	15.80	22.14	22.79	17.68
24	18.02	15.56	18.94	20.34	14.45	13.37	18.89	15.44	15.86	22.17	18.12	17.68
25	18.01	15.54	19.24	16.00	14.48	13.40	14.90	15.49	15.88	22.27	22.69	17.69
26	17.94	15.57	15.01	15.89	18.95	13.49	14.78	15.79	20.75	22.41	18.07	23.30
27	17.93	20.56	14.85	15.90	19.08	17.65	14.77	15.46	16.12	16.97	17.87	17.91
28	23.50	14.67	15.00	16.02	19.15	13.79	18.89	15.48	20.18	22.37	21.92	17.47
29	22.93	13.60	15.14	15.89	---	13.84	15.03	19.97	16.26	22.59	18.02	17.34
30	23.91	13.26	15.19	15.97	---	13.91	19.38	15.66	16.10	22.56	18.86	21.94
31	23.93	---	19.61	20.57	---	13.93	---	15.58	---	22.28	17.79	---
MAX	24.35	22.62	19.61	20.77	19.15	19.88	19.72	19.97	20.75	22.59	23.54	23.30

WTR YR 1986 MEAN 17.44 HIGH 13.13 MAR 20 LOW 24.35 OCT 17

000227

7378

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.27	---	13.20	13.02	13.60	11.89	11.11	11.94	13.09	14.29	15.30	16.54
2	15.40	---	13.98	13.06	13.61	11.90	11.12	11.99	13.99	14.30	15.35	16.55
3	15.36	---	13.29	13.11	14.31	12.39	11.13	12.03	13.51	14.80	15.38	16.56
4	15.35	---	13.29	13.12	13.76	12.95	11.14	12.04	13.52	14.63	15.42	16.58
5	15.35	---	13.30	13.13	12.58	12.19	11.15	12.29	13.52	14.63	15.43	16.59
6	15.36	---	13.33	13.98	12.54	12.16	11.16	12.29	13.54	14.64	15.49	16.60
7	16.13	---	13.35	---	12.54	12.16	11.64	12.30	13.56	14.93	15.76	16.61
8	15.54	16.35	13.39	---	12.16	12.17	11.46	12.30	13.63	14.78	15.76	16.81
9	15.54	16.37	13.43	---	12.14	12.18	11.46	12.30	13.67	14.78	15.76	16.81
10	15.54	16.38	13.45	---	12.14	12.83	11.47	12.31	13.69	14.78	15.76	16.81
11	15.55	16.39	13.45	---	12.15	12.32	11.47	12.33	13.71	14.79	15.77	16.81
12	15.56	15.55	13.39	---	12.16	12.29	11.48	12.34	14.03	14.79	15.79	16.81
13	15.58	15.34	13.15	---	12.18	11.80	11.49	12.38	13.85	14.79	15.79	16.80
14	15.61	15.18	12.84	---	12.37	11.31	11.50	12.43	13.86	14.79	15.80	16.81
15	15.68	15.18	12.83	---	12.37	11.27	11.50	12.45	13.86	14.80	15.81	16.82
16	15.73	15.19	12.83	---	12.37	11.28	11.53	12.50	13.88	14.81	15.83	16.84
17	15.75	14.45	12.83	---	12.38	11.30	11.55	12.51	13.92	14.82	15.85	16.84
18	15.78	14.31	12.83	---	12.37	11.30	11.59	12.53	13.93	14.84	15.88	16.85
19	15.81	14.31	12.85	---	12.17	11.22	11.62	12.57	13.94	14.86	15.92	16.86
20	15.81	14.31	12.85	---	12.11	10.85	11.63	12.59	13.95	14.88	16.77	16.89
21	15.80	14.32	12.85	---	12.09	10.86	11.63	12.65	13.96	14.89	16.29	16.93
22	15.80	14.33	12.85	---	12.08	10.86	11.63	12.68	13.98	14.91	16.29	16.94
23	16.06	14.40	12.86	---	11.98	10.87	11.64	---	13.99	15.01	16.29	16.97
24	16.60	14.45	12.86	---	11.94	10.88	11.64	---	14.00	15.03	16.31	16.99
25	16.05	14.49	12.86	---	11.93	10.88	11.64	---	14.02	15.07	16.31	17.00
26	16.05	14.50	12.87	---	11.93	11.09	11.74	---	14.10	15.08	16.33	17.03
27	16.05	14.50	12.88	---	11.90	11.09	11.77	---	14.11	15.11	16.35	17.05
28	16.06	14.15	12.88	---	11.88	11.10	11.81	---	14.13	15.14	16.73	17.05
29	16.07	13.45	12.89	---	---	11.10	11.85	13.00	14.22	15.18	16.51	17.04
30	16.11	13.22	12.91	13.58	---	11.10	11.88	13.03	14.23	15.25	16.52	17.07
31	16.14	---	12.96	13.59	---	11.10	---	13.04	---	15.29	16.52	---
MAX	16.60	---	13.98	---	14.31	12.95	11.88	---	14.23	15.29	16.77	17.07

WTR YR 1986 MEAN 13.92 HIGH 10.85 MAR 20 LOW 17.07 SEP 30

GROUND-WATER RECORDS

BUTLER COUNTY

392939084231700. 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.
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, 1960.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.19	53.36	---	50.59		---	48.48	47.98	49.02	49.53	49.73	50.96
2	52.15	53.00	---	50.53		---	49.55	49.52	49.15	50.29	49.73	51.01
3	52.08	52.98	52.00	50.41		---	49.98	49.68	49.15	50.87	49.80	51.38
4	52.02	52.89	51.89	50.40		---	50.24	49.73	50.24	50.97	49.83	51.25
5	52.00	52.76	51.76	50.34		---	50.35	49.78	50.29	51.14	49.80	51.10
6	52.00	52.74	51.77	50.26		---	50.35	49.44	50.28	51.19	49.76	51.07
7	52.06	52.78	51.76	50.30		---	50.41	49.50	50.23	51.08	50.24	51.10
8	52.60	52.80	51.59	50.37		---	50.41	48.81	50.36	51.61	49.97	51.11
9	52.16	53.45	51.63	50.23		---	50.30	48.88	50.47	51.74	49.86	51.11
10	52.09	53.99	51.61	50.14		---	45.06	48.87	50.47	50.64	49.85	51.08
11	52.57	54.24	51.54	50.14		---	48.77	48.82	50.43	50.33	49.92	51.09
12	52.58	54.24	51.47	49.97		---	48.71	48.89	49.45	50.32	49.96	51.31
13	52.06	---	51.52	50.09		---	48.61	48.77	49.00	50.35	50.66	51.35
14	52.10	---	51.61	50.12		50.55	48.54	48.54	48.88	50.65	50.83	51.38
15	52.20	---	51.54	50.13		50.93	48.46	48.94	48.68	49.87	50.81	51.35
16	52.40	52.81	51.88	50.04		51.16	48.50	48.64	48.71	50.75	50.77	51.50
17	52.44	52.72	51.88	49.96		51.27	---	48.60	48.76	50.78	50.84	51.54
18	52.42	52.66	51.61	49.89		50.85	---	48.49	50.10	51.63	50.97	51.80
19	52.38	52.51	51.53	49.74		50.45	---	48.56	51.38	50.63	51.00	51.99
20	52.39	---	51.35	49.89		49.85	48.49	48.52	51.68	50.52	51.04	52.02
21	52.39	---	51.24	49.81		49.76	---	49.53	50.85	50.68	51.24	52.12
22	52.40	52.35	51.18	50.16		49.59	---	49.74	50.83	51.16	52.04	52.04
23	52.39	52.31	50.95	50.49		49.53	---	50.11	50.89	50.76	52.00	52.02
24	52.46	---	50.88	---		49.73	---	49.99	50.94	49.81	51.81	52.04
25	52.50	---	50.86	---		49.44	---	49.53	51.00	49.84	51.83	51.82
26	52.44	---	50.80	---		49.21	---	50.05	50.00	49.55	51.66	51.87
27	52.30	---	50.78	---		48.99	---	50.14	49.70	49.73	51.58	51.83
28	52.62	---	50.71	---		48.84	48.00	50.25	49.58	49.72	51.24	51.92
29	52.99	---	50.69	---		48.62	48.04	50.53	49.54	49.74	51.26	51.92
30	53.16	---	50.69	---		48.51	48.01	49.44	49.54	49.75	50.92	51.97
31	53.31	---	50.56	---		48.50	---	48.99	---	49.85	50.92	---
MAX	53.31	---	---	---		---	---	50.53	51.68	51.74	52.04	52.12

WTR YR 1986 MEAN 50.72 HIGH 47.98 MAY 1 LOW 54.24 NOV 11 AND OTHERS

7378

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.40		---	31.15	32.85	32.35	30.50	33.40	33.35	33.25	33.90	36.75
2	36.30		---	30.95	33.10	32.25	30.05	33.05	33.45	33.70	34.00	37.00
3	36.65		34.30	30.70	33.25	32.05	30.05	33.00	34.10	34.25	34.10	36.90
4	36.45		34.15	31.00	34.05	32.10	30.95	33.20	34.25	34.05	36.35	35.70
5	36.10		32.80	31.05	35.35	32.95	31.35	34.90	34.05	33.95	36.90	35.65
6	36.35		32.40	31.70	34.95	32.55	30.55	35.20	34.25	34.35	36.50	35.50
7	36.00		32.25	31.90	33.45	32.10	30.80	32.85	34.30	34.35	36.20	35.55
8	36.10		32.30	31.90	33.20	31.45	31.10	33.25	33.85	35.30	36.60	35.30
9	35.85		32.40	32.25	32.60	31.55	31.30	33.35	34.00	34.55	36.60	35.50
10	36.30		32.45	32.30	32.45	32.00	31.60	33.25	34.40	34.65	36.65	37.15
11	36.70		32.25	32.05	32.35	32.05	31.25	33.45	34.30	34.75	36.45	36.30
12	36.35		31.85	31.70	32.15	31.90	30.65	33.45	34.00	34.50	36.70	35.35
13	36.35		32.20	32.05	32.05	31.35	30.90	33.40	34.75	34.35	37.40	35.20
14	36.00		31.85	32.25	31.50	31.20	31.45	33.30	34.10	35.90	37.10	34.90
15	36.20		31.15	32.50	31.65	31.25	31.45	33.20	34.25	35.70	37.20	37.45
16	35.95		31.35	33.15	31.55	31.45	32.50	33.35	34.15	35.10	37.10	35.45
17	36.45		32.20	33.05	32.00	31.25	33.45	32.50	34.75	34.30	36.30	35.50
18	36.00		32.10	32.00	32.05	31.00	34.00	31.85	33.95	35.15	36.05	35.95
19	35.85		31.10	32.25	31.95	31.15	33.20	32.75	34.10	35.55	36.90	35.50
20	35.75		31.40	33.45	32.95	31.25	33.25	33.05	34.50	35.40	37.05	36.15
21	37.75		31.10	33.15	32.15	31.30	32.65	32.95	34.05	34.85	37.25	36.00
22	38.05		31.20	32.80	31.95	30.95	31.95	33.40	34.00	35.60	37.60	35.80
23	36.75		30.95	32.90	32.05	30.70	32.15	33.55	35.30	35.35	37.00	35.75
24	36.60		30.65	33.05	32.25	31.85	31.75	33.25	35.50	35.05	36.15	36.80
25	36.35		28.45	32.50	32.00	31.65	32.25	33.20	34.35	35.80	37.10	37.10
26	36.55		30.05	32.55	31.95	30.90	32.80	33.15	34.35	35.85	37.55	35.55
27	36.40		30.40	33.45	32.05	30.95	32.50	33.50	35.55	35.80	37.70	35.30
28	36.20		30.25	33.00	32.45	30.80	32.95	33.50	34.40	35.50	36.65	34.90
29	36.35		30.75	33.40	---	30.80	32.95	33.60	34.05	35.55	37.30	35.20
30	36.25		30.60	33.10	---	30.35	33.35	33.90	34.15	35.80	36.70	35.25
31	---		31.00	33.00	---	30.20	---	32.95	---	34.00	37.05	---
MAX	---		---	33.45	35.35	32.95	34.00	35.20	35.55	35.90	37.70	37.45

WTR YR 1986 MEAN 33.76 HIGH 28.45 DEC 25 LOW 38.05 OCT 22

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.63	37.65	29.59	23.94	28.33	26.72	22.90			28.59		
2	32.89	37.82	29.12	23.95	28.46	26.31	22.92			28.54		
3	33.07	38.04	28.93	23.78	28.43	26.12	22.89			28.52		
4	33.31	38.11	28.41	23.69	28.40	26.06	22.91			28.30		
5	33.69	38.17	27.95	23.79	28.54	25.89	23.00			28.06		
6	33.98	38.18	27.66	23.78	28.62	25.78	23.24			27.91		
7	34.30	38.24	27.44	23.74	28.42	25.89	23.30			27.75		
8	34.50	38.25	27.08	23.77	28.42	25.88	23.58			27.61		
9	34.62	38.24	26.99	23.62	28.23	25.66	23.77			27.50		
10	34.80	38.23	26.76	23.88	28.12	25.67	23.90			27.46		
11	35.03	38.20	26.47	23.81	27.99	25.73	24.13			27.21		
12	35.20	38.15	26.14	23.69	27.98	25.48	24.30			27.07		
13	35.52	38.04	25.75	23.89	27.95	25.20	24.59			26.91		
14	35.70	37.84	25.64	24.76	27.76	25.06	24.60			26.81		
15	35.82	37.59	25.42	24.78	27.90	25.02	24.86			26.46		
16	35.92	37.12	25.26	24.71	27.87	24.80	24.90			---		
17	36.00	36.78	25.07	24.67	27.85	24.70	25.09			---		
18	36.08	36.19	24.83	24.67	27.88	24.39	25.20			---		
19	36.16	35.36	24.65	24.92	27.94	24.13	25.27			---		
20	36.34	34.52	24.23	25.57	28.03	24.19	25.30			---		
21	36.48	33.99	24.17	25.88	28.07	24.04	25.62			---		
22	36.54	33.24	24.02	26.63	27.97	23.85	25.81			---		
23	36.59	32.99	23.97	26.96	27.83	23.61	25.91			---		
24	36.65	32.42	23.85	27.19	27.72	23.80	25.97			---		
25	36.81	32.07	23.93	27.40	27.73	23.53	26.03			---		
26	37.04	31.55	23.97	27.68	27.54	23.45	26.12			---		
27	37.25	31.34	23.83	27.82	27.22	23.34	26.27			---		
28	37.33	30.73	23.79	27.62	27.22	23.29	26.41			---		
29	37.44	30.66	23.90	27.79	---	23.20	26.57			---		
30	37.53	30.01	23.94	27.84	---	23.13	26.62			---		
31	37.58	---	23.83	28.29	---	23.13	---			---		
MAX	37.58	38.25	29.59	28.29	28.62	26.72	26.62			---		

WTR YR 1986 MEAN 28.47 HIGH 22.89 APR 3 LOW 38.25 NOV 6

7378

400638083453900. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	19.74	18.13	17.57	18.07	17.26	15.90	15.92	16.54	16.55	16.23	17.04
2	---	19.75	18.13	17.62	18.04	17.17	15.95	15.96	16.57	16.01	16.29	17.14
3	---	19.67	18.13	17.68	18.03	17.19	15.94	15.98	16.60	15.96	16.29	17.18
4	---	19.62	18.15	17.73	18.02	17.22	15.94	16.02	16.61	15.95	16.31	17.24
5	---	19.65	18.15	17.76	17.89	17.21	15.86	16.03	16.65	15.81	16.35	17.26
6	---	19.70	18.17	17.78	17.80	17.22	15.82	16.05	16.62	15.80	16.38	17.31
7	---	19.72	18.22	17.80	17.71	17.19	15.81	16.07	16.34	15.91	16.42	17.24
8	19.23	19.65	18.14	17.83	17.61	17.19	15.79	16.15	16.27	15.93	16.46	17.33
9	19.27	19.61	18.17	17.85	17.46	17.11	15.76	16.15	16.33	15.99	16.50	17.38
10	19.28	19.60	18.19	17.86	17.38	17.10	15.77	16.17	16.32	16.02	16.42	17.42
11	19.33	19.43	18.18	17.87	17.39	17.09	15.78	16.09	16.31	16.04	16.52	17.45
12	19.36	19.37	18.04	17.86	17.39	17.09	15.81	16.17	16.36	15.79	16.60	17.34
13	19.28	19.22	18.00	17.90	17.38	16.97	15.76	16.21	16.37	15.80	16.66	17.39
14	19.37	19.04	17.94	17.94	17.38	16.76	15.84	16.26	16.39	15.82	16.70	17.34
15	19.40	19.02	17.90	17.97	17.39	16.62	15.80	16.30	16.42	15.87	16.74	17.39
16	19.44	18.94	17.87	17.99	17.39	16.51	15.83	16.20	16.45	15.88	16.77	17.44
17	19.46	18.85	17.84	18.02	17.35	16.45	15.85	16.24	16.48	15.90	16.69	17.46
18	19.48	18.80	17.83	18.03	17.31	16.42	15.87	16.24	16.52	15.92	16.77	17.49
19	19.49	18.75	17.84	18.00	17.35	16.34	15.93	16.26	16.55	15.94	16.83	17.50
20	19.50	18.73	17.83	17.92	17.34	16.24	15.89	16.28	16.53	15.81	16.88	17.51
21	19.44	18.73	17.83	17.92	17.34	16.19	15.80	16.31	16.55	15.88	16.95	17.50
22	19.50	18.72	17.71	17.94	17.33	16.15	15.80	16.35	16.53	15.93	16.97	17.53
23	19.52	18.74	17.64	17.96	17.31	16.08	15.82	16.38	16.55	15.98	16.96	17.55
24	19.53	18.74	17.60	17.98	17.29	16.03	15.84	16.42	16.59	16.01	16.89	17.53
25	19.56	18.75	17.58	17.98	17.28	16.03	15.84	16.41	16.64	16.07	17.01	17.56
26	19.56	18.75	17.55	17.97	17.28	16.02	15.86	16.40	16.68	16.04	17.06	17.59
27	19.47	18.56	17.57	17.99	17.26	16.00	15.88	16.38	16.69	15.99	16.97	17.56
28	19.55	18.46	17.58	18.04	17.27	15.99	15.87	16.42	16.68	16.07	17.03	17.61
29	19.62	18.32	17.57	18.08	---	15.91	15.88	16.47	16.70	16.10	17.10	17.63
30	19.69	18.22	17.57	18.08	---	15.86	15.89	16.48	16.69	16.16	17.10	17.64
31	19.72	---	17.57	18.08	---	15.89	---	16.50	---	16.20	17.05	---
MAX	---	19.76	18.22	18.08	18.07	17.26	15.95	16.50	16.70	16.55	17.10	17.64

WTR YR 1986 MEAN 17.22 HIGH 15.76 APR 9 AND OTHERS LOW 19.76 NOV 2

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 Departmnent 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.96	26.62	26.26	26.92	27.73	26.31	25.44	25.18	26.47	25.28	25.76	27.18
2	26.94	26.69	26.60	27.16	27.22	26.05	24.91	25.52	26.55	25.21	26.02	27.30
3	26.91	26.76	26.73	27.21	27.74	26.74	24.61	25.37	26.40	25.01	25.84	27.35
4	26.95	26.75	26.67	27.19	27.43	26.43	24.78	25.35	26.50	25.01	26.19	27.72
5	27.03	26.74	26.43	26.98	27.05	26.13	25.06	25.38	26.47	25.34	26.06	27.58
6	26.99	26.77	27.07	27.53	27.18	26.36	25.42	25.07	26.42	24.92	25.81	27.16
7	26.95	26.85	27.00	27.47	27.42	26.65	25.26	25.30	26.26	25.62	25.94	27.10
8	26.93	26.59	26.92	27.32	26.83	26.64	25.36	25.70	26.02	25.34	26.13	27.24
9	27.06	26.68	27.06	27.20	26.93	26.45	25.50	25.63	26.23	25.05	26.62	27.41
10	27.24	26.81	26.72	26.83	26.70	26.61	25.15	25.30	26.24	25.54	26.14	27.65
11	27.42	26.69	27.13	27.02	26.85	26.71	25.46	25.57	25.77	25.45	26.32	27.28
12	27.10	26.48	26.42	27.27	26.72	26.23	25.62	25.34	25.74	24.93	26.15	26.97
13	27.12	26.15	26.49	27.71	26.80	25.76	25.64	25.52	25.72	24.89	26.46	27.28
14	26.84	26.09	26.49	27.23	26.49	25.26	25.93	25.29	26.10	25.40	26.28	27.32
15	27.05	27.08	26.47	27.43	26.86	25.34	25.87	26.14	25.92	25.22	26.78	27.14
16	27.02	27.33	26.39	27.42	26.33	25.29	25.67	25.95	26.17	25.06	26.73	26.87
17	27.25	27.76	26.48	27.13	26.45	25.23	25.47	25.77	26.02	24.97	26.26	27.41
18	27.46	27.47	26.53	27.33	26.46	24.92	25.66	25.86	26.31	25.12	26.50	27.25
19	26.87	27.56	26.85	27.33	26.29	24.65	25.45	25.93	26.15	24.88	26.47	27.27
20	27.16	27.57	26.70	27.50	26.39	24.79	25.21	25.90	25.95	25.19	26.53	27.28
21	26.79	27.42	26.93	27.29	26.39	24.43	25.12	26.03	25.64	25.18	26.85	27.52
22	26.77	27.00	26.60	27.61	26.59	24.35	24.82	25.95	25.55	25.67	26.98	27.06
23	26.79	27.32	26.59	27.60	26.46	24.36	25.19	26.04	26.22	25.43	27.07	27.29
24	26.93	27.29	26.61	27.91	26.35	24.24	25.66	26.24	25.92	25.56	26.81	27.09
25	26.91	27.62	26.31	27.71	26.11	23.14	25.32	26.25	25.98	25.49	26.91	27.52
26	26.94	27.47	26.76	27.19	26.68	23.68	25.35	26.12	26.25	25.69	26.72	26.92
27	26.97	27.40	26.81	27.47	26.40	24.32	24.91	26.03	26.04	25.48	27.05	27.76
28	26.95	27.58	26.87	27.34	26.27	24.67	25.69	26.21	26.02	25.71	27.07	27.65
29	26.67	26.59	26.69	27.63	---	24.51	25.28	26.02	25.82	25.67	27.03	27.63
30	26.57	26.46	27.15	27.43	---	24.58	25.05	26.29	25.78	25.74	27.13	27.45
31	26.57	---	27.41	27.20	---	25.21	---	26.55	---	25.90	27.18	---
MAX	27.46	27.76	27.41	27.91	27.74	26.74	25.93	26.55	26.55	25.90	27.18	27.76

WTR YR 1986 MEAN 26.37 HIGH 23.14 MAR 25 LOW 27.91 JAN 24

7378

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.28	16.57	13.32	13.26	14.25	12.83	11.96	12.99	14.20	14.53	14.55	15.45
2	16.28	16.59	13.19	13.30	14.26	12.83	12.03	13.04	14.26	14.45	14.61	15.46
3	16.29	16.59	13.16	13.41	14.23	12.92	12.10	13.08	14.30	14.14	14.68	15.47
4	16.28	16.58	13.14	13.46	14.17	12.97	12.16	13.09	14.36	13.92	14.74	15.51
5	16.28	16.53	13.16	13.52	13.96	13.00	12.24	13.12	14.43	13.80	14.81	15.51
6	16.29	16.54	13.21	13.59	13.48	13.03	12.27	13.18	14.43	13.73	14.83	15.51
7	16.31	16.57	13.22	13.69	13.14	13.10	12.26	13.23	14.25	13.66	14.86	15.56
8	16.32	16.59	13.24	13.76	12.91	13.12	12.29	13.28	14.12	13.67	14.92	15.58
9	16.32	16.59	13.31	13.82	12.65	13.13	12.36	13.32	14.08	13.73	14.96	15.60
10	16.34	16.61	13.33	13.92	12.50	13.13	12.39	13.36	14.02	13.74	15.01	15.64
11	16.36	16.46	13.32	13.96	12.42	13.13	12.44	13.40	14.01	13.74	15.05	15.66
12	16.37	16.35	13.07	13.98	12.45	13.07	12.51	13.45	13.99	13.73	15.08	15.66
13	16.38	16.25	12.67	14.03	12.50	12.99	12.56	13.52	14.02	13.67	15.08	---
14	16.38	16.10	12.50	14.13	12.56	12.49	12.58	13.61	14.02	13.67	15.10	---
15	16.38	15.90	12.40	14.19	12.62	11.99	12.62	13.66	14.01	13.66	15.14	---
16	16.39	15.73	12.39	14.24	12.64	11.81	12.69	13.67	14.02	13.66	15.19	---
17	16.47	15.56	12.44	14.30	12.64	11.73	12.76	13.69	14.09	13.70	15.24	---
18	16.50	15.34	12.48	14.31	12.63	11.68	12.80	13.72	14.15	13.75	15.26	---
19	16.52	15.13	12.54	14.31	12.67	11.59	12.83	13.74	14.20	13.75	15.28	---
20	16.52	15.01	12.63	14.26	12.67	11.57	12.83	13.77	14.25	13.82	15.32	---
21	16.51	14.96	12.65	14.18	12.69	11.53	12.79	13.82	14.27	13.88	15.36	---
22	16.49	14.91	12.70	14.17	12.69	11.50	12.78	13.85	14.27	13.92	15.36	---
23	16.49	14.92	12.74	14.17	12.66	11.50	12.77	13.91	14.29	13.97	15.40	---
24	16.51	14.93	12.82	14.15	12.64	11.55	12.78	13.96	14.34	14.03	15.43	---
25	16.53	14.93	12.84	14.12	12.65	11.59	12.76	13.99	14.41	14.10	15.44	---
26	16.53	14.91	12.91	14.11	12.65	11.65	12.80	14.01	14.48	14.16	15.44	---
27	16.54	14.81	13.01	14.06	12.75	11.73	12.82	14.02	14.54	14.19	15.44	---
28	16.54	14.42	13.04	14.08	12.79	11.77	12.85	14.04	14.56	14.23	15.42	---
29	16.54	13.96	13.10	14.16	---	11.80	12.89	14.08	14.57	14.31	15.41	---
30	16.54	13.54	13.15	14.20	---	11.85	12.93	14.10	14.57	14.38	15.40	---
31	16.56	---	13.23	14.24	---	11.89	---	14.14	---	14.46	15.42	---
MAX	16.56	16.61	13.33	14.31	14.26	13.13	12.93	14.14	14.57	14.53	15.44	---

WTR YR 1986 MEAN 14.04 HIGH 11.50 MAR 22 AND OTHERS LOW 16.61 NOV 10

000234

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.17	33.49	24.22	28.19	29.48	27.26	29.13	31.44	31.95	30.36	31.62	
2	33.14	33.50	24.43	28.61	29.49	27.49	29.43	31.47	32.08	30.20	31.59	
3	33.15	33.52	---	28.99	29.49	27.91	29.65	31.39	32.17	29.97	31.56	
4	33.13	33.08	---	29.24	29.37	28.25	29.85	31.57	32.26	29.50	31.71	
5	---	32.39	---	29.40	29.08	28.53	30.02	31.73	32.33	29.16	31.85	
6	---	32.00	25.45	29.65	28.53	28.76	30.06	31.76	32.35	29.04	31.96	
7	33.30	31.53	25.52	29.85	27.86	28.94	30.13	31.83	32.05	29.18	32.02	
8	33.41	30.88	25.66	30.03	27.20	29.06	30.13	31.90	31.65	29.44	32.11	
9	33.49	30.72	25.88	30.19	26.46	29.13	30.20	31.91	31.69	29.67	32.11	
10	33.55	30.23	25.92	30.28	25.96	29.30	30.32	31.88	31.77	29.69	31.86	
11	33.57	29.68	25.76	30.26	25.57	29.36	30.46	31.91	31.79	29.53	31.84	
12	33.52	29.08	25.47	30.36	25.30	29.31	30.56	32.01	31.80	29.40	31.96	
13	33.36	28.54	25.65	30.53	25.20	29.07	30.70	32.09	31.73	29.06	32.01	
14	33.44	27.77	24.43	30.68	25.13	28.82	30.84	32.20	31.35	28.67	32.07	
15	33.51	26.88	---	30.81	25.17	28.49	30.99	32.27	31.29	28.45	32.13	
16	33.54	26.47	---	30.93	25.46	28.06	31.07	32.34	31.45	28.45	32.12	
17	33.67	26.36	---	31.01	25.84	27.51	31.12	32.31	31.49	28.65	32.32	
18	33.69	26.13	---	31.03	26.26	27.01	31.13	32.24	31.51	28.73	32.44	
19	33.52	25.80	---	30.82	26.47	26.62	31.06	32.32	31.57	28.67	32.34	
20	33.38	25.52	---	30.66	26.45	26.48	31.16	32.33	31.60	28.90	32.33	
21	34.22	25.37	---	30.13	26.53	26.46	31.22	32.28	31.51	29.14	32.41	
22	35.12	25.37	---	29.62	26.46	26.54	31.22	32.28	31.29	29.40	32.51	
23	33.83	25.51	---	29.22	26.24	26.76	31.12	32.21	31.36	29.64	32.49	
24	33.71	25.65	---	28.91	26.13	27.14	31.04	31.83	31.41	29.84	32.39	
25	33.67	25.66	---	28.70	26.31	27.50	31.05	31.68	31.46	30.07	32.46	
26	33.47	25.47	---	28.59	26.50	27.85	30.93	31.92	31.51	30.41	32.55	
27	---	24.89	---	28.74	26.79	28.12	30.96	32.12	31.53	30.68	32.58	
28	---	24.42	---	28.85	27.12	28.02	31.13	32.25	31.35	30.91	32.62	
29	---	24.02	---	29.04	---	28.06	31.25	32.32	30.97	31.16	32.62	
30	---	23.73	---	29.22	---	28.33	31.34	32.35	30.60	31.34	32.60	
31	---	---	27.99	29.39	---	28.79	---	32.18	---	31.50	32.44	-
MAX	---	33.52	---	31.03	29.49	29.36	31.34	32.35	32.35	31.50	32.62	

WTR YR 1986 MEAN 30.28 HIGH 23.73 NOV 30 LOW 35.12 OCT 22

7378

400514084345700. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.16	19.24		---	18.72	18.23	17.71	17.81	17.65			---
2	19.19	19.47		---	18.73	18.13	17.85	17.92	17.87			---
3	19.08	19.47		---	18.61	18.19	17.76	17.95	17.86			---
4	19.04	19.46		---	18.38	18.23	17.81	17.79	17.70			---
5	19.20	19.48		---	18.61	18.17	17.80	17.60	17.65			---
6	19.23	19.48		---	18.57	18.07	17.76	17.70	17.66			---
7	19.25	19.57		---	18.60	18.37	17.80	17.74	17.62			---
8	19.28	19.59		19.07	18.54	18.39	17.73	17.80	17.80			---
9	19.29	19.53		18.83	18.48	18.05	17.83	17.81	17.87			---
10	19.17	---		18.84	18.41	17.86	17.78	17.78	17.75			18.30
11	19.23	---		18.81	18.41	18.23	17.77	17.69	17.61			18.30
12	19.19	---		18.81	18.49	18.18	17.87	17.71	17.78			18.60
13	19.23	---		18.97	18.49	17.87	17.95	17.69	17.88			18.62
14	19.22	---		19.07	18.45	17.87	17.93	17.76	17.86			18.60
15	19.34	---		19.06	18.46	17.91	17.87	17.84	17.72			18.49
16	19.44	---		18.93	18.21	18.02	17.91	17.76	17.73			18.68
17	19.41	---		18.82	18.20	18.02	18.01	17.71	17.96			18.57
18	19.29	---		18.75	18.21	17.94	18.08	17.62	17.85			18.52
19	19.25	---		18.77	18.33	17.74	17.95	17.71	17.75			18.57
20	19.26	---		18.87	18.33	18.14	17.84	17.70	17.84			18.58
21	19.26	---		18.92	18.45	18.12	17.95	17.67	---			18.62
22	19.29	---		19.08	18.32	18.05	18.02	17.74	---			18.50
23	19.27	---		18.95	18.26	17.87	18.04	17.67	---			18.43
24	19.37	---		18.73	18.26	18.02	17.90	17.73	---			18.51
25	19.48	---		18.55	18.26	18.00	17.69	17.69	---			18.63
26	19.37	---		18.62	17.99	17.68	17.74	17.66	---			18.66
27	19.40	---		18.69	18.31	17.87	17.78	17.69	---			18.59
28	19.44	---		18.67	18.31	17.83	17.74	17.73	---			18.67
29	19.37	---		19.00	---	17.66	17.86	17.68	---			18.60
30	19.30	---		18.99	---	17.68	17.81	17.63	---			18.62
31	19.29	---		18.79	---	17.83	---	17.63	---			---
MAX	19.48	---		---	18.73	18.39	18.08	17.95	---			---

WTR YR 1986 MEAN 18.35 HIGH 17.60 MAY 5 LOW 19.59 NOV 8

000236

BEST COPY AVAILABLE

402126083040400. Local number, Dl-3.
LOCATION.--Lat 40°21'26", long 83°04'04", Hydrologic Unit 05060001, east bank of Olentangy River at toe of Delaware dam.
Owner: U.S. Army Corps of Engineers.
AQUIFER.--Limestone of Devonian Age.
WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 135 ft, cased.
INSTRUMENTATION.--Type F continuous recorder.
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 2.60 ft above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--October 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.04 ft below land-surface datum, Nov. 1, 1948, Dec. 2, 3, 1948; minimum daily low, 20.43 ft below land-surface datum, Jan. 27, 1959.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.56	32.00	30.23	32.05	31.58	31.53	31.71	32.14	32.18	31.70	32.31	---
2	31.57	31.97	29.26	32.05	31.59	31.54	31.78	32.26	32.24	31.84	32.35	32.72
3	31.55	31.96	28.51	32.09	31.53	31.55	31.81	32.30	32.27	31.42	32.43	32.73
4	31.52	31.92	28.53	32.09	31.29	31.57	31.86	32.28	32.31	31.67	32.45	32.71
5	31.51	31.64	29.71	32.09	30.37	31.55	31.87	32.24	32.34	31.75	32.44	32.73
6	31.53	31.60	30.55	32.12	29.50	31.43	31.88	32.26	32.34	31.80	32.43	32.74
7	31.54	31.52	30.86	32.21	29.04	31.39	31.90	32.25	32.11	31.93	32.43	32.76
8	31.56	31.63	31.13	32.22	29.00	31.52	31.90	32.28	31.61	32.00	32.43	32.77
9	31.57	31.63	31.28	32.19	27.68	31.50	31.94	32.29	31.85	32.00	32.46	32.77
10	31.53	31.59	31.33	32.16	27.37	31.48	31.96	32.30	31.89	31.87	32.45	32.76
11	31.54	31.58	31.33	32.18	28.07	31.23	31.97	32.27	31.93	31.78	---	32.74
12	31.53	31.59	30.76	32.14	29.43	30.72	32.03	32.33	32.00	31.68	---	32.74
13	31.50	30.62	29.80	32.18	29.92	30.71	32.07	32.38	32.11	31.09	---	32.76
14	31.50	30.63	29.06	32.18	30.27	30.72	32.12	32.40	32.15	31.00	---	32.78
15	31.53	30.13	28.79	32.23	30.54	29.53	32.15	32.38	32.15	31.20	---	32.75
16	31.60	30.45	29.43	32.21	30.76	29.19	32.62	32.36	32.17	31.46	---	32.78
17	31.61	30.58	30.26	32.20	30.97	29.36	32.89	32.36	32.25	31.65	---	32.77
18	31.58	30.01	30.82	32.19	30.99	29.77	32.90	32.31	32.22	31.73	---	32.72
19	31.55	29.43	31.02	32.10	30.73	29.75	32.92	32.29	32.20	31.79	---	32.69
20	31.57	29.81	31.15	31.84	30.66	29.85	32.92	32.18	32.19	31.83	---	32.65
21	31.75	30.62	31.27	31.61	30.61	30.48	32.81	32.15	32.18	31.91	---	32.66
22	31.89	30.94	31.28	30.85	30.57	30.61	32.82	32.06	32.12	32.04	---	32.63
23	31.92	31.10	31.49	30.45	30.73	30.93	32.58	32.12	32.05	32.10	---	32.59
24	31.92	31.32	31.65	30.30	31.01	31.04	32.28	32.16	31.84	32.12	---	32.57
25	31.98	31.49	31.74	30.47	31.03	31.10	32.25	32.23	32.04	32.15	---	32.40
26	31.97	31.50	31.74	30.57	30.97	31.18	32.28	32.24	32.14	32.18	---	31.88
27	31.99	31.22	31.88	30.98	31.16	31.30	32.25	32.23	32.15	32.21	---	31.59
28	32.03	31.16	31.88	31.18	31.49	31.36	32.20	32.23	32.18	32.23	---	31.53
29	32.03	30.83	31.93	31.43	---	31.36	32.16	32.20	31.61	32.25	---	31.44
30	32.00	30.53	31.95	31.51	---	31.46	32.17	32.17	31.68	32.29	---	31.54
31	32.00	---	32.02	31.61	---	31.50	---	32.18	---	32.30	---	---
MAX	32.03	32.00	32.02	32.23	31.59	31.57	32.92	32.40	32.34	32.30	---	---

WTR YR 1986 MEAN 31.61 HIGH 27.37 FEB 10 LOW 32.92 APR 19 AND OTHERS

7378

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 Pleistecene 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.
EXREMES 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.85	24.40	20.70	20.50	22.00	---	21.30	21.65	23.95	24.95	25.30	---
2	22.90	23.90	21.10	20.50	22.05	21.00	20.60	22.60	24.15	24.85	25.10	25.35
3	23.35	24.15	21.15	20.70	22.00	20.95	21.30	22.65	23.60	24.75	25.20	25.45
4	23.30	24.00	21.00	20.40	21.80	21.00	21.35	22.55	24.40	24.55	25.20	25.30
5	22.65	24.25	21.00	20.50	22.00	21.00	21.35	22.45	24.45	24.15	25.45	25.25
6	22.30	23.95	20.95	20.65	21.95	20.75	21.20	22.40	25.00	24.30	25.45	25.20
7	23.25	24.00	20.80	20.90	21.85	21.10	21.40	22.95	24.45	24.80	25.45	24.85
8	23.25	23.50	20.80	21.50	21.55	21.05	21.50	22.95	24.05	24.95	25.55	25.35
9	23.35	23.55	21.00	21.70	21.60	20.90	21.40	22.95	24.55	24.70	24.80	25.45
10	23.55	23.75	21.00	21.75	21.45	20.90	21.45	22.90	24.55	24.80	25.30	25.55
11	23.80	23.85	20.95	21.85	21.50	21.00	21.35	22.95	24.60	24.85	25.30	25.65
12	23.85	23.90	20.60	21.15	21.50	20.90	21.40	23.15	25.05	24.55	25.45	25.60
13	23.85	23.60	20.80	21.85	21.35	20.90	21.45	22.65	24.80	24.70	25.50	25.35
14	22.65	23.65	19.90	22.00	21.50	20.85	21.35	23.10	24.80	24.70	25.60	25.35
15	23.55	23.60	20.50	22.00	21.50	20.90	21.65	23.70	24.05	24.85	25.60	25.40
16	24.10	23.00	20.65	22.05	21.20	20.70	21.80	23.70	24.10	24.70	25.60	25.55
17	23.75	22.80	20.65	22.10	21.20	21.10	21.70	23.20	25.30	24.85	25.35	25.60
18	24.10	22.85	20.80	22.00	21.25	21.15	22.15	23.40	24.85	24.85	25.55	25.30
19	22.95	22.65	20.70	21.80	21.25	20.85	21.70	23.00	24.80	24.70	25.45	25.40
20	23.45	22.85	20.80	22.15	20.70	21.35	21.70	23.50	24.90	24.85	25.65	25.40
21	24.25	22.80	20.65	22.05	21.30	21.35	21.60	23.50	24.95	24.90	25.75	25.25
22	23.65	22.75	20.55	22.20	21.10	21.25	21.60	23.15	24.85	25.00	25.75	25.20
23	23.80	22.65	20.50	22.10	21.15	21.05	21.45	23.40	24.30	---	25.70	26.20
24	23.85	22.55	20.55	21.75	20.95	21.35	21.45	23.25	24.90	---	25.55	26.55
25	23.85	22.65	20.45	22.00	21.10	21.55	21.85	23.70	25.00	---	25.65	26.65
26	23.15	22.50	20.40	21.45	20.95	21.55	21.85	23.15	25.05	---	25.70	26.65
27	23.70	22.55	20.70	---	21.10	21.20	21.60	23.85	25.15	---	25.65	26.65
28	23.45	22.45	---	---	21.05	21.15	21.60	23.00	25.25	---	25.50	26.70
29	24.05	21.85	20.30	21.25	---	21.10	22.20	23.00	25.00	---	25.35	26.50
30	24.15	21.95	20.55	22.05	---	21.15	22.00	23.70	24.95	25.33	---	26.55
31	24.20	---	20.60	22.15	---	21.30	---	23.15	---	25.30	---	---
MAX	24.25	24.40	---	---	22.05	---	22.20	23.85	25.30	---	---	---

WTR YR 1986 MEAN 23.04 HIGH 19.90 DEC 14 LOW 26.70 SEP 28

394544082271000. 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.
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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.42	18.83	---	14.11	14.79	12.50	13.43	15.64	16.91	17.75	17.69	18.43
2	18.43	18.83	---	14.17	14.79	12.53	13.50	15.72	17.01	17.73	17.71	18.47
3	18.39	18.84	---	14.29	14.77	12.62	13.59	15.75	17.12	17.72	17.71	18.53
4	18.42	18.89	---	14.39	14.70	12.68	13.66	15.75	17.12	17.78	17.75	18.51
5	18.37	18.88	---	14.47	14.45	12.75	13.76	15.85	17.25	17.73	17.76	18.46
6	18.47	18.95	---	14.55	14.30	12.76	13.79	15.86	17.24	17.73	17.78	18.55
7	18.54	18.95	---	14.63	14.03	12.90	13.94	15.87	17.16	17.69	17.82	18.55
8	18.54	18.98	---	14.69	13.68	12.95	14.13	15.93	17.25	17.68	17.82	18.55
9	18.57	18.97	---	14.78	13.50	12.95	14.10	16.01	17.25	17.63	17.87	18.55
10	18.62	18.91	---	14.87	13.31	13.01	14.12	16.08	17.26	17.59	17.87	18.56
11	18.63	18.81	---	14.93	13.14	13.06	14.29	16.09	17.25	17.59	17.92	18.56
12	18.59	18.81	---	14.96	13.07	13.09	14.37	16.19	17.33	17.53	17.93	18.56
13	18.61	18.64	---	15.18	12.98	13.09	---	16.19	17.38	17.52	17.99	18.56
14	18.64	18.53	---	15.18	12.91	13.03	---	16.23	17.44	17.58	17.99	18.58
15	18.68	18.39	---	15.27	12.90	12.93	---	16.29	17.46	17.58	18.00	18.59
16	18.70	18.23	---	15.37	12.90	12.89	---	16.32	17.46	17.57	18.04	18.68
17	18.76	17.89	12.96	15.39	12.89	12.81	---	16.39	17.54	17.56	18.04	18.69
18	18.76	17.44	13.00	15.41	12.89	12.79	---	16.39	17.57	17.56	18.12	18.69
19	18.76	17.08	13.03	15.41	12.85	12.63	---	16.43	17.58	17.51	18.12	18.69
20	18.75	16.77	13.05	15.44	12.76	12.65	---	16.44	17.50	17.48	18.14	18.69
21	18.74	16.56	13.08	15.45	12.70	12.74	---	16.49	17.68	17.49	18.24	18.69
22	18.75	16.29	13.13	15.52	12.67	12.77	---	16.60	17.73	17.50	18.25	18.70
23	18.78	16.13	13.17	15.52	12.60	12.79	---	16.56	17.77	17.51	18.25	18.70
24	18.77	15.98	13.29	15.51	12.55	12.91	---	16.67	17.82	17.52	18.30	18.70
25	18.79	15.91	13.41	15.39	12.53	12.91	---	16.68	17.81	17.50	18.33	18.71
26	18.81	15.75	13.46	15.23	12.49	12.93	---	16.69	17.81	17.49	18.33	18.79
27	18.84	15.47	13.64	15.01	12.40	13.02	---	16.70	17.81	17.48	18.34	18.79
28	18.88	15.19	13.73	14.93	12.46	13.09	---	16.74	17.73	17.53	18.39	18.79
29	18.88	---	13.81	14.81	---	13.21	---	16.77	17.75	17.54	18.40	18.92
30	18.87	---	13.88	14.76	---	13.23	15.64	16.80	17.78	17.60	18.41	18.92
31	18.87	---	13.96	14.78	---	13.38	---	16.86	---	17.68	18.42	---
MAX	18.88	---	---	15.52	14.79	13.38	---	16.86	17.82	17.78	18.42	18.92

WTR YR 1986 MEAN 16.33 HIGH 12.40 FEB 27 LOW 18.98 NOV 8

7378

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.
PERIOD OF RECORD.--June 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 34.50 ft below land-surface datum, Sept. 12, 1984; minimum daily low, 0.98 ft above land-surface datum, Nov. 7, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.80	22.45	8.60	5.30	6.10	5.80	4.15	4.70	16.90	20.90	17.30	---
2	23.90	21.20	8.60	4.70	6.00	5.80	4.40	6.30	17.00	18.30	17.50	9.50
3	25.50	21.60	7.70	4.70	6.10	6.20	4.70	5.30	18.35	20.10	17.70	8.90
4	23.70	21.70	6.80	4.70	6.50	5.60	4.70	5.30	16.90	19.95	18.40	8.40
5	22.90	15.85	6.40	5.00	7.00	5.50	5.00	7.20	16.90	21.00	19.60	8.70
6	23.35	14.10	6.10	5.90	6.60	5.70	4.30	11.00	17.50	22.80	20.80	7.65
7	25.35	14.10	5.80	11.60	5.60	5.20	5.10	12.50	17.20	22.70	19.90	7.20
8	27.50	12.70	5.80	5.80	5.90	5.30	4.60	14.70	17.55	13.70	20.00	12.10
9	25.30	11.50	5.80	5.70	5.90	5.50	5.45	12.90	18.50	19.30	19.30	10.05
10	26.60	11.10	6.40	5.85	7.20	6.10	5.70	14.70	18.30	18.90	18.70	9.80
11	27.30	11.10	5.70	6.40	7.30	5.50	6.60	13.60	18.90	18.10	19.10	9.80
12	27.90	11.45	6.20	6.25	7.00	6.10	6.50	16.10	18.10	17.50	20.50	9.20
13	28.90	12.85	6.70	6.25	6.55	6.90	5.50	14.80	18.00	15.50	19.80	9.20
14	29.10	10.80	6.30	5.80	6.90	6.50	7.30	15.30	18.00	18.80	19.40	8.25
15	25.10	10.30	5.40	5.40	7.90	5.10	5.00	16.60	18.90	18.90	18.50	7.40
16	24.30	10.20	7.70	6.15	6.10	5.00	4.80	14.20	18.30	19.60	18.80	10.70
17	23.20	11.10	6.65	6.90	6.25	5.20	4.90	16.30	17.90	20.80	20.30	16.50
18	23.10	13.25	5.70	6.70	5.80	5.70	5.30	15.00	18.50	20.70	19.25	14.30
19	23.20	9.60	6.00	6.60	5.90	5.25	5.00	16.10	17.90	20.70	20.50	9.90
20	22.30	8.90	5.65	6.70	4.80	5.10	4.30	16.50	18.10	21.25	20.45	9.45
21	23.20	8.80	6.10	7.90	5.00	5.10	5.40	16.20	19.70	22.00	21.30	10.50
22	23.10	8.50	5.60	7.00	4.70	5.50	4.10	16.40	19.10	19.90	22.10	10.70
23	23.00	8.70	5.80	---	4.00	4.50	4.30	15.80	19.10	19.10	19.70	10.20
24	23.35	8.30	7.50	---	4.60	5.60	3.80	16.50	19.90	19.90	19.80	11.55
25	24.00	8.90	3.55	---	5.10	4.90	4.80	15.70	20.80	19.80	14.20	10.05
26	23.45	8.80	6.35	---	5.50	3.95	5.10	16.05	21.60	19.10	11.80	10.40
27	22.80	7.80	5.50	---	5.50	4.85	4.80	16.20	20.70	19.00	11.20	9.20
28	23.50	7.50	5.90	---	5.90	4.20	5.00	15.90	---	18.60	12.55	8.90
29	22.80	13.50	6.00	---	---	4.20	4.90	17.00	21.00	19.00	11.60	9.90
30	22.60	8.60	6.30	---	---	4.30	5.10	16.60	20.70	19.20	---	10.30
31	24.90	---	6.60	6.40	---	4.55	---	15.70	---	16.20	---	---
MAX	29.10	22.45	8.60	---	7.90	6.90	7.30	17.00	---	22.80	---	---

WTR YR 1986 MEAN 12.29 HIGH 3.55 DEC 25 LOW 29.10 OCT 14

000240

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.65	8.75	---	6.80	7.05	6.50	6.60	7.45	8.05	8.65	9.75	10.25
2	8.85	8.70	---	6.95	6.85	6.35	6.95	7.55	8.05	8.60	9.15	10.10
3	8.70	8.80	6.65	6.80	6.95	6.45	7.00	7.35	8.15	8.65	9.00	10.00
4	8.70	---	---	7.00	6.65	6.40	7.00	7.50	8.05	8.55	9.20	9.80
5	8.55	---	---	6.95	6.75	6.65	6.75	7.60	8.25	8.75	9.65	9.90
6	8.85	---	---	6.95	6.70	6.40	6.95	7.55	8.10	8.75	9.35	9.75
7	9.15	---	---	6.95	6.65	6.55	7.05	7.60	8.40	8.95	9.15	9.85
8	8.90	---	---	7.05	6.60	6.45	6.95	7.60	8.45	9.05	9.20	9.80
9	8.75	---	---	7.00	6.60	6.50	6.90	7.75	8.50	8.80	9.10	10.15
10	8.90	---	---	7.00	6.60	6.40	7.00	7.65	8.30	8.65	9.20	10.05
11	8.90	---	---	7.00	6.55	6.55	7.15	7.50	8.50	8.65	9.25	10.00
12	9.40	---	---	7.05	6.45	6.55	7.25	7.60	8.40	8.50	9.25	9.90
13	8.95	---	---	6.95	6.60	6.55	7.35	7.45	8.55	8.55	9.25	10.00
14	9.15	---	---	7.05	6.35	6.50	7.30	7.60	8.35	8.60	9.50	9.85
15	9.10	---	---	7.15	6.50	6.55	7.05	7.45	8.35	8.65	9.45	9.95
16	9.20	---	---	7.20	6.30	6.30	7.40	7.80	8.45	8.45	9.85	10.00
17	9.15	---	---	7.[illegible]	6.40	6.45	7.10	7.65	8.45	8.60	9.75	10.[illegible]5
18	9.25	---	---	7.[illegible]	6.55	6.35	7.25	7.75	8.55	8.65	9.75	9.95
19	9.15	---	---	6.95	6.55	6.40	7.25	7.95	8.50	8.75	10.15	10.00
20	9.10	---	---	7.05	6.45	6.40	7.20	7.85	8.40	8.70	9.85	9.85
21	9.00	---	---	7.00	6.50	6.55	7.05	7.70	8.40	8.80	9.95	10.05
22	9.05	---	---	7.50	6.40	6.35	7.20	7.80	8.35	8.95	10.15	10.15
23	9.05	---	---	7.15	6.45	6.45	7.25	7.80	8.60	8.95	9.90	10.25
24	9.05	---	---	7.15	6.30	6.45	7.35	7.95	8.65	8.85	9.80	10.40
25	9.15	---	---	7.05	6.45	6.55	7.30	7.95	8.90	8.90	10.00	10.35
26	8.35	---	---	6.95	6.25	6.50	7.35	8.00	8.65	9.30	10.00	10.25
27	8.95	---	---	7.00	6.45	6.55	7.45	8.00	8.60	9.25	10.05	10.25
28	9.00	---	---	7.05	6.45	6.75	7.50	8.05	8.65	9.05	10.15	10.15
29	8.85	---	---	6.90	---	6.60	7.55	7.95	8.75	9.20	10.05	10.45
30	8.85	---	---	7.10	---	6.55	7.55	8.05	8.65	9.70	10.15	10.35
31	8.70	---	6.70	6.90	---	6.85	---	7.90	---	10.25	10.15	---
MAX	9.40	---	---	7.50	7.05	6.85	7.55	8.05	8.90	10.25	10.15	10.45

WTR YR 1986 MEAN 8.10 HIGH 6.25 FEB 26 LOW 10.45 SEP 29

7378

394956083002700. Local number, FR-18.
LOCATION.--Lat 39°49'56", long 83°99'27", Hydrologic Unit 05060001, south of State Rt. 665 at Shadeville.
Owner: City of Columbus.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 86.4 ft, cased.
INSTRUMENTATION.--Type F continuous recorder.
DATUM.--Elevation of land-surface datum is 690 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 3.80 ft above land-surface datum.
PERIOD OF RECORD.--March 27, 1986 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 22.04 ft below land-surface datum, Sept. 24-25, 1986; minimum daily low, 14.18 ft below land-surface datum, Feb. 24, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	---	---	---	15.50	17.17	18.41	19.03	19.38	21.11
2		---	16.57	19.09	---	---	15.63	17.31	18.48	19.00	19.41	21.14
3		---	---	---	---	---	15.78	17.33	18.57	18.48	19.45	21.17
4		---	---	---	---	---	15.88	17.40	18.66	18.08	19.50	21.20
5		---	---	---	---	---	16.02	17.66	18.72	18.12	19.55	21.16
6		---	---	---	---	---	16.10	17.85	18.75	18.32	19.60	21.06
7		---	---	---	---	---	16.18	17.95	18.66	18.55	19.66	21.17
8		---	---	---	---	---	16.33	18.01	18.13	18.75	19.73	21.24
9		---	---	---	---	---	16.45	18.08	17.78	18.82	19.83	21.31
10		---	---	---	---	---	16.53	18.00	17.96	18.72	19.92	21.36
11		---	18.39	---	---	---	16.60	17.76	17.98	18.75	20.00	21.41
12		---	---	---	---	---	16.65	18.15	17.82	18.50	20.08	21.41
13		---	---	---	---	---	16.70	18.31	18.14	18.02	20.14	21.32
14		---	---	---	---	---	16.78	18.39	18.36	17.61	20.20	21.41
15		---	---	---	---	---	16.80	18.18	18.53	17.49	20.26	21.46
16		---	---	---	---	---	16.84	18.45	18.68	17.59	20.32	21.50
17		---	---	---	---	---	16.[illegible]	18.39	18.82	17.87	20.38	21.56
18		---	---	---	---	---	16.94	18.38	18.93	18.13	20.44	21.64
19		---	---	---	---	---	17.02	16.23	19.07	18.28	20.50	21.72
20		---	---	---	---	---	17.05	18.09	19.10	18.40	20.56	21.79
21		---	---	---	---	---	17.04	18.09	19.18	18.57	20.62	21.88
22		18.21	---	---	---	---	17.02	18.14	19.25	18.72	20.67	21.95
23		---	---	---	---	---	16.75	18.21	19.30	18.84	20.75	22.00
24		---	---	---	14.18	---	16.48	18.29	19.31	18.93	20.85	22.04
25		---	---	---	---	---	16.31	18.33	19.23	19.02	20.92	22.04
26		---	---	---	---	---	16.41	18.38	19.38	19.09	20.96	22.03
27		---	---	---	---	14.66	16.55	18.38	19.49	19.17	20.97	21.01
28		---	---	---	---	14.81	16.69	18.31	19.51	19.21	20.87	20.14
29		---	---	---	---	14.99	16.82	18.32	19.46	19.24	20.93	19.67
30		---	---	---	---	15.18	17.01	18.30	19.36	19.29	21.00	19.66
31		---	---	16.84	---	15.37	---	18.31	---	19.33	21.06	---
MAX		---	---	---	---	---	17.05	18.48	19.51	19.33	21.06	22.04

WTR YR 1986 MEAN 18.77 HIGH 14.18 FEB 24 LOW 22.04 SEP 24 AND OTHERS

000242

395118082573300. 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

REVISIONS.--Revised water levels for water year 1985 are given below. These figures supersede those published in the report for 1985.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Jan. 30, 1985	11.76	Apr. 30, 1985	12.50	June 26, 1985	12.88	Aug. 30, 1985	12.69
Feb. 28, 1985	9.80	May 31, 1985	12.44	July 31, 1985	12.41	Sept. 30, 1985	12.95
Mar. 29, 1985	12.01						

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 31, 1985	12.67	Jan. 31, 1986	11.64	Apr. 30, 1986	12.35	July 31, 1986	12.00
Nov. 29, 1985	8.32	Feb. 28, 1986	11.56	May 31, 1986	12.47	Aug. 30, 1986	12.96
Dec. 31, 1985	11.71	Mar. 31, 1986	11.22	June 28, 1986	12.65	Sept. 30, 1986	11.62

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.14	25.00	18.10	16.33	18.81	16.00	15.50	18.54	21.11	22.61	23.24	24.76
2	24.17	25.02	17.85	16.38	18.88	16.02	15.59	18.65	21.21	22.65	23.29	24.82
3	24.20	25.00	17.75	16.54	18.90	16.13	15.67	18.72	21.26	22.68	23.35	24.87
4	24.24	24.91	17.55	16.55	18.89	16.18	15.76	18.78	21.33	22.71	23.39	24.89
5	24.29	24.91	17.40	16.69	18.72	16.20	15.85	18.86	21.40	22.75	23.43	24.89
6	24.32	24.93	17.29	16.84	17.84	16.28	15.92	18.96	21.47	22.79	23.48	24.94
7	24.35	24.97	17.25	16.98	17.01	16.43	15.99	19.07	21.52	22.82	23.54	24.98
8	24.38	24.99	17.15	17.05	16.03	16.45	16.11	19.17	21.61	22.84	23.58	25.02
9	24.41	24.99	17.12	17.09	15.94	16.47	16.22	19.26	21.66	22.85	23.63	25.06
10	24.44	24.93	17.11	17.23	15.70	16.51	16.30	19.34	21.71	22.88	23.68	25.11
11	24.47	24.76	17.05	17.30	15.73	16.64	16.43	19.42	21.71	22.90	23.74	25.14
12	24.50	24.62	16.89	17.40	15.79	16.64	16.54	19.51	21.76	22.87	23.78	25.13
13	24.54	24.54	16.12	17.54	15.82	16.54	16.66	19.60	21.81	22.84	23.82	25.16
14	24.56	24.37	15.72	17.68	15.78	15.32	16.72	19.69	21.85	22.85	23.88	25.21
15	24.60	24.24	15.53	17.76	15.82	14.92	16.86	19.78	21.89	22.85	23.93	25.25
16	24.63	24.01	15.52	17.86	15.80	14.76	16.96	19.87	21.95	22.85	23.97	25.29
17	24.64	23.23	15.58	17.95	15.76	14.85	17.10	19.94	22.00	22.86	24.03	25.32
18	24.67	22.58	15.66	17.99	15.74	14.87	17.20	20.02	22.04	22.81	24.08	25.36
19	24.70	22.09	15.64	18.02	15.75	14.95	17.29	20.11	22.08	22.82	24.13	25.40
20	24.71	21.70	15.62	18.13	15.77	14.95	17.34	20.20	22.15	22.85	24.19	25.44
21	24.72	21.44	15.63	18.17	15.79	14.96	17.52	20.28	22.19	22.89	24.25	25.44
22	24.76	21.16	15.61	18.31	15.77	15.01	17.66	20.36	22.23	22.91	24.29	25.44
23	24.79	21.01	15.61	18.36	15.75	15.04	17.76	20.46	22.29	22.93	24.34	25.49
24	24.80	20.86	15.74	18.39	15.81	15.13	17.83	20.54	22.35	22.95	24.39	25.55
25	24.82	20.76	15.81	18.42	15.83	15.10	17.93	20.62	22.40	22.99	24.44	25.57
26	24.85	20.63	15.81	18.46	15.80	15.12	18.03	20.67	22.44	23.02	24.49	25.57
27	24.89	20.31	15.93	18.55	15.91	15.20	18.12	20.75	22.50	23.05	24.54	25.57
28	24.93	19.59	15.97	18.59	15.97	15.23	18.24	20.83	22.51	23.09	24.58	25.55
29	24.94	18.67	16.09	18.69	---	15.26	18.34	20.89	22.56	23.13	24.62	25.43
30	24.96	18.33	16.13	18.74	---	15.34	18.42	20.96	22.59	23.16	24.67	25.43
31	24.98	---	16.25	18.79	---	15.42	---	21.04	---	23.20	24.72	---
MAX	24.98	25.02	18.10	18.79	18.90	16.64	18.42	21.04	22.59	23.20	24.72	25.57

WTR YR 1986 MEAN 20.39 HIGH 14.76 MAR 16 LOW 25.57 SEP 25 AND OTHERS

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, 1952.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.55	43.97	43.25	42.84	42.73	42.13	41.90	41.82	41.86	42.15	43.04	43.85
2	44.57	43.97	43.53	42.83	42.62	42.07	41.96	41.85	41.94	42.13	43.16	43.82
3	44.55	43.99	43.54	42.82	42.60	42.02	42.00	41.78	42.14	42.30	43.12	43.78
4	44.49	43.99	43.52	42.82	42.39	42.05	41.82	41.71	42.38	42.29	43.28	43.70
5	44.46	43.99	43.38	42.76	42.45	42.04	41.73	41.70	41.98	42.72	43.33	43.69
6	44.54	44.02	43.38	42.86	42.44	41.91	41.64	41.70	41.89	42.61	43.19	43.73
7	44.59	44.07	43.37	43.10	42.47	42.25	41.70	41.93	41.96	42.72	43.24	43.80
8	44.59	44.16	43.24	43.14	42.47	42.26	41.35	41.94	42.18	42.59	43.18	43.85
9	44.60	44.13	43.31	43.06	42.46	42.03	41.44	41.94	42.08	42.50	43.29	43.86
10	44.58	44.10	43.28	42.81	42.45	41.91	41.39	42.10	41.94	42.38	43.33	43.80
11	44.59	44.16	43.17	42.80	42.40	42.03	41.44	41.94	41.77	42.37	43.28	43.73
12	44.50	44.10	43.14	42.63	42.45	42.02	41.50	41.84	41.84	42.34	43.36	43.83
13	44.32	44.00	43.07	42.73	42.48	41.83	41.60	41.77	42.04	42.38	43.29	43.92
14	44.30	44.07	43.14	42.80	42.25	41.81	41.50	41.80	42.14	42.47	43.26	44.00
15	44.33	44.06	43.13	42.84	42.33	41.83	41.43	41.94	41.95	42.48	43.28	43.92
16	44.50	43.88	43.07	42.83	42.25	41.91	41.39	41.94	42.01	42.49	43.33	44.07
17	44.50	43.91	43.06	42.79	42.07	41.94	41.54	41.94	41.95	42.63	43.41	44.08
18	44.45	43.91	43.16	42.75	42.06	41.92	41.73	41.84	42.12	42.60	43.52	44.00
19	44.38	43.83	43.16	42.53	42.08	41.75	41.69	41.83	42.20	42.68	43.57	43.98
20	44.33	43.89	43.03	42.65	42.08	42.02	41.48	41.89	42.02	42.63	43.63	44.00
21	44.31	43.90	43.03	42.68	42.26	42.06	41.41	41.79	42.08	42.74	43.52	44.08
22	44.30	43.71	42.91	42.87	42.21	42.03	41.59	41.77	42.01	42.87	43.66	44.03
23	44.28	43.71	42.68	42.88	42.17	41.90	41.69	41.92	42.18	43.04	43.71	44.00
24	44.24	43.73	42.79	42.87	42.16	42.03	41.83	41.94	42.18	42.99	43.73	44.00
25	44.34	43.70	42.90	42.73	42.16	41.95	41.82	42.06	42.12	43.03	43.71	44.07
26	44.30	43.47	42.89	42.52	41.88	41.79	41.87	41.94	42.41	42.95	43.68	44.18
27	44.26	43.52	42.86	42.55	42.11	41.83	41.87	41.91	---	42.93	43.60	44.12
28	44.32	43.51	42.86	42.57	42.11	41.79	41.86	41.84	---	42.89	43.75	44.19
29	44.30	43.51	42.85	42.65	---	41.66	41.59	41.84	---	42.97	43.66	44.15
30	44.17	43.41	42.85	42.81	---	41.58	41.58	41.79	---	42.99	43.87	44.12
31	44.11	---	42.80	42.81	---	41.91	---	41.93	---	43.07	43.85	---
MAX	44.60	44.16	43.54	43.14	42.73	42.26	42.00	42.10	---	43.07	43.87	44.19

WTR YR 1986 MEAN 42.85 HIGH 41.35 APR 8 LOW 44.60 OCT 9

7378

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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 24, 1985	32.98	Apr. 25, 1986	28.89

000246

BEST COPY AVAILABLE

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 Deptartment.
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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.39	12.14	6.22	10.03	9.05	8.88	7.52	9.68	10.70	10.22	10.69	12.34
2	11.20	12.24	6.95	10.20	8.97	8.11	7.54	9.83	11.05	8.22	10.63	12.43
3	11.09	12.59	8.08	10.24	7.96	7.94	7.58	9.87	10.89	8.58	11.74	12.03
4	11.18	12.61	8.27	9.99	7.57	7.99	7.67	10.48	10.85	8.69	11.77	12.31
5	11.01	12.56	8.42	10.14	5.47	7.84	7.69	10.55	10.91	9.08	11.89	12.69
6	11.03	12.69	8.61	10.38	5.91	7.64	7.79	10.66	10.91	9.23	12.07	12.79
7	11.94	12.75	8.67	11.31	5.63	7.64	8.19	10.69	9.49	9.41	11.14	12.74
8	12.19	12.89	8.75	10.69	5.92	8.04	8.44	10.17	10.64	9.66	11.36	12.43
9	12.23	11.50	8.93	10.09	6.53	8.11	8.58	10.30	10.87	9.74	10.66	11.68
10	12.29	10.12	8.98	9.82	6.84	8.22	8.62	10.45	10.94	9.76	11.83	11.75
11	12.34	8.80	8.82	9.84	7.18	7.99	8.69	10.42	9.37	9.76	11.41	12.79
12	12.30	8.70	7.21	11.16	7.39	7.87	8.71	9.67	9.49	9.02	11.93	12.81
13	12.69	8.36	6.99	11.39	7.56	7.73	8.69	10.30	9.63	9.48	12.09	11.25
14	12.88	8.61	7.34	11.53	7.71	5.77	9.52	10.11	9.74	9.79	12.28	11.56
15	13.05	8.50	7.20	11.81	7.88	6.43	10.04	10.50	9.78	10.02	12.51	11.92
16	12.94	8.62	7.95	11.92	7.96	6.61	10.19	10.49	9.58	10.06	12.53	12.01
17	13.24	7.29	8.87	11.87	7.76	6.74	10.52	9.74	9.64	10.12	10.93	12.44
18	13.49	7.91	9.02	11.53	7.30	6.89	10.28	10.74	9.65	10.38	11.58	12.46
19	13.52	8.14	9.12	10.45	6.91	6.86	10.68	10.91	9.74	10.65	11.71	11.33
20	13.39	8.65	9.12	8.55	7.04	6.56	9.63	10.94	9.84	10.55	11.27	11.31
21	11.04	8.92	9.29	8.40	7.12	6.96	8.32	10.52	9.65	11.10	11.34	11.22
22	11.08	9.10	9.22	8.19	7.03	7.02	8.67	9.55	10.72	11.35	11.57	12.76
23	11.26	9.28	9.11	7.96	7.42	7.48	8.65	9.58	10.78	11.36	11.60	---
24	11.29	9.63	9.52	7.96	7.57	7.58	8.32	9.64	10.88	11.72	12.34	---
25	11.17	9.65	9.63	7.97	7.63	7.75	8.34	9.44	10.99	11.89	12.43	---
26	11.18	8.53	9.98	8.33	7.82	7.75	8.41	9.29	11.05	11.99	12.49	---
27	11.92	6.55	9.79	8.93	7.85	7.79	8.36	9.51	11.22	11.97	12.49	---
28	12.00	4.42	9.78	9.04	7.99	7.73	8.65	9.27	10.03	10.70	12.06	---
29	12.20	4.89	9.69	8.50	---	7.69	9.59	9.38	9.83	10.71	11.98	---
30	12.24	5.73	9.53	8.63	---	7.56	8.77	9.39	10.05	10.56	12.03	---
31	12.28	---	9.97	8.97	---	7.52	---	9.43	---	10.57	12.16	---
MAX	13.52	12.89	9.98	11.92	9.05	8.88	10.68	10.94	11.22	11.99	12.53	---

WTR YR 1986 MEAN 9.80 HIGH 4.42 NOV 28 LOW 13.52 OCT 19

7378

GREENE COUNTY--Continued

394425083551100. 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-surfce datum, Feb. 1, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.27	10.69	4.70	8.99	6.88	6.73	7.98	7.41	8.84	6.71	9.76	
2	8.33	10.77	5.07	9.36	7.95	6.78	8.07	7.45	9.05	6.80	9.78	
3	8.45	9.01	5.24	9.29	7.88	7.98	8.17	7.50	9.16	6.91	---	
4	8.55	8.85	5.57	7.19	7.79	8.07	8.02	7.75	9.24	6.93	---	
5	8.60	8.54	6.19	6.99	6.19	8.08	8.18	7.66	9.34	8.85	---	
6	10.61	8.34	5.87	6.95	5.90	8.07	7.39	7.57	9.34	8.96	---	
7	10.65	8.22	5.94	6.81	5.76	8.07	7.09	8.70	9.31	9.06	---	
8	10.77	8.14	8.06	7.72	5.79	8.07	7.18	8.59	9.18	9.13	---	
9	10.79	7.87	8.24	6.99	5.87	8.07	7.28	8.56	7.68	9.14	---	
10	10.82	7.73	8.28	8.05	5.26	6.94	7.34	8.66	7.62	9.16	---	
11	10.81	7.08	8.26	7.37	5.45	6.86	7.42	8.63	7.53	9.08	---	
12	10.82	6.37	7.33	7.71	5.45	6.74	7.47	8.90	7.50	8.98	---	
13	10.79	6.01	6.98	7.69	5.87	6.51	8.74	8.60	7.50	8.27	---	
14	9.01	6.03	7.36	7.65	6.07	4.64	9.04	8.75	7.51	8.46	---	
15	8.72	6.15	7.46	7.64	6.18	5.07	8.42	8.85	9.24	8.64	---	
16	8.51	6.12	5.83	7.60	7.52	6.65	7.56	8.95	9.26	8.73	---	
17	8.33	7.25	5.97	7.41	7.55	6.87	7.52	8.97	9.34	8.86	---	
18	8.24	7.57	6.09	7.35	7.56	7.03	7.38	8.31	9.35	8.96	---	
19	8.15	7.77	6.33	7.96	7.47	7.03	7.41	7.62	9.39	9.07	---	
20	7.85	8.07	6.48	7.87	7.42	6.76	8.09	7.53	9.34	9.07	---	
21	7.94	8.24	6.37	7.97	7.44	6.97	8.33	7.52	9.34	7.88	---	
22	8.05	8.36	6.38	7.97	7.34	7.16	8.35	7.52	9.05	7.73	---	
23	8.24	8.48	6.56	7.91	6.39	7.08	7.24	7.54	9.08	7.73	---	
24	8.33	8.55	6.81	7.87	6.27	6.58	8.48	7.55	9.26	7.74	---	
25	8.40	6.98	7.08	7.88	6.45	6.29	8.59	9.32	9.38	7.79	---	
26	8.46	6.61	7.09	7.95	6.37	6.34	8.67	9.27	9.45	7.86	---	
27	10.49	5.54	6.78	6.69	6.53	6.56	7.75	9.26	9.35	7.88	---	
28	10.66	4.01	6.72	6.71	6.62	6.54	7.39	9.24	7.94	9.65	---	
29	10.63	3.64	8.67	6.67	---	6.56	7.38	9.24	7.68	9.74	---	
30	10.67	4.28	8.81	6.70	---	7.76	7.38	9.24	7.54	9.76	---	
31	10.65	---	9.23	6.80	---	7.94	---	9.24	---	9.74	---	
MAX	10.82	10.77	9.23	9.36	7.95	8.08	9.04	9.32	9.45	9.76	---	

WTR YR 1986 MEAN 7.85 HIGH 3.64 NOV 29 LOW 10.82 OCT 10 AND OTHERS

000248

7378

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 wih chalked tape by ODNR personnel.
DATUM.--Elevation of land-surface datum is 539 ft above National Geodetic Veritcal Datum of 1929, from topographic map. Measuring point: Floor of instrument shelter 2.22 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, 69.83 ft below land-surface datum, Nov 1, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 22, 1985	70.29	Nov. 1, 1985	69.83	May 2, 1986	70.72

7378

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.40	26.20	---	26.50	26.05	24.85	26.25	27.95	28.10	27.75	30.90	29.70
2	28.25	26.25	---	26.00	26.15	24.95	26.50	27.40	27.90	26.70	31.00	29.90
3	27.25	26.20	23.95	26.50	25.35	25.00	26.10	27.80	27.55	26.10	31.25	29.85
4	27.25	26.00	23.60	26.55	24.95	25.80	26.55	28.00	27.70	26.25	31.45	29.40
5	26.85	25.95	---	26.65	21.65	25.45	26.60	29.20	27.35	26.70	31.85	29.25
6	26.85	26.00	23.50	26.75	22.05	25.50	25.45	29.45	27.35	27.45	31.85	29.40
7	27.05	26.15	---	27.05	21.75	25.70	26.45	29.55	26.50	28.50	31.90	29.75
8	27.40	26.15	---	27.05	21.35	25.40	26.90	28.35	26.25	29.30	31.85	29.85
9	27.55	26.20	23.95	26.90	22.20	25.45	27.00	27.90	26.30	29.05	31.45	30.00
10	28.75	26.20	24.30	28.00	22.70	25.25	25.90	27.20	26.60	28.35	30.75	30.05
11	28.75	25.70	25.05	27.05	23.00	25.00	26.95	27.65	26.75	27.85	30.10	30.15
12	28.35	---	22.25	26.70	22.75	24.65	27.25	27.80	26.40	27.35	29.70	30.00
13	28.55	---	22.85	27.10	23.25	24.40	28.85	27.85	26.20	26.80	29.75	29.00
14	27.75	---	22.75	26.75	23.75	20.85	29.15	27.20	26.35	26.25	29.60	28.85
15	27.10	---	22.85	27.20	23.75	21.75	27.95	26.40	26.55	26.65	29.65	28.90
16	26.80	---	---	26.85	23.80	22.55	27.70	26.65	26.90	27.00	30.20	29.35
17	26.65	---	23.85	26.90	24.25	22.70	26.70	26.90	26.95	27.75	29.85	30.45
18	26.60	---	25.00	26.60	24.10	---	27.10	27.45	27.00	27.35	29.40	29.70
19	26.70	---	25.30	26.50	23.95	---	27.25	27.35	27.40	28.15	29.45	29.40
20	26.35	---	24.95	25.90	24.05	---	26.15	27.50	27.50	28.55	29.60	29.30
21	25.65	---	25.55	25.45	24.35	---	25.95	27.05	27.35	28.35	29.45	29.25
22	25.40	---	25.15	24.85	23.85	---	25.65	27.20	27.00	28.45	29.75	29.60
23	25.40	---	25.75	25.10	24.45	---	25.60	27.25	27.25	28.55	29.95	29.75
24	25.45	---	25.85	24.60	25.25	---	26.75	27.35	27.25	29.95	29.85	29.50
25	25.60	---	25.80	24.65	24.70	---	27.15	---	27.35	30.20	29.60	28.70
26	25.55	---	26.05	25.30	24.45	---	27.40	---	27.60	30.45	29.85	28.65
27	25.55	---	26.35	25.60	25.05	24.45	27.65	---	27.75	30.60	29.90	28.50
28	25.75	---	26.15	25.35	24.70	24.30	27.80	---	27.80	30.60	29.85	28.05
29	25.75	---	26.15	25.80	---	24.50	27.90	27.10	27.75	30.55	29.15	28.05
30	25.80	---	26.55	26.05	---	24.70	27.90	27.15	27.55	30.75	29.25	28.10
31	26.10	---	26.90	25.80	---	24.85	---	27.45	---	30.75	29.50	---
MAX	28.75	---	---	28.00	26.15	---	29.15	---	28.10	30.75	31.90	30.45

WTR YR 1986 MEAN 26.99 HIGH 20.85 MAR 14 LOW 31.90 AUG 7

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, 171.58 ft below land-surface datum, Nov. 3, 10, 1950; minimum daily low, 58.13 ft below land-surface datum, July 28, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.83	59.48	59.43	59.29	59.07	58.98	58.66	---	58.24	58.19	58.17	---
2	59.87	59.71	59.75	59.12	59.03	58.78	58.60	58.68	---	58.26	58.20	58.28
3	59.77	59.74	59.80	59.12	58.84	58.88	58.63	58.73	---	---	58.28	58.27
4	59.70	59.72	59.62	59.16	58.84	58.86	58.60	58.63	---	---	58.28	58.19
5	59.73	59.75	59.46	59.19	58.97	58.83	58.57	58.41	58.28	---	58.25	58.26
6	59.79	59.78	59.53	59.21	58.92	58.92	58.56	58.40	58.27	---	58.19	---
7	59.86	59.87	59.50	59.47	59.06	59.11	58.47	---	58.22	---	58.16	---
8	59.93	59.92	59.33	59.51	59.08	58.93	58.54	---	58.28	---	58.20	---
9	59.95	59.88	59.43	59.31	59.07	58.68	58.52	---	---	58.19	58.24	---
10	59.82	59.86	59.38	59.11	58.97	58.92	58.43	---	---	58.23	58.23	---
11	59.82	59.96	59.25	59.10	59.08	58.87	58.47	---	58.25	58.15	---	58.22
12	59.78	59.93	59.33	58.97	59.17	58.68	58.54	---	58.28	58.18	---	---
13	59.77	59.81	59.32	59.13	59.02	58.69	58.54	---	---	58.20	---	---
14	59.72	59.92	59.47	59.16	59.03	58.76	---	---	---	---	58.25	---
15	59.83	59.95	59.29	59.25	58.98	58.87	---	---	---	---	58.22	---
16	59.99	59.81	59.29	59.20	58.69	58.90	---	---	58.27	58.28	58.22	---
17	60.00	59.89	59.48	59.10	58.71	58.87	---	---	---	58.28	58.23	---
18	59.94	59.84	59.45	59.06	58.67	58.67	---	---	---	58.27	58.28	---
19	59.85	59.73	59.38	58.85	58.84	59.02	---	---	---	58.22	58.28	---
20	59.81	59.93	59.30	59.06	58.99	59.11	---	---	---	58.18	58.28	---
21	59.82	59.93	59.29	59.07	59.05	59.06	---	---	---	58.25	---	---
22	59.83	59.76	59.02	59.29	58.95	58.85	---	---	58.28	---	---	---
23	59.78	59.77	59.01	59.31	58.93	59.06	---	---	58.23	---	58.26	58.27
24	59.82	59.78	59.21	59.23	58.97	58.90	---	---	58.28	58.25	---	58.28
25	59.94	59.71	59.29	59.00	58.95	58.74	---	---	---	58.20	---	---
26	59.87	59.49	59.24	58.91	58.69	58.83	---	---	---	58.16	58.27	---
27	59.84	59.58	59.20	58.98	59.00	58.80	---	---	58.27	58.16	58.27	---
28	59.91	59.59	59.24	59.09	59.01	58.67	---	---	58.21	58.13	---	---
29	59.82	59.63	59.16	59.26	---	58.62	---	---	58.22	58.19	---	---
30	59.71	59.51	59.18	59.19	---	58.67	---	---	58.22	58.22	---	---
31	59.60	---	59.17	59.12	---	58.58	---	58.27	---	58.21	---	---
MAX	60.00	59.96	59.80	59.51	59.17	59.11	---	---	---	---	---	---

WTR YR 1986 MEAN 59.00 HIGH 58.13 JUL 28 LOW 60.00 OCT 17

7378

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 P 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. 19-20, 1964; minimum daily low, 14.00 ft below land-surface datum, Jan. 22, 1959.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.52	24.03	20.74	22.08	22.47	21.55	21.66	22.37	22.53	22.93	23.53	
2	24.53	24.05	20.85	22.11	22.47	21.59	21.72	22.36	22.59	22.75	23.56	
3	24.54	24.05	21.02	22.16	22.27	21.62	21.79	22.41	22.64	22.13	23.59	
4	24.56	24.05	20.96	22.19	21.99	21.66	21.85	22.44	22.69	22.57	23.63	
5	24.58	24.04	20.79	22.23	20.00	21.66	21.89	22.48	22.72	22.73	23.66	
6	24.60	24.04	20.80	22.30	20.39	21.67	21.90	22.53	22.73	22.81	23.68	
7	24.61	24.02	20.82	22.34	19.75	21.72	21.94	22.55	22.23	22.88	23.71	
8	24.64	24.02	20.85	22.38	20.23	21.75	22.00	22.50	22.24	22.95	23.75	
9	24.66	24.03	20.88	22.42	20.42	21.78	22.07	22.14	22.26	23.00	23.77	
10	24.68	23.97	20.90	22.46	20.56	21.79	22.13	22.28	22.11	23.02	23.78	
11	24.69	22.94	20.80	22.48	20.70	21.35	22.18	22.37	22.31	23.03	23.79	
12	24.70	22.94	18.81	22.50	20.86	21.38	22.23	22.43	22.31	23.04	23.81	
13	24.73	22.70	19.68	22.53	20.99	20.32	22.28	22.49	22.25	22.13	23.84	
14	24.74	22.73	19.96	22.57	21.08	20.49	22.30	22.49	22.33	21.89	23.87	
15	24.75	22.68	20.14	22.63	21.19	20.71	22.30	22.38	22.50	22.43	23.90	
16	24.75	21.47	20.26	22.67	21.23	20.83	22.31	22.36	22.66	22.63	23.92	
17	24.50	21.92	20.55	22.68	21.24	20.93	22.35	21.76	22.68	22.73	23.95	
18	24.47	22.09	20.92	22.68	20.52	20.94	22.39	21.91	22.70	22.81	23.98	
19	24.44	22.15	21.13	22.47	20.42	20.30	22.45	21.97	22.79	22.88	24.01	
20	---	22.06	21.27	21.80	20.55	20.32	22.46	21.86	22.85	22.93	24.04	
21	---	22.00	21.37	21.84	20.60	20.63	21.55	21.93	22.90	23.01	24.08	
22	---	22.05	21.44	21.76	20.83	20.76	21.60	21.92	22.90	23.09	24.09	
23	---	22.09	21.50	21.82	21.15	20.91	21.80	22.21	22.91	23.16	24.12	
24	---	22.13	21.59	21.84	21.28	21.02	21.92	22.34	22.95	23.21	24.13	
25	---	22.14	21.69	21.98	21.35	21.19	22.01	22.40	23.01	23.26	24.16	
26	---	22.11	21.77	22.04	21.31	21.26	22.09	22.40	23.08	23.29	24.19	
27	---	19.60	21.82	22.17	21.36	21.35	22.16	22.29	23.11	23.33	24.18	
28	---	19.76	21.88	22.28	21.50	21.41	22.24	22.18	23.11	23.36	24.22	
29	---	20.22	21.95	22.36	---	21.48	22.31	22.32	23.11	23.40	24.23	
30	---	20.68	21.99	22.43	---	21.56	22.35	22.41	22.94	23.44	24.25	
31	24.03	---	22.04	22.45	---	21.60	---	22.48	---	23.49	---	
MAX	---	24.05	22.04	22.68	22.47	21.79	22.46	22.55	23.11	23.49	---	

WTR YR 1986 MEAN 22.34 HIGH 18.81 DEC 12 LOW 24.75 OCT 15 AND OTHERS

000252

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, 58.62 ft below land-surface datum, May 2, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 22, 1985	60.60	Nov. 1, 1985	60.13	May 2, 1986	58.62

7378

391341084275300. Local number, H-8.
LOCATION.--Lat 39°13'41", long 84°27'53", Hydrologic Unit 05090203. Vine and Water Streets, Wyoming.
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, 84.60 ft below land-surface datum, Apr. 20, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89.90	87.50	---	87.30	86.25	86.00	---	85.55	85.15	84.80	89.50	85.65
2	89.75	87.70	---	87.30	86.60	85.75	---	85.85	85.45	84.70	91.05	86.55
3	89.60	87.85	86.85	87.30	86.45	85.00	---	86.15	85.40	84.75	87.65	85.15
4	89.40	87.90	87.95	87.20	85.80	88.40	---	86.10	85.45	84.80	87.70	85.05
5	89.45	87.95	---	87.10	88.15	---	---	86.05	85.35	85.05	87.60	85.05
6	89.35	87.80	87.85	87.20	86.45	---	---	86.20	85.25	85.30	87.50	87.60
7	89.65	87.25	87.70	91.85	86.10	---	---	86.10	88.50	85.45	87.40	86.55
8	89.85	---	---	---	86.25	---	---	85.70	85.25	85.35	87.60	86.35
9	89.80	87.25	---	---	86.15	---	---	85.65	85.15	89.30	87.60	86.25
10	89.55	87.20	87.75	---	86.20	---	---	85.75	85.00	85.80	87.60	86.05
11	89.30	---	87.20	---	86.25	---	---	85.65	84.80	85.00	87.10	85.65
12	89.20	---	87.30	---	86.30	---	---	85.65	84.65	84.75	86.80	85.55
13	89.10	---	89.25	---	86.35	---	---	85.55	84.85	84.70	86.85	86.20
14	88.90	---	---	---	86.05	---	85.47	85.50	84.80	84.75	86.65	85.95
15	88.95	---	86.90	---	86.20	---	85.05	85.35	84.65	---	86.70	85.55
16	89.50	---	86.60	---	85.75	---	84.95	85.35	85.35	85.50	86.55	85.65
17	89.35	---	87.40	---	85.65	---	85.00	85.30	84.95	86.25	86.25	85.45
18	89.35	---	87.75	---	85.45	---	85.05	85.20	84.90	86.20	86.40	85.25
19	89.15	---	87.60	---	85.65	---	85.05	85.10	87.50	89.45	86.55	85.20
20	88.95	---	87.55	---	85.60	---	84.60	85.25	84.90	86.60	86.55	85.45
21	88.85	---	87.50	88.85	86.00	---	85.35	85.10	88.60	---	86.50	85.35
22	88.65	---	86.95	87.00	85.85	---	85.85	85.05	89.45	---	85.75	85.15
23	88.50	---	86.75	87.00	85.65	---	85.75	85.15	84.95	90.50	85.55	84.75
24	88.35	---	87.30	---	86.20	---	85.55	85.35	86.95	90.15	85.55	84.80
25	88.50	---	87.45	---	86.25	---	85.40	85.35	85.05	86.90	85.50	84.80
26	88.35	---	---	---	85.90	---	85.85	85.20	85.15	86.70	85.35	85.05
27	89.00	---	87.20	---	85.70	---	85.85	85.05	85.05	90.55	85.20	---
28	89.20	---	87.15	---	86.05	---	85.60	85.10	85.00	90.05	85.40	---
29	88.55	---	87.35	---	---	---	85.95	85.00	88.85	87.05	85.50	---
30	88.20	---	---	86.45	---	---	85.65	85.00	85.00	87.05	85.40	---
31	87.75	---	87.25	86.45	---	---	---	85.15	---	90.45	86.10	---
MAX	89.90	---	---	---	88.15	---	---	86.20	89.45	---	91.05	---

WTR YR 1986 MEAN 86.62 HIGH 84.60 APR 20 LOW 91.85 JAN 7

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, 35.29 ft below land-surface datum, Sept. 11, 30, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.54	39.42	39.30	39.49	38.17	37.42	36.58	36.08	35.63	35.59	36.03	35.68
2	40.56	39.67	39.66	42.07	38.03	37.30	36.68	36.33	35.99	35.68	35.83	35.58
3	40.42	39.74	43.52	43.43	37.96	37.23	36.67	36.40	36.01	35.84	35.94	35.57
4	40.25	39.74	44.35	43.91	37.65	37.24	36.54	36.26	35.91	35.88	35.94	35.39
5	---	39.76	42.57	43.25	37.73	37.24	36.52	35.86	35.83	36.18	35.83	35.44
6	40.24	39.81	42.82	43.69	37.73	37.11	36.51	35.86	35.76	36.24	35.98	35.54
7	40.32	39.95	41.40	43.63	37.82	37.65	36.33	35.92	35.71	36.10	35.95	35.59
8	40.46	40.07	40.05	41.38	37.89	37.69	36.19	36.09	35.85	35.83	35.79	35.65
9	40.54	40.07	39.76	40.24	37.91	37.33	36.33	36.15	35.90	35.60	36.23	35.66
10	40.43	40.01	39.55	39.34	37.90	37.00	36.84	36.18	35.81	35.67	36.04	35.45
11	40.30	40.30	39.24	39.12	37.82	37.13	36.84	36.06	35.64	35.67	36.50	35.29
12	40.28	40.30	39.64	38.75	37.91	37.13	36.29	35.93	35.86	35.61	36.44	35.66
13	---	40.23	39.13	38.66	37.99	36.90	36.35	35.93	35.97	35.68	36.62	35.82
14	---	40.26	39.26	38.58	37.63	36.92	36.35	35.96	35.97	36.01	36.45	35.88
15	---	40.28	39.04	38.67	37.63	37.11	36.25	36.00	35.83	36.58	36.09	35.79
16	---	40.00	38.93	38.62	37.50	37.31	36.23	35.98	35.94	36.12	35.93	35.88
17	---	43.63	39.05	38.50	37.08	37.34	36.32	35.96	35.98	36.23	36.06	35.82
18	---	44.01	39.14	38.38	37.05	37.30	36.39	35.83	25.90	37.48	36.10	35.62
19	---	42.83	39.15	38.00	37.25	36.96	36.34	35.86	35.82	37.74	36.00	35.68
20	---	42.91	39.03	39.31	37.27	37.42	36.14	35.94	35.94	36.33	35.95	35.69
21	---	42.91	39.03	39.16	37.64	37.49	36.03	35.93	35.94	35.92	35.95	35.71
22	---	41.10	38.57	38.95	37.60	37.43	36.23	35.82	35.87	25.98	36.00	35.55
23	---	40.70	38.80	38.93	37.47	37.13	36.35	35.86	35.93	36.03	35.90	35.31
24	---	40.37	39.35	39.34	37.33	37.31	36.34	35.89	35.87	35.93	35.99	35.45
25	---	40.14	39.51	38.41	37.38	37.20	36.09	35.88	35.87	35.77	35.94	35.56
26	---	39.73	39.33	37.63	37.10	36.90	36.08	35.72	35.84	35.71	35.86	35.55
27	---	39.72	41.53	37.74	37.30	37.00	36.07	35.60	35.72	25.74	35.87	35.47
28	---	39.71	39.91	38.29	37.43	36.92	35.87	35.64	35.63	35.74	36.10	35.46
29	---	39.76	39.30	38.21	---	36.79	36.07	35.65	35.63	35.84	36.16	35.37
30	---	39.56	41.96	38.37	---	36.64	36.08	35.67	35.64	35.88	36.08	35.29
31	---	---	40.20	38.33	---	36.60	---	35.67	---	35.87	35.93	---
MAX	---	44.01	44.35	43.91	38.17	37.69	36.84	36.40	36.01	37.74	36.62	35.88

WTR YR 1986 MEAN 37.45 HIGH 35.29 SEP 11 AND OTHERS LOW 44.35 DEC 4

7378

391608084254400. Local number, H-6.
LOCATION.--Lat 39°16'08", long 84°25'44", Hydrologic Unit 05090203, Water Treatment Plant in Glendale.
Owner: Glendale Water Department.
AQUIFER.--Sand and gravel of Pleistocene Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 167 ft, cased.
INSTRUMENTATION.--Type F continuous recorder.
DATUM.--Elevation of land-surface datum is 570.65 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of instrument shelter 4.05 ft above land-surface datum.
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.
PERIOD OF RECORD.--July 1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 84.10 ft below land-surface datum, Oct. 14, 1960; minimum daily low, 23.10 ft below land-surface datum, Apr. 28, 1939.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.65		---	34.45	37.20	36.50	35.60	35.35	33.80	35.25	35.20	33.90
2	39.45		---	35.20	36.30	35.00	35.45	35.80	34.70	35.50	34.70	34.70
3	39.00		36.70	36.40	35.90	35.45	35.20	35.25	35.10	35.70	34.40	35.50
4	39.60		35.90	36.40	36.40	36.15	35.70	34.40	35.20	35.60	35.50	35.70
5	40.10		36.00	36.00	36.80	36.15	35.05	35.30	35.15	34.30	37.90	35.60
6	40.00		36.90	36.30	36.30	35.50	34.50	38.70	35.10	34.30	36.10	35.50
7	38.80		37.45	36.50	36.10	36.50	36.65	36.30	34.50	35.00	37.20	35.00
8	40.80		36.10	36.90	35.90	36.20	35.50	35.75	33.70	35.70	36.10	35.20
9	40.70		36.60	37.80	35.30	34.70	35.10	35.80	34.40	35.90	37.30	36.10
10	41.00		37.15	37.30	35.50	34.40	35.20	35.20	34.60	36.00	35.20	36.30
11	42.05		36.90	37.05	36.45	35.90	35.30	34.30	34.70	35.80	35.10	36.30
12	41.10		36.60	35.20	36.70	36.05	35.00	34.50	34.90	35.60	35.75	36.30
13	38.90		36.50	36.95	36.30	36.30	34.45	35.10	34.40	34.70	36.20	35.50
14	37.00		36.20	37.40	35.90	36.20	33.90	34.90	34.10	34.70	36.30	35.10
15	38.10		34.90	37.30	36.45	36.30	32.80	35.10	33.40	35.30	36.10	35.30
16	36.65		36.00	37.70	35.10	34.80	32.30	34.80	34.10	35.70	36.10	35.50
17	36.60		36.60	36.90	35.40	35.50	32.60	34.85	34.70	36.25	34.75	35.45
18	37.40		36.90	37.00	36.00	35.90	35.00	34.00	34.75	36.30	35.10	35.40
19	37.10		---	35.10	36.10	36.55	34.80	33.90	35.30	35.90	36.00	35.60
20	35.50		---	36.20	35.70	36.30	33.35	34.60	35.45	34.90	35.70	---
21	35.70		---	36.70	36.00	36.20	34.40	35.20	34.70	35.20	36.50	---
22	35.70		---	38.00	35.90	35.60	35.30	35.30	33.80	36.00	36.10	---
23	36.60		---	37.30	34.80	34.50	35.40	35.40	34.05	36.25	35.95	---
24	35.55		---	36.90	35.20	35.30	34.90	34.70	35.20	37.50	34.70	---
25	35.80		---	36.80	36.00	35.80	35.15	34.00	35.30	36.85	35.20	---
26	35.90		---	35.10	36.00	36.00	35.30	32.35	35.50	36.90	35.30	---
27	36.30		---	---	36.55	36.40	34.60	34.10	35.70	34.50	35.50	---
28	36.30		---	---	36.60	35.70	34.30	34.60	35.60	33.50	36.10	---
29	36.30		---	---	---	34.80	34.85	34.80	34.45	33.60	36.20	---
30	38.00		---	37.40	---	34.30	35.05	35.00	34.70	33.60	35.40	---
31	38.60		36.30	37.35	---	34.70	---	34.50	---	33.50	35.30	---
MAX	42.05		---	---	37.20	36.55	36.65	38.70	35.70	37.50	37.90	---

WTR YR 1986 MEAN 35.79 HIGH 32.30 APR 16 LOW 42.05 OCT 11

000256

BEST COPY AVAILABLE

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.31	19.40	11.05	15.18	16.72	14.80	14.82	16.27	17.00	17.32	17.84	19.26
2	19.25	19.41	11.15	15.28	16.74	14.84	15.00	16.36	16.95	17.32	17.88	19.15
3	19.19	19.39	11.63	15.42	16.69	14.98	15.18	16.36	17.07	17.15	17.87	19.12
4	19.13	19.30	12.11	15.48	16.55	15.13	15.36	16.34	17.19	16.75	17.84	19.23
5	19.08	19.20	12.60	15.56	16.08	15.18	15.47	16.33	17.33	16.42	17.93	19.34
6	19.08	19.10	13.06	15.69	15.07	15.23	15.48	16.47	17.40	16.22	18.06	19.38
7	19.04	19.01	13.35	15.88	14.08	15.23	15.51	16.62	17.39	16.17	18.19	19.38
8	19.07	19.02	13.60	16.03	13.25	15.15	15.68	16.67	17.11	16.33	18.33	19.34
9	19.13	19.09	13.91	16.25	12.69	15.00	15.81	16.77	16.68	16.55	18.46	19.29
10	19.17	19.11	14.15	16.47	12.61	15.07	15.89	16.79	16.41	16.75	18.50	19.36
11	19.22	19.10	14.25	16.58	12.89	15.15	15.99	16.78	16.35	16.94	18.57	19.45
12	19.24	18.78	14.18	16.69	13.24	15.11	16.08	16.75	16.42	16.99	18.65	19.53
13	19.24	18.35	13.35	16.81	13.60	14.89	16.18	16.85	16.44	16.93	18.73	19.53
14	19.24	17.89	12.44	16.96	13.88	14.18	16.27	16.91	16.42	16.59	18.83	19.51
15	19.26	17.50	11.82	17.05	14.07	13.10	16.39	16.98	16.36	16.33	18.93	19.43
16	19.41	17.20	11.78	17.13	14.20	12.58	16.43	17.07	16.41	16.45	19.00	19.45
17	19.52	16.88	12.05	17.20	14.31	12.63	16.50	17.07	16.55	16.59	19.00	19.54
18	19.63	16.24	12.40	17.21	14.31	12.84	16.58	16.97	16.66	16.64	19.00	19.61
19	19.70	15.75	12.79	17.18	14.24	13.00	16.58	16.83	16.73	16.71	19.04	19.65
20	19.74	15.58	13.16	17.00	14.12	13.00	16.58	16.74	16.83	16.83	19.11	19.67
21	19.69	15.63	13.48	16.64	14.01	12.80	16.56	16.75	16.86	16.93	19.20	19.65
22	19.52	15.69	13.80	16.34	14.01	12.85	16.48	16.80	16.85	17.08	19.30	19.54
23	19.39	15.73	14.05	16.21	13.98	13.10	16.18	16.88	16.83	17.18	19.37	19.49
24	19.31	15.72	14.27	16.14	13.99	13.39	15.93	16.91	16.99	17.25	19.39	19.57
25	19.36	15.76	14.38	16.13	14.13	13.63	15.87	16.91	17.12	17.33	19.38	19.62
26	19.37	15.94	14.44	16.13	14.36	13.93	15.87	16.90	17.21	17.40	19.40	19.68
27	19.36	15.95	14.69	16.13	14.57	14.16	15.85	16.85	17.24	17.41	19.43	19.68
28	19.31	15.53	14.79	16.23	14.74	14.31	15.85	16.85	17.29	17.44	19.45	19.56
29	19.28	13.92	14.88	16.45	---	14.39	15.99	16.88	17.31	17.53	19.45	19.40
30	19.28	11.94	15.00	16.58	---	14.44	16.08	16.98	17.28	17.64	19.45	19.33
31	19.36	---	15.14	16.67	---	14.58	---	17.01	---	17.74	19.38	---
MAX	19.74	19.41	15.14	17.21	16.74	15.23	16.58	17.07	17.40	17.74	19.45	19.68

WTR YR 1986 MEAN 16.64 HIGH 11.05 DEC 1 LOW 19.74 OCT 20

7378

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, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT										
01...	1535	760	7.90	14.0	16.5	10	320	85	80	28
APR										
02...	1200	710	7.40	15.0	13.5	24	320	91	81	28
AUG										
26...	1200	700	7.60	25.0	15.0	<10	310	90	78	28

DATE	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	ARSENIC DISSOLVED (UG/L AS AS)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
OCT										
01...	230	75	58	0.3	469	--	--	<1	10	<10
APR										
02...	226	74	46	0.7	425	0.03	3.40	--	--	--
AUG										
26...	220	71	50	0.3	360	0.03	2.00	<1	20	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
01...	10	5	21	8	6	280	20	17	1.7
APR									
02...	--	--	20	--	--	280	--	--	<0.1
AUG									
26...	5	5	20	<5	<5	270	<10	24	1.4

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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.22	25.73	18.86	19.95	---	20.08	19.50	21.17	22.32	22.76	23.11	24.83
2	25.27	25.78	19.03	20.26	---	20.07	19.66	21.28	22.33	22.73	23.23	24.87
3	25.29	25.84	19.16	20.61	---	20.08	19.77	21.38	22.25	22.57	23.21	24.90
4	25.30	25.88	19.30	20.62	---	20.22	19.87	21.35	22.29	22.24	23.34	24.93
5	25.36	25.92	19.48	20.67	---	20.31	20.05	21.29	22.40	21.78	23.31	24.99
6	25.40	25.92	19.71	20.94	---	20.43	20.19	21.39	22.52	21.83	23.31	25.08
7	25.45	25.92	19.75	21.11	---	20.50	20.23	21.43	22.54	21.94	23.38	25.16
8	25.50	25.90	19.91	21.19	---	20.50	20.24	21.44	22.47	22.04	23.44	25.20
9	25.56	25.91	20.08	21.26	---	20.37	20.38	21.42	22.25	22.15	23.48	25.24
10	25.61	25.91	20.28	21.43	---	20.46	20.50	21.45	22.06	22.27	23.60	25.26
11	25.64	25.82	20.34	21.51	---	20.47	20.61	21.49	22.04	22.37	23.63	25.25
12	25.54	25.41	20.29	21.65	---	20.38	20.71	21.55	22.09	22.44	23.66	25.25
13	25.60	24.97	19.68	21.71	---	20.20	20.81	21.69	22.19	22.32	23.72	25.31
14	25.62	24.58	19.12	21.82	---	19.67	20.88	21.80	22.25	22.09	23.81	25.33
15	25.58	24.18	18.61	21.97	---	19.00	20.93	21.86	22.17	21.90	23.88	25.37
16	25.54	23.80	18.63	22.07	---	18.82	21.06	21.88	22.19	21.96	23.98	25.38
17	25.54	23.02	18.81	22.10	---	18.69	21.15	21.88	22.22	22.04	24.12	25.44
18	25.56	22.54	19.04	---	---	18.76	21.24	21.88	22.29	22.07	24.18	25.51
19	25.56	22.21	19.25	---	---	[illegible].80	21.34	21.88	22.40	22.12	24.25	25.58
20	25.59	22.17	19.40	---	20.04	18.75	21.42	21.91	22.50	22.16	24.30	25.67
21	25.55	22.14	19.38	---	19.98	18.41	21.42	21.98	22.58	22.17	24.39	25.72
22	25.58	22.18	19.35	---	19.88	17.90	21.31	22.04	22.60	22.27	24.48	25.72
23	25.61	22.29	19.61	---	19.88	17.79	21.10	22.10	22.56	22.39	24.52	25.69
24	25.59	22.38	19.61	---	19.87	18.08	20.90	22.17	22.52	22.52	24.62	25.70
25	25.62	22.41	19.57	---	19.58	18.10	20.81	22.11	22.51	22.64	24.65	25.73
26	25.65	22.40	19.56	---	19.84	18.68	20.94	21.85	22.61	22.75	24.71	25.76
27	25.62	21.90	19.64	---	19.90	18.88	21.00	22.01	22.73	22.87	24.69	25.78
28	25.66	20.99	19.69	---	20.01	18.96	21.02	22.09	22.79	22.92	24.66	25.79
29	25.68	20.27	19.88	---	---	18.92	21.07	22.13	22.82	22.96	24.73	25.71
30	25.68	19.31	19.89	21.59	---	19.02	21.10	22.14	22.82	23.02	24.83	25.61
31	25.71	---	19.92	---	---	19.28	---	22.25	---	23.06	24.82	---
MAX	25.71	25.92	20.34	---	---	20.50	21.42	22.25	22.82	23.06	24.83	25.79

WTR YR 1986 MEAN 22.34 HIGH 17.79 MAR 23 LOW 25.92 NOV 5 AND OTHERS

7378

404218083503700. Local number, HN-1.
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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.65	16.05	14.05	14.55	14.55	14.35	---	12.20	13.35	12.55	13.70	15.15
2	16.45	17.04	14.60	14.75	14.30	14.65	---	12.60	13.30	12.55	13.85	15.20
3	16.20	16.60	14.25	14.85	14.80	15.15	---	12.35	13.85	13.10	14.50	14.60
4	16.00	17.20	14.90	14.25	14.25	14.90	---	12.50	13.20	12.85	14.35	13.85
5	16.00	17.50	13.95	14.60	13.80	14.65	---	13.05	14.05	12.35	14.55	14.05
6	16.10	16.80	15.10	15.35	14.00	14.35	---	12.75	12.30	12.85	13.85	14.30
7	16.70	18.70	16.20	15.10	13.70	14.55	---	12.40	12.95	13.10	13.80	14.15
8	16.50	18.80	17.70	15.55	13.90	15.05	---	12.65	12.75	13.65	14.05	14.10
9	17.45	17.15	15.40	15.35	14.05	14.75	---	13.30	12.85	12.30	14.20	14.00
10	17.00	18.20	14.15	15.45	13.45	13.95	---	13.35	12.90	12.75	14.15	14.00
11	16.85	18.50	13.75	15.10	13.70	13.45	---	13.60	12.55	12.80	14.65	13.80
12	15.90	17.45	13.65	15.05	14.05	14.05	---	12.45	12.65	12.55	14.95	13.45
13	16.30	16.65	13.45	15.30	14.55	13.15	---	12.65	13.00	12.60	14.85	14.35
14	16.40	16.85	13.75	15.15	13.75	12.70	---	12.60	13.75	13.05	14.40	14.35
15	16.75	16.50	13.65	15.65	14.20	13.05	---	12.65	12.90	12.50	14.65	14.75
16	16.85	16.25	13.60	15.05	14.30	13.65	---	12.65	13.15	12.90	15.00	14.75
17	16.65	16.10	13.80	15.85	14.00	12.65	---	12.95	12.85	12.85	15.00	14.80
18	17.25	15.60	14.15	15.40	13.85	13.25	---	12.45	12.65	13.05	15.10	14.45
19	16.85	15.85	14.35	14.95	14.15	12.60	---	13.10	12.10	13.05	15.05	14.35
20	17.15	16.15	13.45	15.05	14.35	13.50	---	13.20	13.35	12.75	15.10	14.20
21	17.00	15.35	14.35	14.35	13.80	13.35	---	13.05	13.30	13.00	15.80	14.10
22	16.55	15.60	14.45	14.50	14.45	12.80	---	12.65	12.85	12.85	15.45	14.25
23	16.85	15.20	14.15	14.55	14.00	13.20	---	12.80	13.35	13.25	15.25	13.90
24	16.40	15.25	14.35	14.40	14.00	12.80	---	12.85	12.75	13.35	15.35	13.65
25	17.30	15.70	14.15	15.60	13.55	12.60	---	12.85	12.70	13.15	15.05	13.25
26	16.95	16.15	14.45	14.55	13.60	13.05	---	12.50	13.40	12.55	14.75	13.45
27	16.40	14.95	14.80	14.10	14.40	12.65	---	12.70	13.25	13.15	18.05	13.55
28	17.25	14.95	15.35	14.55	14.20	13.00	---	12.70	13.25	13.15	18.25	13.55
29	16.30	14.30	14.40	14.40	---	---	12.75	13.50	13.45	12.50	15.75	13.45
30	16.25	15.05	15.15	14.45	---	---	12.75	12.95	13.25	12.90	14.55	12.85
31	16.85	---	14.45	14.05	---	---	---	13.55	---	13.60	14.30	---
MAX	17.45	18.80	17.70	15.85	14.80	---	---	13.60	14.05	13.65	18.25	15.20

WTR YR 1986 MEAN 14.35 HIGH 12.10 JUN 19 LOW 18.80 NOV 8

393200082235300. Local number, HG-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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 10, 1985	18.47	Apr. 23, 1986	19.05

7378

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 1,000 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. 99, 1950.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.91	12.45	6.94	6.75	7.91	7.86	7.96	10.34	7.97	10.03	10.75	8.58
2	13.83	12.45	9.80	7.55	7.89	7.01	8.01	9.26	8.34	10.03	10.81	10.73
3	12.05	10.85	10.27	7.82	9.04	7.39	8.98	8.09	8.46	9.83	8.34	11.11
4	11.70	11.90	8.67	7.96	8.02	7.49	8.99	8.26	8.34	9.94	10.28	11.15
5	11.38	12.12	10.48	8.38	7.66	7.91	8.11	10.04	8.51	7.20	10.60	9.86
6	10.43	12.35	10.54	9.53	7.74	7.95	6.72	10.69	10.00	7.65	9.63	9.90
7	13.43	12.49	10.57	9.62	7.39	8.25	7.96	8.97	8.38	10.30	9.72	8.78
8	11.89	13.00	8.59	9.71	7.59	7.88	8.01	10.32	8.26	10.77	9.92	10.88
9	11.91	13.03	10.47	10.70	7.38	7.27	9.88	10.81	10.28	10.81	9.99	10.94
10	12.05	11.60	10.83	10.43	7.02	6.81	9.97	9.65	9.87	7.97	9.01	11.56
11	12.05	11.68	10.92	10.13	9.61	8.40	9.63	9.04	9.89	9.85	10.06	11.71
12	11.60	11.69	10.85	8.81	9.55	8.53	8.36	10.44	10.14	7.61	8.95	11.45
13	10.61	11.55	9.96	10.76	8.46	7.28	8.18	9.92	10.20	6.82	9.56	9.52
14	11.25	11.56	10.22	10.75	7.93	6.66	8.92	10.56	9.72	7.70	10.66	10.32
15	11.40	11.34	9.64	11.08	7.28	6.18	8.35	9.20	7.88	9.61	11.03	10.52
16	12.02	10.42	9.50	9.52	7.52	7.01	8.41	8.84	9.89	10.15	9.88	10.89
17	12.48	9.53	10.13	10.45	7.70	7.06	9.18	9.73	9.66	8.57	8.97	9.99
18	12.59	11.12	10.29	8.60	7.86	7.47	9.26	8.68	10.30	8.43	10.66	11.01
19	12.51	11.18	9.87	8.45	7.96	7.64	8.29	9.99	10.69	9.94	10.65	10.42
20	9.75	11.73	9.69	10.60	7.95	7.66	7.59	10.06	8.62	8.41	10.79	10.38
21	11.97	11.54	9.25	8.63	7.74	7.38	7.84	8.70	9.82	10.14	11.08	8.86
22	12.33	11.56	7.98	8.68	6.88	7.30	8.03	8.67	9.01	10.24	11.10	10.62
23	11.67	9.68	9.17	9.35	7.01	5.99	8.31	8.56	10.17	9.92	9.61	10.81
24	12.48	9.51	9.18	9.38	6.92	7.88	9.98	7.15	10.41	10.01	8.79	10.81
25	12.73	8.94	7.81	8.64	9.53	8.87	10.14	8.87	9.30	10.87	10.31	10.70
26	12.72	10.75	7.46	8.20	9.57	8.28	8.48	8.95	9.71	11.01	10.81	10.80
27	10.10	9.59	7.61	8.65	7.43	8.41	8.86	9.13	9.68	8.23	10.87	10.43
28	12.61	8.44	7.62	8.12	7.86	7.77	9.11	7.95	7.98	10.24	10.90	10.43
29	12.99	7.88	7.52	8.15	---	6.46	9.35	9.11	8.09	10.74	10.16	10.90
30	12.49	7.59	8.77	9.82	---	7.12	9.50	9.64	9.75	10.81	10.42	10.21
31	12.19	---	7.62	8.55	---	7.60	---	9.09	---	9.25	8.76	---
MAX	13.91	13.03	10.92	11.08	9.61	8.87	10.14	10.81	10.69	11.01	11.10	11.71

WTR YR 1986 MEAN 9.53 HIGH 5.99 MAR 23 LOW 13.91 OCT 1

000262

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.00	36.58	8.46	35.23	18.32	8.63	35.05	22.36	24.02	27.84		
2	10.06	36.29	8.61	34.95	15.68	8.37	20.46	22.53	24.72	27.17		
3	10.09	36.25	8.67	35.35	14.00	17.89	17.01	22.57	24.82	27.24		
4	10.01	36.21	8.57	35.68	12.94	23.89	15.58	22.44	24.65	27.35		
5	9.87	37.32	8.45	35.98	12.09	27.35	14.15	22.77	24.75	28.09		
6	9.83	37.77	8.50	35.22	12.18	28.01	12.87	23.13	24.89	27.92		
7	9.82	38.19	8.46	36.07	11.23	29.75	17.05	23.22	25.02	28.60		
8	10.00	38.35	8.29	36.27	10.77	30.91	14.56	23.41	24.62	29.15		
9	10.10	29.72	8.37	36.27	10.21	31.01	13.01	23.75	24.67	29.13		
10	9.98	22.72	8.41	36.45	9.68	32.19	12.39	23.94	28.01	29.12		
11	9.96	18.92	8.41	36.47	9.25	33.99	11.68	23.76	32.33	28.70		
12	9.97	16.54	8.48	35.43	9.23	34.18	11.43	23.66	34.47	28.43		
13	9.90	14.75	8.48	35.24	9.21	32.02	11.28	23.72	35.63	28.01		
14	9.74	13.59	8.30	36.71	9.05	32.42	10.98	24.01	37.17	27.97		
15	9.79	12.75	8.20	37.82	8.78	32.73	10.76	24.16	38.52	27.86		
16	11.78	11.92	18.77	38.39	8.66	32.92	10.74	23.66	38.94	28.19		
17	22.34	11.20	25.60	37.44	12.31	32.99	10.82	23.62	35.71	28.66		
18	25.06	10.65	28.41	36.67	21.35	32.98	10.82	23.71	32.59	28.97		
19	27.80	10.18	31.04	35.99	27.59	33.09	10.73	24.08	31.68	29.09		
20	31.54	9.95	31.65	35.59	20.93	33.34	10.57	24.30	31.20	28.94		
21	33.90	9.88	31.17	36.36	15.89	33.34	10.50	24.18	30.38	28.69		
22	34.86	9.51	31.00	37.90	13.49	33.32	10.73	24.15	29.75	---		
23	35.76	9.47	32.74	38.04	11.71	32.15	10.93	24.38	29.36	---		
24	36.44	9.29	33.09	36.42	10.49	32.77	14.98	24.28	29.73	---		
25	37.46	9.26	32.70	35.19	9.89	33.48	17.83	24.53	29.96	---		
26	37.55	8.93	32.54	34.13	9.40	33.70	19.46	24.38	29.99	---		
27	34.13	8.74	33.77	34.59	8.95	32.76	20.79	23.48	28.89	---		
28	37.59	8.62	34.51	35.30	8.91	32.66	21.69	23.78	29.03	---		
29	38.60	8.48	35.09	35.94	---	33.22	22.12	23.97	29.00	---		
30	38.28	8.45	35.34	29.21	---	33.63	22.20	24.01	28.59	---		
31	37.34	---	35.39	22.53	---	35.02	---	24.00	---	---		
MAX	38.60	38.35	35.39	38.39	27.59	35.02	35.05	24.53	38.94	---		

WTR YR 1986 MEAN 23.57 HIGH 8.20 DEC 15 LOW 38.94 JUN 16

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 0.20 ft below land-surface datum, Mar. 30, 1986.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.60	18.25	6.00	17.65	16.15	9.35	11.55	10.65	12.05	18.10	19.20	---
2	15.70	18.25	5.90	17.70	16.15	9.30	12.05	10.65	12.15	18.20	19.40	21.15
3	15.80	18.30	16.35	17.80	16.10	9.30	13.25	10.60	12.15	19.55	17.95	21.05
4	15.75	18.45	16.75	17.80	16.30	10.00	13.25	9.55	11.95	15.25	17.75	21.30
5	15.80	18.25	16.90	17.85	17.80	10.65	12.95	10.25	11.95	15.70	17.80	21.05
6	19.50	18.55	17.05	18.65	18.25	9.70	12.00	8.90	16.20	12.65	17.90	21.65
7	19.70	18.35	17.20	15.85	18.20	9.25	12.15	9.60	15.65	12.60	17.95	21.45
8	15.00	18.60	17.15	16.10	18.20	9.30	8.10	10.30	16.65	12.65	17.95	19.45
9	17.20	18.80	17.30	21.45	18.15	9.15	8.20	10.45	18.50	18.10	19.40	19.40
10	18.75	18.85	17.20	15.20	18.20	9.10	7.95	8.75	11.55	18.40	19.40	21.45
11	18.55	17.00	17.10	15.25	18.15	9.15	7.60	8.15	14.70	18.40	19.50	20.95
12	19.35	20.45	16.90	15.75	18.20	13.60	6.85	8.05	14.75	17.75	14.20	19.45
13	16.65	20.45	16.80	16.20	18.30	13.95	6.90	8.05	17.70	18.35	18.85	19.35
14	16.10	20.60	16.80	16.20	18.25	13.90	7.15	8.40	9.60	17.85	19.35	19.40
15	16.60	20.25	16.80	16.25	18.35	13.90	6.95	10.35	9.25	12.50	19.25	21.35
16	16.75	20.00	16.75	16.30	18.35	8.55	8.40	11.35	11.95	17.35	19.55	21.45
17	16.85	19.30	16.70	16.10	18.30	5.15	7.05	11.55	11.05	18.65	19.40	19.50
18	16.85	10.05	17.00	16.10	18.20	4.55	12.85	11.65	11.00	18.30	19.75	19.45
19	16.85	17.45	17.05	16.00	17.70	11.65	10.10	11.35	9.55	18.50	20.30	19.50
20	16.80	18.00	17.10	15.80	16.90	10.35	14.40	11.35	9.35	18.55	19.95	19.55
21	16.90	18.00	16.95	15.80	10.15	7.10	14.00	9.85	11.10	18.65	19.80	21.40
22	16.70	17.95	17.10	15.90	9.85	6.85	9.15	9.20	11.45	13.10	19.80	21.00
23	16.95	18.05	17.00	15.90	9.55	.50	9.45	10.40	11.65	12.80	19.90	20.85
24	16.80	14.90	17.05	15.85	9.50	.04	9.65	11.35	11.75	17.55	19.60	21.25
25	16.75	17.55	17.15	15.80	9.40	-0.08	9.80	10.35	11.35	18.80	20.65	20.80
26	16.70	17.85	17.25	15.75	9.30	-0.09	12.00	11.30	11.75	18.35	20.70	20.40
27	16.70	17.90	17.30	15.85	9.30	-0.10	12.20	11.60	11.80	18.35	20.00	20.85
28	---	17.65	17.35	15.90	9.35	-0.07	13.55	11.20	16.20	18.95	19.30	19.60
29	---	17.80	17.45	16.15	---	-0.10	14.50	11.75	17.60	19.00	19.20	19.30
30	17.70	6.70	17.50	16.20	---	-0.20	14.45	11.90	16.66	19.15	19.20	19.50
31	18.10	---	17.55	15.95	---	12.50	---	12.00	---	19.10	19.15	---
MAX	---	20.60	17.55	21.45	18.35	13.95	14.50	12.00	18.50	19.55	20.70	---

WTR YR 1986 MEAN 15.04 HIGH -0.20 MAR 30 LOW 21.65 SEP 6

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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 30, 1985	8.28	Aug. 25, 1986	7.50	Sept. 2, 1986	7.60	Sept. 29, 1986	8.35
Apr. 29, 1986	5.94						

7378

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 contiruous, periodic thereafter.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 11.75 ft below land-surface datum, Sept.18, 1946; minimum daily low, 30.35 ft below land-surface datum Apr. 23, 1951.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL
Oct. 10, 1985	36.46

BEST COPY AVAILABLE

7378

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.50	28.58	6.60	6.76	6.49	5.63	5.75	5.87	6.18	7.05	22.41	13.86
2	12.34	16.79	6.45	6.76	6.46	5.61	5.85	6.02	6.35	6.94	23.87	19.53
3	11.23	14.29	6.73	6.84	6.43	5.76	5.87	6.10	6.37	8.62	24.47	23.82
4	10.62	13.20	6.73	6.84	6.23	5.82	5.93	6.07	6.36	6.89	24.75	24.37
5	10.06	12.58	6.69	6.81	5.89	5.81	5.95	5.98	6.36	6.82	24.98	14.26
6	9.67	12.08	6.71	6.99	5.49	5.70	5.95	6.04	6.37	6.84	25.07	12.17
7	9.55	11.66	6.79	7.18	5.04	5.87	5.99	6.22	6.32	6.86	23.47	11.28
8	9.54	11.42	6.74	7.19	5.05	5.88	5.96	7.04	6.36	6.82	24.66	10.76
9	9.52	11.09	6.83	7.12	5.10	5.73	6.03	6.37	6.47	6.74	25.12	10.31
10	9.50	10.92	6.89	7.01	5.14	5.68	6.03	6.30	6.42	6.66	25.37	9.96
11	9.40	10.67	6.84	7.03	5.24	5.61	6.06	6.26	6.36	6.55	25.65	9.69
12	9.43	10.32	6.41	6.91	5.37	5.47	6.17	6.30	6.44	6.41	25.81	9.56
13	9.35	10.08	5.84	7.05	5.49	5.14	6.24	6.58	7.95	6.34	25.89	9.60
14	9.30	9.69	5.57	7.10	5.47	4.89	6.24	6.50	6.71	6.36	25.99	9.58
15	18.81	9.37	5.55	7.18	5.69	4.71	6.23	6.57	6.55	6.39	26.19	9.44
16	23.98	9.18	5.62	7.16	5.68	4.86	6.26	6.46	6.55	6.37	26.34	9.49
17	25.51	8.94	5.67	7.10	5.72	4.94	6.36	6.36	6.68	6.41	26.51	9.45
18	26.18	8.54	5.88	7.07	5.71	4.94	6.39	6.17	6.75	6.41	26.69	9.30
19	26.74	8.40	5.94	6.84	5.68	4.90	6.36	6.13	6.78	6.44	26.81	20.98
20	27.03	8.11	5.98	6.61	5.60	4.90	6.25	6.09	6.87	6.50	26.90	23.89
21	27.11	8.09	6.05	6.48	5.47	4.97	6.03	6.07	6.92	6.67	17.77	24.87
22	27.37	8.08	6.01	6.46	5.47	5.02	5.83	6.06	6.84	17.60	14.47	16.82
23	27.50	7.89	5.98	6.46	5.27	5.15	5.79	6.09	6.86	20.61	13.08	12.77
24	27.55	7.85	6.23	6.41	5.27	5.29	5.76	6.16	6.91	21.93	12.31	22.55
25	27.84	7.85	6.34	6.25	5.38	5.26	5.66	6.18	6.99	22.68	11.82	24.59
26	28.05	7.83	6.27	6.18	5.32	5.33	5.69	6.16	7.03	23.14	11.44	25.05
27	28.09	7.64	6.45	6.18	5.43	5.45	5.73	6.13	7.01	23.52	11.07	25.13
28	28.10	7.53	6.52	6.23	5.55	5.48	5.70	6.15	6.99	23.81	20.94	25.11
29	28.17	7.18	6.58	6.33	---	5.50	5.84	6.16	7.03	24.03	23.27	24.95
30	28.38	6.93	6.60	6.48	---	5.64	5.85	6.10	7.08	24.21	14.74	24.97
31	28.56	---	6.67	6.50	---	5.68	---	6.10	---	24.30	20.43	---
MAX	28.56	28.58	6.89	7.19	6.49	5.88	6.39	7.04	7.95	24.30	26.90	25.13

WTR YR 1986 MEAN 10.29 HIGH 4.71 MAR 15 LOW 28.58 NOV 1

000267

7378

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. 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.--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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.20	13.47	9.10	10.57	10.18	9.50	10.10	10.35	10.93	11.53	11.90	13.25
2	12.95	13.40	9.45	10.58	10.09	9.68	10.23	10.36	10.99	11.20	12.11	13.34
3	13.09	13.32	9.80	10.73	9.88	9.79	10.15	10.21	10.95	10.43	12.23	13.27
4	13.14	13.53	9.96	10.66	9.76	9.95	10.34	10.41	10.92	10.24	12.41	13.22
5	13.07	13.54	10.05	10.68	8.08	9.95	10.38	10.38	10.98	10.36	12.27	13.17
6	13.02	13.21	10.14	10.96	7.20	9.50	10.24	10.42	11.06	10.62	12.64	13.14
7	13.05	13.24	10.27	10.92	7.46	9.51	10.39	10.62	10.90	10.73	12.54	13.04
8	13.15	13.12	10.30	10.95	7.68	9.60	10.50	10.66	10.89	10.76	12.59	13.04
9	13.23	13.15	10.40	10.99	7.82	9.60	10.45	10.62	11.10	10.65	12.61	13.14
10	13.07	13.16	10.37	10.90	8.29	9.58	10.38	10.72	10.94	10.23	12.61	13.22
11	13.12	13.02	10.33	10.89	8.65	9.05	10.45	10.78	11.09	10.05	12.53	13.31
12	12.78	12.82	8.23	10.88	9.01	8.45	10.56	10.92	11.04	9.68	12.64	13.00
13	12.65	12.53	7.71	11.04	9.28	8.20	10.52	10.96	11.15	9.54	12.70	13.06
14	13.05	12.09	8.01	11.01	9.27	7.42	10.71	10.87	11.02	9.73	12.65	13.01
15	12.95	11.81	8.45	10.95	9.36	7.78	10.72	11.13	10.85	9.91	13.08	12.99
16	13.00	11.51	8.62	10.98	9.34	7.93	10.63	11.09	11.29	10.00	12.96	12.96
17	12.80	11.03	9.06	11.03	9.94	8.28	10.72	10.65	11.20	10.07	13.15	12.93
18	13.00	10.99	9.53	10.80	9.64	8.48	10.76	10.65	11.28	10.25	13.55	12.83
19	12.92	11.00	9.75	10.28	9.07	8.00	10.74	10.54	11.36	10.46	13.79	12.79
20	13.08	11.00	9.61	9.54	8.38	7.85	10.50	10.37	11.37	10.56	13.49	12.79
21	13.18	11.18	9.97	9.25	8.28	8.22	9.70	10.55	11.32	10.78	13.56	12.97
22	13.20	11.19	9.82	9.21	7.83	8.55	8.80	10.56	11.30	10.84	13.55	13.02
23	13.37	11.09	9.99	9.43	8.32	8.83	8.99	10.63	11.55	10.97	13.35	13.12
24	13.45	11.18	10.05	9.51	9.15	9.15	9.24	10.66	11.46	11.22	13.33	13.21
25	13.42	11.14	10.06	9.56	9.04	9.21	9.35	10.58	11.38	11.48	13.45	12.35
26	13.48	11.33	10.10	9.54	9.03	9.44	9.52	10.65	11.72	11.63	13.40	11.84
27	13.34	10.83	10.25	10.02	9.23	9.44	9.55	10.49	11.98	11.62	13.21	10.69
28	13.59	9.82	10.33	9.97	9.32	9.62	10.20	10.67	11.98	11.82	13.20	9.98
29	13.65	9.11	10.36	10.10	---	9.70	10.18	10.61	11.66	11.94	13.26	9.88
30	13.65	8.94	10.74	10.14	---	9.81	10.23	10.70	11.66	11.99	13.10	9.99
31	13.70	---	10.61	10.20	---	10.13	---	10.82	---	11.80	12.98	---
MAX	13.70	13.54	10.74	11.04	10.18	10.13	10.76	11.13	11.98	11.99	13.79	13.35

WTR YR 1986 MEAN 10.97 HIGH 7.20 FEB 6 LOW 13.79 AUG 19

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.77	17.83	17.17	15.08	14.33	13.56	13.63	11.96	12.71	13.48	13.20	15.58
2	15.87	17.77	16.98	15.05	14.29	13.46	13.52	11.96	12.65	13.38	13.31	15.68
3	15.92	17.76	16.98	14.92	14.30	13.34	13.45	11.98	12.63	13.50	13.43	15.61
4	15.97	17.74	---	14.86	14.21	13.29	13.34	11.92	12.54	13.47	13.50	15.55
5	15.99	17.74	---	14.68	14.42	13.21	13.25	11.83	12.48	13.59	13.57	15.54
6	16.05	17.70	---	14.63	14.50	13.06	13.14	11.76	12.40	13.56	13.64	15.57
7	16.20	17.63	---	14.63	14.24	13.16	13.04	11.77	12.49	13.50	13.70	15.61
8	16.27	17.58	---	14.72	14.08	13.17	12.96	11.73	12.65	13.43	13.77	15.64
9	16.33	17.52	---	14.72	14.12	13.26	12.86	11.72	12.64	13.33	13.81	15.74
10	16.38	17.37	---	14.72	14.26	13.40	12.78	11.70	12.63	13.29	13.81	15.88
11	16.46	17.32	---	14.75	14.17	13.64	12.70	11.69	12.56	13.29	13.86	16.00
12	16.50	17.56	---	14.73	14.10	13.99	12.60	11.64	12.49	13.43	13.93	15.90
13	16.46	17.63	---	14.64	14.05	14.15	12.58	11.60	12.54	13.55	13.98	15.88
14	16.56	17.72	---	14.64	14.02	14.23	12.55	11.57	12.54	13.60	13.98	15.86
15	16.72	17.75	---	14.58	13.95	14.28	12.51	11.56	12.49	13.76	14.00	15.82
16	16.94	17.72	---	14.51	13.88	14.30	12.41	11.56	12.42	13.75	14.03	16.10
17	17.06	17.52	---	14.48	13.79	14.22	12.36	11.87	12.42	13.72	14.07	16.27
18	17.19	17.51	---	14.40	13.68	14.13	12.36	12.01	12.41	13.68	14.14	16.16
19	17.30	17.43	---	14.46	13.70	14.14	12.38	12.19	12.34	13.66	14.23	16.07
20	17.42	17.36	---	14.56	13.88	14.39	12.32	12.38	12.31	13.60	14.45	16.04
21	17.61	17.33	---	14.67	13.83	14.56	12.25	12.56	12.59	13.54	15.07	15.99
22	17.78	17.25	---	14.66	13.95	14.65	12.09	12.72	12.76	13.53	15.46	15.95
23	17.83	17.11	---	14.72	14.10	14.73	12.18	12.66	12.86	13.51	15.44	15.87
24	17.80	17.07	---	14.72	14.17	14.72	12.30	13.00	12.88	13.47	15.59	15.83
25	17.83	16.99	---	14.67	14.10	14.58	12.30	13.03	12.92	13.39	15.71	15.83
26	17.83	16.93	---	14.55	14.06	14.38	12.23	13.07	12.92	13.32	15.82	15.84
27	17.83	17.04	---	14.44	13.69	14.23	12.17	13.06	12.88	13.25	15.91	16.06
28	17.86	17.26	---	14.40	13.64	14.13	12.08	13.00	13.13	13.19	15.86	16.13
29	17.86	17.41	---	14.35	---	13.97	12.03	12.97	13.43	13.12	15.79	16.10
30	17.89	17.33	15.00	14.40	---	13.84	12.03	12.88	13.53	13.07	15.71	16.09
31	17.89	---	15.03	14.39	---	13.73	---	12.79	---	13.07	15.60	---
MAX	17.89	17.83	---	15.08	14.50	14.73	13.63	13.07	13.53	13.76	15.91	16.27

WTR YR 1986 MEAN 14.42 HIGH 11.56 MAY 15 AND OTHERS LOW 17.89 OCT 30 AND OTHERS

7378

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	---	169.20	166.90
2									---	170.30	169.20	168.20
3									---	170.40	169.10	168.30
4									---	168.65	169.40	168.30
5									---	167.90	169.50	168.60
6									---	166.50	169.60	168.90
7									---	169.30	169.50	168.90
8									---	169.30	168.20	169.10
9									---	167.50	168.40	169.30
10									---	167.60	160.10	169.15
11									---	167.40	167.80	169.10
12									---	166.50	168.20	169.30
13									---	166.30	168.80	169.40
14									---	166.10	169.10	168.90
15									---	168.10	169.10	168.45
16									---	168.10	167.90	169.20
17									---	166.70	168.40	169.30
18									---	168.10	168.70	168.80
19									---	168.40	169.20	169.20
20									---	167.40	169.50	169.20
21									---	167.95	169.70	167.30
22									---	168.50	169.90	168.00
23									---	168.90	169.90	168.20
24									---	168.70	169.70	168.60
25									---	169.00	168.80	168.70
26									---	169.00	169.20	168.80
27									171.10	167.90	169.30	168.90
28									---	168.50	168.00	168.90
29									160.80	169.00	169.35	168.90
30									---	169.20	162.50	---
31									---	169.00	160.70	---
MAX									---	---	169.90	---

WTR YR 1986 MEAN 168.34 HIGH 160.10 AUG 10 LOW 171.10 JUN 27

000270

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, 76.82 ft below land-surface datum, June 17, 1986; minimum daily low, 60.13 ft below land-surface datum, Feb. 14, 1967.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74.40			---	76.23	75.79	74.55	75.28	74.91	75.43	74.93	75.55
2	75.08			---	76.18	75.67	74.58	75.44	76.29	74.42	74.91	75.54
3	75.13			---	75.75	75.73	74.44	75.49	76.38	75.35	74.96	75.49
4	74.93			---	75.70	75.69	74.44	75.40	76.23	75.43	74.97	75.51
5	74.68			---	76.07	75.64	74.37	74.80	76.23	75.44	74.88	75.72
6	74.45			---	76.07	75.49	74.33	74.99	76.19	73.69	74.75	75.54
7	74.28			---	76.16	75.90	73.92	75.13	76.13	75.34	74.69	75.55
8	74.49			76.45	75.85	75.90	73.51	75.42	76.34	75.34	74.75	75.84
9	74.55			76.16	75.99	75.44	74.17	75.61	76.21	75.28	74.83	75.50
10	74.93			76.06	76.00	75.31	74.13	75.64	76.31	75.43	74.82	75.16
11	75.11			76.03	76.03	75.03	74.01	75.58	76.32	75.37	74.95	75.05
12	74.85			75.86	76.05	75.11	74.01	75.55	76.68	75.42	74.99	75.52
13	74.48			75.99	76.10	75.28	73.76	75.65	76.75	75.49	74.93	75.60
14	73.88			76.17	75.87	75.30	73.92	76.55	76.67	75.42	74.82	75.18
15	74.09			76.22	76.04	75.42	74.13	76.63	76.66	75.44	74.95	75.13
16	75.14			76.15	75.95	75.48	74.13	76.57	76.53	75.34	74.99	75.28
17	75.27			76.00	75.45	75.48	74.17	76.55	76.82	75.45	75.08	75.28
18	75.15			75.84	75.59	75.08	74.24	76.50	76.78	75.40	75.24	75.52
19	75.19			75.59	75.83	75.22	74.08	76.55	76.55	75.33	75.25	75.53
20	75.21			75.94	75.82	75.42	73.90	76.63	76.58	75.24	75.28	75.71
21	74.94			75.98	76.07	75.42	73.96	76.57	76.53	75.32	75.44	75.52
22	74.83			76.42	76.01	75.23	74.61	76.59	76.40	75.42	75.49	75.52
23	75.00			76.47	75.92	74.82	74.92	76.57	76.25	75.45	75.42	75.53
24	75.30			76.35	75.88	75.10	75.22	76.64	76.50	75.23	75.53	75.66
25	75.33			76.06	75.61	74.92	75.41	76.53	76.55	75.19	75.53	75.88
26	75.15			75.98	75.51	74.93	74.75	76.31	76.25	75.21	75.46	76.02
27	75.31			75.91	75.77	74.80	74.90	76.46	76.04	75.06	75.69	75.79
28	75.26			75.92	75.83	74.76	75.43	76.53	75.13	75.05	75.86	74.51
29	75.24			76.35	---	74.65	74.95	76.52	74.79	75.06	75.91	74.68
30	74.31			76.41	---	74.61	75.01	76.32	75.41	75.03	75.76	74.83
31	---			76.30	---	74.42	---	76.34	---	74.97	75.73	---
MAX	---			---	76.23	75.90	75.43	76.64	76.82	75.49	75.91	76.02

WTR YR 1986 MEAN 75.45 HIGH 73.51 APR 8 LOW 76.82 JUN 17

7378

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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 17, 1985	12.29	Apr. 9, 1986	9.90

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, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT										
01...	1045	710	7.90	14.0	12.5	12	330	27	78	33
APR										
03...	0830	710	7.40	4.0	12.5	19	340	47	81	33
AUG										
27...	1000	725	7.50	16.5	13.5	<10	350	45	83	34

DATE	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	ARSENIC DISSOLVED (UG/L AS AS)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
OCT										
01...	304	64	24	0.9	442	--	--	1	10	<10
APR										
03...	291	62	26	0.9	429	<0.01	<0.10	--	--	--
AUG										
27...	302	64	29	0.9	347	<0.01	<0.10	1	20	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
01...	7	7	1300	3	3	42	40	22	1.6
APR									
03...	--	--	1400	--	--	42	--	--	0.3
AUG									
27...	4	2	910	<5	<5	44	30	22	1.4

7378

393757084173600. Local number MT-828.
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 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT										
01...	1315	870	7.40	14.5	14.5	<10	360	71	90	33
APR										
03...	1030	845	7.60	7.0	15.0	28	350	69	89	32
AUG										
27...	0800	860	7.40	15.0	15.0	<10	380	71	95	34

DATE	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	ARSENIC DISSOLVED (UG/L AS AS)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
OCT										
01...	290	61	72	0.3	521	--	--	<1	<10	<10
APR										
03...	285	62	67	0.4	490	0.01	1.70	--	--	--
AUG										
27...	306	58	69	0.3	428	<0.01	1.70	1	20	<10

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
01...	18	6	15	5	1	190	40	19	1.4
APR									
03...	--	--	23	--	--	190	--	--	0.6
AUG									
27...	9	6	37	14	5	190	80	17	1.2

394012084151700. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.89	34.76	30.60	30.08	30.85	29.10	28.39	30.17	31.81	31.80	31.46	32.89
2	34.02	34.70	30.65	30.27	30.87	29.25	28.59	30.29	31.94	31.62	31.47	32.96
3	34.12	33.97	30.64	30.36	30.98	29.45	28.70	30.12	32.00	31.33	31.45	33.09
4	34.29	34.19	30.57	30.29	30.99	29.60	28.79	30.23	32.06	31.03	31.65	33.18
5	34.24	34.32	30.47	30.29	30.41	29.67	28.95	30.28	32.11	30.83	31.81	33.25
6	34.13	34.44	30.49	30.45	30.11	29.65	29.00	30.51	32.12	30.83	32.09	33.27
7	34.29	34.50	30.47	30.60	29.81	29.60	29.19	30.72	31.98	30.95	32.27	33.28
8	34.35	34.59	30.52	30.65	29.45	29.50	29.10	30.91	31.68	31.03	32.29	33.31
9	34.47	34.63	30.68	30.68	28.96	29.41	29.18	30.94	31.47	30.92	32.37	33.32
10	34.48	34.60	30.64	30.67	28.82	29.57	29.29	30.81	31.51	31.03	32.42	33.36
11	34.63	34.44	30.70	30.73	28.79	29.57	29.31	30.95	31.57	31.05	32.55	33.38
12	34.63	34.30	30.49	30.77	28.73	29.31	29.32	31.11	31.67	31.05	32.65	33.30
13	33.77	34.12	29.98	30.85	28.80	29.28	29.32	31.25	31.69	30.85	32.73	33.25
14	33.53	34.07	29.33	30.92	28.79	28.95	29.59	31.31	31.70	30.66	32.80	33.14
15	33.49	33.86	28.89	30.86	28.80	28.35	29.57	31.43	31.71	30.62	32.87	33.24
16	34.06	33.62	28.67	30.92	28.77	28.03	29.73	31.49	31.83	30.69	32.88	33.30
17	34.39	33.42	28.79	30.94	28.84	27.89	29.88	31.33	31.87	30.70	32.62	33.29
18	34.41	33.23	28.91	30.95	28.95	27.98	29.86	31.14	31.93	30.71	32.72	33.28
19	34.28	33.24	29.14	30.95	28.73	28.02	29.78	31.31	32.04	30.71	32.83	33.27
20	34.15	32.92	29.17	30.83	28.91	28.02	29.76	31.44	32.13	30.65	32.90	33.23
21	34.14	32.88	29.27	30.72	28.92	27.66	29.78	31.47	32.13	30.80	32.95	33.11
22	34.27	32.83	29.37	30.58	28.64	27.61	29.69	31.53	32.02	30.92	33.00	33.05
23	34.36	32.83	29.45	30.53	28.56	27.69	29.57	31.59	32.04	31.00	33.01	33.06
24	34.43	32.83	29.45	30.39	28.74	27.87	29.44	31.58	32.13	31.12	33.00	33.08
25	34.47	32.90	29.47	30.33	28.91	27.98	29.60	31.57	32.15	31.14	33.09	33.08
26	34.35	32.99	29.55	30.22	28.91	28.02	29.65	31.59	32.12	31.16	33.15	32.95
27	34.17	32.87	29.69	30.46	28.98	28.06	29.52	31.65	32.11	31.20	33.08	32.92
28	34.45	32.60	29.72	30.53	29.06	28.06	29.81	31.76	32.13	31.28	33.07	32.68
29	34.49	32.03	29.92	30.75	---	28.04	29.96	31.77	31.97	31.26	33.09	32.54
30	34.65	31.21	29.93	30.84	---	28.20	30.04	31.78	31.85	31.31	33.09	32.61
31	34.73	---	29.97	30.73	---	28.24	---	31.80	---	31.39	32.95	---
MAX	34.73	34.76	30.70	30.95	30.99	29.67	30.04	31.80	32.15	31.80	33.15	33.38

WTR YR 1986 MEAN 31.30 HIGH 27.61 MAR 22 LOW 34.76 NOV 1

7378

MONTGOMERY COUNTY--Continued

394025084162800. Local number, MT-49.
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 Geodtic 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.58	22.98	19.12	19.16	19.71	18.31	17.85	19.15	20.11	20.40	20.40	21.27
2	22.62	23.02	19.17	19.20	19.73	18.33	17.90	19.23	20.44	20.02	20.44	21.59
3	22.63	22.82	19.31	19.29	19.68	18.66	17.99	19.25	20.45	19.69	20.25	21.67
4	22.64	22.94	19.44	19.28	19.55	18.77	18.05	19.04	20.53	19.47	20.54	21.71
5	22.65	22.96	19.51	19.36	18.95	18.76	18.13	19.32	20.61	19.47	20.59	21.77
6	22.47	22.99	19.63	19.45	18.56	18.79	17.99	19.41	20.57	19.54	20.63	21.79
7	22.71	23.04	19.43	19.53	18.22	18.54	18.21	19.44	20.22	19.85	20.67	21.56
8	22.75	23.05	19.43	19.55	18.00	18.53	18.28	19.49	20.16	19.96	20.71	21.81
9	22.80	22.87	19.72	19.54	17.91	18.50	18.35	19.53	20.15	20.00	20.77	21.85
10	22.79	22.74	19.77	19.60	17.92	18.74	18.35	19.56	20.24	20.07	20.57	21.88
11	22.85	22.55	19.67	19.61	17.96	18.76	18.42	19.36	20.12	20.03	20.86	21.92
12	22.83	22.39	19.09	19.64	18.03	18.54	18.47	19.65	20.19	19.89	20.92	21.89
13	22.62	22.28	18.37	19.71	18.08	18.23	18.34	19.76	20.27	19.52	20.95	21.89
14	22.85	22.10	18.09	19.78	18.14	17.56	18.56	19.71	20.25	19.55	21.02	21.69
15	22.91	22.07	18.00	19.79	18.21	17.58	18.68	19.59	20.10	19.60	21.07	21.89
16	22.98	21.82	18.13	19.81	18.20	17.39	18.72	19.59	20.32	19.64	20.87	21.97
17	22.77	21.55	18.20	19.85	18.22	17.63	18.77	19.72	20.31	19.59	20.84	21.83
18	22.99	21.59	18.32	19.82	18.16	17.63	18.82	19.50	20.37	19.57	21.18	21.97
19	23.00	21.63	18.38	19.75	18.03	17.52	18.88	19.79	20.42	19.58	21.25	21.85
20	22.79	21.70	18.48	19.57	17.96	17.20	18.66	19.87	20.43	19.42	21.31	21.74
21	22.90	21.67	18.53	19.41	17.99	16.98	18.75	19.95	20.39	19.73	21.37	21.69
22	22.94	21.68	18.54	19.43	17.96	17.01	18.59	20.02	20.19	19.85	21.40	21.91
23	22.90	21.51	18.58	19.40	17.97	17.12	18.60	20.07	20.37	19.94	21.15	21.96
24	22.92	21.45	18.72	19.38	18.07	17.43	18.67	19.90	20.47	19.99	21.11	21.97
25	22.95	21.66	18.78	19.38	18.09	17.49	18.72	19.86	20.53	20.06	21.46	22.03
26	22.92	21.65	18.81	19.41	18.08	17.61	18.84	19.86	20.55	20.10	21.52	21.89
27	22.72	21.21	18.94	19.49	18.21	17.68	18.62	20.17	20.56	19.91	21.48	21.78
28	22.94	20.44	18.96	19.52	18.28	17.71	18.91	20.23	20.55	20.18	21.54	21.52
29	22.97	19.63	19.03	19.63	---	17.50	19.03	20.23	20.34	20.28	21.57	21.69
30	22.97	19.77	19.05	19.67	---	17.54	19.05	20.29	20.53	20.30	21.33	21.72
31	22.95	---	19.13	19.69	---	17.83	---	20.31	---	20.34	21.27	---
MAX	23.00	23.05	19.77	19.85	19.73	18.79	19.05	20.31	20.61	20.40	21.57	22.03

WTR YR 1986 MEAN 20.07 HIGH 16.98 MAR 21 LOW 23.05 NOV 8

000276

BEST COPY AVAILABLE

394425084113200. 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.75	36.78	30.84	30.31	29.49	28.27	30.13	31.34	33.75	36.57	38.39	39.35
2	37.92	36.35	32.29	30.97	29.46	28.19	30.23	31.32	33.76	36.27	38.72	39.91
3	37.92	35.88	32.73	30.18	30.14	28.17	29.81	30.54	33.91	35.63	38.97	40.10
4	37.88	36.44	32.86	30.18	29.26	29.16	29.56	30.71	33.91	35.27	38.99	40.13
5	37.39	36.57	31.79	30.09	29.03	28.41	29.58	31.47	34.23	35.35	38.78	40.23
6	36.68	36.59	31.65	30.07	28.70	28.14	29.58	31.51	34.23	35.50	38.76	40.53
7	37.16	36.68	31.64	31.15	28.21	28.16	29.58	32.13	34.02	36.77	38.84	40.73
8	37.40	36.69	31.54	30.36	28.08	28.16	29.67	31.77	33.59	37.50	38.88	40.77
9	37.24	36.27	32.79	30.10	28.07	28.18	29.69	31.88	33.68	37.77	39.23	40.12
10	36.97	35.58	32.18	29.97	28.10	29.54	29.42	31.81	33.99	36.95	39.53	40.16
11	36.54	35.57	31.89	29.97	28.18	28.95	29.29	31.55	33.99	37.19	39.56	40.35
12	36.26	35.37	31.49	29.87	28.26	28.54	29.28	32.44	34.35	37.42	39.37	40.48
13	36.04	35.08	31.56	29.94	28.29	28.98	29.28	32.71	34.47	37.44	39.45	40.70
14	35.92	34.91	30.76	31.08	28.23	28.92	28.45	32.44	34.50	37.46	39.30	40.91
15	35.88	34.96	30.26	30.42	28.32	28.32	29.57	32.28	34.59	37.29	39.38	40.95
16	35.88	34.32	31.36	30.00	28.26	28.35	29.39	32.45	34.72	37.30	39.26	40.90
17	35.83	33.70	30.85	31.32	29.09	28.49	29.29	32.37	34.78	37.35	39.05	40.79
18	35.70	34.39	30.55	30.65	28.67	28.49	29.54	32.56	34.86	37.28	39.45	40.83
19	35.64	34.88	30.53	30.33	29.39	28.50	29.66	32.92	34.87	37.06	39.56	41.00
20	35.59	34.92	31.41	30.34	29.53	28.41	29.66	32.92	36.57	36.90	39.57	40.90
21	35.33	34.79	30.72	29.75	29.79	28.05	29.64	32.91	37.10	37.67	39.61	40.70
22	35.29	34.84	30.40	29.90	28.80	27.94	29.30	32.97	36.31	37.77	39.71	40.90
23	35.29	34.28	31.25	29.90	28.51	27.84	28.98	33.10	36.92	37.75	40.04	41.02
24	35.35	33.73	30.58	29.61	28.43	27.92	29.24	33.15	37.79	37.98	40.25	41.03
25	36.12	34.13	30.42	29.48	28.42	28.13	29.48	33.16	37.98	38.08	40.26	41.16
26	35.79	33.49	30.32	29.47	28.29	28.34	29.66	33.18	38.00	37.84	40.15	41.12
27	35.46	33.15	29.99	30.24	28.28	28.48	30.91	33.35	37.57	37.56	40.25	41.05
28	36.35	31.74	29.99	29.70	28.28	28.52	31.11	33.35	36.69	38.17	40.10	41.13
29	36.33	31.11	29.97	29.59	---	28.60	31.19	33.43	36.38	38.31	39.56	41.18
30	36.66	30.80	29.98	29.61	---	28.73	31.19	33.69	36.36	38.33	39.39	41.19
31	36.70	---	30.97	29.55	---	29.65	---	33.74	---	38.32	39.39	---
MAX	38.75	36.78	32.86	31.32	30.14	29.65	31.19	33.74	38.00	38.33	40.26	41.19

WTR YR 1986 MEAN 33.72 HIGH 27.8' MAR 23 LOW 41.19 SEP 30

7378

394533084113800. Local number, MT-6.
LOCATION.--Lat 39°45'33", long 84°1'38", 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.16	32.44	27.99	25.31	25.34	24.60	26.91	28.85	31.14	33.89	34.74	34.13
2	32.52	31.94	27.93	25.47	25.12	24.35	27.01	28.38	31.19	33.87	34.60	34.80
3	32.75	31.68	27.90	25.64	25.71	24.97	26.88	27.97	30.96	33.55	34.47	35.16
4	32.98	31.69	27.87	25.37	25.96	25.15	27.53	27.49	31.10	33.33	34.67	35.43
5	32.59	31.32	27.86	25.12	26.14	25.24	27.06	28.01	31.85	32.96	34.86	35.59
6	32.20	31.30	27.90	25.59	25.87	25.35	26.63	28.48	32.21	32.54	34.93	35.30
7	32.30	31.25	27.67	25.73	25.80	25.36	27.11	29.16	31.95	33.24	35.00	34.89
8	32.49	31.19	27.22	25.72	25.45	24.86	27.35	29.54	31.14	33.21	35.09	34.97
9	32.66	30.97	27.60	25.79	25.01	24.67	27.14	29.73	31.85	33.62	34.81	34.69
10	32.98	30.72	27.70	25.72	24.76	25.48	27.05	29.31	32.08	33.87	34.55	35.44
11	32.98	30.72	27.73	25.43	24.67	25.83	27.11	29.07	32.31	33.93	34.76	35.85
12	32.77	30.86	27.67	25.05	24.67	25.86	27.30	29.87	32.50	33.92	34.77	35.63
13	32.54	30.94	27.35	25.42	24.70	26.00	26.93	30.12	32.72	33.37	34.84	35.48
14	32.79	31.56	27.07	25.50	24.65	25.92	27.31	30.62	32.49	33.66	35.09	35.31
15	33.65	30.86	26.13	25.[illegible]1	24.39	25.25	27.20	30.85	31.89	34.09	35.09	35.19
16	33.31	30.38	26.07	25.69	24.13	24.84	27.11	31.00	32.73	34.09	35.06	35.01
17	33.13	30.37	26.05	25.78	24.86	25.33	27.12	30.46	32.59	34.58	34.82	34.83
18	33.26	30.41	26.08	25.79	25.12	25.50	27.29	30.21	32.76	34.62	34.29	35.66
19	33.34	31.01	26.07	25.47	25.45	25.69	27.36	30.71	32.94	34.23	35.14	35.67
20	33.00	30.36	26.21	25.56	25.26	25.77	26.98	30.13	32.96	34.04	35.03	35.71
21	32.83	30.13	26.03	25.48	25.34	25.72	26.99	29.54	32.96	34.07	35.32	35.45
22	32.97	30.04	25.81	25.55	24.86	25.26	26.87	29.59	32.42	34.52	35.56	35.60
23	32.82	29.83	25.92	25.55	24.51	25.04	26.77	29.87	32.88	34.67	35.43	35.87
24	33.51	29.51	25.97	25.49	24.66	25.48	27.05	29.94	33.30	34.69	35.06	35.99
25	32.93	29.50	25.72	25.15	24.69	25.69	27.87	29.79	33.35	34.91	35.12	36.09
26	32.55	29.63	25.39	24.87	24.61	25.89	27.56	29.63	33.53	34.57	35.57	36.34
27	32.21	29.46	25.65	25.28	25.08	25.89	27.19	30.48	33.78	34.36	35.44	36.32
28	32.20	29.15	25.43	25.33	25.22	25.94	28.29	30.75	33.58	34.41	35.02	36.10
29	31.98	28.61	25.12	25.44	---	26.05	28.42	31.17	33.50	34.55	34.82	36.14
30	31.86	28.37	25.46	25.56	---	25.69	28.66	31.42	33.49	34.71	34.60	36.10
31	31.92	---	25.59	25.58	---	26.29	---	31.34	---	34.62	34.32	---
MAX	33.65	32.44	27.99	25.79	26.14	26.29	28.66	31.42	33.78	34.91	35.57	36.34

WTR YR 1986 MEAN 30.02 HIGH 24.13 FEB 16 LOW 36.34 SEP 26

395804081593200. 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. 1-7, 1954; minimum daily low, 8.50 ft below land-surface datum, May 25, 1967.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.87	25.17	17.10	---	21.88	---	16.58	20.30	20.49	20.96	22.81	24.27
2	24.50	25.63	17.15	---	21.90	---	16.89	19.96	20.58	20.92	22.68	24.56
3	25.22	25.94	16.99	---	22.26	---	16.94	20.09	20.48	21.06	22.57	24.82
4	25.53	26.22	16.12	---	22.25	---	17.31	19.52	20.90	20.80	22.82	24.87
5	25.53	26.36	15.94	---	21.86	---	17.42	20.12	21.01	20.54	23.11	24.65
6	25.09	26.36	15.91	---	21.86	---	17.23	20.05	21.19	20.42	23.29	24.96
7	25.08	25.84	15.19	---	21.21	---	17.21	20.39	21.14	20.82	23.61	24.79
8	25.13	25.58	14.99	---	20.63	---	17.57	20.94	20.18	21.02	23.68	24.84
9	24.93	25.53	14.83	---	19.60	---	17.87	20.94	20.45	21.22	23.77	24.91
10	25.16	25.62	14.83	21.79	19.05	---	17.97	21.20	20.80	21.18	23.49	25.27
11	25.40	25.70	---	21.86	17.56	---	18.24	20.91	20.92	20.75	23.56	25.45
12	25.34	25.42	---	21.89	17.21	---	18.20	20.80	20.81	20.30	23.55	25.88
13	24.57	24.82	---	21.92	16.09	---	17.80	21.15	21.09	19.97	23.75	25.80
14	24.78	24.10	---	21.96	15.74	---	18.18	21.17	21.09	20.24	23.93	25.48
15	24.72	23.83	---	21.68	15.59	---	18.16	21.56	20.69	20.23	24.15	25.62
16	25.14	23.65	---	21.43	14.68	---	18.21	21.64	20.90	19.96	24.34	25.88
17	25.14	23.11	---	21.87	---	---	18.66	21.30	20.99	[illegible].31	24.28	26.04
18	25.14	22.45	---	22.18	---	---	19.20	20.84	21.25	[illegible].13	24.31	25.96
19	25.03	21.43	---	22.20	14.32	---	19.70	20.34	21.58	[illegible].81	24.50	26.21
20	25.10	20.80	---	22.27	14.32	---	19.20	20.51	21.64	19.57	24.56	26.23
21	25.54	20.78	--	22.06	14.32	---	19.70	20.49	21.63	19.65	24.75	26.20
22	25.59	20.62	---	21.86	14.32	---	19.72	20.52	21.19	19.72	24.79	26.28
23	25.49	20.63	---	21.86	14.27	---	19.86	21.07	21.42	20.20	24.94	26.65
24	25.51	20.44	---	21.58	13.75	---	19.67	21.17	21.61	20.25	24.81	26.66
25	25.67	20.28	---	21.41	13.67	---	19.90	20.98	21.68	20.75	24.69	26.85
26	25.42	20.11	---	21.41	13.76	---	20.40	20.75	21.85	20.76	24.87	26.86
27	24.92	19.39	---	21.51	---	16.23	20.64	20.57	21.94	20.82	24.83	26.73
28	24.93	17.96	---	21.62	---	16.47	20.70	20.56	21.84	21.45	24.83	26.61
29	25.11	17.65	---	21.63	---	15.94	20.37	20.49	21.55	21.97	24.86	26.47
30	25.11	17.23	---	21.21	---	15.70	19.98	20.89	21.03	22.32	24.75	26.36
31	25.28	---	---	21.53	---	16.38	---	20.86	---	22.50	24.32	---
MAX	25.67	26.36	---	---	---	---	20.70	21.64	21.94	22.50	24.94	26.86

WTR YR 1986 MEAN 21.65 HIGH 13.67 FEB 25 LOW 26.86 SEP 26

7378

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, 54.60 ft below land-surface datum, Sept. 15, 1977; minimum daily low, 38.32 ft below land-surface datum, Dec. 25, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.48	46.38	---	44.23	44.61	---	43.87	43.37	43.30	44.52	46.13	---
2	45.71	46.40	45.95	44.55	44.43	---	43.95	43.40	43.31	44.56	46.14	46.76
3	45.60	46.10	46.22	44.98	44.36	44.33	43.95	43.40	43.49	44.61	45.79	47.00
4	45.80	46.06	---	---	44.34	44.47	43.90	43.03	43.53	44.61	45.83	47.09
5	45.79	46.34	---	---	44.59	44.47	43.85	45.06	43.59	44.41	46.16	47.20
6	45.34	46.43	---	44.80	44.63	44.46	43.38	43.29	---	44.10	46.26	47.20
7	45.58	46.44	46.20	45.02	44.72	44.69	43.28	43.27	---	44.14	46.28	46.92
8	45.95	46.52	45.89	---	44.72	44.69	43.48	43.42	43.36	44.57	46.32	47.10
9	46.00	46.52	45.68	45.02	44.47	44.46	43.54	43.45	43.44	44.74	46.36	47.30
10	46.00	46.24	45.73	44.81	44.32	44.38	43.54	43.45	43.34	44.88	46.29	47.34
11	46.13	46.27	45.76	44.83	44.47	44.56	43.54	43.07	43.96	44.88	45.89	47.38
12	46.13	46.34	45.86	44.67	44.55	44.56	43.48	43.14	44.07	44.88	46.36	47.52
13	45.62	46.45	---	44.55	44.57	44.51	43.12	43.33	---	44.82	46.44	47.52
14	45.76	46.53	---	44.65	44.57	44.51	42.88	43.45	---	44.83	46.47	47.21
15	46.12	46.53	---	---	44.59	44.51	43.25	43.50	44.09	44.92	46.55	47.30
16	46.27	46.43	---	---	44.59	44.32	43.39	43.54	43.70	45.05	46.56	47.56
17	46.27	46.25	---	---	44.42	44.27	43.40	43.54	44.08	45.16	46.50	47.57
18	46.26	46.20	---	44.64	44.53	44.28	43.40	43.36	---	45.25	46.36	47.60
19	46.25	46.29	45.63	44.30	44.59	44.33	43.44	43.14	---	45.27	46.51	47.66
20	45.75	46.42	45.49	44.21	44.60	44.43	43.26	43.50	---	45.17	46.73	47.66
21	46.00	46.44	45.49	44.41	44.60	44.43	42.66	---	---	45.22	46.94	47.54
22	46.21	46.40	45.46	44.60	44.60	44.41	43.15	---	---	45.50	47.04	47.62
23	46.31	46.35	44.88	---	44.53	43.97	43.26	---	44.07	45.61	47.05	48.00
24	46.36	46.01	44.62	---	44.50	43.85	43.33	---	---	45.56	46.98	48.39
25	46.41	45.35	---	44.63	44.55	43.94	43.33	43.43	---	45.70	46.79	48.20
26	46.41	45.42	44.85	44.40	44.49	43.97	43.26	43.01	---	45.71	47.00	47.99
27	46.08	---	45.06	44.39	---	44.07	43.00	43.14	44.50	45.57	47.05	47.90
28	46.04	---	45.08	---	---	44.07	42.93	43.46	44.49	45.65	47.14	47.79
29	46.27	---	44.98	---	---	43.95	43.27	43.57	44.44	45.90	47.16	47.76
30	46.33	---	44.55	---	---	43.50	43.35	---	44.44	46.01	47.16	47.90
31	46.38	---	44.30	44.61	---	43.53	---	---	---	46.53	---	---
MAX	46.41	---	---	---	---	---	43.95	---	---	46.53	---	---

WTR YR 1986 MEAN 45.15 HIGH 42.66 APR 21 LOW 48.39 SEP 24

000280

393402082572500. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

JAN	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	70.25	70.00	67.45	68.25	68.05	65.20	67.30	68.45	67.65	69.15	71.20	---
2	70.45	70.05	68.85	68.20	68.15	65.15	67.10	68.40	67.55	68.85	71.55	72.95
3	70.90	69.95	69.15	68.25	68.00	65.15	67.30	68.35	67.75	68.50	71.75	72.00
4	70.65	70.00	72.15	67.80	67.80	---	68.05	67.50	67.70	68.55	71.65	73.05
5	70.20	70.10	70.90	68.15	67.55	---	---	68.80	67.70	69.20	71.70	73.25
6	70.15	69.95	69.80	68.25	64.95	---	---	68.45	67.70	70.20	71.70	---
7	70.65	69.85	67.95	68.35	65.10	---	---	67.60	67.75	70.45	72.20	---
8	71.80	70.00	67.85	68.35	65.10	---	---	67.65	68.10	70.45	72.00	---
9	71.35	69.85	67.95	68.35	64.95	---	---	67.85	69.05	70.30	72.00	---
10	71.35	69.95	68.15	68.35	65.05	---	---	67.45	69.40	70.40	71.70	---
11	71.70	70.05	67.70	68.00	65.15	---	---	67.45	70.15	70.40	71.95	---
12	70.20	69.80	68.10	67.95	65.45	---	---	68.10	69.35	70.40	72.50	---
13	70.35	69.90	67.75	68.35	65.75	---	---	67.40	69.65	70.20	71.40	---
14	70.75	70.00	67.75	68.05	66.15	---	---	67.55	69.70	70.50	72.50	---
15	70.50	69.75	67.70	68.15	66.70	---	---	68.30	69.95	70.35	72.70	---
16	70.45	69.40	68.65	68.15	66.05	---	---	67.55	69.90	70.70	---	---
17	70.40	69.45	67.80	68.00	66.35	70.50	69.25	68.35	69.70	72.00	---	---
18	70.15	69.65	68.10	67.90	66.30	---	---	67.65	69.65	71.95	---	73.60
19	69.85	69.80	68.00	67.75	65.80	---	---	67.65	69.60	71.65	72.85	73.20
20	69.75	70.00	68.05	67.85	65.35	---	---	67.40	70.10	71.90	72.55	76.15
21	70.10	70.00	68.30	67.80	65.45	---	---	67.25	70.85	71.60	72.65	72.30
22	70.30	70.20	67.85	67.85	65.25	---	---	68.80	70.55	71.30	72.55	77.95
23	70.10	70.05	68.10	67.75	65.20	---	---	67.60	69.70	71.00	72.05	78.15
24	70.10	70.05	68.25	67.65	65.35	---	---	67.55	71.25	71.15	72.30	78.00
25	70.25	70.20	68.25	67.45	68.55	---	---	67.90	71.20	71.40	72.20	72.55
26	70.05	70.40	68.25	67.55	65.95	---	---	67.50	71.50	71.15	72.75	72.75
27	70.15	69.80	68.20	67.95	65.30	---	---	67.50	70.75	71.25	72.85	72.75
28	70.85	68.80	68.25	68.05	65.40	---	---	69.30	71.05	71.45	72.80	72.75
29	70.65	68.90	68.15	68.05	---	---	---	67.85	71.10	71.90	72.80	72.85
30	70.85	71.55	68.25	68.25	---	---	67.00	67.65	70.60	71.50	72.80	72.80
31	69.90	---	68.30	68.15	---	67.30	---	67.50	---	71.20	---	---
MAX	71.80	71.55	72.15	68.35	68.55	---	---	69.30	71.50	72.00	---	---

WTR YR 1986 MEAN 69.44 HIGH 64.95 FEB 6 AND OTHERS LOW 78.15 SEP 23

7378

PICKAWAY COUNTY--Continued

393638082572300. Local number, PK-6.
LOCATION.--Lat 39°36'23", 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.30	31.25	---	28.50	26.10	27.45	27.75	---	30.75	30.80	31.25	-
2	30.25	30.25	24.10	28.65	26.20	24.35	26.50	---	30.35	30.65	29.70	
3	30.30	30.15	23.15	28.30	26.20	27.70	27.95	---	29.80	30.40	30.70	
4	30.30	30.10	21.60	27.60	25.15	27.70	25.80	29.30	30.55	29.95	31.50	
5	30.30	29.30	25.10	27.65	24.45	27.20	27.95	---	30.85	29.95	31.70	
6	30.35	---	25.75	28.85	25.65	26.75	28.00	---	29.10	30.10	31.65	
7	30.35	---	26.25	---	24.95	25.65	27.50	---	30.45	30.75	31.60	
8	30.15	---	25.45	25.35	20.70	27.65	28.20	---	30.20	30.80	31.60	
9	30.35	---	27.15	23.15	23.65	26.00	28.35	---	30.65	30.40	31.70	
10	30.30	---	25.25	28.25	21.30	25.65	28.00	29.70	27.80	30.15	31.45	
11	30.20	---	25.65	28.05	24.65	24.50	28.95	---	26.95	30.80	30.80	
12	30.35	---	24.75	28.20	23.60	27.35	28.75	30.[illegible]0	26.40	26.30	31.50	
13	30.40	---	24.35	29.45	24.50	25.90	28.45	30.[illegible]5	30.45	28.05	31.20	
14	30.25	---	24.05	26.30	23.35	24.50	28.25	---	29.40	31.25	31.05	
15	30.20	---	23.80	26.25	24.95	23.45	28.75	--	30.50	30.15	31.70	
16	30.35	---	23.80	29.70	24.80	23.35	28.80	28.05	27.00	30.20	31.75	
17	29.90	---	24.10	29.40	25.60	24.50	28.45	30.25	30.70	29.70	30.90	
18	30.80	---	---	26.60	23.60	24.80	29.55	---	30.75	30.30	32.50	
19	31.30	---	25.60	26.25	26.15	25.40	28.00	27.75	30.65	30.40	31.55	
20	31.50	---	26.05	28.70	22.85	25.10	28.35	27.15	31.55	30.60	30.65	
21	30.65	---	---	28.95	26.75	25.25	28.95	30.40	31.45	30.10	31.85	
22	30.20	---	26.50	26.40	25.25	25.65	28.75	30.50	31.05	30.65	31.60	
23	31.45	---	26.55	27.45	26.00	25.35	28.85	30.60	31.10	31.00	31.90	
24	30.50	---	26.85	28.15	25.70	25.90	29.30	---	31.20	30.65	28.25	
25	---	---	27.05	27.45	26.05	26.80	28.00	30.90	31.10	31.05	31.60	
26	---	---	27.45	27.20	26.50	23.75	29.00	30.15	31.65	30.45	31.65	
27	---	---	25.50	28.90	26.80	26.40	29.55	30.25	31.05	30.95	32.00	
28	---	---	27.90	27.95	26.10	24.05	29.70	30.35	31.15	31.10	32.00	
29	---	---	28.10	28.95	---	26.80	29.60	30.45	30.95	31.15	31.95	
30	32.00	---	26.70	29.05	---	25.45	28.35	30.90	30.70	31.35	29.65	
31	33.45	---	28.30	28.70	---	24.20	---	30.45	---	31.30	30.25	-
MAX	---	---	---	---	26.80	27.70	29.70	---	31.65	31.35	32.50	-

WTR YR 1986 MEAN 28.72 HIGH 20.70 FEB 8 LOW 33.45 OCT 31

000282

393438083072200. 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.
INSTRUMENTATON.--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 12.35 ft below land-surface datum, Sept. 26, 27, 1986; minimum recorded daily low, 0.08 ft above land-surface datum, Mar. 29,1984 and Nov. 29, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.64	10.28	.65	4.70	5.44	3.13	4.27	6.48	8.41	9.65	10.53	11.69
2	10.60	10.04	---	4.76	5.57	3.21	4.30	6.58	8.41	9.54	10.71	11.70
3	10.49	9.90	---	4.78	5.56	3.25	4.45	6.76	8.46	9.46	10.73	11.74
4	10.47	9.67	---	4.77	5.50	3.25	4.55	6.83	8.50	9.53	10.72	11.77
5	10.42	9.55	---	4.20	3.82	3.19	4.75	7.10	8.57	9.50	10.76	11.79
6	10.53	9.28	---	4.97	2.89	3.10	4.81	7.26	8.59	9.66	10.80	11.83
7	10.49	9.24	---	5.08	2.10	3.10	4.91	7.28	8.73	9.73	10.83	11.34
8	10.64	9.14	---	5.08	1.03	3.11	4.98	7.50	8.76	9.70	10.83	11.67
9	10.56	8.98	---	5.09	.99	3.09	5.06	7.54	8.87	9.64	10.88	11.77
10	10.83	9.13	---	5.15	1.11	3.09	5.07	7.52	8.98	9.64	10.96	11.89
11	10.80	8.98	---	5.60	1.10	2.97	5.00	7.56	8.77	9.61	10.99	12.03
12	10.61	8.13	---	5.55	1.86	2.68	5.05	7.87	8.76	9.58	11.01	12.03
13	10.64	7.00	---	5.59	2.12	2.45	5.10	7.89	8.78	9.30	10.90	12.07
14	10.59	6.58	---	5.62	2.32	.93	5.14	7.86	8.78	9.16	10.93	12.12
15	10.63	6.40	---	5.66	2.59	1.31	5.20	7.74	8.78	9.05	11.05	12.14
16	10.63	6.10	---	5.78	2.78	1.29	5.26	7.77	8.88	8.85	11.08	12.14
17	10.60	5.28	---	5.78	2.78	1.12	5.40	7.83	8.94	8.78	10.86	11.87
18	10.67	2.20	---	5.85	2.15	1.07	5.40	8.03	9.01	9.03	11.05	11.97
19	10.68	1.74	---	5.84	1.94	1.34	5.49	8.08	9.06	8.98	11.12	12.14
20	10.68	1.89	---	6.00	1.91	1.76	5.52	8.12	9.04	9.07	11.06	12.19
21	10.40	2.04	---	6.00	2.03	2.03	5.60	8.02	9.10	9.23	11.34	12.19
22	10.38	2.13	---	5.95	2.03	2.35	5.70	8.03	9.29	9.35	11.46	12.18
23	10.20	2.18	---	5.81	2.25	2.50	5.70	8.13	9.44	9.40	11.50	12.22
24	10.21	2.14	---	5.47	2.40	2.72	5.80	8.24	9.68	9.57	11.47	12.29
25	10.08	2.26	---	5.23	2.51	2.88	5.83	8.29	9.64	9.72	11.44	12.32
26	10.03	2.29	---	5.03	2.57	3.20	6.13	8.35	9.54	9.80	11.49	12.35
27	10.03	2.29	---	5.13	2.86	3.42	6.23	8.36	9.70	9.92	11.55	12.35
28	10.01	.66	---	5.16	2.97	3.52	6.30	8.33	9.66	10.08	11.53	12.28
29	10.03	-0.08	---	5.15	---	3.74	6.34	8.23	9.61	10.24	11.50	12.18
30	9.99	.25	---	5.29	---	3.88	6.47	8.38	9.57	10.53	11.61	12.05
31	9.88	---	4.67	5.29	---	4.13	---	8.37	---	10.60	11.57	---
MAX	10.83	10.28	---	6.00	5.57	4.13	6.47	8.38	9.70	10.60	11.67	12.35

WTR YR 1986 MEAN 7.41 HIGH -0.08 NOV 29 LOW 12.35 SEP 26 AND OTHERS

390259083015100. Local number, PI-2.
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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.20	26.42	19.22	20.99	23.07	20.57	20.47	23.32	24.49	24.81	24.89	25.92
2	26.22	26.44	18.52	21.13	23.12	20.61	20.59	23.37	24.51	24.83	24.93	25.83
3	26.23	26.44	18.29	21.32	23.14	20.71	20.72	23.42	24.52	24.85	24.98	25.85
4	26.24	26.44	18.18	21.45	23.14	20.79	20.84	23.46	24.57	24.85	25.02	25.87
5	26.25	26.44	18.15	21.60	23.11	20.84	20.97	23.51	24.58	24.85	25.06	25.89
6	26.26	26.44	18.18	21.75	23.06	20.94	21.09	23.58	24.59	24.82	25.09	25.90
7	26.28	26.42	18.19	21.90	23.00	21.07	21.21	23.62	24.62	24.78	25.13	25.92
8	26.29	26.38	18.28	22.02	22.76	21.11	21.35	23.68	24.65	24.75	25.17	25.92
9	26.30	26.34	18.43	22.12	22.47	21.15	21.47	23.73	24.66	24.73	25.21	25.94
10	26.30	26.31	18.57	22.25	22.12	21.18	21.59	23.77	24.67	24.73	25.24	25.96
11	26.31	26.28	18.65	22.36	21.73	21.25	21.72	23.81	24.65	24.74	25.28	25.98
12	26.32	26.26	18.84	22.45	21.41	21.26	21.83	23.85	24.62	24.75	25.32	25.99
13	26.33	26.20	18.96	22.57	21.11	21.25	21.96	23.90	24.56	24.76	25.36	26.02
14	26.35	26.11	18.99	22.58	21.00	21.22	22.06	23.96	24.52	24.76	25.38	26.03
15	26.36	25.97	18.99	22.78	20.71	21.16	22.18	23.99	24.46	24.73	25.41	26.04
16	26.37	25.79	18.93	22.87	20.64	21.04	22.29	24.04	24.42	24.69	25.44	26.04
17	26.38	25.56	18.86	22.97	20.60	20.86	22.41	24.07	24.40	24.62	25.46	26.06
18	26.39	25.17	18.89	23.03	20.58	20.62	22.50	24.11	24.38	24.57	25.48	26.07
19	26.40	24.32	18.93	23.11	20.59	20.34	22.59	24.17	24.39	24.52	25.50	26.08
20	26.40	23.32	19.06	23.22	20.59	20.1[illegible]	22.66	24.21	24.43	24.48	25.52	26.09
21	26.40	22.62	19.17	23.27	20.59	20.10	22.78	24.25	24.46	24.47	25.54	26.10
22	26.41	22.14	19.28	23.33	20.59	20.03	22.87	24.28	24.49	24.50	25.57	26.11
23	26.41	22.00	19.44	23.33	20.54	19.91	22.95	24.30	24.53	24.54	25.59	26.12
24	26.41	21.64	19.65	23.33	20.52	19.86	23.02	24.33	24.58	24.57	25.62	26.13
25	26.41	21.53	19.84	23.28	20.48	19.85	23.06	24.35	24.62	24.60	25.64	26.16
26	26.41	21.44	19.97	23.22	20.46	19.90	23.10	24.38	24.65	24.64	25.67	26.17
27	26.41	21.35	19.99	23.15	20.50	19.98	23.14	24.41	24.68	24.68	25.70	26.17
28	26.41	21.12	20.37	23.11	20.54	20.06	23.18	24.44	24.71	24.73	25.75	26.17
29	26.41	20.86	20.51	23.06	---	20.15	23.23	24.46	24.75	24.77	25.76	26.15
30	26.42	20.20	20.65	23.06	---	20.25	23.26	24.47	24.78	24.81	25.78	26.09
31	26.42	---	20.34	23.06	---	20.37	---	24.48	---	24.85	25.80	---
MAX	26.42	26.44	20.84	23.33	23.14	21.26	23.26	24.48	24.78	24.85	25.80	26.17

WTR YR 1986 MEAN 23.46 HIGH 18.15 DEC 5 LOW 26.44 NOV 2 AND OTHERS

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 RECORD.--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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.63	22.00	21.29	21.13	21.29	21.00	20.71	20.70		---	20.49	21.04
2	21.64	22.01	21.30	21.15	21.25	20.99	20.71	20.73		20.33	20.50	21.06
3	21.64	22.01	21.32	21.19	21.23	20.99	20.69	20.75		20.36	20.54	21.07
4	21.64	22.01	21.30	21.19	21.19	21.00	20.69	20.73		20.36	20.55	21.08
5	21.68	21.75	21.25	21.19	21.09	20.99	20.69	20.69		20.35	20.55	21.12
6	21.70	21.63	21.23	21.11	21.10	20.98	20.69	20.70		20.35	20.55	21.15
7	21.73	21.68	21.23	21.18	21.09	21.05	20.67	20.70		20.34	20.55	21.19
8	21.74	21.72	21.22	21.18	21.10	21.05	20.64	20.67		20.33	20.58	21.21
9	21.75	21.72	21.25	21.16	21.09	20.97	20.66	20.70		20.28	20.61	21.22
10	21.75	21.72	21.25	21.18	21.09	20.94	20.66	20.71		20.27	20.61	21.21
11	21.78	21.67	21.22	21.18	21.09	20.95	20.68	20.69		20.24	20.66	21.21
12	21.78	21.66	21.10	21.16	21.09	20.94	20.71	20.68		20.22	20.68	21.29
13	21.78	21.63	21.10	21.22	21.12	20.98	20.71	20.69		20.24	20.68	21.32
14	21.7[illegible]	21.63	21.15	21.25	21.10	20.80	20.71	20.70		20.24	20.66	21.33
15	21.82	21.56	21.14	21.28	21.12	20.75	20.68	20.73		20.24	20.70	21.36
16	21.86	21.52	21.13	21.28	21.13	20.78	20.68	20.73		20.22	20.73	21.36
17	21.87	21.42	21.14	21.27	21.10	20.78	20.71	20.72		---	20.76	21.36
18	21.85	21.43	21.19	21.27	21.09	20.78	20.73	20.72		---	20.79	21.36
19	21.88	21.42	21.19	21.21	21.04	20.79	20.73	20.70		---	20.81	21.38
20	21.89	21.46	21.18	21.21	21.06	20.83	20.70	20.70		---	20.83	21.40
21	21.88	21.46	21.15	21.22	21.03	20.83	20.66	20.69		---	20.87	21.42
22	21.89	21.44	21.14	21.27	21.01	20.80	20.69	20.66		---	20.88	21.41
23	21.90	21.46	21.12	21.27	20.99	20.77	20.70	20.66		---	20.88	21.37
24	21.92	21.46	21.14	21.25	20.98	20.80	20.69	20.70		---	20.91	21.38
25	21.95	21.48	21.14	21.20	20.99	20.75	20.66	20.69		---	20.93	21.38
26	21.95	21.41	21.13	21.18	20.97	20.72	20.66	20.69		---	20.93	21.38
27	21.97	21.37	21.12	21.22	21.00	20.74	20.66	20.69		---	20.96	21.39
28	21.98	21.31	21.13	21.23	21.00	20.73	20.65	20.68		---	21.00	21.39
29	21.98	21.32	21.12	21.26	---	20.69	20.66	20.68		---	21.01	21.39
30	21.98	21.29	21.13	21.30	---	20.72	20.68	---		---	21.02	21.41
31	21.99	---	21.10	21.30	---	20.73	---	---		20.47	21.04	---
MAX	21.99	22.01	21.32	21.30	21.29	21.05	20.73	---		---	21.04	21.42

WTR YR 1986 MEAN 21.06 HIGH 20.22 JUL 12 AND OTHERS LOW 22.01 NOV 2 AND OTHERS

7378

394438084335900. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.66	12.83	10.20	10.54	10.72	9.52	8.89	10.16	10.99	11.43	12.19	12.92
2	12.63	12.87	10.25	10.57	10.72	9.43	9.45	10.44	11.34	11.55	11.96	12.75
3	12.75	12.87	10.45	10.68	10.76	9.59	9.36	10.42	11.33	11.31	11.97	13.03
4	12.66	12.94	10.46	10.66	10.50	9.45	9.55	10.37	11.56	11.39	12.44	12.73
5	12.72	12.94	10.47	10.46	10.37	9.69	9.39	10.57	11.60	11.28	12.21	12.94
6	12.65	12.89	10.65	10.63	10.00	9.58	9.42	10.55	11.56	11.12	12.60	12.71
7	12.79	12.92	10.75	10.70	9.78	9.85	9.59	10.77	11.37	11.40	12.68	12.71
8	12.80	12.93	10.84	10.88	9.58	9.84	9.42	10.40	11.03	11.19	12.84	13.10
9	12.95	12.90	10.99	10.81	9.38	9.75	9.79	10.75	11.16	11.32	12.84	12.87
10	12.76	12.86	11.12	10.67	9.48	9.67	9.48	10.47	10.84	10.97	12.82	13.21
11	12.95	12.78	11.04	10.79	9.35	9.68	9.64	10.51	10.97	11.12	12.77	13.04
12	12.70	12.64	11.09	10.64	9.60	9.71	9.49	10.90	10.52	10.82	12.79	13.28
13	12.77	12.46	10.89	10.75	9.55	9.35	9.49	10.74	10.64	10.71	12.88	13.15
14	12.65	12.16	10.98	10.72	9.45	9.41	9.86	10.96	10.57	10.99	12.89	13.13
15	12.84	11.99	10.84	10.81	9.39	9.14	9.65	10.97	10.53	10.68	12.92	13.33
16	12.84	11.77	10.84	10.85	9.39	9.06	9.94	11.13	10.84	10.97	12.91	13.39
17	12.94	11.66	10.91	10.87	9.59	9.40	9.70	11.08	10.67	10.96	12.59	13.17
18	12.84	11.44	11.04	10.83	9.50	9.25	10.02	10.88	10.83	11.16	13.02	13.13
19	12.88	11.36	11.10	10.82	9.60	9.16	9.84	10.98	10.73	11.16	13.14	13.22
20	12.75	11.33	10.95	10.86	9.59	9.01	9.77	10.76	11.14	11.15	13.16	12.95
21	12.77	11.36	10.85	10.82	9.74	9.32	10.04	11.04	10.81	11.38	13.22	12.87
22	12.83	11.32	10.76	11.05	9.54	9.13	9.79	10.68	10.75	11.67	13.12	12.84
23	12.79	11.27	10.69	11.03	9.43	8.96	10.23	11.04	11.51	11.90	12.96	13.02
24	12.73	11.35	10.56	11.02	9.60	9.36	10.18	10.81	11.14	11.91	12.74	13.18
25	12.91	11.33	10.61	10.96	9.41	9.11	10.12	11.04	11.63	11.97	13.21	13.25
26	12.77	11.22	10.59	10.84	9.49	9.22	10.15	11.12	11.76	11.96	13.18	13.31
27	12.82	10.87	10.53	10.74	9.51	8.93	10.19	10.82	11.71	11.88	13.24	13.23
28	12.77	10.54	10.55	10.74	9.65	9.22	10.27	11.15	11.54	11.98	12.92	13.24
29	12.76	10.33	10.55	10.84	---	8.86	10.23	10.85	11.54	11.98	13.05	13.27
30	12.65	10.25	10.45	10.81	---	8.74	10.42	11.27	11.57	12.11	12.86	13.30
31	12.80	---	10.44	10.97	---	9.18	---	10.98	---	12.05	12.74	---
MAX	12.95	12.94	11.12	11.05	10.76	9.85	10.42	11.27	11.76	12.11	13.24	13.39

WTR YR 1986 MEAN 11.20 HIGH 8.74 MAR 30 LOW 13.39 SEP 16

BEST COPY AVAILABLE

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-minte 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---			---			---			---	---	7.12
2	---			---			---			---	---	7.12
3	---			---			---			---	---	7.13
4	---			---			---			---	---	7.13
5	---			---			---			---	---	7.13
6	---			---			---			---	---	7.14
7	---			---			---			---	---	7.15
8	---			---			---			---	---	7.16
9	7.22			---			---			---	---	7.18
10	7.24			---			---			---	---	7.20
11	7.28			---			---			---	---	7.20
12	7.31			---			---			---	---	7.20
13	7.32			---			---			---	---	7.20
14	7.33			---			---			---	---	7.21
15	7.34			---			---			---	---	7.21
16	7.37			---			---			---	---	7.24
17	7.43			---			---			---	---	7.28
18	7.46			---			6.78			---	---	7.29
19	7.47			---			---			---	---	7.30
20	---			---			---			---	---	7.30
21	---			---			---			6.40	6.91	7.30
22	---			---			---			---	6.94	7.30
23	---			7.52			---			---	6.94	7.29
24	---			---			---			---	6.95	7.27
25	---			---			---			---	6.96	7.25
26	---			---			---			---	6.99	7.24
27	---			---			---			---	7.00	7.25
28	---			---			---			---	7.03	7.24
29	---			---			---			---	7.07	7.20
30	---			---			---			---	7.11	7.16
31	---			---			---			---	7.12	---
MAX	---			---			---			---	---	7.30

WTR YR 1986 MEAN 7.18 HIGH 6.40 JUL 21 LOW 7.52 JAN 23

7378

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.66	40.39	34.96	37.49	40.37	35.03	36.17	38.93			---	42.59
2	43.62	40.61	34.99	37.51	40.18	35.91	36.33	38.93			---	---
3	43.78	40.31	35.04	37.52	40.26	36.11	36.52	39.08			---	---
4	43.78	40.16	34.65	95	40.14	36.20	36.58	39.21			---	---
5	43.50	40.11	34.38	36.46	39.59	36.18	---	39.41			---	---
6	43.14	39.96	34.10	38.85	39.34	36.18	---	39.35			---	---
7	43.18	39.99	33.84	38.97	38.95	36.36	---	39.56			---	---
8	42.83	39.97	33.35	38.80	38.72	36.15	---	39.70			---	---
9	42.76	39.72	33.43	38.68	38.29	36.31	---	39.66			---	---
10	42.48	39.81	34.04	38.55	37.92	36.50	---	39.59			---	---
11	42.42	39.91	34.07	38.64	37.56	36.39	---	39.54			---	---
12	41.94	39.74	34.30	39.11	36.93	36.38	---	39.99			---	---
13	41.94	39.52	34.33	39.35	36.50	36.29	---	---			42.77	---
14	41.69	39.18	34.41	39.45	36.40	35.87	---	---			42.76	---
15	41.33	39.03	34.43	39.47	36.30	36.01	---	---			42.80	---
16	41.41	38.82	34.59	39.47	36.29	35.86	---	---			42.54	---
17	41.31	38.34	34.57	39.86	36.23	35.52	---	---			42.67	---
18	41.00	38.20	34.69	39.96	36.32	35.37	---	---			42.69	---
19	40.93	37.95	34.86	39.60	36.13	35.40	---	---			42.47	---
20	40.98	37.92	35.34	39.65	36.07	35.50	---	---			42.58	---
21	40.82	37.53	35.50	40.00	35.80	35.15	---	---			42.62	---
22	40.62	37.22	35.62	40.35	35.98	35.47	---	---			42.61	---
23	40.51	36.86	36.05	40.46	35.97	35.51	38.00	---			42.76	---
24	40.19	36.62	36.18	40.47	35.91	35.51	38.03	---			42.87	---
25	40.19	36.36	36.27	40.28	35.90	35.55	38.19	---			42.95	---
26	39.99	35.91	36.48	40.17	35.82	35.39	38.35	---			43.15	---
27	40.28	35.85	36.97	40.21	35.93	35.57	38.72	---			43.15	---
28	40.36	35.79	36.99	40.32	35.83	35.58	38.83	---			42.48	---
29	40.39	35.39	37.39	40.44	---	35.88	38.79	---			42.56	---
30	40.39	35.22	37.47	40.52	---	36.12	38.91	---			42.54	---
31	39.96	---	37.47	40.36	---	36.11	---	---			42.56	---
MAX	43.78	40.61	37.47	40.52	40.37	36.50	---	---			---	---

WTR YR 1986 MEAN 38.47 HIGH 33.35 DEC 8 LOW 43.78 OCT 3 AND OTHERS

000288

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, 29.79 ft below land-surface datum, Nov. 3, 1984; minimum daily low, 21.79 ft below land-surface datum, May 29, 1984.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.53	27.43	23.51	---	25.03	23.68	23.11	24.10	24.76	25.13	25.24	25.55
2	27.55	27.46	23.64	23.83	25.06	23.72	23.16	23.93	24.80	25.14	25.26	25.98
3	27.57	27.46	23.64	23.86	25.06	23.75	23.21	23.73	24.81	25.15	25.31	25.98
4	27.58	27.36	23.42	23.86	25.06	23.75	23.23	23.57	24.84	25.15	25.33	25.98
5	27.61	27.28	23.26	23.89	24.83	23.74	23.26	23.44	24.86	25.11	25.36	25.98
6	27.64	27.21	23.14	23.92	24.58	23.66	23.27	23.34	24.89	25.06	25.37	25.98
7	27.66	27.21	23.09	---	24.41	23.68	23.30	23.24	24.91	24.95	25.39	25.98
8	27.67	27.23	23.12	---	24.20	23.67	23.35	23.27	24.95	24.90	25.42	25.98
9	27.67	27.22	23.24	---	24.09	23.59	23.39	23.46	24.97	24.85	25.44	25.98
10	27.67	27.24	23.32	---	23.93	23.57	23.41	23.60	24.99	24.85	25.46	25.98
11	27.58	27.24	23.36	---	23.78	23.60	23.47	23.71	25.00	24.86	25.50	25.98
12	27.48	27.16	23.36	---	23.73	23.57	23.51	23.81	25.00	24.86	25.53	25.98
13	27.40	27.05	23.20	---	23.69	23.49	23.57	23.91	24.91	24.86	25.55	25.99
14	27.36	26.94	23.17	---	23.72	23.23	23.60	24.01	24.82	24.86	25.56	25.99
15	27.36	26.83	23.13	---	23.77	23.09	23.63	24.08	24.79	24.83	25.58	26.00
16	27.38	26.65	23.16	---	23.77	23.03	23.66	24.15	24.84	24.83	25.62	26.02
17	27.35	25.18	23.22	---	23.76	22.93	23.71	24.20	24.88	24.83	25.64	26.04
18	27.40	25.21	---	---	23.75	22.82	23.74	24.26	24.89	24.84	25.45	26.05
19	27.42	25.31	---	---	23.68	22.79	23.78	24.32	24.91	24.86	25.41	26.07
20	27.44	25.31	---	---	23.60	22.84	23.79	24.37	24.96	24.89	25.44	26.08
21	27.34	25.19	---	---	23.58	22.84	23.84	24.43	24.97	24.93	25.55	26.10
22	27.27	25.03	---	---	23.58	22.84	23.88	24.47	24.99	24.97	25.65	26.11
23	27.23	24.98	---	---	23.59	22.84	23.91	24.52	24.99	24.99	25.73	26.13
24	27.23	24.85	---	---	23.59	22.89	23.92	24.57	25.01	25.01	25.82	26.15
25	27.25	24.70	---	---	23.62	22.89	23.94	24.62	25.03	25.03	25.89	26.16
26	27.26	24.52	---	---	23.61	22.92	23.95	24.65	25.05	25.04	25.96	26.19
27	27.27	24.43	---	---	23.63	22.94	23.98	24.68	25.06	25.08	25.98	26.20
28	27.28	23.97	---	---	23.66	22.97	24.03	24.70	25.07	25.12	25.97	26.03
29	27.28	23.36	---	---	---	22.99	24.06	24.71	25.09	25.15	25.94	26.03
30	27.33	23.41	---	---	---	23.00	24.10	24.72	25.12	25.18	25.94	26.06
31	27.39	---	---	25.01	---	23.08	---	24.73	---	25.21	25.93	---
MAX	27.67	27.46	---	---	25.06	23.75	24.10	24.73	25.12	25.21	25.98	26.20

WTR YR 1986 MEAN 24.90 HIGH 22.79 MAR 19 LOW 27.67 OCT 8 AND OTHERS

7378

401712084103500. 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.
INSTRUMENATION.--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, 62.55 ft below land-surface datum, aug. 10, 1986

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82.67	69.91	75.12	70.72	79.48	80.16	77.79	80.25	76.26	75.70	63.06	69.63
2	84.72	75.07	81.53	79.55	72.24	70.84	78.71	82.15	78.05	76.90	62.78	75.08
3	81.09	71.22	80.83	78.10	79.27	80.05	83.60	77.36	76.66	78.29	62.77	73.41
4	78.46	77.81	80.90	78.89	80.55	82.15	78.21	69.67	79.57	71.61	63.05	74.52
5	78.42	82.42	81.69	77.11	80.73	82.73	79.09	75.30	78.36	70.34	63.07	74.93
6	74.32	83.86	82.08	80.92	78.82	80.71	70.55	76.95	75.28	68.21	62.87	72.60
7	79.47	84.00	81.37	80.63	79.17	81.91	78.30	76.91	76.05	73.82	62.78	71.31
8	82.16	82.30	72.55	82.51	76.90	80.54	77.27	79.15	74.29	74.60	62.80	76.93
9	80.28	81.15	78.51	81.88	72.83	74.36	78.94	82.20	77.30	75.15	62.76	78.06
10	81.55	76.46	80.83	79.14	80.14	83.35	82.83	73.44	76.65	77.47	62.55	75.15
11	80.41	84.22	81.13	80.36	80.02	79.63	79.70	73.49	81.79	77.66	62.96	76.15
12	78.98	84.52	81.18	71.83	78.98	78.16	79.00	77.20	75.86	71.79	63.22	77.62
13	73.88	85.60	80.71	80.37	80.69	80.82	72.32	79.67	78.47	72.80	63.26	72.35
14	79.43	85.53	81.00	80.38	78.55	81.96	78.82	78.40	72.98	75.17	63.28	69.34
15	81.12	82.51	71.89	80.51	80.17	80.34	81.09	81.46	76.70	74.78	63.33	73.91
16	79.65	80.14	78.54	81.50	69.83	73.26	79.34	85.56	82.78	76.23	63.24	74.62
17	83.28	79.97	79.99	78.62	79.77	76.90	82.13	78.20	76.41	76.92	63.14	74.17
18	79.91	86.03	79.93	79.00	79.52	81.91	80.03	70.88	77.81	75.78	63.45	73.80
19	82.10	83.57	81.62	76.43	78.41	81.65	77.31	75.85	78.61	70.54	63.49	74.37
20	80.34	82.69	79.22	79.20	77.10	77.91	72.97	75.41	78.87	68.48	63.59	71.77
21	81.60	82.18	80.84	83.11	82.94	79.30	77.18	77.39	70.00	73.24	63.56	71.87
22	80.56	81.70	75.09	82.12	78.91	79.05	80.77	79.04	68.49	74.63	63.58	75.27
23	81.90	81.55	78.17	80.48	72.02	74.68	75.42	80.64	74.95	76.54	63.41	74.29
24	81.86	76.83	74.69	80.98	79.49	81.95	77.12	76.64	77.47	75.30	63.20	74.18
25	85.55	81.05	72.38	81.48	79.17	81.55	80.80	65.96	75.41	74.41	63.48	73.36
26	79.07	80.92	80.39	74.48	81.48	81.59	75.87	72.97	75.60	71.21	71.62	73.72
27	74.73	82.19	79.61	79.78	82.57	79.51	71.97	76.27	74.78	68.96	74.11	71.74
28	80.75	74.70	75.52	77.08	83.02	74.75	76.89	76.81	72.12	71.34	76.07	70.02
29	83.83	73.22	79.34	76.00	---	69.78	78.24	79.03	73.33	63.34	75.94	74.98
30	83.01	70.17	83.32	79.33	---	70.97	79.01	77.77	75.36	63.17	73.57	73.73
31	78.38	---	79.74	79.77	---	79.35	---	75.54	---	63.04	66.74	---
MAX	85.55	86.03	83.32	83.11	83.02	83.35	83.60	85.56	82.78	78.29	76.07	78.06

WTR YR 1986 MEAN 76.56 HIGH 62.55 AUG 10 LOW 86.03 NOV 18

GROUND-WATER RECORDS

STARK COUNTY

404939081203800. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.87	36.44	32.95	31.44	32.90	32.01	32.32	32.36		34.86	34.86	35.05
2	35.90	36.45	32.91	31.42	32.96	31.78	---	32.58		35.10	34.87	35.05
3	35.92	35.86	33.49	31.94	32.99	31.63	---	32.68		35.00	34.89	35.04
4	35.95	35.76	33.54	32.35	33.00	32.80	---	32.74		35.09	34.89	35.20
5	35.98	35.71	33.54	31.53	33.25	32.65	---	32.82		34.74	35.20	35.09
6	36.01	35.64	33.57	31.53	33.16	32.52	---	32.94		34.82	34.89	35.08
7	36.03	35.54	33.58	32.26	33.01	32.59	---	32.94		35.80	34.88	35.08
8	36.06	35.48	33.56	32.32	33.00	32.61	---	33.42		35.81	34.89	35.75
9	36.08	35.41	33.57	31.88	32.96	32.58	---	33.64		35.15	34.90	36.05
10	36.10	35.34	33.56	31.63	33.24	32.57	---	33.71		35.04	34.91	35.46
11	36.12	35.28	33.54	31.61	32.99	32.63	---	33.75		34.99	34.94	35.33
12	36.13	35.19	33.50	31.55	32.91	32.63	---	33.79		34.94	34.94	35.28
13	36.14	35.07	33.41	31.56	32.74	32.63	---	33.84		34.92	34.94	35.28
14	35.50	34.94	33.33	31.58	32.59	32.61	---	33.90		34.89	34.94	35.26
15	35.43	34.84	33.25	31.59	33.00	32.59	---	33.95		35.20	34.94	35.45
16	35.42	34.69	32.50	32.14	32.89	32.56	---	---		34.86	34.95	35.24
17	35.42	34.57	32.28	32.27	33.07	32.54	---	---		34.94	34.96	35.24
18	35.98	34.42	32.13	31.70	32.89	32.51	---	---		34.88	34.98	35.20
19	36.13	34.66	32.03	31.61	32.84	32.45	---	---		34.79	34.99	35.18
20	36.19	34.09	31.92	31.59	33.09	32.49	---	---		34.76	35.01	35.39
21	36.23	33.98	31.84	31.79	32.92	32.48	---	---		34.76	35.01	35.20
22	36.50	33.83	31.75	31.58	33.20	32.45	---	---		34.76	35.02	35.18
23	36.33	33.69	31.65	31.57	32.89	32.39	---	---		34.77	35.67	35.15
24	36.35	33.58	31.59	31.54	32.83	32.42	---	---		35.13	35.23	35.15
25	36.36	33.49	31.57	31.49	32.78	32.38	---	---		35.14	35.09	35.15
26	36.37	33.38	31.54	32.16	32.73	32.34	---	---		34.81	35.08	35.14
27	36.38	33.28	31.50	32.44	32.88	32.34	---	---		34.81	35.09	35.12
28	36.40	33.19	31.49	32.58	33.18	32.34	---	33.89		34.80	35.13	35.09
29	36.40	33.33	31.44	32.65	---	32.31	---	34.26		34.81	35.01	35.27
30	36.42	33.03	31.45	32.77	---	32.31	31.77	33.98		34.82	35.30	35.13
31	36.43	---	31.42	32.87	---	32.34	---	34.00		34.84	35.05	---
MAX	36.50	36.45	33.58	32.87	33.25	32.80	---	---		35.81	35.67	36.05

WTR YR 1986 MEAN 33.94 HIGH 31.42 DEC 31 AND OTHERS LOW 36.50 OCT 22

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, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Nov. 1, 1985	10.84	Apr. 30, 1986	9.33

405211081253500. 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 PEPIOD OF RECORD.--Maximum daily low, 49.55 ft below land-surface datum, Sept. 18, 1986; minimum daily low, 7.10 ft below land-surface da um, June 15, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.25	17.65	11.75	11.30	11.60	10.10	9.85	28.70	30.10	---	33.20	48.20
2	15.25	17.45	11.65	11.20	11.55	10.00	10.00	20.50	30.60	42.10	32.50	---
3	15.25	17.10	11.70	11.35	11.40	10.05	10.05	22.85	29.80	43.05	36.15	---
4	---	16.90	11.70	11.35	11.35	10.10	22.45	26.70	33.60	43.65	37.95	---
5	---	16.55	11.65	11.35	11.20	10.10	24.75	27.55	35.55	44.05	39.50	47.35
6	---	16.20	11.60	11.40	11.10	10.00	18.80	21.00	36.70	42.85	40.20	47.65
7	---	15.75	11.55	11.60	10.85	10.25	25.60	18.30	36.40	42.45	42.50	48.30
8	---	15.40	11.55	11.65	10.85	10.25	27.35	24.70	36.90	42.65	43.30	48.30
9	---	15.20	11.55	11.60	10.75	10.15	---	27.80	36.85	43.25	43.95	48.30
10	---	15.00	11.50	11.60	10.50	10.05	---	20.15	36.35	43.45	44.05	48.40
11	---	14.85	11.50	11.65	10.50	10.15	---	17.50	37.55	43.55	44.05	48.95
12	---	14.50	11.25	11.60	10.50	10.15	---	16.45	37.85	43.65	44.80	49.20
13	---	14.20	11.05	11.60	10.55	10.15	---	15.95	38.20	43.70	45.65	---
14	---	13.65	10.90	11.65	10.50	10.00	---	15.55	38.80	39.50	45.85	---
15	---	13.70	10.85	11.75	10.50	9.80	---	15.25	39.00	41.10	---	49.30
16	---	13.60	10.85	11.80	10.50	9.55	---	18.10	39.30	41.85	---	49.25
17	---	13.05	10.90	11.80	10.40	9.55	---	24.60	39.55	42.50	---	---
18	---	12.90	10.90	11.75	10.35	9.55	---	28.10	39.75	42.60	---	49.55
19	---	12.70	10.95	11.65	10.40	9.45	---	30.20	41.25	42.90	---	---
20	---	12.60	10.95	11.50	10.40	9.65	---	30.00	42.00	43.70	---	---
21	---	12.60	11.00	11.50	10.35	9.70	---	30.65	42.15	44.00	---	---
22	---	12.55	11.00	11.55	10.25	9.65	---	31.15	41.80	39.45	---	---
23	---	12.45	10.90	11.55	10.05	9.50	---	31.55	---	36.25	---	---
24	---	12.45	11.05	11.55	10.05	9.65	---	27.35	---	30.65	---	---
25	---	12.45	11.15	11.50	10.00	9.65	23.55	22.20	41.70	33.25	---	---
26	---	12.40	11.10	11.35	9.95	9.65	26.25	20.20	42.15	28.25	---	---
27	---	12.15	11.05	11.30	10.00	9.80	27.10	19.00	41.90	26.20	---	---
28	---	12.15	11.20	11.40	10.10	9.80	27.95	17.90	42.70	25.95	---	---
29	---	12.00	11.20	11.45	---	9.75	28.70	17.20	43.15	---	47.90	---
30	---	11.80	11.20	11.60	---	9.80	29.20	21.95	---	27.75	48.05	47.55
31	---	---	11.25	11.60	---	9.85	---	26.25	---	30.70	48.15	---
MAX	---	17.65	11.75	11.80	11.60	10.25	---	31.55	---	---	---	---

WTR YR 1986 MEAN 22.17 HIGH 9.45 MAR 19 LOW 49.55 SEP 18

7378

410141081315200. Local number, SU-4A.
LOCATION.--Lat 41°01'41", long 81°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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.74	19.74	13.53	11.91	11.45	10.25	9.69			---	15.07	16.72
2	17.79	19.75	13.45	11.92	11.44	10.25	9.70			---	15.13	16.76
3	17.84	19.74	13.40	11.93	11.42	10.25	9.72			---	15.19	16.79
4	17.90	19.67	13.36	11.93	11.39	10.25	9.73			---	15.24	16.83
5	17.95	19.57	13.32	11.93	11.33	10.26	9.75			---	15.30	16.87
6	18.00	19.15	13.28	11.94	11.21	10.26	9.76			---	15.36	16.90
7	18.06	18.38	13.24	11.96	11.10	10.27	9.78			--	15.41	16.94
8	18.12	17.81	13.20	11.99	11.00	10.29	9.79			---	15.47	16.99
9	18.21	17.39	13.16	11.99	10.91	10.30	9.80			---	15.54	17.02
10	18.29	17.06	13.12	11.99	10.84	10.30	9.88			---	15.62	17.10
11	18.37	16.74	13.08	12.00	10.78	10.30	9.89			---	15.69	17.17
12	18.44	16.41	12.94	12.00	10.73	10.28	9.91			---	15.76	17.23
13	18.51	16.13	12.71	12.00	10.70	10.25	9.92			---	15.82	17.29
14	18.59	15.89	12.51	12.02	10.67	10.18	---			---	15.89	17.33
15	18.66	15.66	12.36	12.04	10.65	10.09	---			---	15.95	17.38
16	18.59	15.41	12.24	12.05	10.64	10.01	---			---	16.01	17.44
17	18.75	15.13	12.16	12.05	10.63	9.94	---			---	16.09	17.50
18	18.83	14.77	12.09	12.05	10.62	9.90	---			---	16.16	17.56
19	18.92	14.46	12.05	12.04	10.60	9.85	---			---	16.23	17.61
20	19.00	14.24	12.01	12.00	10.57	9.79	---			---	16.30	17.66
21	19.08	14.11	11.97	11.92	10.54	9.76	---			---	16.35	17.71
22	19.16	14.01	11.95	11.85	10.49	9.75	---			---	16.39	17.76
23	19.24	13.94	11.92	11.78	10.43	9.73	---			---	16.43	17.82
24	19.33	13.89	11.90	11.73	10.37	9.71	---			---	16.47	17.87
25	19.40	13.86	11.89	11.67	10.33	9.70	---			---	16.50	17.93
26	19.48	13.82	11.89	11.61	10.30	9.69	---			---	16.52	17.98
27	19.55	13.80	11.89	11.56	10.27	9.68	---			---	16.55	18.01
28	19.61	13.75	11.89	11.52	10.25	9.68	---			14.83	16.59	18.01
29	19.66	13.69	11.89	11.49	---	9.68	---			14.89	16.62	17.96
30	19.70	13.60	11.90	11.47	---	9.68	---			14.95	16.66	17.89
31	19.73	---	11.90	11.46	---	9.69	---			15.01	16.69	---
MAX	19.73	19.75	13.53	12.05	11.45	10.30	---			---	16.69	18.01

WTR YR 1986 MEAN 13.98 HIGH 9.68 MAR 27 AND OTHERS LOW 19.75 NOV 2

GROUND-WATER RECORDS

SUMMIT 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 3.00 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.96	26.10	22.46	25.51	29.64	23.93	24.83	24.30	23.25		---	25.27
2	44.03	25.50	22.75	27.01	29.09	23.20	24.84	23.34	23.52		---	26.23
3	44.52	24.55	23.31	26.21	27.70	23.66	25.14	22.03	23.77		---	26.42
4	43.84	25.07	23.44	26.39	26.62	24.02	25.65	22.12	23.97		---	26.73
5	43.22	25.57	24.80	25.32	26.46	24.50	25.47	24.46	24.94		---	25.63
6	42.10	26.03	25.13	25.28	27.24	25.25	24.85	25.18	25.03		---	24.92
7	42.94	26.32	25.51	25.29	27.83	24.92	24.30	25.03	23.86		---	24.04
8	42.89	26.96	25.65	25.94	27.83	25.43	24.30	24.88	23.14		---	23.89
9	40.68	26.75	25.69	25.92	27.79	25.33	24.95	24.14	23.36		---	24.46
10	38.38	26.22	24.70	26.01	28.37	24.70	25.48	24.15	23.58		---	26.03
11	35.93	24.83	23.77	25.90	28.83	24.24	24.96	22.96	---		---	27.14
12	34.38	24.67	24.66	25.43	29.02	24.88	25.10	23.09	---		---	26.72
13	32.54	25.52	25.03	25.72	29.24	24.88	25.29	23.20	---		---	25.22
14	31.69	25.89	24.91	25.94	29.39	25.07	25.29	23.50	---		---	24.90
15	31.17	25.61	25.67	25.94	29.36	24.98	24.58	23.66	---		---	25.25
16	30.69	25.14	24.31	25.75	29.28	24.25	24.36	23.48	---		---	27.25
17	29.63	23.89	24.13	25.62	29.23	24.83	24.27	23.41	---		---	28.23
18	29.41	23.95	24.39	25.59	29.08	24.92	24.27	23.00	---		---	27.70
19	29.17	25.60	24.22	24.86	28.91	24.62	23.86	23.00	---		---	28.57
20	27.86	24.97	24.79	23.88	27.06	24.40	23.30	22.78	---		---	28.51
21	27.52	25.32	23.59	23.85	26.27	25.15	22.89	22.75	---		26.81	27.28
22	27.34	25.93	22.89	24.15	25.73	25.11	22.70	23.02	---		27.18	26.25
23	27.71	25.43	22.99	24.26	24.71	24.74	22.74	23.32	---		26.55	26.17
24	28.51	23.87	22.98	24.22	24.49	24.70	23.18	23.27	---		25.73	26.89
25	28.53	23.51	23.05	24.01	24.47	24.78	23.67	23.23	---		26.08	27.51
26	27.19	24.55	23.66	23.89	24.41	24.98	23.15	23.27	---		26.53	28.81
27	25.70	25.23	25.37	25.60	24.22	24.86	22.55	23.68	---		27.24	28.70
28	26.17	24.98	24.53	27.13	24.17	24.70	23.31	23.81	---		25.91	28.37
29	26.17	23.31	24.56	28.53	---	24.09	24.12	24.02	---		25.11	28.89
30	25.59	22.80	24.36	29.41	---	24.08	24.71	24.16	---		24.83	28.93
31	25.73	---	25.31	29.75	---	24.31	---	24.06	---		24.31	---
MAX	44.52	26.96	25.69	29.75	29.64	25.43	25.65	25.18	---		---	28.33

WTR YR 1986 MEAN 26.03 HIGH 22.03 MAY 3 LOW 44.52 OCT 3

7378

TOP

Film Identification

Century

1303 Geneva Avenue
St. Paul, MN 55119

PRECISION℠ RESOLUTION TARGETS

LEFT

RIGHT

150 MM

6"

PM-3 8½"x11" PHOTOGRAPHIC GENERAL TARGET
NBS 1010a ANSI/ISO #2 EQUIVALENT

000296

7378

TUSCARAWAS COUNTY

40320708129380O. 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 31, 1985	11.62	Jan. 31, 1986	11.05	Apr. 30, 1986	11.50	Aug. 29, 1986	13.39
Nov. 27, 1985	8.72	Feb. 28, 1986	9.84	May 30, 1986	12.64	Sept. 30, 1986	11.35
Dec. 20, 1985	10.39	Mar. 31, 1986	10.18	Jul. 31, 1986	12.58		

000297

BEST COPY AVAILABLE

403557081313600. 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.
PERIOD OF RECORD.--June 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 10.[illegible] ft below land-surface datum, Nov. 3, 1982; minimum daily low, 4.05 ft below land-surface datum, July 13, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUE.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.30	10.57	7.75	8.18	8.47	7.64	7.73	8.53	9.18	9.40	9.04	9.77
2	10.37	10.54	7.78	8.23	8.42	7.56	7.76	8.56	9.29	9.35	9.13	9.81
3	10.43	10.49	7.87	8.24	8.44	7.64	7.81	8.61	9.28	8.85	9.13	9.66
4	10.41	10.49	7.89	8.33	8.34	7.64	7.84	8.58	9.30	8.80	9.13	9.67
5	10.44	10.25	7.89	8.28	8.11	7.63	7.94	8.63	9.34	8.64	9.17	9.68
6	10.36	10.05	7.89	8.34	7.93	7.68	7.87	8.67	9.32	8.89	9.22	9.96
7	10.43	9.99	8.03	8.41	7.80	7.90	7.93	8.69	9.32	9.00	9.23	9.88
8	10.50	9.99	7.98	8.45	7.58	7.86	7.95	8.70	9.29	9.00	9.26	9.93
9	10.50	10.00	8.05	8.44	7.48	7.75	8.00	8.74	9.35	8.97	9.33	9.94
10	10.45	9.91	8.09	8.46	7.43	7.80	8.02	8.73	9.29	8.58	9.30	9.98
11	10.47	9.75	8.06	8.59	7.45	7.78	8.06	8.74	9.37	8.53	9.32	9.98
12	10.48	9.50	7.72	8.50	7.44	7.72	8.10	8.81	9.33	8.44	9.35	9.96
13	10.47	9.16	7.67	8.59	7.48	7.63	8.11	8.84	9.47	8.28	9.37	9.94
14	10.48	9.00	7.44	8.67	7.50	7.48	8.16	8.90	9.37	8.32	9.39	9.99
15	10.48	8.86	7.40	8.67	7.53	7.33	8.22	8.91	9.33	8.38	9.43	9.99
16	10.49	8.70	7.46	8.66	7.66	7.33	8.25	8.94	9.43	8.38	9.50	9.99
17	10.49	8.28	7.52	8.69	7.59	7.32	8.23	8.92	9.40	8.46	9.50	9.99
18	10.53	8.22	7.57	8.69	7.65	7.30	8.27	8.92	9.42	8.46	9.50	9.99
19	10.50	8.27	7.63	8.52	7.63	7.28	8.37	8.98	9.44	8.59	9.53	9.99
20	10.48	8.24	7.66	8.24	7.59	7.23	8.26	9.00	9.46	8.54	9.54	---
21	10.51	8.20	7.70	8.25	7.54	7.24	8.32	9.00	9.44	8.62	9.59	---
22	10.50	8.12	7.72	8.20	7.47	7.42	8.24	9.05	9.50	8.68	9.59	---
23	10.53	8.22	7.82	8.20	7.50	7.38	8.35	9.08	9.51	8.70	9.65	---
24	10.59	8.25	7.83	8.20	7.41	7.42	8.29	9.09	9.53	8.77	9.63	---
25	10.54	8.22	7.88	8.26	7.44	7.44	8.38	9.08	9.54	8.79	9.64	9.99
26	10.59	8.22	7.93	8.18	7.44	7.47	8.42	9.11	9.56	8.88	9.70	9.99
27	10.50	8.18	7.99	8.22	7.51	7.50	8.40	9.14	9.59	8.82	9.69	9.99
28	10.54	7.99	8.11	8.28	7.52	7.55	8.51	9.18	9.36	8.91	9.75	9.99
29	10.54	7.99	8.04	8.28	---	7.53	8.61	9.21	9.39	8.93	9.74	9.95
30	10.56	7.80	8.11	8.30	---	7.65	8.58	9.23	9.40	8.96	9.83	10.00
31	10.56	---	8.13	8.30	---	7.65	---	9.15	---	9.01	9.74	---
MAX	10.59	10.57	8.12	8.69	8.47	7.86	8.61	9.23	9.59	9.40	9.83	---

WTR YR 1986 MEAN 8.79 HIGH 7.28 MAR 19 LOW 10.59 OCT 24 AND OTHERS

7378

403653081321800. Local number, TU-1.
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, 15.64 ft below land-surface datum, Nov. 3, 1985; minimum daily low, 6.64 ft below land-surface datum, July 14, 19..

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.30	15.63	11.81	12.36	12.83	11.47	11.75	12.90	13.88	14.05	13.58	14.61
2	15.31	15.63	11.73	12.39	12.86	11.50	11.80	12.96	13.92	14.05	13.61	14.64
3	15.31	15.64	---	12.49	12.86	11.57	11.84	12.99	13.94	13.77	13.66	14.66
4	15.31	15.63	---	12.50	12.79	11.61	11.91	13.01	13.97	13.60	13.70	14.68
5	15.32	15.53	---	12.57	12.63	11.62	11.96	13.05	13.98	13.60	13.75	14.71
6	15.32	15.38	11.91	12.64	12.36	11.67	11.99	13.13	13.99	13.64	13.79	14.73
7	15.32	15.24	---	12.71	12.08	11.76	12.03	13.13	13.96	13.69	13.83	14.76
8	15.38	15.16	12.03	12.74	11.86	11.79	12.09	13.17	13.93	13.74	13.88	14.78
9	15.40	15.11	12.11	12.77	11.64	11.81	12.14	13.21	13.99	13.73	13.91	14.81
10	15.41	15.10	12.14	12.83	11.49	11.81	12.17	13.24	14.01	13.20	13.94	14.83
11	15.44	15.03	12.15	12.86	11.36	11.83	12.24	13.27	14.02	13.06	13.98	14.85
12	15.44	14.72	11.94	12.90	11.37	11.79	12.29	13.32	14.01	12.86	14.00	14.86
13	15.45	14.30	11.63	12.98	11.43	11.73	12.33	13.35	14.00	12.66	14.03	14.86
14	15.46	13.91	11.45	13.03	11.49	11.60	12.36	13.39	14.01	12.49	14.07	14.88
15	15.46	13.64	11.33	13.05	11.58	11.43	12.42	13.43	14.03	12.50	14.10	14.90
16	15.47	13.42	---	13.09	11.60	11.28	12.44	13.47	14.04	12.57	14.13	14.94
17	15.48	13.06	---	13.12	11.65	11.21	12.51	13.49	14.05	12.65	14.18	14.96
18	15.49	12.70	---	13.09	11.65	11.16	12.54	13.51	14.08	12.70	14.20	14.98
19	15.50	12.53	---	13.02	11.65	11.13	12.57	13.52	14.09	12.77	14.24	14.98
20	15.51	12.38	---	12.92	11.64	11.14	12.58	13.56	14.10	12.83	14.27	14.99
21	15.51	12.34	---	12.76	11.54	11.15	12.61	13.58	14.12	12.91	14.31	15.01
22	15.52	12.30	---	12.62	11.50	11.18	12.61	13.61	14.15	13.00	14.34	15.04
23	15.53	12.38	---	12.60	11.39	11.24	12.61	13.65	14.18	13.06	14.37	15.05
24	15.53	12.47	---	12.58	11.33	11.31	12.62	13.68	14.20	13.11	14.40	15.05
25	15.53	12.49	---	12.56	11.32	11.35	12.64	13.71	14.23	13.18	14.43	15.05
26	15.55	12.50	---	12.56	11.30	11.40	12.69	13.75	14.24	13.22	14.45	15.04
27	15.56	12.39	---	12.59	11.36	11.48	12.72	13.77	14.23	13.25	14.49	15.04
28	15.56	12.23	---	12.64	11.42	11.50	12.77	13.80	14.06	13.31	14.51	15.04
29	15.57	12.08	---	12.74	---	11.55	12.81	13.83	14.00	13.36	14.53	15.01
30	15.58	11.93	---	12.79	---	11.61	12.86	13.84	14.01	13.42	14.56	15.02
31	15.60	---	12.32	12.82	---	11.67	---	13.86	---	13.52	14.58	---
MAX	15.60	15.64	---	13.12	12.86	11.83	12.86	13.86	14.24	14.05	14.58	15.05

WTR YR 1986 MEAN 13.35 HIGH 11.13 MAR 19 LOW 15.64 NOV 3

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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.77	12.02	5.15	7.57	8.27	6.92	6.21	7.69	8.12	9.00	8.85	9.71
2	10.79	12.25	5.16	7.73	8.38	6.99	6.42	7.71	8.10	9.06	8.78	10.05
3	10.89	12.10	---	8.13	8.00	6.86	6.48	7.77	8.11	8.71	8.63	10.08
4	10.89	11.91	---	7.93	8.09	6.59	6.96	7.52	8.60	8.35	9.05	10.23
5	10.76	11.88	---	7.75	7.76	6.76	6.84	7.51	8.75	7.89	9.26	10.20
6	10.88	11.23	---	8.03	6.65	6.87	6.83	7.52	8.53	8.18	9.26	10.23
7	10.52	10.75	---	8.47	5.61	6.92	6.51	7.70	8.56	8.05	9.38	10.36
8	11.17	10.70	---	8.48	5.78	6.99	6.70	7.71	8.18	8.48	9.61	10.42
9	11.05	10.61	---	8.45	5.40	7.00	6.69	7.69	8.16	8.58	9.64	10.60
10	11.43	10.62	---	8.71	4.65	6.90	6.72	7.82	8.57	7.88	9.10	10.56
11	11.47	10.34	---	8.72	5.00	6.49	7.01	7.56	8.72	7.92	9.06	10.64
12	11.39	9.33	---	8.76	5.34	6.50	7.00	8.19	8.76	7.79	9.08	10.90
13	10.87	8.47	---	9.00	---	6.89	7.42	8.30	8.88	6.89	9.34	10.56
14	10.74	7.53	---	9.01	---	6.52	7.06	8.14	8.95	6.76	9.92	10.56
15	11.06	6.88	---	8.96	5.85	5.50	7.03	8.02	8.44	7.14	9.96	10.27
16	10.94	6.25	---	9.15	6.03	5.35	7.16	8.12	8.32	7.34	9.94	10.47
17	10.66	5.62	---	9.42	6.47	5.21	7.17	8.09	8.32	7.51	9.45	10.52
18	11.13	5.66	---	9.58	6.46	5.24	7.27	7.76	8.79	7.99	9.40	10.51
19	11.42	5.46	---	9.44	6.35	5.69	7.18	8.18	8.85	8.13	9.63	10.76
20	11.29	5.13	---	8.92	6.21	5.34	7.26	8.07	8.85	8.01	9.76	10.36
21	11.39	5.23	---	8.58	6.18	5.40	7.56	7.83	8.94	8.25	9.72	10.40
22	11.58	5.35	---	8.22	5.87	5.65	7.60	7.85	8.74	8.39	9.97	10.37
23	11.61	5.74	---	8.28	5.68	5.73	7.27	7.72	9.07	8.69	10.03	10.48
24	11.94	5.46	---	8.26	5.68	5.92	7.18	7.58	9.23	8.88	9.61	10.53
25	11.93	5.07	---	8.37	5.97	6.24	7.60	7.65	9.31	8.90	9.70	10.54
26	11.95	6.33	---	8.02	6.10	6.16	7.51	7.51	9.26	8.72	9.80	10.54
27	11.32	6.12	---	8.13	6.24	6.20	7.58	8.03	9.35	8.63	9.91	10.44
28	11.27	5.82	---	8.12	6.44	6.12	7.61	7.94	---	8.51	9.83	9.90
29	11.28	5.19	---	---	---	6.25	7.69	7.99	---	8.64	9.86	10.09
30	11.26	5.55	---	---	---	6.18	7.56	8.11	---	8.67	9.90	10.21
31	11.09	---	7.38	8.27	---	6.05	---	8.05	---	8.70	9.73	---
MAX	11.99	12.25	---	---	---	7.00	7.69	8.30	---	9.06	10.03	10.90

WTR YR 1986 MEAN 8.28 HIGH 4.65 FEB 10 LOW 12.25 NOV 2

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 2.00 ft above land-surface datum.
PERIOD OF RECORD.--January 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.69 ft below land-surface datum, Oct. 17, 1985; minimum daily low, 19.32 ft below land-surface datum, Feb. 24, 1975.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.45	24.39	21.88	22.75	22.64	22.00	21.69	22.05	22.35	22.61	22.93	23.81
2	24.50	24.51	22.13	22.75	22.53	21.91	21.76	22.19	22.59	22.29	23.01	23.82
3	24.48	24.47	22.27	22.80	22.34	21.98	21.78	22.28	22.60	22.14	23.15	23.85
4	24.42	24.40	22.27	22.80	22.13	21.97	21.82	22.26	22.56	22.18	23.17	23.79
5	24.39	24.30	22.24	22.80	21.37	21.92	21.94	22.16	22.59	22.26	23.15	23.77
6	24.47	24.34	22.40	22.93	21.40	21.62	21.91	22.18	22.49	22.35	23.14	23.90
7	24.52	24.38	22.42	23.13	21.35	21.92	21.86	22.22	21.94	22.42	23.14	23.90
8	24.55	24.40	22.42	23.12	21.48	21.95	21.87	22.26	21.97	22.44	23.22	23.95
9	24.58	24.37	22.53	23.05	21.58	21.88	21.97	22.33	22.10	22.38	23.20	23.98
10	24.50	24.29	22.51	22.97	21.61	21.69	21.91	22.40	22.10	22.42	23.24	23.95
11	24.53	23.98	22.37	22.98	21.76	21.38	21.91	22.40	22.03	22.38	23.34	23.90
12	24.51	23.82	21.34	22.86	21.86	21.39	22.04	22.35	22.09	22.18	23.41	23.85
13	24.49	23.54	21.49	22.99	21.96	21.10	22.13	22.38	22.27	22.11	23.41	23.90
14	24.48	23.21	21.68	23.06	21.91	20.63	22.13	22.40	22.30	22.21	23.39	23.98
15	24.52	23.15	21.78	23.13	22.08	20.92	22.10	22.46	22.31	22.29	23.43	23.89
16	24.64	23.03	21.89	23.13	22.07	21.10	22.15	22.41	22.31	22.29	23.42	24.02
17	24.69	22.79	21.96	23.02	22.01	21.18	22.25	22.36	22.44	22.35	23.44	24.00
18	24.61	22.81	22.18	22.91	21.84	21.18	22.29	22.39	22.49	22.39	23.48	23.90
19	24.56	22.80	22.24	22.56	21.65	20.81	22.26	22.41	22.47	22.42	23.53	23.83
20	24.58	22.96	22.23	22.29	21.65	21.06	22.19	22.43	22.52	22.45	23.58	23.76
21	24.56	22.97	22.35	22.29	21.67	21.22	21.77	22.45	22.59	22.59	23.64	23.79
22	24.58	22.92	22.28	22.44	21.66	21.26	21.81	22.47	22.61	22.64	23.67	23.76
23	24.56	22.97	22.18	22.47	21.77	21.30	21.92	22.49	22.48	22.71	23.63	23.68
24	24.51	23.03	22.36	22.47	21.71	21.52	21.93	22.58	22.54	22.69	23.74	23.65
25	24.59	23.02	22.49	22.34	21.72	21.45	21.84	22.58	22.65	22.69	23.70	23.35
26	24.55	22.92	22.48	22.30	21.66	21.40	21.92	22.55	22.66	22.69	23.70	22.71
27	24.56	21.84	22.56	22.33	21.75	21.56	21.98	22.47	22.60	22.72	23.67	22.18
28	24.60	21.68	22.61	22.37	21.85	21.58	21.90	22.55	22.60	22.74	23.78	22.26
29	24.57	21.82	22.61	22.52	---	21.53	22.06	22.50	22.60	22.80	23.81	22.28
30	24.48	21.86	22.66	22.64	---	21.59	22.04	22.41	22.67	22.87	23.84	22.31
31	24.46	---	22.68	22.69	---	21.69	---	22.39	---	22.94	23.86	---
MAX	24.69	24.51	22.68	23.13	22.64	22.00	22.29	22.58	22.67	22.94	23.86	24.02

WTR YR 1986 MEAN 22.71 HIGH 20.63 MAR 14 LOW 24.69 OCT 17

GROUND-WATER RECORDS

VINTON COUNTY

391452082282900. Local number. V-1.
LOCATION.--Lat 39°14'52", long 82°28'29", Hydrologic Unit 05090101, State Highway garage in McArthur.
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 720 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83.39	82.12	80.60	81.23	80.66	80.54	79.99	79.98	79.66		---	81.27
2	83.42	81.93	80.60	81.14	80.67	80.32	80.00	80.13	79.78		---	81.32
3	83.31	81.98	80.71	81.11	80.70	80.26	80.03	80.12	79.97		---	81.34
4	83.25	81.79	80.72	81.11	80.52	80.45	80.17	80.11	80.01		---	81.31
5	83.10	81.64	80.72	81.12	80.40	80.44	80.36	79.97	79.95		---	81.28
6	83.14	81.69	80.68	81.08	80.35	80.18	80.30	79.92	79.92		---	81.31
7	83.14	81.67	80.67	81.24	80.43	80.29	80.13	80.05	---		---	81.34
8	83.30	81.82	80.59	81.36	80.56	80.44	80.18	79.98	---		---	81.37
9	83.27	81.84	80.58	81.29	80.62	80.23	80.16	80.11	---		---	81.28
10	83.36	81.66	80.60	81.04	80.49	80.39	80.17	80.12	---		---	81.24
11	83.36	81.68	80.63	80.92	80.66	80.39	80.11	79.94	---		---	81.08
12	83.35	81.67	80.46	80.92	80.60	80.39	80.25	79.90	---		---	81.14
13	83.12	81.59	80.43	80.80	80.70	80.21	80.09	79.94	---		81.15	81.44
14	82.94	81.48	80.42	80.89	80.60	80.06	80.16	80.04	---		81.12	81.40
15	82.92	81.49	80.51	80.91	80.82	80.16	80.06	79.96	---		81.14	81.28
16	83.01	81.25	80.37	81.06	80.70	80.24	80.09	80.03	---		81.18	81.41
17	83.07	81.11	80.45	80.94	80.65	80.31	80.13	79.97	---		81.15	81.41
18	83.01	81.06	80.77	80.93	80.61	80.24	80.17	79.96	---		81.10	81.36
19	82.86	81.15	80.92	80.68	80.62	80.02	80.18	79.95	---		81.10	81.36
20	82.73	81.10	80.90	80.63	80.49	80.28	80.10	79.98	---		81.12	81.52
21	82.44	81.21	80.92	80.66	80.56	80.28	79.95	80.06	---		81.16	81.49
22	82.50	80.90	80.90	80.64	80.59	80.26	79.97	80.15	---		81.18	81.52
23	82.46	80.91	81.22	80.72	80.64	80.22	80.08	79.95	---		81.19	81.42
24	82.53	80.89	81.22	80.72	80.56	80.29	80.07	80.05	---		81.20	81.41
25	82.65	80.91	81.28	80.56	80.61	80.31	80.00	79.98	---		81.31	81.57
26	82.59	80.80	81.31	80.53	80.40	80.16	79.99	79.94	---		81.30	81.72
27	82.38	80.67	81.06	80.31	80.22	80.17	79.92	79.90	---		81.30	81.03
28	82.47	80.52	81.11	80.37	80.53	80.33	79.92	79.94	---		81.41	81.55
29	82.42	80.54	80.91	80.42	---	80.15	80.05	79.99	---		81.42	81.54
30	82.30	80.58	81.06	80.64	---	80.03	80.04	79.85	---		81.36	81.53
31	82.23	---	80.94	80.65	---	80.16	---	79.92	---		81.44	---
MAX	83.42	82.12	81.31	81.36	80.82	80.54	80.36	80.15	---		---	81.73

WTR YR 1986 MEAN 80.92 HIGH 79.78 JUN 2 LOW 83.42 OCT 2

7378

392712084191700. Local number, W-5.
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.
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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.05	40.45	40.00	39.55	38.90	38.85	38.05	37.95	38.80	39.65	41.35	42.35
2	40.00	40.45	40.55	39.25	38.95	38.55	38.00	38.05	39.00	39.80	41.35	42.55
3	40.05	40.45	40.50	39.45	38.95	38.50	37.90	38.15	38.90	39.90	41.45	42.55
4	39.95	40.65	40.35	39.05	38.55	38.50	37.95	38.35	38.85	39.90	41.50	42.60
5	40.05	40.60	40.05	39.40	38.65	38.45	37.90	38.10	38.75	40.05	41.45	42.75
6	40.10	40.65	40.25	39.40	38.75	38.40	37.90	38.20	38.75	40.20	41.25	42.85
7	40.15	40.75	40.20	39.70	38.85	38.90	37.85	38.10	38.55	40.25	41.45	43.00
8	40.30	40.95	40.05	39.75	38.75	38.80	37.65	38.20	38.50	40.20	41.60	43.00
9	40.15	40.80	40.40	39.35	38.85	38.45	37.75	38.40	39.25	40.30	41.65	43.05
10	40.35	40.75	40.05	39.20	39.00	38.35	37.65	38.45	38.95	40.40	41.65	42.95
11	40.25	40.95	39.75	39.05	38.75	38.75	37.60	38.45	38.85	40.20	41.65	42.90
12	40.20	40.70	39.75	39.05	38.75	38.45	37.55	38.50	38.90	40.10	41.65	43.15
13	40.20	41.00	39.60	39.20	38.80	38.45	37.95	38.65	39.00	40.20	41.60	43.20
14	40.15	40.70	39.75	39.35	38.45	38.55	37.80	38.45	39.15	40.25	41.65	43.20
15	40.30	40.70	39.55	39.35	38.60	38.55	37.65	38.60	39.00	40.15	41.65	43.25
16	40.65	40.60	39.45	39.20	38.40	38.60	37.75	38.55	39.00	40.10	41.75	43.20
17	40.45	40.80	39.60	39.25	38.45	38.50	37.85	38.60	39.15	40.40	41.75	43.05
18	40.45	40.70	39.85	39.25	38.50	38.20	37.85	38.40	39.15	40.40	41.95	43.05
19	40.35	40.45	39.65	38.95	38.45	38.20	37.95	38.65	39.25	40.40	41.95	43.10
20	40.25	40.95	39.40	39.35	38.60	38.75	37.25	38.60	39.20	40.55	42.05	43.15
21	40.30	40.60	39.45	39.10	38.95	38.75	37.75	38.50	39.30	40.75	42.15	43.25
22	40.35	40.55	39.00	39.40	38.65	38.60	37.90	38.40	39.35	40.75	42.30	43.10
23	40.35	40.55	39.15	39.40	38.70	38.50	37.85	38.65	39.35	40.95	42.20	43.10
24	40.50	40.70	39.25	39.15	38.55	38.55	37.80	38.80	39.65	40.90	42.30	43.10
25	40.70	40.60	39.35	38.95	38.60	38.15	37.65	38.75	39.75	40.90	42.55	43.30
26	40.45	40.35	39.35	38.80	38.25	38.00	37.95	38.70	39.65	41.00	42.55	43.35
27	40.55	40.35	39.50	38.95	38.55	38.15	37.90	38.70	39.65	40.90	42.35	43.35
28	40.75	40.30	39.60	38.85	38.85	38.25	37.90	38.85	39.60	41.00	42.65	43.35
29	40.55	40.55	39.50	39.10	---	38.05	38.00	38.75	39.70	41.20	42.45	43.45
30	40.40	40.25	39.70	38.95	---	38.05	38.00	38.75	39.70	41.25	42.50	43.40
31	40.40	---	39.55	39.00	---	38.00	---	38.75	---	41.20	42.45	---
MAX	40.75	41.00	40.55	39.75	39.00	38.90	38.05	38.85	39.75	41.25	42.65	43.45

WTR YR 1986 MEAN 39.83 HIGH 37.25 APR 20 LOW 43.45 SEP 29

000303

392553081261600. 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, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.50	33.60	---	32.05	23.10	28.75	33.40	32.60	32.35	33.05	32.45	34.50
2	33.35	---	25.10	22.15	23.15	29.[illegible]0	33.55	32.60	32.35	32.90	32.40	34.55
3	33.[illegible]	---	25.80	32.40	22.55	29.70	33.60	32.70	32.45	32.55	32.45	34.60
4	33.25	33.30	26.40	32.25	22.30	29.90	33.35	32.80	32.50	32.15	32.40	34.65
5	33.45	31.50	26.95	32.35	31.20	30.45	32.00	32.95	33.60	32.25	32.40	34.65
6	33.35	29.60	27.55	32.50	28.25	30.60	32.05	33.00	32.65	32.25	32.35	34.65
7	33.25	27.00	27.45	32.65	28.00	31.00	32.20	33.15	33.80	32.55	32.45	34.65
8	33.25	25.55	27.60	32.90	26.50	30.95	32.35	33.25	32.70	32.65	32.50	34.55
9	33.35	29.35	28.30	32.90	26.95	31.10	32.40	33.20	33.35	32.05	32.60	34.30
10	33.50	29.55	28.55	33.05	27.65	31.50	32.35	33.25	33.35	31.20	32.05	34.30
11	33.50	29.35	28.40	33.05	28.00	31.15	32.55	33.30	33.75	30.65	32.05	34.50
12	33.50	28.90	27.75	33.05	28.55	30.65	32.55	33.40	33.85	30.30	32.20	34.60
13	33.40	28.00	27.10	33.35	28.65	30.00	32.50	33.35	33.85	30.05	32.30	34.65
14	33.25	28.10	26.65	---	28.00	29.65	32.50	33.45	32.85	30.05	32.35	34.55
15	33.55	28.20	26.55	33.50	29.45	29.00	32.55	33.45	32.50	30.40	32.45	34.55
16	32.70	26.80	27.25	33.75	29.25	27.85	32.60	33.40	32.55	30.35	32.45	34.45
17	33.85	24.00	27.95	33.60	30.00	27.55	32.50	33.40	32.70	30.65	32.45	34.55
18	33.70	23.50	28.40	33.85	29.55	27.60	32.45	33.30	32.70	30.90	32.50	34.55
19	33.60	26.10	28.85	33.65	28.80	27.95	32.35	33.45	32.75	31.00	32.65	34.45
20	33.35	27.50	29.10	33.55	27.75	28.35	32.10	33.30	32.65	31.10	32.65	34.50
21	33.35	27.95	29.75	33.25	27.75	28.55	32.25	33.30	32.65	31.00	32.65	34.05
22	33.40	28.20	30.05	32.25	27.40	28.80	32.25	33.30	32.65	30.30	32.70	34.25
23	33.55	28.65	30.45	31.90	27.10	28.75	32.10	33.10	32.75	30.30	32.75	34.40
24	33.50	28.65	30.65	31.85	27.35	29.35	32.05	33.15	32.80	30.35	32.65	34.45
25	33.60	28.85	30.50	31.55	27.75	29.90	32.15	33.10	32.95	30.60	32.75	34.25
26	33.50	29.15	30.60	31.50	27.45	30.10	32.10	33.00	33.15	30.55	32.80	34.35
27	33.45	27.40	31.15	31.75	28.35	30.65	32.05	32.60	33.15	30.70	32.85	34.00
28	33.00	24.35	31.40	32.15	28.55	30.45	32.30	33.35	33.35	30.00	33.00	34.35
29	33.70	21.10	31.55	32.45	---	30.95	32.40	33.15	32.95	31.00	33.60	34.15
30	32.65	20.05	31.85	---	---	31.05	32.35	33.20	33.00	31.25	34.25	34.25
31	33.50	---	32.05	33.20	---	31.20	---	33.10	---	32.15	34.40	---
MAX	33.85	---	---	---	33.15	31.50	32.60	33.45	33.85	33.05	34.40	34.65

WTR YR 1986 MEAN 31.55 HIGH 20.05 NOV 20 LOW 34.65 SEP 4 AND OTHERS

7378

WAYNE COUNTY

404655081552200. 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 fo 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.26											
2	14.16											
3	14.15											
4	14.15											
5	14.16											
6	14.17											
7	14.18											
8	14.22											
9	14.25											
10	14.28											
11	14.30											
12	14.33											
13	14.35											
14	14.36											
15	14.37											
16	14.37											
17	14.38											
18	14.41											
19	14.46											
20	14.48											
21	14.48											
22	14.53											
23	14.56											
24	---											
25	---											
26	---											
27	---											
28	---											
29	---											
30	---											
31	---											
MAX	---											

WTR YR 1986 MEAN 14.32 HIGH 14.15 OCT 2 AND OTHERS LOW 14.56 OCT 23

000305

404802081583100. 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, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.12	34.26	27.17	23.56	26.94	24.28	23.84	25.65	26.47	25.85	26.50	27.29
2	33.25	34.19	28.14	24.85	26.68	24.39	23.85	25.51	26.81	26.40	25.80	27.89
3	33.35	33.35	28.17	24.56	27.62	25.00	22.38	25.45	26.83	26.12	25.92	27.93
4	33.38	34.09	28.23	23.81	27.76	25.38	24.24	25.86	27.23	25.77	26.15	27.94
5	33.03	34.17	28.16	23.85	27.43	25.37	23.56	26.31	26.95	25.87	26.03	27.94
6	32.39	34.33	28.09	24.25	27.43	25.50	23.74	26.26	26.82	25.24	26.24	27.81
7	32.97	34.35	27.95	24.63	25.87	25.88	24.32	26.39	26.33	25.34	25.85	27.75
8	33.36	34.39	27.22	24.39	24.99	25.31	24.25	26.36	26.07	25.35	25.28	28.18
9	33.51	34.06	27.95	24.38	23.43	25.14	24.94	26.59	25.99	25.34	25.81	28.19
10	33.71	33.39	27.98	26.05	23.87	25.56	24.89	26.59	26.33	25.72	25.85	28.33
11	33.69	33.55	27.80	25.40	24.05	26.09	24.70	26.18	26.43	25.55	26.11	28.36
12	33.50	33.54	27.85	25.51	24.28	26.03	24.69	26.62	27.57	25.25	26.38	28.40
13	32.49	33.60	26.27	26.25	24.19	25.77	24.26	27.01	27.71	25.24	26.52	28.38
14	33.28	33.67	25.04	26.51	24.32	25.20	25.01	27.26	27.49	25.56	27.01	28.15
15	33.56	33.68	23.75	25.60	23.82	23.32	25.30	27.27	26.81	25.60	27.03	28.53
16	33.48	33.39	24.43	26.85	23.08	22.62	25.24	27.27	27.61	26.35	27.13	28.57
17	33.66	32.21	24.53	26.88	23.81	22.65	25.22	27.26	27.56	25.70	26.57	28.63
18	33.71	31.99	24.69	26.26	24.26	22.71	25.30	27.18	26.91	25.71	26.91	28.84
19	33.43	32.01	24.79	26.00	24.60	22.95	25.16	27.00	26.78	25.32	27.09	28.74
20	32.68	31.68	24.64	26.91	24.71	23.26	24.85	27.27	26.80	25.41	27.16	28.61
21	33.61	31.33	23.94	26.97	24.67	23.19	25.54	27.64	26.37	25.54	27.36	28.54
22	33.67	31.05	24.07	27.27	24.67	23.07	25.82	27.65	26.39	25.54	27.38	28.63
23	33.81	31.08	24.30	27.21	24.03	22.28	25.92	27.31	26.28	25.79	27.25	28.87
24	33.97	29.40	24.21	27.26	24.63	23.30	25.90	26.72	26.35	26.01	27.23	29.01
25	33.96	30.06	22.90	26.43	24.66	23.41	26.01	26.84	27.40	26.32	27.54	29.23
26	33.71	30.17	24.34	26.42	24.67	23.80	25.44	26.36	28.08	26.57	27.71	29.13
27	33.21	30.29	24.75	27.01	24.97	22.62	25.37	26.97	27.23	25.56	27.90	29.62
28	33.33	30.06	24.26	27.27	24.96	22.37	25.79	27.16	26.75	26.98	27.92	29.21
29	33.70	28.37	23.13	27.46	---	21.55	25.86	27.26	26.60	27.32	27.86	29.11
30	34.12	28.27	24.78	27.60	---	21.82	26.08	27.19	26.21	26.24	27.60	30.05
31	34.19	---	24.91	27.63	---	22.00	---	26.66	---	25.58	27.54	---
MAX	34.19	34.39	28.23	27.63	27.78	26.09	26.08	27.65	28.08	27.32	27.92	30.05

WTR YR 1986 MEAN 27.19 HIGH 21.55 MAR 29 LOW 34.39 NOV 8

7378

405745081510200. Local number, Wg-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, 5.28 ft below land-surface datum, Jan. 1, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.55	18.50	16.75	17.35	16.95	15.90	17.80	16.55	17.05	17.55	19.25	20.45
2	18.65	18.45	16.80	17.50	16.85	15.80	16.25	16.35	17.15	---	20.15	19.65
3	18.65	18.55	16.80	17.40	16.75	16.75	16.50	16.50	17.30	---	19.55	19.75
4	18.55	18.30	16.80	17.45	16.75	16.00	15.95	16.60	18.65	---	20.60	19.65
5	18.50	18.30	16.80	17.45	16.70	16.65	15.90	16.90	18.65	---	20.75	19.65
6	18.50	18.25	16.70	17.65	16.70	16.50	15.80	16.80	17.25	---	19.75	20.75
7	18.60	18.25	16.70	17.75	16.65	16.50	15.85	16.75	17.50	---	19.45	19.75
8	20.20	18.15	16.60	18.40	16.55	16.60	15.90	16.75	17.05	---	19.50	19.75
9	20.85	18.25	16.60	19.75	16.30	16.50	15.85	16.75	17.45	---	19.45	20.40
10	19.15	18.20	16.60	17.80	16.40	16.45	16.60	16.55	18.40	---	19.45	20.80
11	18.90	18.10	16.55	20.10	16.25	16.50	15.65	16.55	17.50	---	19.15	21.20
12	18.85	18.10	16.35	20.40	16.30	16.35	15.80	16.90	17.50	---	19.30	20.95
13	18.80	18.05	16.40	20.55	17.20	16.05	15.70	16.95	18.15	---	19.35	20.95
14	18.75	18.10	16.50	18.50	16.55	15.55	15.70	17.00	17.60	---	19.40	19.70
15	20.20	17.80	17.40	18.25	16.15	15.90	17.20	17.00	17.35	---	20.55	19.80
16	18.90	17.75	18.05	18.20	16.00	15.85	16.20	17.50	19.20	---	19.35	19.80
17	18.85	17.65	16.50	18.25	18.25	15.95	16.70	16.85	17.85	---	19.45	19.85
18	18.80	17.65	16.50	20.40	16.50	15.85	16.20	16.80	17.85	---	19.35	19.75
19	18.70	17.60	16.45	18.15	16.05	15.90	16.25	17.00	19.10	---	19.50	19.65
20	18.55	17.55	16.45	19.90	16.15	15.90	15.90	16.95	17.80	---	19.50	19.70
21	18.70	17.60	16.40	18.00	15.95	15.75	16.05	16.90	17.75	---	19.60	19.65
22	18.65	18.25	16.30	17.85	15.95	15.85	16.00	16.80	17.55	---	19.65	19.85
23	18.75	17.30	16.25	17.75	15.85	15.65	16.05	16.75	19.00	---	19.70	19.95
24	18.65	17.45	16.35	17.65	15.75	15.80	18.05	18.65	19.15	---	19.75	20.00
25	18.65	17.25	16.20	17.30	15.65	15.85	16.25	19.45	18.05	---	19.65	20.25
26	19.75	17.25	16.55	17.15	15.65	15.85	16.25	17.35	19.55	---	19.70	20.00
27	19.55	17.10	16.95	17.15	15.75	15.75	16.50	17.15	17.80	---	19.60	19.95
28	19.50	17.20	17.15	17.00	15.85	15.80	18.05	18.25	17.60	---	19.60	---
29	18.65	17.80	17.10	19.30	---	17.45	16.60	17.30	17.55	---	19.60	---
30	18.55	16.85	17.25	17.15	---	15.85	---	17.15	---	---	15.55	---
31	18.40	---	17.35	16.90	---	16.15	---	17.20	---	---	19.45	---
MAX	20.85	18.55	18.05	[illegible]	18.25	18.75	---	19.45	---	---	20.75	---

WTR YR 1986 MEAN 17.76 HIGH 15.65 FEB 25 AND OTHERS LOW 21.20 SEP 11

000307

BEST COPY AVAILABLE

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, IN FEET BELOW LAND SURFACE DATUM. WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75.41	75.78	79.92	78.40	78.42	81.52	81.55	81.57	81.73	81.81	82.17	78.39
2	75.52	75.90	79.42	78.32	78.26	81.42	81.64	81.85	82.10	81.71	82.17	78.36
3	75.43	75.93	79.34	78.70	78.25	81.39	81.59	81.98	82.15	81.97	82.35	78.36
4	75.21	75.93	79.32	78.15	78.01	81.40	81.59	81.28	81.95	82.32	82.45	78.22
5	75.19	75.93	79.10	77.86	78.05	81.46	81.56	81.54	81.85	82.04	82.40	78.16
6	75.40	76.03	79.13	78.75	78.17	81.15	81.52	81.45	81.85	82.11	82.37	78.27
7	75.55	76.16	79.13	78.47	78.10	81.77	81.48	81.85	81.81	82.07	82.18	78.39
8	76.02	76.40	78.53	78.57	78.26	81.89	81.27	81.62	82.00	82.02	82.12	78.45
9	76.18	76.40	79.14	78.26	78.28	81.51	81.35	81.67	82.15	81.83	82.21	78.49
10	75.70	76.42	79.14	77.82	78.29	81.23	81.32	81.70	82.12	81.91	82.21	78.37
11	75.66	76.64	78.99	77.82	80.83	81.65	81.35	81.54	81.87	81.82	82.45	78.12
12	75.66	76.64	78.90	77.45	81.55	81.65	81.57	81.41	81.97	81.73	82.54	78.12
13	75.52	79.10	78.84	77.67	81.69	81.41	81.65	81.42	82.09	81.86	81.95	78.29
14	75.52	78.82	79.06	77.73	81.54	81.28	81.65	81.49	81.65	82.03	81.83	78.46
15	75.56	78.97	79.02	77.85	81.47	81.43	81.51	81.59	81.68	82.07	81.71	78.35
16	75.95	78.85	78.96	77.97	81.47	81.64	81.51	81.49	81.63	82.01	81.67	78.48
17	76.05	78.86	78.96	77.84	81.14	81.68	81.75	81.49	81.81	82.00	81.70	78.47
18	75.87	78.87	79.23	77.79	81.08	81.65	81.84	81.51	81.81	82.00	81.81	78.21
19	75.76	78.76	79.30	77.47	81.22	81.41	81.78	81.59	81.69	81.92	81.83	78.24
20	75.79	78.99	79.23	77.70	81.30	81.92	81.57	81.68	81.73	82.07	81.82	78.13
21	75.76	79.05	79.05	77.66	81.65	82.02	81.38	81.69	81.75	82.23	81.88	78.27
22	75.76	78.84	78.97	78.36	81.65	81.95	81.71	81.68	81.68	82.36	81.94	78.18
23	75.84	78.89	78.53	78.51	81.51	81.75	81.86	81.76	81.57	82.42	81.78	77.92
24	75.93	78.97	78.47	78.54	81.51	82.12	81.[illegible]9	81.86	81.80	82.31	81.65	77.94
25	76.17	78.97	78.57	78.24	81.54	81.94	81.63	81.91	81.89	82.18	81.91	78.07
26	76.16	78.67	78.66	77.99	81.36	81.65	81.58	81.56	81.88	82.14	81.85	78.15
27	76.12	78.71	78.31	77.95	81.32	81.79	81.61	81.74	81.74	82.14	78.19	78.12
28	76.28	79.92	78.29	78.10	81.48	81.77	81.51	81.86	81.65	82.11	78.41	78.21
29	76.26	80.06	78.26	78.22	---	81.57	81.67	81.86	81.71	82.14	78.53	78.17
30	76.00	79.90	78.44	78.49	---	81.54	81.72	81.78	81.82	82.17	78.54	78.07
31	75.97	---	78.44	78.47	---	81.67	---	81.68	---	82.14	78.50	---
MAX	76.28	80.06	79.92	78.75	81.69	82.12	81.89	81.98	82.15	82.42	82.54	78.49

WTR YR 1986 MEAN 79.95 HIGH 75.19 OCT 5 LOW 82.54 AUG 12

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October 1, 1978

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
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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TOP

Film Identification

Century

1303 Geneva Avenue
St. Paul, MN 55119

PRECISION[SM] RESOLUTION TARGETS

LEFT

RIGHT

150 MM

6"

PM-3 8½"x11" PHOTOGRAPHIC GENERAL TARGET
NBS 1010a ANSI/ISO #2 EQUIVALENT

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